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UNITED STATES DEPARTMENT OF AGRICULTURE



DEPARTMENT BULLETIN No. 1302



Washington, D. C.



Issued December 29, 1924
Revised April, 1925

DEVELOPMENT AND PRESENT STATUS OF FARMERS' COOPERATIVE BUSINESS ORGANIZATIONS

By

R. H. ELSWORTH, Specialist in Agricultural Cooperation
Bureau of Agricultural Economics

CONTENTS

	Page
Three Nation-wide Surveys	1
Cooperation in 1913-1915	4
Cooperative Sales and Purchases in 1919	5
Cooperation in 1921-1924	5
Subjects Covered by Tables:	
Statistics for 1912-1915	14
Census Survey of 1919	22
Associations in United States, 1924	25
Association in Leading States, 1924	28
Organization Characteristics and Membership	30
Amount of Business	38
Date of Organization	44
Collective Purchasing	45
Grain-Marketing Associations	46
Creameries	54
Fruit and Vegetable Associations	56
Associations Handling Livestock	59
Cotton, Rice, Tobacco, and Wool Associations	63
Agricultural Consumer Cooperation	65
Associations "Out of Business"	65
Specific Associations	67

WASHINGTON
GOVERNMENT PRINTING OFFICE

1925

LIST OF TABLES

STATISTICS FOR 1912-1915

Table No.	Page
1. Associations of different kinds reporting amount of business, by States, 1913.....	14
2. Number and per cent of associations, by kinds and geographic divisions, 1915.....	16
3. Number of associations and membership, by kinds and States, 1915.....	18
4. Number of associations and estimated business, by kinds and States, 1915.....	20

CENSUS SURVEY OF 1919

5. Cooperative marketing and purchasing through farmers' organizations, 1919.....	22
6. Farms reporting sales and purchases through cooperative associations, by States, 1919.....	24

ASSOCIATIONS IN UNITED STATES, 1924

7. Number and percentage of associations, by kinds and geographic divisions, March, 1924.....	25
8. Farmers' business organizations by kinds and States, March, 1924.....	26

ASSOCIATIONS IN LEADING STATES, 1924

9. Associations in leading States, March, 1924.....	28
10. Grain marketing associations, March, 1924.....	28
11. Dairy marketing associations, March, 1924.....	28
12. Fruit and vegetable marketing associations, March, 1924.....	28
13. Livestock marketing associations, March, 1924.....	28
14. Cotton marketing associations, March, 1924.....	29
15. Wool marketing associations, March, 1924.....	29
16. Miscellaneous selling associations, March, 1924.....	29
17. Associations engaged in retailing, March, 1924.....	29
18. Collective buying associations, March, 1924.....	29

ORGANIZATION CHARACTERISTICS AND MEMBERSHIP

19. Associations by organization characteristics and States, March, 1924.....	30
20. Associations by kinds and organization characteristics, March, 1924.....	32
21. Associations reporting membership by kinds and States, March, 1924.....	34
22. Distribution of associations by membership groups, March, 1924.....	36

AMOUNT OF BUSINESS

23. Associations reporting amount of business by kinds and States, 1921.....	38
24. Associations reporting amount of business by States, 1912-1917, 1921-22.....	40
25. Amount of business by kind of association, 1913, 1915, 1921, and 1922.....	42
26. Associations grouped according to amount of business transacted.....	42
27. Associations reporting amount of business in 1913 compared with 1921 and 1922.....	43
28. Average amount of business by kind of association, 1913 and 1922.....	44

DATE OF ORGANIZATION

29. Active associations reporting date of organization, 1863-1923.....	44
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COLLECTIVE PURCHASING

30. Associations purchasing supplies, by States, 1924.....	45
31. Associations purchasing supplies, by kind of association, 1924.....	46

GRAIN MARKETING ASSOCIATIONS

32. Grain marketing associations, estimated membership and amount of business, February, 1924.....	46
33. Grain marketing associations reporting membership by geographic divisions, February, 1924.....	47
34. Grain marketing associations reporting membership by leading States, February, 1924.....	47
35. Grain marketing associations reporting amount of business by geographic divisions, 1923.....	47
36. Grain marketing associations reporting amount of business by leading States, 1923.....	50
37. Grain marketing associations reporting both number of members and amount of business by leading States, 1923.....	50
38. Grain marketing associations reporting amount of business by geographic divisions in both 1913 and 1923.....	50
39. Grain marketing associations reporting amount of business by leading States in both 1913 and 1923.....	51
40. Quantity of grain of the 1922 crop handled by 1,882 associations.....	51
41. Quantity of grain of the 1922 crop handled by 1,882 associations, by leading States.....	51
42. State and regional grain marketing associations, June, 1924.....	52
43. Terminal grain marketing associations, 1923.....	54

CREAMERIES, 1922 AND 1923

44. Creameries, estimated membership and amount of business, by geographic divisions.....	54
45. Creameries reporting membership and amount of business, by geographic divisions.....	55
46. Creameries reporting membership, by leading States, 1923.....	55
47. Creameries reporting amount of business, by leading States, 1922.....	55

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CONTENTS

	Page		Page
Three nation-wide surveys	1	Tables—Continued.....	
Cooperation in 1913-1915.....	4	Date of organization.....	44
Cooperative sales and purchases in 1919.....	5	Collective purchasing.....	45
Cooperation in 1921-1924.....	5	Grain-marketing associations.....	46
Subjects covered by tables:		Creameries.....	54
Statistics for 1912-1915.....	14	Fruit and vegetable associations.....	56
Census survey of 1919.....	22	Associations handling livestock.....	59
Associations in United States, 1924.....	25	Cotton, rice, tobacco, and wool associa-	
Associations in leading States, 1924.....	28	tions.....	63
Organization characteristics and mem-		Agricultural consumer cooperation.....	65
bership.....	30	Associations "out of business".....	65
Amount of business.....	38	Specific associations.....	67

THREE NATION-WIDE SURVEYS

Three nation-wide surveys have been made to determine the extent and intensity of the agricultural cooperative movement. The first of these was begun in 1913 and was continued through 1915, when data for the years 1912, 1913, 1914, and 1915 were collected. Reports were obtained from 5,424 organizations and this collection of data was the basis of the statistical portion of Department of Agriculture Bulletin No. 547, published in 1917.

In 1919, data relative to the extent of cooperative buying and selling by farmers were collected as a part of the agricultural census, made by the Bureau of the Census. These were so compiled as to show the number of farms in each State reporting sales or purchases, and the amount of business involved in these transactions. As the census enumerators covered every township in the United States, the data, so far as the items covered are concerned, are complete and are of great value in connection with statistical studies of the subject. Furthermore, the data make possible a comprehensive picture of the status of agricultural cooperation in 1919.

Early in 1922 the third survey of cooperative buying and selling was undertaken. This contemplated an enumeration and listing of all active farmers' business organizations by kinds of products handled and by States, cities, and villages. Sixty thousand individuals scattered through the 48 States, assisted in obtaining the

¹ Much of the work in connection with compiling the statistical tables was done by William H. Baker and Grace Wanstall.

names and addresses of associations of farmers engaged in selling or buying or both. Approximately 40,000 names were reported. After the elimination of duplicates there remained between 25,000 and 30,000 names of associations.

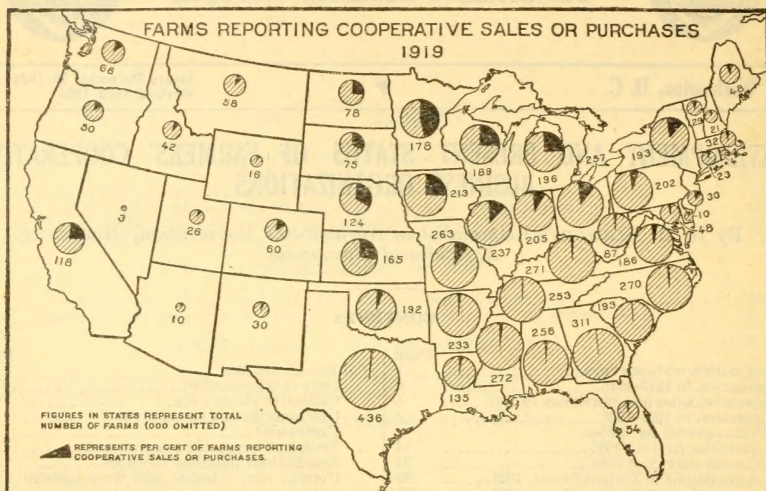


FIG. 1.—About a fourth of the farms in California, North Dakota, Kansas, Iowa, Wisconsin, and Michigan reported purchases or sales through cooperative associations in 1919, and considerably more than a fourth of the farms in Minnesota, South Dakota, and Nebraska made similar reports. (See Table 5.)

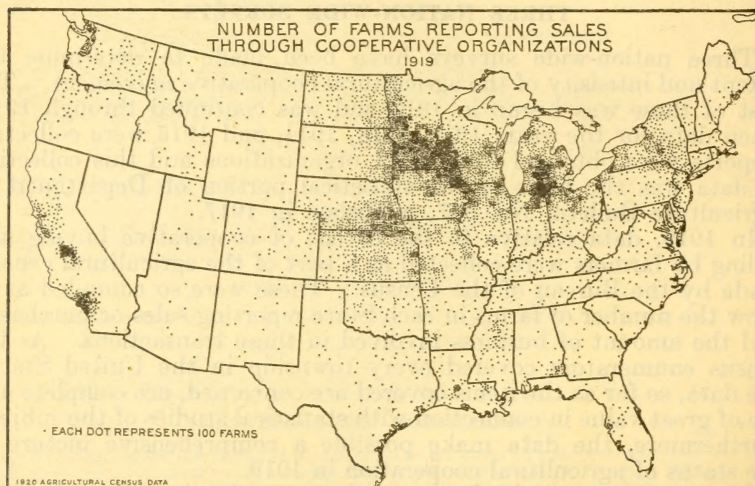


FIG. 2.—Cooperators were numerous in parts of Ohio, Michigan, Indiana, Illinois, Wisconsin, Iowa, Minnesota, Nebraska, and California in 1919; and cooperators were few in number in New England, the Southern States, and the Mountain States. (See Table 5.)

Subsequent follow-up work revealed that many organizations had been reported under two and three different names and some under four. Some of the associations reported were merely proposed organizations which had never been formed, and others had ceased

to function. As a result of a sifting process, extending over two years, and a continuous search for new associations, in March, 1924, the department files contained information regarding 10,160 active

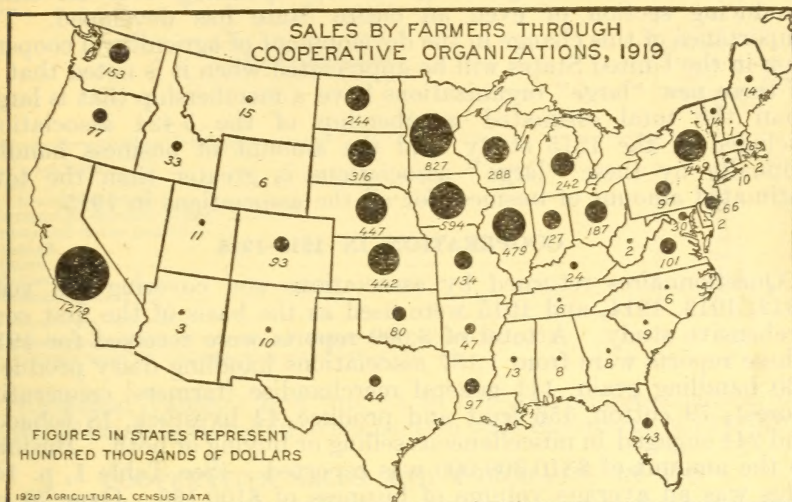


FIG. 3.—Sales by California farmers were greater than those by Minnesota and New York farmers combined. Most of the cooperative selling was done by the farmers in the North Central, the Middle Atlantic, and the Pacific States. (See Table 5.)

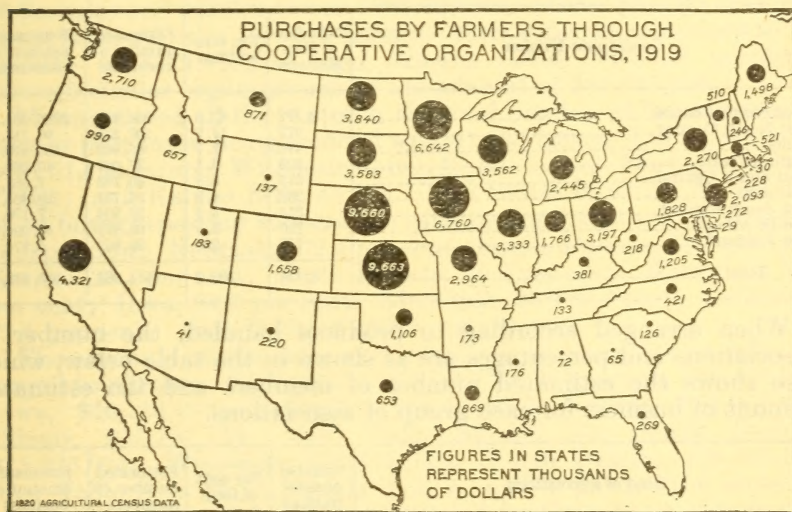


FIG. 4.—Kansas farmers made heavier purchases through cooperative associations than the farmers of any other State; Nebraska came close on the heels of Kansas and Iowa followed Nebraska. (See Table 5.)

organizations. These data, classified and tabulated, fill a majority of the following pages.

The character of the agricultural cooperative movement has been undergoing a change since about 1920. Prior to that year farmers' business organizations were mostly local enterprises with occasional

federations of locals for selling purposes. Both the total membership and the total amount of business were made up of a large number of relatively small items.

Since 1920 the "large" organization operating over an entire producing section or even an entire State has developed. The importance of this change in the development of agricultural cooperation in the United States will be appreciated when it is noted that 50 of these new "large" organizations have a membership that is larger than the total estimated membership of the 5,424 associations included in the 1915 study, and the amount of business handled annually by these "large" associations is greater than the total estimated amount of business for all the associations in 1915.

COOPERATION IN 1913-1915

Questionnaires returned by associations and covering the years 1912, 1913, 1914, and 1915 were used as the basis of the first comprehensive study. A total of 3,099 reports were received for 1913. These reports were from 1,187 associations handling dairy products, 960 handling grain, 111 general merchandise (farmers' cooperative stores), 79 cotton, 456 fruit and produce, 44 livestock, 18 tobacco, and 244 engaged in miscellaneous selling or buying or both. Business to the amount of \$310,300,000 was reported. (See Table 1, p. 14.) This was an average volume of business of \$100,133. Over 70 per cent of the 3,099 associations were in the 12 North Central States.

The 5,424 included in the statistical tabulations for 1915 were distributed through the geographic divisions as follows:

Geographic division	Number of associations	Per cent of total	Estimated number of members	Estimated amount of business
West North Central.....	2,577	47.5	254,425	\$286,534,775
East North Central.....	973	17.9	107,331	90,113,770
Pacific.....	416	7.7	65,950	150,510,979
South Atlantic.....	329	6.1	37,097	10,269,102
West South Central.....	315	5.8	30,793	7,683,734
Mountain.....	232	4.3	34,731	20,485,811
East South Central.....	215	3.9	35,834	7,170,323
Middle Atlantic.....	210	3.9	63,971	56,096,060
New England.....	157	2.9	20,952	6,974,130
Total.....	5,424	100.0	651,084	635,838,684

When arranged according to products handled, the number of associations and percentages are as shown in the table below, which also shows the estimated number of members and the estimated amount of business for each group of associations.

Kind of associations	Number of associations	Per cent of total	Estimated number of members ¹	Estimated amount of business ²
Dairy products.....	1,708	31.5	140,567	\$89,061,370
Grain.....	1,637	30.2	166,726	289,689,218
Fruits and vegetables.....	871	16.0	109,916	201,542,646
Merchandise (farmers' stores).....	275	5.1	59,503	11,677,355
Cotton and cotton products.....	213	3.9	18,404	1,502,007
Livestock.....	96	1.8	13,438	5,623,800
Tobacco.....	43	.8	17,849	6,450,000
All others.....	581	10.7	124,681	30,292,288
Total.....	5,424	100.0	651,084	635,838,684

¹ Table 3, p. 18.

² Table 4, p. 20.

The average number of members per association and the average amount of business per association for the groups of associations handling the various products have been determined to be as follows:

Kind of association	Average number of members per association, 1915 ¹	Average amount of business per association, 1912-1915 ²
Dairy products.....	83	\$48,806
Grain.....	102	143,268
Fruits and vegetables.....	124	161,458
Merchandise (farmers' stores).....	220	52,919
Cotton and cotton products.....	87	161,465
Livestock.....	140	98,777
Tobacco.....	336	156,890
All others.....	231	82,986
All associations.....	122	115,402

¹ From reports from 4,683 associations, Department Bulletin 547, p. 25.

² Averages based on 7,399 reports received during 1912-1915.

Statistical Tables 1 to 4 (pp. 14 to 20) contain in condensed form much of the data collected in connection with the survey of 1913-1915.

COOPERATIVE SALES AND PURCHASES IN 1919

Census data collected in 1919 give the number of farms in the United States that reported cooperative selling or purchasing as 624,527. This number was 9.7 per cent of all the farms. The amount of the sales and purchases was \$806,599,308. Over 500,000 (511,383) farms reported sales through farmers' marketing organizations to the amount of \$721,983,639, and 329,449 farms reported purchases through similar organizations to the amount of \$84,615,669.

Minnesota led all the States in the total number of farms reporting sales or purchases, being credited with 81,145 farms; Iowa was second with 51,630 farms; Wisconsin third, 48,190 farms; Michigan fourth, 47,021; and Kansas fifth, 43,188. The States in which 20 per cent of all farms reporting cooperative sales or purchases are: Minnesota, 45.5 per cent; Nebraska, 32.4 per cent; South Dakota, 30.2 per cent; Kansas, 26.1 per cent; North Dakota, 25.5 per cent; Wisconsin, 25.5 per cent; Iowa, 24.2 per cent; Michigan, 23.9 per cent; California, 22.4 per cent. (See Tables 5 and 6, pp. 22, 24.)

The amounts of the sales and purchases in those States with the largest totals were: California, \$132,312,110; Minnesota, \$89,402,621; Iowa, \$66,164,578; Nebraska, \$54,415,247; Kansas, \$53,954,008; Illinois, \$51,254,154; New York, \$47,177,223; South Dakota, \$35,235,015; Wisconsin, \$32,447,211; North Dakota, \$28,325,369. (See Table 6, p. 24.) Figures 1, 2, 3, and 4 picture the situation in the United States in 1919 as revealed by the reports obtained by the census enumerators.

COOPERATION IN 1921-1924

The third survey was begun at about the time the Capper-Volstead cooperative law was enacted. (Capper-Volstead Act, Public No. 146. 67th Cong., approved, February 18, 1922.) At that time it

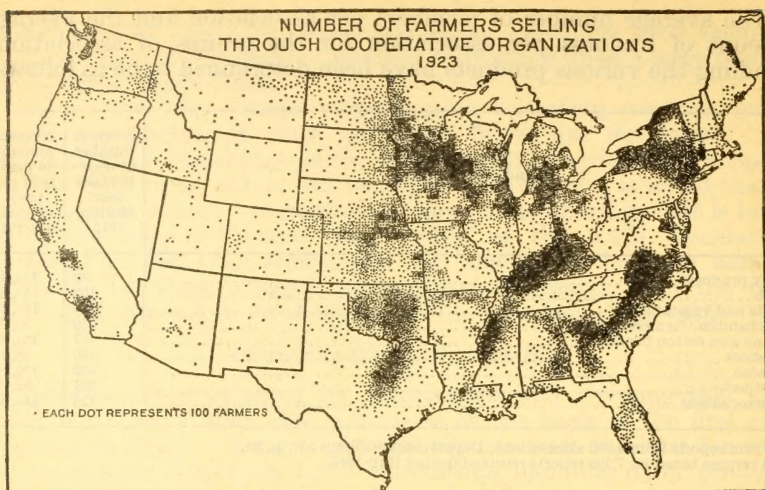


FIG. 5.—Recent development of the cotton, tobacco, grain, and milk marketing associations has completely changed the cooperative map of the United States as will be shown by comparison of this map with Figure 2

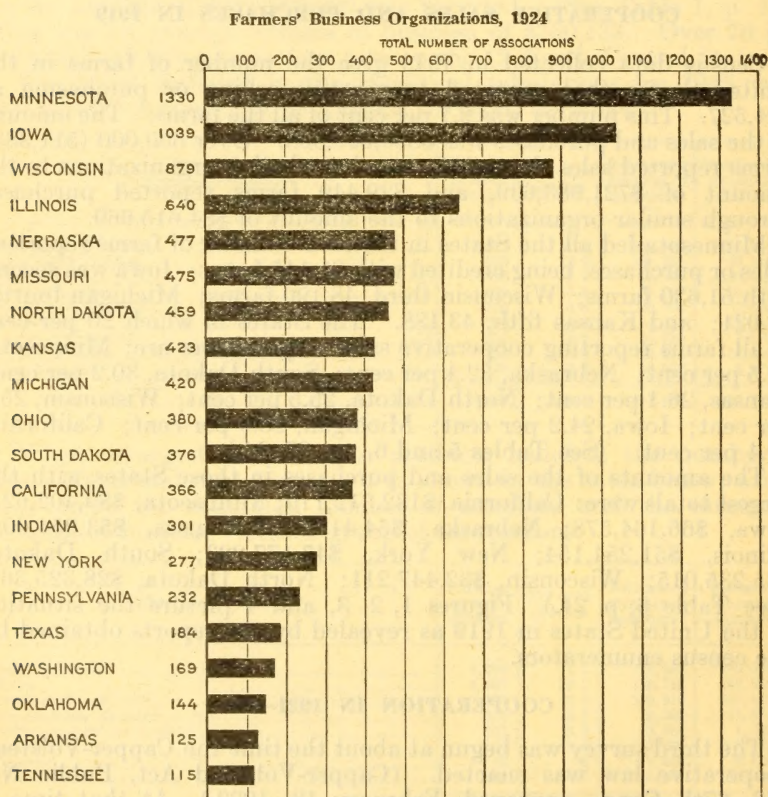


FIG. 6.—Minnesota leads all other States in regard to total number of associations; Iowa holds second place and Wisconsin third. (See Table 8.)

Associations by Geographic Divisions, 1915 and 1924

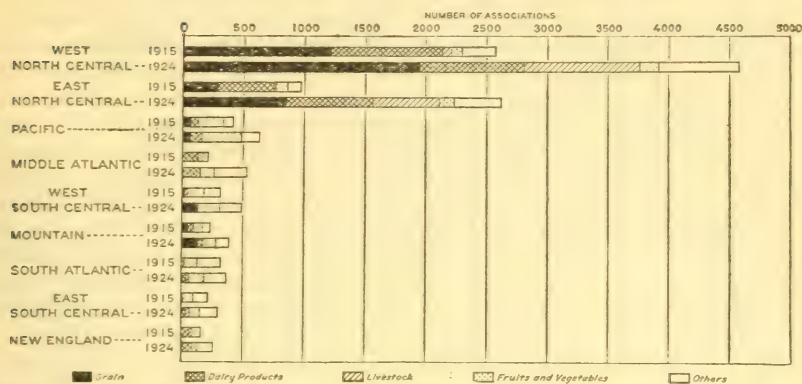


FIG. 7.—Sixty-five per cent of all associations in 1915 were in the 12 North Central States. In 1924 the proportion was 70 per cent. (See Tables 2 and 7.)

Kinds of Associations in Leading States, 1915 and 1924

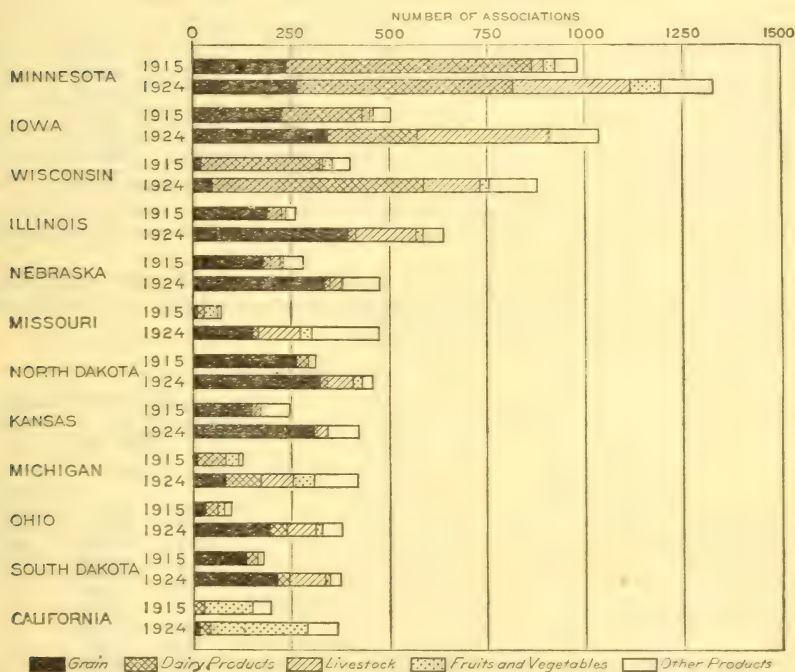


FIG. 8.—Minnesota led in number of associations in 1915 and 1924. The other leading States, in the order of importance, were Iowa, Wisconsin, and Illinois. (See Tables 3 and 8.)

was felt that there was need for definite information regarding the status of the agricultural cooperative movement in the various States in order that the Secretary of Agriculture might the more intelligently carry out the provisions of the law as occasion required.

In planning the survey more attention was given than formerly to obtaining information regarding the legal status of existing organizations. A greater amount of follow-up work with supplemental questionnaires and personal letters was conducted in connection with the 1922-1924 survey than had previously been possible, and as a result a much larger quantity of information was obtained, classified, and tabulated. A portion of the data collected is made available in the tables comprising the major portion of this bulletin.

At the end of March, 1924, reports had been received from 10,160 associations. In addition to certain basic tables given in the following pages, a number of tables give comparisons for different years. The data given are sufficient for the compiling of many such tables by those who wish to make a more intensive study of the subject.

The 10,160 associations included in the 1924 study were distributed through the nine geographic divisions as indicated in the following table which also shows estimated amount of business for 1923:

Geographic divisions	Associations		Estimated business, 1923	
	Number	Per cent	Amount	Per cent
West North Central.....	4,579	45.1	\$635,800,000	23.9
East North Central.....	2,620	25.8	338,800,000	15.4
Pacific.....	634	6.2	413,600,000	18.8
Middle Atlantic.....	531	5.2	275,000,000	12.5
West South Central.....	492	4.9	92,400,000	4.2
Mountain.....	387	3.8	41,800,000	1.9
South Atlantic.....	363	3.6	145,200,000	6.6
East South Central.....	298	2.9	189,200,000	8.6
New England.....	256	2.5	68,200,000	3.1
United States.....	10,160	100.0	¹ 2,200,000,000	100.0

¹ Not including \$200,000,000 of business by cooperative selling agencies in 19 livestock terminal markets.

Classified according to kind of associations the figures indicating number of associations, estimated number of members, and estimated amount of business are as given below:

Kind	Number reporting, 1924	Estimated number of members, April, 1924	Estimated business, 1923
			<i>Thousands</i>
Cotton.....	107	250,000	\$100,000
Dairy products.....	1,966	200,000	400,000
Fruits and vegetables.....	1,232	200,000	300,000
Grain.....	3,134	400,000	600,000
Livestock.....	1,598	250,000	¹ 250,000
Nuts.....	51	50,000	50,000
Poultry and poultry products.....	56	15,000	50,000
Tobacco.....	25	290,000	150,000
Wool.....	115	50,000	20,000
Miscellaneous selling.....	729	70,000	160,000
Merchandise (farmers' stores).....	717	150,000	50,000
Collective buying.....	430	100,000	70,000
Total.....	10,160	2,025,000	¹ 2,200,000

¹ Not including \$200,000,000 of business by cooperative selling agencies in 19 livestock terminal markets.

The changes in relative importance of the several geographic divisions are shown by the following percentages:

Geographic division	Number of associations		Estimated number of members	Estimated amount of business	
	1915	1924	1915	1915	1923
	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
West North Central.....	47.5	45.1	39.1	45.1	28.9
East North Central.....	17.9	25.8	16.5	14.2	15.4
Pacific.....	7.7	6.2	10.1	23.7	18.8
Middle Atlantic.....	3.9	5.2	9.8	8.8	12.5
West South Central.....	5.8	4.9	4.7	1.2	4.2
Mountain.....	4.3	3.8	5.4	3.2	1.9
South Atlantic.....	6.1	3.6	5.7	1.6	6.6
East South Central.....	3.9	2.9	5.5	1.1	8.6
New England.....	2.9	2.5	3.2	1.1	3.1
United States.....	100.0	100.0	100.0	100.0	100.0

Changes in the number of associations in the various geographic divisions has not been great but the changes in the distribution among the different divisions of the amount of business transacted is marked. The West North Central, Pacific, and Mountain States have lost in relative importance, and the Middle Atlantic, South Central, South Atlantic, and New England States have gained. These changes seem to indicate that cooperative selling and buying, which 10 years ago was largely confined to the North Central and Pacific States, is becoming more generally established in all parts of the United States.

The total figures for number of associations, estimated number of members, and estimated amount of business, broken up according to kind of associations and converted into percentages, point out further tendencies of the agricultural cooperative movement, as will be noted by the following:

Kind of association	Number of associations		Estimated number of members		Estimated amount of business	
	1915	1924	1915	1924	1915	1923
	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
Grain.....	30.2	30.8	25.6	19.8	45.6	27.3
Dairy products.....	31.5	19.4	21.6	9.9	14.0	18.2
Fruits and vegetables.....	16.0	12.1	16.9	9.9	31.7	13.6
Livestock.....	1.8	15.7	2.1	12.3	.9	11.4
Cotton.....	3.9	1.1	2.8	12.3	.2	4.5
Tobacco.....	.8	.2	2.7	14.3	1.0	6.8
Merchandise (farmers' stores).....	5.1	7.1	9.1	7.4	1.8	2.3
All others.....	10.7	13.6	19.2	14.1	4.8	15.9
Total.....	100.0	100.0	100.0	100.0	100.0	100.0

While there has been a marked increase in the total number of associations, the estimated membership, and the estimated amount of business, the gains for some kinds of associations have been much greater than for others, so that the relative importance of the different kinds of associations has changed materially during the 10-year

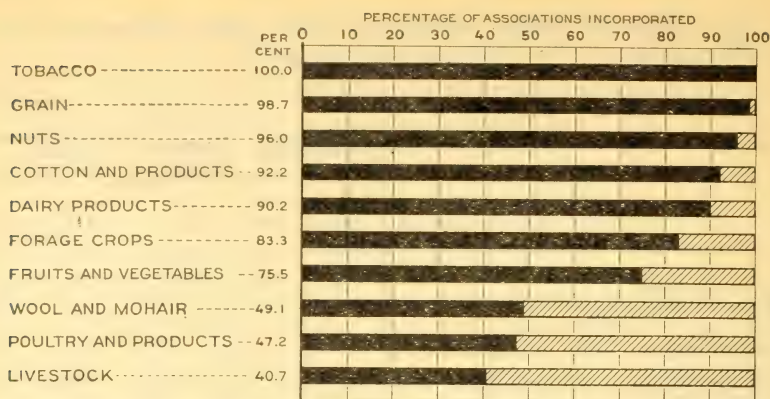


Fig. 9.—The percentage of all associations which are incorporated varies from 40 for those handling livestock to 100 for those handling tobacco. (See Table 20.)

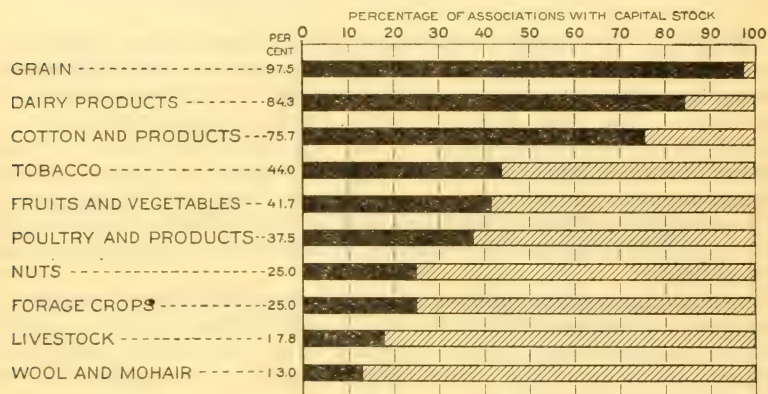


Fig. 10.—The percentage of all associations having capital stock for the various lines of commodities varied from 13 for associations handling wool to 97.5 for those handling grain. (See Table 20.)

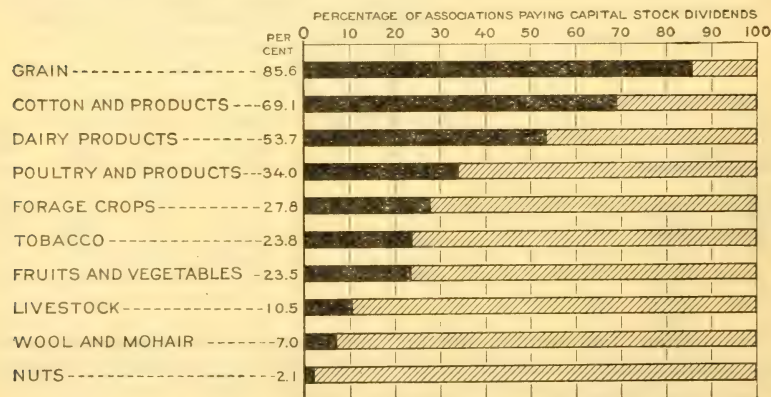


Fig. 11.—Approximately 85 per cent of the associations handling grain pay dividends on capital stock, 69 per cent of those handling cotton or cotton products, and 53 per cent of those marketing dairy products. Only 2 per cent of those handling nuts pay dividends. (See Table 20.)

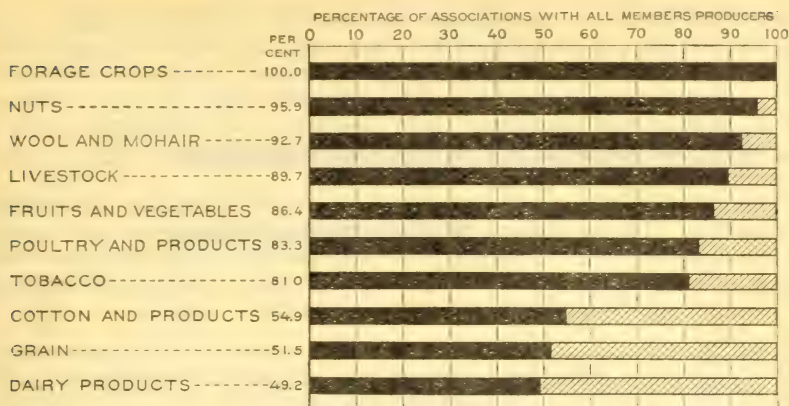


FIG. 12.—Most of the farmers' business organizations are composed only of producers of the product or products handled. (See Table 20.)

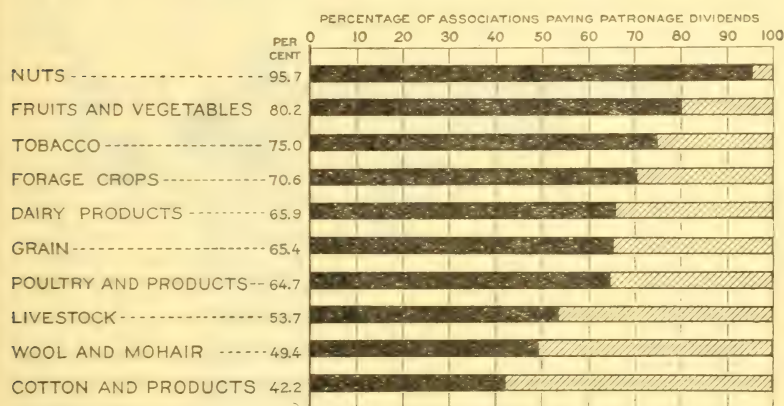


FIG. 13.—Whether patronage dividends are paid by an association depends largely upon the business methods employed. Such dividends are paid from funds accumulated by charging the members more than the cost of the service rendered. If all but actual cost is returned to members in connection with current transactions, no fund is accumulated from which dividends can be paid at the close of the season or year. (See Table 20.)

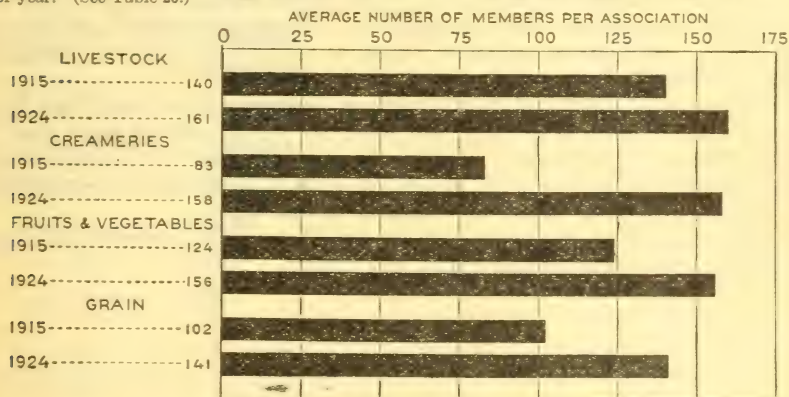


FIG. 14.—During the nine years, 1915-1924, the average number of members of associations handling livestock increased from 140 to 161, the average number for associations operating creameries from 83 to 158, for associations handling fruit and vegetables from 124 to 156, and for associations handling grain from 102 to 141. (See Table 21.)

period, 1915-1924. As regards the number of organizations, livestock shipping associations have increased in relative importance, while associations handling dairy products and fruits and vegetables are a smaller fraction of the total number than formerly. Many small associations marketing dairy products have been absorbed by larger organizations. In this way the marketing of dairy products is rapidly becoming a large-scale activity.

The changes in relative importance as regards number of members is marked. These changes are largely the result of the appearance of the state-wide and regional associations with their large memberships in the tobacco and cotton producing sections and to the increase in number of livestock shipping associations.

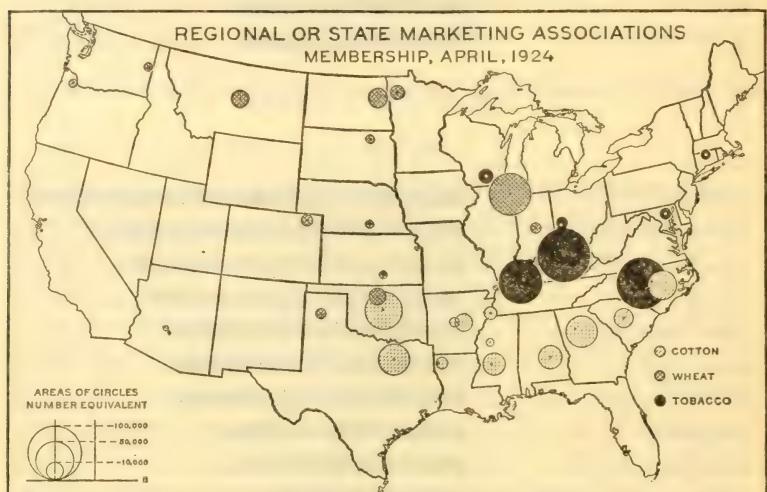


FIG. 15.—Since 1920 nearly 50 associations have been formed which handled but a single commodity and aim to serve an entire producing region or the producers within the boundaries of a State. The most important of the organizations of this new type are the tobacco, cotton, and wheat associations. (See Tables 42, 43, 56, 57, and 58.) The dots in the center of the circles indicate headquarters of associations

The percentages for estimated amount of business show relative losses by the grain associations and those marketing fruits and vegetables, and show relative gains by the organizations handling dairy products, livestock, cotton, and tobacco.

Such data as are available regarding the organizations which have gone out of business during the past 10 years are incorporated in Tables 64 to 70, inclusive. Tables 71 to 95, inclusive, give statistical information for a period of years for about 20 of the larger or best known associations handling various products.

Comments of an interpretative nature have been included in many of the legends beneath the maps and charts.

Average Number of Members for Associations Handling Tobacco, Cotton, and Rice for 1915 and 1924

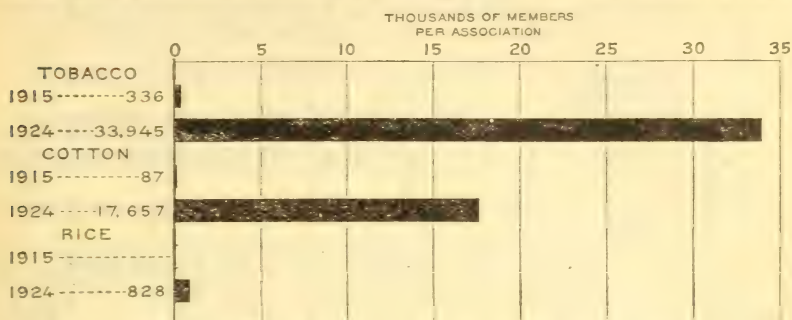


FIG. 16.—About 1920 the State-wide or region-wide marketing organizations appeared. In the tobacco, cotton, and rice producing sections this new type of association has largely replaced the local association which aimed to serve the farmers tributary to a single shipping point. (See Table 21.)

Estimated Business of Associations in Leading States, 1922

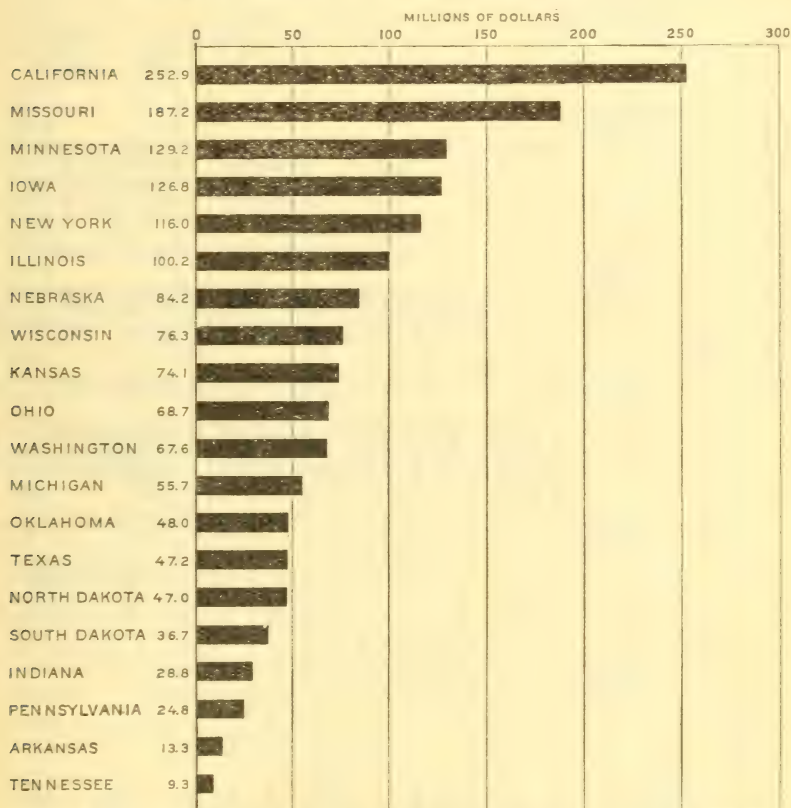


FIG. 17.—The estimated amount of business was determined by multiplying the average amount of business for the associations reporting amount of business by the total number of associations credited to each State

Delaware.....	40,075	1	500,000	1	1,289,559	4	20,000	1	1,488,559	4	560,075
Maryland.....	5,000	3	1,289,559	3	5,816,000	7	194,000	3	14,100	7	1,488,559
Virginia.....	105,500	7	5,816,000	7	109,500	15	9,000	15	4,995,600	15	5,935,600
West Virginia.....	23,000	7	109,500	7	11,000	1	263,384	14	147,848	40	4,995,732
North Carolina.....	6	2	11,000	2	1,682,200	6	4,500	3	319,222	13	780,222
South Carolina.....	14	25	1,682,200	25	9,408,259	19	64,000	19	2,027,800	19	2,027,800
Georgia.....						29	300,400	29	1,982,600	29	1,982,600
Florida.....											
South Atlantic.....											
Kentucky.....	173,575	45	9,408,259	45	1,000,000	128	267,584	36	1,068,570	128	17,780,588
Tennessee.....	43,200	7	401,700	7	100,000	34	76,000	8	283,090	34	2,404,479
Alabama.....	28,000	10	287,838	10	100,000	16	3,000	2	283,090	16	363,938
Mississippi.....		10	861,177	10	100,000	14			14,000	14	5,603,177
East South Central.....		13	170,440	13	100,000	22		2	66,670	22	896,210
Arkansas.....	5,492,100	40	1,721,155	40	100,000	86				86	9,417,804
Louisiana.....	536,348	39	1,412,201	39	1,101,000						
West South Central.....		39	1,412,201	39	1,101,000						
Oklahoma.....	419,737	16	482,823	16	631,000	46	4,000	2	71,952	46	2,024,504
Texas.....	2,275,839	14	2,582,104	14	470,000	22		5	292,000	22	824,683
West South Central.....		38	3,281,944	38	1,101,000	46				46	5,593,947
Montana.....	410,736	4	66,900	4	1,485,000	136	4,000	7	363,932	136	9,550,464
Idaho.....	57,000	9	458,000	9	1,485,000	23	26,000	2	236,000	23	2,224,735
Wyoming.....	12,000	18	2,042,620	18	164,807	28	3,000	11	1,453,400	28	2,118,207
Colorado.....	111,701	2	37,500	2	440,000	3				3	452,000
New Mexico.....		2	37,500	2	440,000	29				29	2,343,951
Arizona.....	112,500	1	45,000	1	12,000	2				2	151,567
Utah.....	229,723	8	1,008,439	8	1,008,439	16				16	1,361,162
Nevada.....	7,850	1		1		1				1	7,850
Mountain.....		25	829,010	25	2,101,906						
Washington.....	786,291	27	8,056,784	27	5,215,431	108	31,000	22	2,329,937	108	9,062,872
Oregon.....	754,767	20	4,220,936	20	1,680,229	78	600,635	3	163,000	78	14,882,041
California.....	4,313,791	64	20,703,498	64	130,555,221	42	75,000	18	5,061,659	42	6,822,221
Pacific.....		34	5,854,819	34	6,805,600	102				102	30,159,948
United States.....	79,15,097,844	1,187	59,701,105	456	63,921,381	222	805,824	22	5,290,659	222	51,804,210
Average.....	191,112		50,296		135,995		53,406		21,730,668		310,313,295
									80,000		100,133

TABLE 2.—*Number and per cent of associations, by kinds and geographic divisions, 1915*
 [Source of data, Department Bulletin No. 547]

Geographic divisions	Cotton		Dairy products		Fruit and produce		Grain		Livestock		Tobacco		Stores		Miscellaneous		Total	
	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent
New England.....			61	3.6	27	3.1	1	0.1	.....	.....	.....	.....	19	6.9	49	8.4	157	2.9
Middle Atlantic.....			125	7.3	45	5.2	.....	.....	.....	.....	.....	.....	15	5.4	23	4.0	210	3.9
East North Central.....			461	27.0	101	11.6	285	17.4	10	10.4	7	16.3	45	16.4	64	11.0	973	17.9
West North Central.....		0.5	919	53.8	88	10.1	1,217	74.3	80	83.3	.....	.....	108	39.3	164	28.2	2,577	47.5
South Atlantic.....			17	1.0	102	11.7	.....	.....	2	2.1	11	25.6	25	9.1	102	17.6	329	6.1
East South Central.....			8	.5	85	9.8	1	.....	1	1.1	23	53.5	20	7.3	40	6.9	215	3.9
West South Central.....			18	1.0	137	15.7	18	1.1	2	2.1	.....	.....	5	1.8	33	5.7	315	5.8
Mountain.....			43	2.5	70	8.0	51	3.1	1	1.0	.....	.....	7	2.5	59	10.1	232	4.3
Pacific.....		.9	56	3.3	216	24.8	64	3.9	.....	.....	.....	.....	31	11.3	47	8.1	416	7.7
United States.....	213	100.0	1,708	100.0	871	100.0	1,637	100.0	96	100.0	43	100.0	275	100.0	581	100.0	5,424	100.0

Percentage of Associations Reporting Business of Various Amounts, 1923

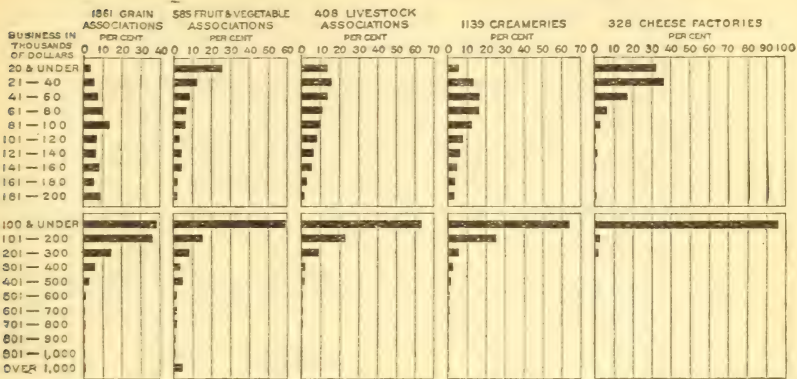


Fig. 18.—Reports from 4,321 associations of amount of business transacted annually indicates that a majority of the associations handling fruits, vegetables, and livestock, and operating creameries and cheese factories are in the group credited with less than \$100,000 per year. Grain-marketing associations fall largely in two groups; that is, under \$100,000 and between \$100,000 and \$200,000. (See Table 26.)

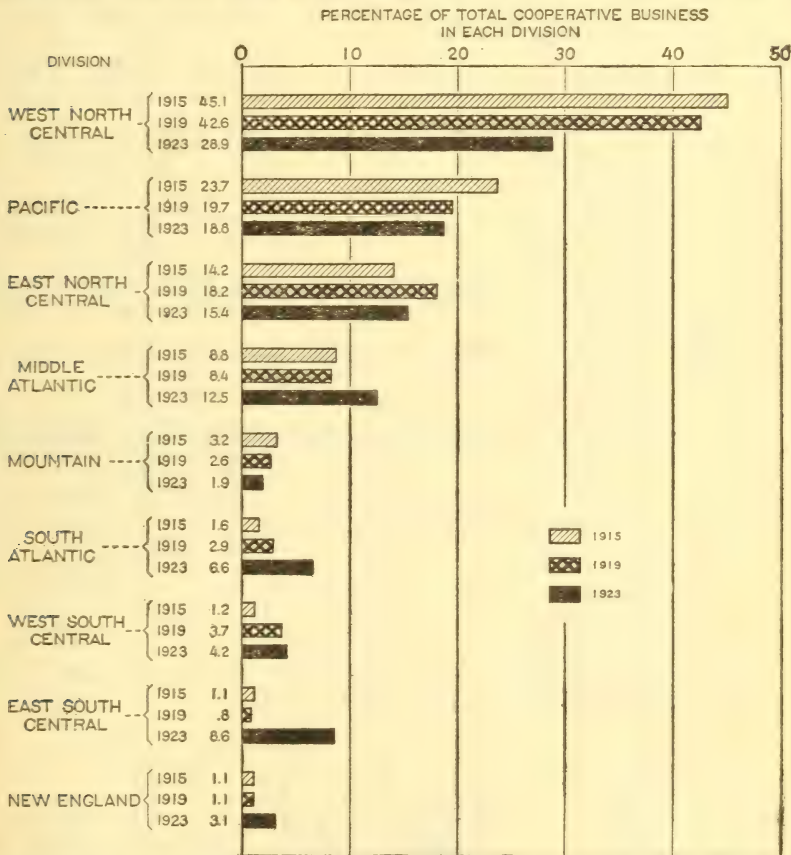


Fig. 19.—During the years from 1915 to 1923 the West North Central, Pacific, and Mountain States lost in relative importance as regards total amount of cooperative business handled. The other groups of States made gains

TABLE 4.—*Number of associations and estimated business, by kinds and States, 1915*

[Source of data, Department Bulletin No. 547]

State and geographic division	Cotton		Dairy products		Fruit and produce		Grain		Livestock		Tobacco		Stores		Miscellaneous		Total	
	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business	Number re-	Estimated business
Maine.....					19	\$47,500	1	\$145,460					5	\$195,000	39	\$1,812,876	71	\$2,690,836
New Hampshire.....			7	\$90,000													8	140,000
Vermont.....			8	140,000													23	1,267,484
Massachusetts.....			22	1,221,000													31	1,890,146
Rhode Island.....			10	469,140	5	556,410							11	633,776	5	232,420	31	1,890,146
Connecticut.....			14	341,712	3	333,846							3	122,965	3	139,452	20	815,010
New England.....			61	2,661,852	27	937,756	1	145,460					19	951,341	49	2,277,721	157	6,974,130
New York.....			75	1,959,075	32	48,000,000							7	285,985	10	1,500,000	124	51,745,060
New Jersey.....			2	93,828	9	22,500							4	44,616	5	232,420	20	393,364
Pennsylvania.....			48	2,468,304	4	300,000							4	89,332	8	800,000	66	3,957,636
Middle Atlantic.....			125	4,521,207	45	48,322,500							2	300,000	15	419,933	23	2,532,420
Ohio.....			29	725,000	16	1,280,000	31	2,325,000	1	\$58,400	7	1,050,000	4	163,420	9	119,187	97	5,721,007
Indiana.....			27	1,485,000	19	47,500	192	31,215,000							11	594,000	84	3,341,500
Illinois.....			34	134,300	11	27,500	132	31,320,000	2				2	81,710	24	1,115,616	263	32,679,126
Michigan.....			70	3,688,160	31	4,650,000	12	1,800,000	2	116,800			7	285,985	5	625	127	10,541,570
Wisconsin.....			301	30,965,375	24	2,070,768	23	2,595,080	7	140,000			32	1,173,344	15	375,000	402	37,850,567
East North Central.....			461	36,997,835	101	8,675,768	285	39,166,080	10	315,200	7	1,050,000	45	1,704,459	64	2,204,428	973	90,113,770
Minnesota.....			624	26,000,736	28	1,120,000	241	28,042,037	30	1,290,000			30	1,200,000	27	1,255,068	980	58,967,841
Iowa.....			204	10,561,772	8	345,000	223	36,585,000	20	1,168,000			5	57,970	31	441,004	505	106,738,546
Missouri.....			15	305,000	34	345,100	263	45,672,792	1	75,000			6	67,500	3	139,452	73	1,243,427
North Dakota.....			29	467,654	1	70,000	264	45,672,792	2	75,000			12	480,000	3	675,000	313	47,280,449
South Dakota.....			20	407,654	1	70,000	135	22,770,495	4				4	163,420	12	396,000	178	23,816,569
Nebraska.....			15	703,710	7	778,974	183	4,093,344	25	250,000			6	180,000	46	7,552,500	282	15,538,528
Kansas.....			6	63,198	10	2,000,000	153	27,645,111	2	116,800			36	1,182,852	39	1,941,654	246	32,949,615
West North Central.....			919	38,059,727	88	4,346,074	1,217	221,936,379	80	4,958,200			108	3,845,742	164	13,380,678	2,577	286,534,775

TABLE 5.—*Cooperative marketing and purchasing through farmers' organizations, 1919*
[Bureau of the Census]

Division and State	Farms reporting sales or purchases		Sales through farmers' marketing organizations				Purchases through farmers' marketing organizations			
	Number	Per cent of all farms	Farms reporting		Amount		Farms reporting		Amount	
			Number	Per cent of all farms	Total	Average per farm	Number	Per cent of all farms	Total	Average per farm
Geographic divisions:										
New England:	10,229	6.5	4,060	2.6	\$5,916,681	\$1,457	7,579	4.8	\$3,035,806	\$401
Middle Atlantic:	45,731	16.6	33,834	8.0	61,224,128	1,808	17,884	4.2	6,193,347	346
East North Central:	175,672	16.0	144,339	13.3	132,630,450	919	83,518	7.7	14,303,931	171
West North Central:	284,123	25.9	243,388	22.2	300,820,976	1,236	166,064	15.1	43,115,568	260
South Atlantic:	15,483	1.6	9,517	8	20,639,686	2,169	12,230	1.1	2,607,639	213
East South Central:	15,488	1.5	12,705	1.2	5,271,001	415	5,285	.5	763,054	144
West South Central:	18,755	1.9	15,635	1.6	26,984,455	1,723	9,332	.9	2,803,314	300
Mountain:	19,697	8.1	12,785	5.2	17,443,431	1,364	13,875	5.7	3,760,213	272
Pacific:	38,714	16.5	35,200	15.0	151,093,831	4,292	13,692	5.8	8,021,497	587
United States:	624,527	9.7	511,383	7.9	721,983,639	1,412	329,449	5.1	84,615,069	257
New England:										
Maine:	4,062	8.4	1,264	2.6	1,421,022	1,124	3,407	7.1	1,498,395	440
New Hampshire:	1,027	5.0	1,122	.6	120,127	987	946	4.6	246,059	260
Vermont:	2,513	8.6	1,239	.3	1,449,389	1,170	1,672	3.8	510,305	305
Massachusetts:	1,547	4.8	747	2.3	1,671,069	2,236	1,069	2.1	370,571	371
Rhode Island:	145	3.6	95	.3	222,078	2,338	20	.1	50,534	355
Connecticut:	935	4.1	595	2.6	1,682,096	2,827	459	2.0	228,966	499
Middle Atlantic:										
New York:	27,283	14.1	23,494	12.2	44,906,247	1,911	7,106	3.7	3,270,976	320
New Jersey:	1,282	14.4	7,738	9.3	6,603,253	2,304	2,793	9.4	2,093,705	748
Pennsylvania:	13,514	6.7	7,692	3.8	9,714,628	1,278	7,980	3.9	1,828,966	229
East North Central:										
Ohio:	30,621	11.9	19,932	7.8	18,762,020	940	21,250	8.3	3,197,047	150
Indiana:	19,212	9.4	14,638	7.1	12,778,040	873	10,019	4.9	1,766,268	176
Illinois:	28,628	12.1	24,737	10.5	47,920,487	1,933	12,303	5.2	3,333,667	271
Michigan:	47,021	23.9	42,104	21.4	24,294,688	577	18,154	9.2	2,445,953	135
Wisconsin:	48,190	25.5	42,848	22.6	28,884,215	674	21,792	11.5	3,562,966	164
West North Central:										
Minnesota:	81,145	45.5	78,314	43.9	82,760,459	1,057	29,611	16.6	6,642,162	224
Iowa:	51,630	24.2	46,330	20.3	56,403,626	1,370	32,530	15.2	6,760,952	208
Missouri:	25,496	9.7	17,748	6.7	13,474,992	739	17,934	6.8	2,964,114	165
North Dakota:	19,814	25.5	17,438	22.4	24,484,553	1,404	12,579	16.2	3,840,811	305

South Dakota	22,517	30.2	20,241	27.1	31,651,214	1,364	13,754	18.4	3,583,771	261
Nebraska	40,333	32.4	32,513	26.2	44,735,110	1,375	27,693	18.4	9,090,107	353
Kansas	43,188	26.1	33,654	20.4	44,280,957	1,316	32,321	19.6	9,603,051	299
South Atlantic:										
Delaware	610	6.0	545	5.4	218,024	368	275	2.7	20,354	107
Maryland	2,177	4.5	1,865	3.9	3,680,200	1,653	637	1.3	275,420	428
Virginia	7,537	4.0	3,849	2.1	10,186,002	2,436	5,301	2.8	1,205,939	234
West Virginia	2,565	2.9	625	2.7	10,284,156	435	2,303	2.5	218,249	99
North Carolina	3,524	1.3	850	2.3	633,257	780	2,073	1.1	427,112	142
South Carolina	338	1.3	203	2.0	951,959	4,739	5,186	1.1	126,100	678
Georgia	586	2.2	210	1.1	890,035	4,241	411	1.1	63,466	139
Florida	1,433	2.7	1,367	2.5	4,316,379	3,180	381	1.7	263,069	706
East South Central:										
Kentucky	4,513	1.7	3,498	1.3	2,430,792	695	2,344	0.9	381,406	163
Tennessee	2,121	1.8	1,255	1.5	607,471	484	1,174	0.5	133,270	114
Alabama	2,825	1.1	2,678	1.0	837,458	313	1,422	0.2	72,287	171
Mississippi	5,999	2.2	5,274	1.9	1,395,015	295	1,345	0.5	175,091	131
West South Central:										
Arkansas	3,134	1.4	2,887	1.2	4,726,491	1,638	1,072	0.5	173,722	162
Louisiana	4,229	3.2	4,284	3.2	9,715,844	2,298	1,591	1.2	899,389	516
Oklahoma	7,718	4.0	5,980	3.1	8,055,081	1,347	4,900	2.6	1,106,270	226
Texas	3,561	0.8	2,486	0.6	4,437,035	1,785	1,769	0.4	633,933	370
Mountain:										
Montana	3,894	6.6	1,948	3.4	1,538,303	790	2,926	5.1	871,192	298
Idaho	3,749	8.9	2,396	5.5	3,799,358	1,455	2,633	6.3	637,952	248
Wyoming	7,737	4.7	3,700	2.3	646,748	1,748	611	3.9	137,403	225
Colorado	7,789	13.0	5,847	9.8	9,303,346	1,591	5,613	9.4	1,638,358	295
New Mexico	1,537	4.2	973	3.3	1,017,105	1,674	574	1.9	220,026	383
Arizona	2,254	2.2	180	1.8	394,308	2,192	121	1.2	41,170	340
Utah	2,141	8.4	1,127	4.4	1,105,523	2,981	1,377	5.4	188,112	133
Nevada	2	1.1	2	1.1	8,300	4,130				
Pacific:										
Washington	7,457	11.2	5,583	8.4	15,356,226	2,751	5,355	8.1	2,710,262	506
Oregon	4,812	9.0	3,713	7.7	7,706,024	2,015	2,315	5.0	990,166	394
California	26,415	22.4	23,772	21.9	137,960,581	4,966	5,792	4.9	4,321,129	716

TABLE 6.—*Farms reporting sales and purchases through cooperative associations, by States, 1919*

[Data from Agricultural Census, 1919]

Farms reporting sales and purchases				Amount of sales and purchases				Average amount per farm		
State and rank	Number of farms	Per cent	Cumulative per cent	State and rank	Amount	Per cent	Cumulative per cent	State and rank	Amount	
1. Minnesota.....	81,145	12.99	12.99	1. California.....	\$122,312,110	16.40	16.40	1. California.....	\$85,000	
2. Iowa.....	51,630	8.27	21.26	2. Minnesota.....	89,402,621	11.08	27.48	2. Nebraska.....	4,150	
3. Wisconsin.....	48,190	7.72	28.98	3. Nebraska.....	66,164,578	8.20	35.68	3. Florida.....	3,221	
4. Michigan.....	47,021	7.53	36.51	4. Nebraska.....	54,415,247	6.75	42.43	4. South Carolina.....	3,219	
5. Kansas.....	43,188	6.92	43.43	5. Kansas.....	53,954,008	6.69	49.12	5. Louisiana.....	2,445	
6. Nebraska.....	40,333	6.46	49.89	6. Illinois.....	51,254,154	6.35	55.47	6. Washington.....	2,423	
7. Ohio.....	30,621	4.90	54.79	7. New York.....	47,177,223	5.85	61.32	7. New Jersey.....	2,031	
8. Illinois.....	28,628	4.58	59.37	8. North Dakota.....	35,232,015	4.37	65.69	8. Arizona.....	1,945	
9. New York.....	27,283	4.37	63.74	9. Wisconsin.....	32,447,211	4.02	69.71	9. Oregon.....	1,804	
10. California.....	26,415	4.23	67.97	10. North Dakota.....	28,325,369	3.51	73.22	10. Illinois.....	1,790	
11. Missouri.....	25,496	4.08	72.05	11. Michigan.....	26,740,641	3.32	76.54	11. Rhode Island.....	1,742	
12. South Dakota.....	22,517	3.61	75.66	12. Ohio.....	21,959,067	2.72	79.26	12. New York.....	1,729	
13. North Dakota.....	19,814	3.17	78.83	13. Washington.....	18,066,428	2.24	81.50	13. Georgia.....	1,631	
14. Indiana.....	19,212	3.08	81.91	14. Missouri.....	16,435,706	2.04	83.54	14. South Dakota.....	1,565	
15. Pennsylvania.....	13,514	2.16	84.07	15. Pennsylvania.....	14,544,308	1.80	85.34	15. Kansas.....	1,544	
16. Colorado.....	7,789	1.25	85.32	16. Pennsylvania.....	11,543,594	1.43	86.77	16. Maryland.....	1,539	
17. Oklahoma.....	7,718	1.24	86.56	17. Virginia.....	11,391,751	1.41	88.18	17. Virginia.....	1,531	
18. Virginia.....	7,457	1.19	87.77	18. Colorado.....	10,961,704	1.36	89.54	18. North Dakota.....	1,490	
19. Washington.....	7,457	1.21	88.98	19. Louisiana.....	9,385,353	1.31	90.84	19. Kansas.....	1,438	
20. Mississippi.....	5,869	0.98	89.97	20. Oklahoma.....	9,376,700	1.24	92.07	20. Massachusetts.....	1,417	
21. Oregon.....	4,843	0.73	90.70	21. Oregon.....	8,736,958	1.08	93.07	21. Colorado.....	1,407	
22. Kentucky.....	4,543	0.69	91.39	22. New Jersey.....	5,000,958	0.63	93.70	22. Connecticut.....	1,349	
23. Louisiana.....	4,320	0.69	92.08	23. Texas.....	4,900,213	0.61	94.31	23. Nebraska.....	1,282	
24. New Jersey.....	4,282	0.69	92.77	24. Arkansas.....	4,615,388	0.57	94.88	24. Iowa.....	1,249	
25. Maine.....	4,062	0.65	93.42	25. Florida.....	4,057,550	0.50	95.38	25. Kansas.....	1,187	
26. Montana.....	3,804	0.61	94.03	26. Idaho.....	3,361,620	0.42	95.80	26. Minnesota.....	1,102	
27. Idaho.....	3,749	0.60	94.63	27. Maryland.....	2,919,417	0.36	96.16	27. Oklahoma.....	1,082	
28. Texas.....	3,564	0.57	95.24	28. Maine.....	2,812,198	0.35	96.51	28. Idaho.....	1,064	
29. North Carolina.....	3,524	0.56	95.80	29. Kentucky.....	2,490,495	0.30	96.81	29. Wyoming.....	1,016	
30. Arkansas.....	3,144	0.50	96.30	30. Montana.....	2,192,646	0.27	97.08	30. New Mexico.....	854	
31. Alabama.....	2,825	0.45	96.75	31. Massachusetts.....	1,959,694	0.24	97.32	31. Pennsylvania.....	757	
32. West Virginia.....	2,825	0.45	97.20	32. Vermont.....	1,571,131	0.20	97.52	32. Vermont.....	757	
33. Vermont.....	2,513	0.40	97.60	33. Mississippi.....	1,288,635	0.16	97.68	33. Indiana.....	717	
34. Maryland.....	2,177	0.35	97.95	34. Utah.....	1,267,131	0.16	97.84	34. Maine.....	673	
35. Utah.....	2,145	0.34	98.29	35. New Mexico.....	1,261,632	0.16	98.00	35. Ohio.....	673	
36. Tennessee.....	2,121	0.34	98.63	36. Connecticut.....	1,083,369	0.14	98.14	36. Wisconsin.....	645	
37. Massachusetts.....	1,547	0.25	98.88	37. North Carolina.....	1,083,369	0.14	98.28	37. Missouri.....	645	
38. Florida.....	1,463	0.23	99.11	38. Georgia.....	956,051	0.12	98.40	38. Montana.....	619	
39. New Mexico.....	1,247	0.20	99.31	39. Georgia.....	956,051	0.12	98.52	39. Kentucky.....	619	

40. New Hampshire	1,027	99.43	40. Alabama	909,785	11	99.59	40. Utah	601
41. Connecticut	935	99.58	41. Wyoming	784,151	10	99.69	41. Michigan	569
42. Wyoming	737	99.58	42. Tennessee	740,941	9	99.78	42. Delaware	406
43. Delaware	670	99.60	43. West Virginia	502,369	9	99.84	43. New Hampshire	357
44. Georgia	586	99.80	44. Arizona	435,678	9	99.89	44. Tennessee	349
45. South Carolina	328	99.94	45. New Hampshire	406,486	9	99.94	45. Alabama	322
46. Arizona	224	99.98	46. Rhode Island	252,942	9	99.97	46. North Carolina	308
47. Rhode Island	145	100.00	47. Delaware	247,948	9	100.00	47. Mississippi	262
48. Nevada	2	1.00	48. Nevada	8,300	1.00	100.00	48. West Virginia	196
United States	624,527	100.00	United States	806,599,308	100.00			

1 Less than .01 per cent.

TABLE 7.—Number and per cent of associations, by kinds and geographic divisions, March, 1924

Geographic division	Cotton		Dairy products		Forage crops		Fruits and vegetables		Grain		Livestock		Nuts		Poultry		Tobacco		Wool		Miscellaneous selling		Miscellaneous buying		Total			
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent		
New England			80	4.1	2	10.0	42	3.4	3	1.2	2	1.1			1	1.8	4	16.0	4	3.5	30	4.2	66	15.4	256	2.6		
Middle Atlantic			137	7.0			109	8.9	7	2.7	4	2.2				3	6.24.0	4	3.5	37	4.2	151	35.1	531	5.2			
East North Central	3	2.8	710	36.1	1	5.0	119	9.7	852	27.3	519	34.4			5	8.9	6	24.0	14	12.2	182	25.7	74	17.2	2,620	25.8		
West North Central			852	43.3			153	12.4	1,953	62.3	953	59.6			7	12.5			23	20.0	185	26.1	40	10.5	4,579	45.1		
South Atlantic	24	22.4	23	1.2	2	10.0	134	10.9	5	1.7	17	1.1			3	5.4			12	10.4	52	7.3	31	4.3	363	3.6		
East South Central	18	16.8	31	1.6	2	10.0	89	7.2	1	0.1	33	2.1			10	17.9			8	7.0	73	10.3	14	2.0	13	3.0		
West South Central	60	56.1	10	0.5	2	10.0	180	14.6	113	3.6	7	4.4			5	9.9			9	7.8	63	7.8	38	5.3	298	2.9		
Mountain			34	1.7	4	20.0	84	6.8	135	4.3	27	1.7			10	17.8			3	2.6	53	7.8	10	2.3	492	4.9		
Pacific	2	1.9	89	4.5	7	35.0	322	26.1	65	2.1	6	4.4			6	10.7			9	7.8	47	6.6	29	4.0	387	3.8		
United States	107	100.0	1,966	100.0	20	100.0	1,252	100.0	3,134	100.0	1,538	100.0	51	100.0	56	100.0	25	100.0	115	100.0	709	100.0	717	100.0	430	100.0	10,160	100.0

1 Less than one-tenth of 1 per cent.

TABLE 8.—Farmers' business organizations, by kinds and States, March, 1924

State and geographic division	Cotton and cotton products	Dairy products	Forage crops	Fruits and vegetables	Grain	Live stock	Nuts	Poultry and poultry products	Tobacco	Wool	Miscellaneous selling	Merchandise (farmers' stores)	Miscellaneous buying	Total, reporting
Maine.....		8		32	1					2	12	21	8	84
New Hampshire.....		4			1					1	2	2	6	16
Vermont.....		42		1		1					11		5	60
Massachusetts.....		16		7	1					1			16	47
Rhode Island.....		2									1	1	3	7
Connecticut.....		8		2		1		1	2				28	42
New England.....		80		42	3	2		1	4	4	30	24	66	256
New York.....		78	2	89	3	2		2	1	31	20	8	41	277
New Jersey.....		59		7							3	2	10	92
Pennsylvania.....				13	4	2		1	5	6	34	8	100	232
Middle Atlantic.....		137	2	109	7	4		3	6	37	57	18	151	531
Ohio.....		41		16	196	74					16	11	16	380
Indiana.....		23		8	126	95		1	3	7	11	12	19	301
Illinois.....		19		17	397	154		2		6	11	19	8	640
Michigan.....		89		55	83	1		1		1	20	22	18	420
Wisconsin.....		538		23	50	144		1	3		58	49	13	879
East North Central.....		710		119	852	549		5	6	14	182	109	74	2,020
Minnesota.....		548		78	268	300		3		12	26	86	9	1,330
Iowa.....		228		5	345	334		2		6	17	84	18	1,039
Missouri.....	3	13	1	29	153	107		1		1	125	35	7	475
North Dakota.....		17		24	326	64				1	4	22	4	459
South Dakota.....		28		10	215	93				1	3	23	3	376
Nebraska.....		12		3	337	30		1			6	86	3	477
Kansas.....		6		3	309	25				2	4	68	4	423
West North Central.....	3	862	1	153	1,953	953		7		23	185	404	45	4,579
Delaware.....		1		2							3			5
Maryland.....		2		4	2				1		2		5	17
District of Columbia.....		1												1
Virginia.....		11	1	10	1	14	1	1		2	11	17	22	91
West Virginia.....				7		1		1		10	5	5	7	31
North Carolina.....	6	6		12	2				2			8	8	53
South Carolina.....	4		1	9							1		1	16

	14	1	1	8	1	4	1	3	17	3	2	51
Georgia.....		1		82					4		1	92
Florida.....												
South Atlantic.....												
Kentucky.....	24	23	2	134	5	17	5	31	52	31	51	363
Tennessee.....	3	18	6	6		10			8	11	7	58
Alabama.....	12	4	1	42	1	13			23	3	1	115
Mississippi.....	3	3		25		10	1		10		5	75
East South Central.....				16					26			50
Arkansas.....	18	31	2	39	1	53	2	10	73	14	13	298
Louisiana.....	8			90	2	1		2	7	11	3	125
Oklahoma.....	1	2		24	5	1			5	1	1	39
Texas.....	43	7	* 2	12	89	2	2	8	12	16	2	144
West South Central.....				54	17	4			31	10	4	184
Montana.....	60	10	2	180	113	7	3	10	55	38	10	462
Idaho.....		5		6	60	13			7	10	3	106
Wyoming.....		9	1	20	13				9	6	2	61
Colorado.....		1		3	8				3	2	1	19
New Mexico.....		8		38	42	10			7	6		114
Arizona.....		1	2	7					5			18
Utah.....	2	1	1	5	1	1		1	8	1	2	23
Nevada.....		9		10	3	1		5	7	4	2	42
Mountain.....				1		2			1			4
Washington.....	2	34	4	84	135	27		6	47	29	10	387
Oregon.....		24		50	42			2	7	39	4	169
California.....		42	1	26	9	2	1	1	9	4	2	99
Pacific.....		23	6	246	14	4	40	8	12	7	4	366
United States.....	107	1,966	20	1,262	3,134	1,598	51	56	709	717	430	10,100

TABLE 9.—*Associations in leading States, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Minnesota.....	1,330	13.1	13.1	13. Indiana.....	301	3.0	74.5
2. Iowa.....	1,039	10.2	23.3	14. New York.....	277	2.7	77.2
3. Wisconsin.....	879	8.7	32.0	15. Pennsylvania.....	232	2.3	79.5
4. Illinois.....	640	6.3	38.3	16. Texas.....	184	1.8	81.3
5. Nebraska.....	477	4.7	43.0	17. Washington.....	169	1.7	83.0
6. Missouri.....	475	4.7	47.7	18. Oklahoma.....	144	1.4	84.4
7. North Dakota.....	459	4.5	52.2	19. Arkansas.....	125	1.2	85.6
8. Kansas.....	423	4.2	56.4	20. Tennessee.....	115	1.1	86.7
9. Michigan.....	420	4.1	60.5	All others.....	1,349	13.3	100.0
10. Ohio.....	380	3.7	64.2				
11. South Dakota.....	376	3.7	67.9	United States.....	10,160	100.0	-----
12. California.....	366	3.6	71.5				

TABLE 10.—*Grain marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Illinois.....	397	12.7	12.7	9. Missouri.....	153	4.9	81.3
2. Iowa.....	345	11.0	23.7	10. Indiana.....	126	4.0	85.3
3. Nebraska.....	337	10.7	34.4	11. Oklahoma.....	89	2.8	88.1
4. North Dakota.....	326	10.4	44.8	12. Michigan.....	83	2.6	90.7
5. Kansas.....	309	9.9	54.7	All others.....	290	9.3	100.0
6. Minnesota.....	268	8.5	63.2				
7. South Dakota.....	215	6.9	70.1	United States.....	3,134	100.0	-----
8. Ohio.....	196	6.3	76.4				

TABLE 11.—*Dairy marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Minnesota.....	548	27.9	27.9	8. Oregon.....	42	2.1	82.6
2. Wisconsin.....	538	27.4	55.3	9. Ohio.....	41	2.1	84.7
3. Iowa.....	228	11.6	66.9	10. South Dakota.....	28	1.4	86.1
4. Michigan.....	89	4.5	71.4	All others.....	273	13.9	100.0
5. New York.....	78	4.0	75.4				
6. Pennsylvania.....	59	3.0	78.4	United States.....	1,966	100.0	-----
7. Vermont.....	42	2.1	80.5				

TABLE 12.—*Fruit and vegetable marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. California.....	246	20.0	20.0	8. Washington.....	50	4.1	60.4
2. Arkansas.....	90	7.3	27.3	9. Tennessee.....	42	3.4	63.8
3. New York.....	89	7.2	34.5	10. Colorado.....	38	3.1	66.9
4. Florida.....	82	6.6	41.1	All others.....	408	33.1	100.0
5. Minnesota.....	78	6.3	47.4				
6. Michigan.....	55	4.5	51.9	United States.....	1,232	100.0	-----
7. Texas.....	54	4.4	56.3				

TABLE 13.—*Livestock marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Iowa.....	334	20.9	20.9	8. Michigan.....	82	5.1	81.9
2. Minnesota.....	300	18.8	39.7	9. Ohio.....	74	4.6	86.5
3. Illinois.....	154	9.6	49.3	10. North Dakota.....	64	4.0	90.5
4. Wisconsin.....	144	9.0	58.3	All others.....	151	9.5	100.0
5. Missouri.....	107	6.7	65.0				
6. Indiana.....	95	6.0	71.0	United States.....	1,598	100.0	-----
7. South Dakota.....	93	5.8	76.8				

TABLE 14.—*Cotton marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Texas.....	43	40.2	40.2	8. Mississippi.....	3	2.8	91.6
2. Georgia.....	14	13.1	53.3	9. Missouri.....	3	2.8	94.4
3. Alabama.....	12	11.2	64.5	10. Tennessee.....	3	2.8	97.2
4. Arkansas.....	8	7.5	72.0	11. Arizona.....	2	1.9	99.1
5. Oklahoma.....	8	7.5	79.5	12. Louisiana.....	1	.9	100.0
6. North Carolina.....	6	5.6	85.1				
7. South Carolina.....	4	3.7	88.8	United States.....	107	100.0	

TABLE 15.—*Wool marketing associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. New York.....	31	27.0	27.0	7. Pennsylvania.....	6	5.2	67.8
2. Minnesota.....	12	10.4	37.4	8. Tennessee.....	5	4.4	72.2
3. West Virginia.....	10	8.7	46.1	All others.....	32	27.8	100.0
4. Ohio.....	7	6.1	52.2				
5. Indiana.....	6	5.2	57.4	United States.....	115	100.0	
6. Iowa.....	6	5.2	62.6				

TABLE 16.—*Miscellaneous selling associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Missouri.....	125	17.6	17.6	8. Tennessee.....	23	3.2	56.5
2. Michigan.....	77	10.9	28.5	9. Illinois.....	20	2.8	59.3
3. Wisconsin.....	58	8.2	36.7	10. New York.....	20	2.8	62.1
4. Pennsylvania.....	34	4.8	41.5	All others.....	269	37.9	100.0
5. Texas.....	31	4.4	45.9				
6. Minnesota.....	26	3.7	49.6	United States.....	709	100.0	
7. Mississippi.....	26	3.7	53.3				

TABLE 17.—*Associations engaged in retailing, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Minnesota.....	86	12.0	12.0	8. South Dakota.....	23	3.2	65.5
2. Nebraska.....	86	12.0	24.0	9. North Dakota.....	22	3.1	68.6
3. Iowa.....	84	11.7	35.7	10. Illinois.....	22	3.1	71.7
4. Kansas.....	68	9.5	45.2	All others.....	203	28.3	100.0
5. Wisconsin.....	49	6.8	52.0				
6. Washington.....	39	5.4	57.4	United States.....	717	100.0	
7. Missouri.....	35	4.9	62.3				

TABLE 18.—*Collective buying associations, March, 1924*

State and rank	Number	Per cent	Cumulative per cent	State and rank	Number	Per cent	Cumulative per cent
1. Pennsylvania.....	100	23.3	23.3	8. Massachusetts.....	16	3.7	61.0
2. New York.....	41	9.6	32.9	9. Ohio.....	16	3.7	64.7
3. Connecticut.....	28	6.5	39.4	10. Wisconsin.....	13	3.0	67.7
4. Virginia.....	22	5.1	44.5	All others.....	139	32.3	100.0
5. Indiana.....	19	4.4	48.9				
6. Iowa.....	18	4.2	53.1	United States.....	430	100.0	
7. Michigan.....	18	4.2	57.3				

TABLE 19.—Associations, by organization characteristics and States, March, 1924

State and geographic division	Incorporation			Capital stock				Stock dividends				All members producers				Patronage dividends				
	Number reporting	Incorporated	Not incorporated	Per cent incorpo- rated	Number reporting	With capital stock	Without capital stock	Per cent with cap- ital stock	Number reporting	Paying stock divi- dends	Not paying stock- dividends	Per cent paying stock dividends	Number reporting	All producers	Not all producers	Per cent with mem- bers all producers	Number reporting	Paying patronage dividends	Not paying patron- age dividends	Per cent paying pat- ronage dividends
Maine.....	80	78	2	97.5	81	71	10	87.7	77	43	34	55.8	80	50	30	62.5	75	51	24	68.0
New Hampshire.....	15	11	4	73.3	16	11	5	68.8	15	9	6	60.0	16	8	8	50.0	13	8	5	61.5
Vermont.....	59	56	3	94.9	59	56	3	94.9	53	39	14	73.6	59	26	33	44.1	57	49	8	86.0
Massachusetts.....	44	36	8	81.8	46	29	17	63.0	39	22	17	56.4	40	25	15	62.5	37	29	8	78.4
Rhode Island.....	6	6	-----	100.0	7	7	-----	100.0	6	5	2	83.3	7	3	4	42.9	5	5	-----	100.0
Connecticut.....	41	37	4	90.2	41	33	8	80.5	39	19	20	48.7	38	25	13	65.8	37	23	14	62.2
New England.....	245	224	21	91.4	250	207	43	82.8	229	137	92	59.8	240	137	103	57.1	224	165	59	73.7
New York.....	249	225	24	90.4	260	83	177	31.9	236	59	177	25.0	259	207	52	73.9	219	152	67	69.4
New Jersey.....	20	18	2	90.0	21	9	12	42.9	18	10	8	53.6	19	12	7	63.2	17	11	6	64.7
Pennsylvania.....	218	151	67	69.3	225	86	139	38.2	204	56	148	27.5	214	139	75	65.0	187	88	99	47.1
Middle Atlantic.....	487	394	93	80.9	506	178	328	35.2	458	125	333	27.3	492	338	131	72.8	423	251	172	59.3
Ohio.....	366	311	55	85.0	369	301	68	81.6	350	206	144	58.9	365	220	145	60.3	341	221	120	64.8
Indiana.....	297	209	88	70.4	292	174	118	59.6	274	138	136	50.4	288	202	86	70.1	251	159	92	63.3
Illinois.....	615	494	121	80.3	630	447	183	71.0	577	360	217	62.4	618	348	270	66.3	541	242	299	44.7
Michigan.....	405	372	33	91.9	402	201	50.0	376	138	238	36.7	411	233	118	71.3	364	246	118	67.6	
Wisconsin.....	828	681	147	82.2	857	679	178	79.2	825	460	365	55.8	835	454	381	54.4	763	381	382	49.9
East North Central.....	2,511	2,067	444	82.3	2,550	1,802	748	70.7	2,402	1,302	1,100	54.2	2,517	1,517	1,000	60.3	2,249	1,249	1,011	55.3
Minnesota.....	1,241	975	266	78.6	1,304	951	353	72.9	1,216	644	572	53.0	1,280	744	536	58.1	1,156	749	407	64.8
Iowa.....	1,006	839	167	83.4	1,020	681	339	66.8	936	476	460	50.9	1,001	554	447	55.4	884	459	435	51.3
Missouri.....	455	319	136	70.1	459	321	138	69.9	405	264	141	65.2	442	342	100	77.4	388	279	109	71.9
North Dakota.....	454	384	70	84.6	451	377	81	82.0	434	328	106	75.6	446	317	129	71.1	388	328	107	75.4
South Dakota.....	373	293	80	78.6	371	270	74.7	349	238	111	68.2	368	213	155	57.9	350	270	80	77.1	
Nebraska.....	455	428	27	94.1	473	444	93.9	446	375	91	80.5	469	294	175	62.7	430	327	123	72.7	
Kansas.....	414	379	35	91.5	416	382	34	91.8	396	319	77	80.6	411	273	138	66.4	406	326	80	80.3
West North Central.....	4,398	3,617	781	82.2	4,404	3,426	1,068	76.2	4,202	2,544	1,558	62.9	4,417	2,737	1,680	62.0	4,079	2,738	1,341	67.1

Delaware.....	11	8	3	72.7	11	5	6	45.5	9	3	6	33.3	9	0	3	66.7	9	2	7	22.2
Maryland.....	18	15	3	83.3	16	9	7	56.2	17	10	7	38.8	17	13	4	76.5	17	8	9	47.7
District of Columbia.....	1			100.0	1				1							100.0				
Virginia.....	89	46	40	55.1	89	45	44	50.6	85	37	48	43.5	87	66	21	75.9	76	31	45	40.8
West Virginia.....	20	7	22	24.1	20	31	23	13.8	27	19	23	3.7	28	25	12	57.1	26	8	18	30.8
North Carolina.....	53	36	17	67.9	52	41	31	53.6	49	27	22	53.1	41	35	14	71.4	41	26	18	59.1
South Carolina.....	15	12	3	80.0	12	3	9	40.3	6	6	9	40.0	16	9	7	56.2	15	9	6	60.0
Georgia.....	49	23	16	67.3	47	10	22	53.2	43	19	24	44.2	48	32	16	60.7	41	24	17	58.5
Florida.....	70	53	17	73.7	67	15	68	18.1	72	13	59	18.1	83	69	14	83.1	77	62	15	89.5
South Atlantic.....	335	214	121	63.9	343	114	199	42.9	318	116	292	36.5	338	217	91	73.1	306	170	136	55.6
Kentucky.....	57	35	22	61.4	57	22	35	38.6	51	15	36	29.4	53	43	8	81.9	42	28	14	66.7
Tennessee.....	113	43	70	38.1	114	27	87	23.6	100	15	85	15.0	106	82	24	77.4	91	67	21	73.6
Alabama.....	72	35	37	48.6	72	17	35	23.6	65	10	35	15.1	83	57	11	83.8	51	32	22	59.3
Mississippi.....	47	19	28	40.4	49	12	37	24.5	41	5	36	12.2	47	38	9	80.9	43	25	18	58.1
East South Central.....	289	132	157	45.7	292	78	214	26.7	237	45	212	17.5	274	222	52	81.0	230	152	78	66.1
Arkansas.....	116	58	58	50.0	117	35	82	29.9	104	19	85	18.3	119	100	19	84.0	93	70	23	75.3
Louisiana.....	34	22	12	61.7	36	13	23	36.1	31	12	19	38.7	36	31	2	93.4	31	25	6	80.6
Oklahoma.....	142	129	13	90.8	144	122	22	81.7	135	98	37	72.6	140	86	54	61.4	131	107	24	81.7
Texas.....	164	117	47	71.3	173	89	84	51.1	159	70	89	41.0	180	137	43	76.1	150	91	56	62.2
West South Central.....	456	336	130	71.5	470	239	211	55.1	429	199	230	46.4	475	357	118	75.2	405	296	109	73.1
Montana.....	99	92	7	92.9	105	87	18	82.9	98	70	28	71.4	104	75	29	72.1	99	68	31	68.7
Wyoming.....	58	49	9	81.5	60	39	21	65.0	52	27	25	51.9	58	35	23	60.3	50	33	17	66.0
Colorado.....	20	12	8	60.0	19	9	10	47.4	17	8	9	47.1	19	11	8	57.9	15	7	8	46.7
New Mexico.....	100	89	11	89.0	107	72	35	67.3	95	53	42	55.8	111	77	24	69.4	99	74	25	74.7
Arizona.....	18	14	4	77.8	18	11	7	61.1	16	8	8	50.0	18	11	7	61.1	18	12	6	66.7
Nevada.....	21	14	7	66.7	22	8	14	36.4	22	2	20	9.1	23	17	6	73.9	19	13	6	68.4
Utah.....	34	22	12	64.7	35	21	14	60.0	32	19	13	59.4	33	31	7	81.6	30	15	15	50.0
Nevada.....	3	2	1	66.7	4	1	3	25.0	4		4		4	3	1	75.0	3	2	1	66.7
Mountain.....	353	294	59	83.3	370	218	122	67.0	336	187	149	55.7	375	290	115	69.3	333	221	109	67.3
Washington.....	156	142	14	91.0	158	129	29	81.6	154	81	73	52.6	166	104	62	62.7	141	68	73	48.2
Oregon.....	97	85	12	87.6	96	78	18	81.2	94	50	44	53.2	93	69	29	70.4	91	65	26	71.4
California.....	319	300	19	91.0	338	163	175	48.2	318	66	252	20.8	355	329	35	90.1	315	271	44	86.0
Pacific.....	572	527	45	92.1	592	370	222	62.5	596	197	369	31.8	619	493	136	79.6	517	401	113	73.9
United States.....	9,646	7,795	1,851	80.8	9,867	6,712	3,155	68.0	9,197	4,952	4,245	53.8	9,717	6,328	3,119	61.9	18,807	5,619	3,158	64.1

TABLE 20.—Associations, by kinds and organization characteristics, March, 1924

Selling	Incorporated			Capital stock			Stock dividends			All producers			Patronage dividends		
	Num-ber report-ing	Num-ber incor-porated	Per cent incor-porated	Num-ber report-ing	Num-ber with capital stock	Per cent with capital stock	Num-ber report-ing	Num-ber paying stock dividends	Per cent paying stock dividends	Num-ber report-ing	Num-ber with all producers	Per cent with all producers	Num-ber report-ing	Num-ber paying patronage dividends	Per cent paying patronage dividends
Cotton.....	103	95	92.2	103	78	75.7	97	67	69.1	102	56	54.9	90	38	42.2
Dairy products.....	1,818	1,640	90.2	1,906	1,606	84.3	1,826	980	53.7	1,875	923	49.2	1,730	1,140	65.9
Fruits and vegetables.....	1,067	806	75.5	1,107	462	41.7	985	231	23.5	1,166	1,007	86.4	959	769	80.2
Forage.....	18	15	83.3	20	5	25.0	18	5	27.8	19	19	100.0	17	17	100.0
Grain.....	3,080	3,040	98.7	3,114	3,036	97.5	3,007	2,573	85.6	3,080	1,585	51.5	2,988	1,955	65.7
Livestock.....	1,515	616	40.7	1,545	275	17.8	1,340	141	10.1	1,504	1,349	89.7	1,219	635	52.7
Nuts.....	50	25	50.0	50	12	24.0	48	17	34.0	49	47	95.9	46	33	71.4
Poultry and poultry products.....	95	25	26.3	95	21	22.1	58	17	31.6	54	45	83.3	50	33	64.7
Tobacco.....	112	25	22.3	115	11	9.6	21	5	23.5	21	17	81.0	20	15	75.0
Wool.....	696	538	77.3	697	393	56.4	646	295	45.7	692	545	78.8	619	413	66.7
Miscellaneous selling.....	693	638	92.1	707	677	95.8	683	556	81.4	696	339	48.7	658	396	60.2
Buying merchandise (stores).....	416	234	56.2	424	121	28.5	376	74	19.7	390	305	78.2	323	136	42.1
Miscellaneous buying.....															
Total.....	9,646	7,795	80.8	9,867	6,712	68.0	9,197	4,952	53.8	9,757	6,338	65.0	8,807	5,649	64.1

Distribution of Cooperative Business by Kinds of Associations, 1913, 1915, 1921, 1922

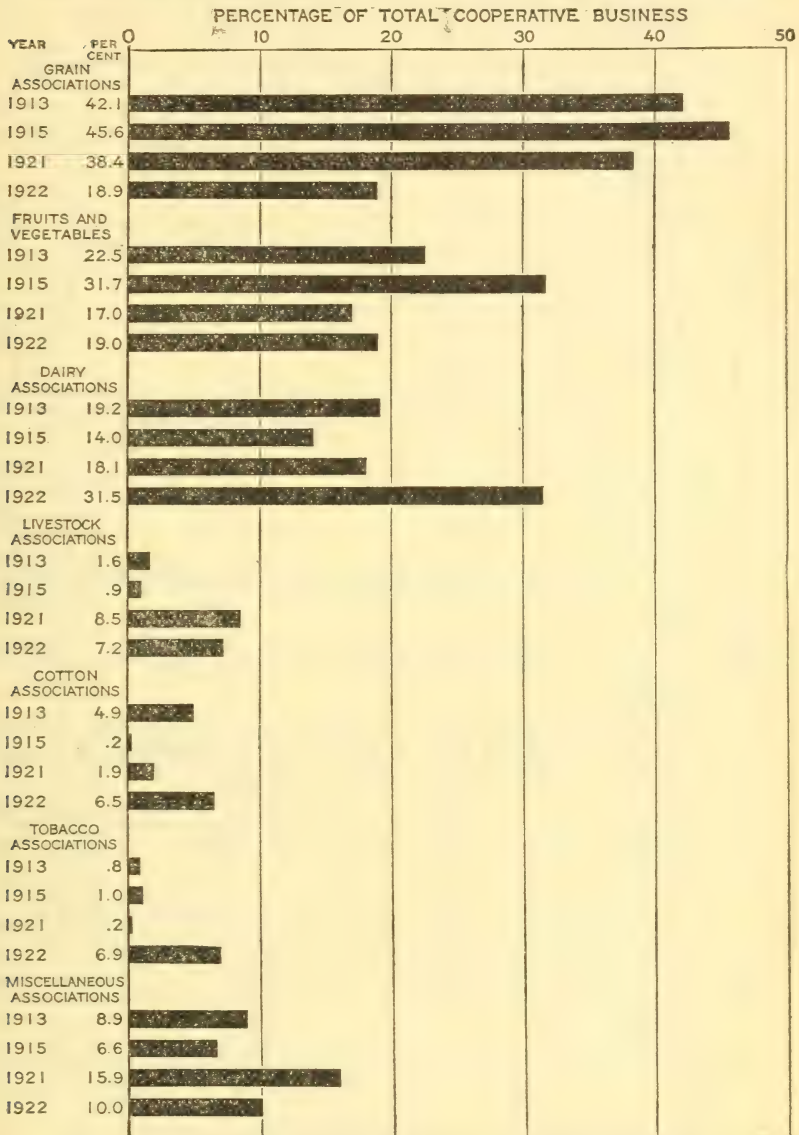


FIG. 20.—Whereas in 1913 over 42 per cent of the total agricultural cooperative business in the United States was transacted by grain-marketing associations, 18.9 per cent was handled by such organizations in 1922. Gains in relative importance were made during the 10-year period by the associations handling dairy products, cotton, and tobacco. (See Table 25.)

TABLE 21.—Associations reporting membership, by kinds and States, March, 1924

State and geographic division	Cotton		Creameries ¹		Fruits and vegetables ¹		Grain		Livestock		Tobacco		Rice	
	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members	Number of associations reporting	Number of members
Maine.....			4	262	5	130	1	94						
New Hampshire.....							1	120						
Vermont.....			32	3,334			1							
Massachusetts.....			5	309	2	396	1	32						
Rhode Island.....			1	50										
Connecticut.....			5	333			1	28			1	3,389		
New England.....			47	4,288	7	535	4	274			1	3,389		
New York.....			20	1,606	62	6,365	2	605			1	280		
New Jersey.....					3	98								
Pennsylvania.....			32	2,237	10	761	3	362						
Middle Atlantic.....			52	3,843	75	7,224	5	967			1	280		
Ohio.....			9	408	10	863	155	24,136	16	5,477				
Indiana.....			7	971	3	107	91	12,887	12	3,206				
Illinois.....			4	324	3	191	328	39,318	43	8,932				
Michigan.....			62	14,599	35	5,148	67	14,716	21	3,427				
Wisconsin.....			197	28,643	6	946	43	7,335	41	6,130	1	6,672		
East North Central.....			279	44,945	57	7,255	684	98,392	133	27,172	1	6,672		
Minnesota.....			472	62,367	35	3,598	204	31,863	123	19,420				
Iowa.....			199	29,026	2	270	232	31,295	135	17,021				
Missouri.....			6	902	16	4,684	19	18,144	24	3,265				
North Dakota.....	1	527	7	936	10	546	231	23,971	9	608				
South Dakota.....			20	7,983	3	484	38	3,474	37	5,692				
Nebraska.....			11	10,689	2	453	247	30,177	7	1,695				
Kansas.....			1	307	3	140	217	26,911	6	1,941				
West North Central.....	1	527	716	112,420	71	9,795	1,418	186,905	338	48,872				
Delaware.....			1	17										
Maryland.....					1	75								
Virginia.....			5	883	3	1,003	2	760			1	4,000		
West Virginia.....					5	6,426								
North Carolina.....	1	31,892	1	31	4	109			1	115	1	90,226		

[illegible]

¹ Data collected in summer of 1923.

TABLE 22.—*Distribution of associations, by membership groups, March, 1924*

Membership group	Grain			Fruit and vegetable ¹			Livestock			Creameries ¹			Cheese factories		
	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent	Number	Per cent	Cumulative per cent
25 or fewer.....	104	4.0	-----	170	25.6	-----	21	3.5	-----	45	3.6	-----	149	42.9	-----
50 or fewer ²	368	14.3	14.3	306	46.0	46.0	98	16.3	16.3	213	17.0	17.0	297	85.6	85.6
51 to 100.....	962	37.4	51.7	137	20.6	66.6	164	27.2	43.5	433	34.4	51.4	33	9.5	95.1
101 to 150.....	575	22.3	74.0	92	13.8	80.4	116	19.2	62.7	243	19.3	70.7	9	2.6	97.7
151 to 200.....	301	11.7	85.7	38	5.7	86.1	88	14.6	77.3	143	11.4	82.1	1	.3	98.0
201 to 250.....	160	6.2	91.9	18	2.7	88.8	50	8.3	85.6	73	5.8	87.9	3	.9	98.9
251 to 300.....	85	3.3	95.2	19	2.9	91.7	35	5.8	91.4	39	3.1	91.0	0	-----	98.9
301 to 350.....	44	1.7	96.9	8	1.2	92.9	12	2.0	93.4	30	2.4	93.4	0	-----	98.9
351 to 400.....	29	1.1	98.0	6	.9	93.8	14	2.3	95.7	23	1.8	95.2	1	.3	99.2
401 to 450.....	11	.4	98.4	5	.8	94.6	3	.5	96.2	7	.6	95.8	0	-----	99.2
451 to 500.....	7	.3	98.7	8	1.2	95.8	6	1.0	97.2	11	.9	96.7	0	-----	99.2
Over 500.....	34	1.3	100.0	28	4.2	100.0	17	2.8	100.0	42	3.3	100.0	3	.8	100.0
Total.....	2,576	100.0	-----	665	100.0	-----	603	100.0	-----	1,257	100.0	-----	347	100.0	-----

¹ Data collected in summer of 1923.² Includes 25 or fewer.

Average Amount of Business per Association, 1913 and 1922

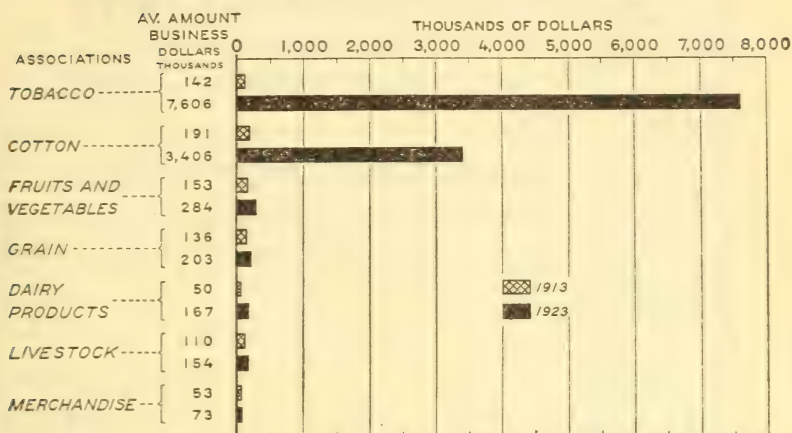


FIG. 21.—In 1913 the average amount of business per association for the 3,099 associations reporting was \$100,000 and in 1922 the average amount for the 4,103 associations reporting was \$215,000. While the averages for the tobacco and cotton associations increased greatly, the average for the other groups of associations also increased. (See Table 28.)

Years of Organization for Associations Active March, 1924

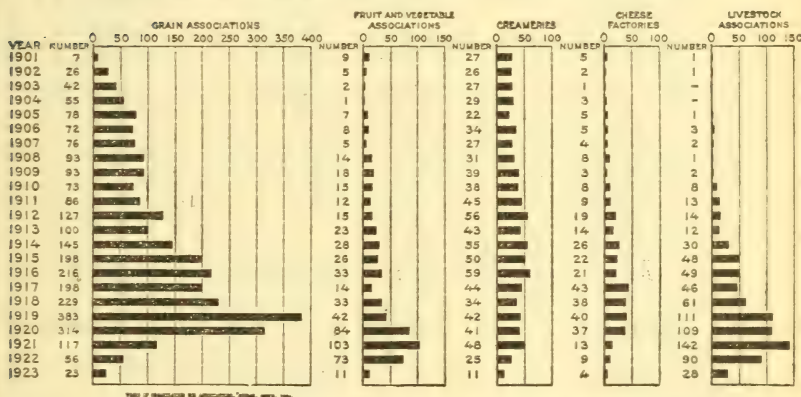


FIG. 22.—Reports regarding year of organization have been received from 5,352 associations now active. A larger number of the grain associations were formed in 1919 than in any other year. The banner year for fruit and vegetable associations was 1921, for creameries 1916, for cheese factories 1917, and for livestock-shipping associations 1921. (See Table 29.)

[illegible]

TABLE 24.—Associations reporting amount of business, by States, 1912-1917, 1921-22

State and geographic division	1912 ¹				1913				1914 ¹				1915				1916				1917				1921				1922			
	Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount		Number of associa-	Average (in thou-	Amount	
Maine.....	5	\$203,000	\$41		26	\$3,118,482	\$120		31	\$3,847,191	\$124		2	\$34	\$17		4	\$153	\$38		5	\$3,745	\$749		67	\$11	\$130		25	\$6,443	\$258	
New Hampshire.....	14	564,940	40		15	688,472	46		5	252,221	24		6	450	75		5	516	103		5	354	71		11	44	1,049		6	712	119	
Vermont.....	3	1,019,470	340		18	1,921,600	107		17	811,223	48		2	25	12		1	78	78		2	334	167		36	7	6,149		4	6,340	144	
Massachusetts.....	4	161,900	40		2	101,630	51		1	34,000	34		1	39	38		4	64	16		6	115	19		31	7	1,038		18	4,093	227	
Rhode Island.....					13	613,100	47		10	499,611	50																		4	697	174	
Connecticut.....					79	6,564,442	83		69	5,565,392	81		11	548	50		14	811	58		18	4,548	253		196	23,952	122		11	9,420	856	
New England.....					71	11,579,997	163		71	5,241,364	74		7	527	75		12	1,483	124		8	1,345	168		180	79,633	442		136	98,655	725	
New York.....	2	1,403,000	702		8	2,155,174	269		8	2,009,260	251		2	2,002	1,000		7	1,069	109		3	4,116	1,372		15	4,917	328		7	3,593	513	
New Jersey.....	13	989,252	76		36	1,484,912	41		43	1,266,186	29		4	323	81		7	256	37		4	507	127		141	9,763	69		80	8,537	107	
Pennsylvania.....					115	15,220,083	132		122	8,516,810	70		13	2,852	219		20	1,874	92		15	5,998	398		336	94,313	281		223	110,785	497	
Middle Atlantic.....					61	3,976,506	65		56	5,002,920	89		6	624	104		17	2,348	140		22	4,568	208		298	39,248	146		113	20,431	181	
Ohio.....	11	502,332	46		40	3,438,102	70		40	2,052,071	47		5	355	71		9	919	102		10	1,498	143		102	20,859	109		79	7,549	96	
Indiana.....	16	1,437,003	91		174	25,696,351	148		161	23,870,199	148		17	2,739	161		44	8,385	191		41	11,153	272		442	70,328	159		188	29,433	157	
Illinois.....	27	4,301,784	159		82	5,076,987	62		75	5,876,636	78		14	1,092	78		22	2,556	116		23	3,857	168		339	39,083	115		197	26,124	133	
Michigan.....	14	645,600	46		275	12,836,553	47		218	10,768,704	49		54	3,148	58		88	6,431	73		60	6,385	106		710	58,298	82		604	52,448	87	
Wisconsin.....	91	4,148,277	46		641	51,024,499	80		554	47,570,530	86		96	7,958	83		180	20,665	115		156	27,371	175		1,951	227,786	117		1,181	135,985	115	
East North Central.....					648	40,125,895	62		529	32,345,315	61		115	7,724	67		189	15,282	81		131	40,994	313		1,048	138,936	133		769	74,678	97	
Minnesota.....	208	11,507,739	55		371	38,420,808	104		261	24,679,403	95		7	70	7,056		117	14,649	125		96	18,518	193		1,077	97,678	127		421	51,389	122	
Iowa.....	141	15,919,199	113		45	2,023,420	45		51	2,406,767	47		7	320	46		6	11	1,788		333	96,612	209		323	96,612	209		154	00,705	394	
Missouri.....	4	201,830	50		162	20,122,034	124		145	16,908,068	117		32	6,774	212		83	12,383	149		97	15,784	157		329	36,621	111		91	9,317	102	
North Dakota.....	76	11,172,899	147		108	10,855,836	101		112	12,813,129	114		26	3,164	122		75	9,822	147		71	40,975	171		274	32,734	119		118	11,516	98	
South Dakota.....	18	2,065,899	114		122	14,377,699	118		110	20,062,993	125		25	2,853	114		75	14,399	162		89	21,794	245		349	62,605	165		144	25,426	177	
Nebraska.....	33	6,090,103	184		128	13,893,671	109		139	21,364,329	134		30	3,675	122		60	9,720	162		63	13,905	221		349	68,628	197		131	22,962	175	
Kansas.....	42	6,641,996	158																													
West North Central.....					1,584	139,819,333	88		1,307	130,580,034	93		305	31,566	103		597	76,538	128		551	123,108	224		3,469	533,814	154		1,828	255,993	1	

[illegible]

¹ Source of data: Department Bulletin No. 547.

TABLE 25.—*Amount of business, by kind of association, 1913, 1915, 1921, and 1922*

Kind of association	1913 ¹		1915 ²		1921 ³		1922 ⁴	
	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Grain.....	\$130,555,221	42.1	\$289,689,218	45.6	\$482,461,000	38.4	\$167,610,000	18.9
Fruit and vegetables.....	69,921,381	22.5	201,542,646	31.7	213,242,000	17.0	168,176,000	19.0
Dairy products.....	59,701,105	19.2	89,061,370	14.0	227,982,000	18.1	279,195,000	31.5
Livestock.....	4,823,539	1.6	5,623,800	.9	106,845,000	8.5	63,424,000	7.2
Cotton.....	15,097,844	4.9	1,502,007	.2	23,498,000	1.9	57,898,000	6.5
Tobacco.....	2,555,420	.8	6,450,000	1.0	3,221,000	.2	60,849,000	6.9
Merchandise (farmers' stores).....	5,928,117	1.9	11,677,355	1.8	42,186,000	3.4	23,507,000	2.7
All others.....	21,730,668	7.0	30,292,288	4.8	156,779,000	12.5	64,524,000	7.3
Total.....	310,313,295	100.0	635,838,684	100.0	1,256,214,000	100.0	885,183,000	100.0

¹ Based on reports from 3,099 associations. See Table 1.² Based on estimated business for 5,424 associations. See Table 4.³ Based on reports from 7,374 associations. See Table 23.⁴ Based on reports from 4,103 associations. See Table 24.TABLE 26.—*Associations grouped according to amount of business transacted*

Group	Grain ¹			Fruit and vegetables ²			Livestock ¹			Creameries ²			Cheese factories ²		
	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent	Number of associations	Per cent	Cumulative per cent
\$20,000 and under.....	57	3.1	3.1	149	25.5	25.5	55	13.5	13.5	65	5.7	5.7	109	33.2	33.2
\$21,000 to \$40,000.....	96	5.2	8.3	71	12.1	37.6	65	15.9	29.4	151	13.3	19.0	120	36.6	69.8
\$41,000 to \$60,000.....	132	7.1	15.4	50	8.6	46.2	55	13.5	42.9	190	16.7	35.7	56	17.1	86.9
\$61,000 to \$80,000.....	180	9.7	25.1	39	6.7	52.9	44	10.8	53.7	185	16.2	51.9	21	6.4	93.3
\$81,000 to \$100,000.....	249	13.4	38.5	37	6.3	59.2	39	9.6	63.3	142	12.5	64.4	9	2.8	96.1
\$101,000 to \$120,000.....	129	6.9	45.4	18	3.1	62.3	33	8.1	71.4	89	7.8	72.2	1	.3	96.4
\$121,000 to \$140,000.....	119	6.4	51.8	24	4.1	66.4	25	6.1	77.5	71	6.2	78.4	4	1.2	97.6
\$141,000 to \$160,000.....	156	8.4	60.2	25	4.3	70.7	21	5.1	82.6	53	4.7	83.1	1	.3	97.9
\$161,000 to \$180,000.....	103	5.5	65.7	11	1.9	72.6	10	2.4	85.0	40	3.5	86.6	—	—	—
\$181,000 to \$200,000.....	165	8.9	74.6	10	1.7	74.3	5	1.2	86.2	34	3.0	89.6	2	.6	98.5
\$201,000 to \$300,000.....	268	14.4	89.0	48	8.2	82.5	37	9.1	95.3	61	5.4	95.0	5	1.5	100.0
\$301,000 to \$400,000.....	108	5.8	94.8	20	3.4	85.9	7	1.7	97.0	27	2.4	97.4	—	—	—
\$401,000 to \$500,000.....	49	2.6	97.4	27	4.6	90.5	6	1.5	98.5	13	1.1	98.5	—	—	—
\$501,000 to \$1,000,000.....	40	2.1	99.5	30	5.1	95.6	6	1.5	100.0	13	1.1	99.6	—	—	—
Over \$1,000,000.....	10	.5	100.0	26	4.4	100.0	—	—	—	5	.4	100.0	—	—	—
Total.....	1,861	100.0	—	585	100.0	—	408	100.0	—	1,139	100.0	—	328	100.0	—

¹ Business of 1923.² Business of 1922.

TABLE 27.—Associations reporting amount of business in 1913 compared with 1921 and 1922

State and geographic division	1913 and 1921 business				1913 and 1922 business			
	Number of associations reporting	1913	1921	Increase or decrease	Number of associations reporting	1913	1922	Increase
		In thousands	In thousands	Per cent		In thousands	In thousands	Per cent
Maine.....	6	\$2,328	\$5,400	132.0	2	\$2,162	\$4,404	103.7
New Hampshire.....								
Vermont.....	2	50	282	464.0	3	131	477	264.1
Massachusetts.....	5	1,449	1,724	19.0	3	1,309	2,047	56.4
Rhode Island.....	1	69	49	¹ 29.0				
Connecticut.....	4	163	228	39.9	4	163	214	31.3
New England.....	18	4,059	7,683	89.3	12	3,765	7,142	89.7
New York.....	12	797	1,199	50.4	13	845	1,380	63.3
New Jersey.....	1	1,053	1,759	67.0	1	1,053	1,428	35.6
Pennsylvania.....	8	244	1,375	463.5	7	218	465	113.3
Middle Atlantic.....	21	2,094	4,333	106.9	21	2,116	3,273	54.7
Ohio.....	12	1,288	3,069	138.3	3	125	193	54.4
Indiana.....	8	535	721	34.8	6	246	315	28.0
Illinois.....	64	10,693	14,687	37.4	22	3,046	4,652	52.7
Michigan.....	27	2,246	4,701	109.3	28	1,670	5,572	233.7
Wisconsin.....	88	6,276	13,113	108.9	79	5,857	12,753	117.7
East North Central.....	199	21,038	36,291	72.5	138	10,944	23,485	114.6
Minnesota.....	253	16,091	27,629	71.7	203	10,695	20,387	90.6
Iowa.....	123	13,744	15,586	13.4	76	6,760	9,368	38.6
Missouri.....	16	1,096	1,619	47.7	13	825	3,125	278.8
North Dakota.....	42	5,111	5,618	9.9	9	522	528	1.1
South Dakota.....	39	5,019	6,927	38.0	13	1,649	1,949	18.2
Nebraska.....	46	5,874	8,862	50.9	17	2,007	3,286	63.7
Kansas.....	41	4,779	11,787	146.6	13	1,339	1,873	39.9
West North Central.....	560	51,714	78,028	50.9	344	23,797	40,516	70.3
Delaware.....								
Maryland.....	1	90	225	150.0				
Virginia.....	4	4,548	9,260	103.6	4	4,548	9,831	116.2
West Virginia.....	1	9	8	¹ 11.1				
North Carolina.....	4	89	564	533.7	4	89	703	689.9
South Carolina.....								
Georgia.....								
Florida.....	11	976	3,521	260.8	10	812	3,482	328.8
South Atlantic.....	21	5,712	13,578	137.7	18	5,449	14,016	157.2
Kentucky.....	2	268	705	163.1	2	160	420	162.5
Tennessee.....	5	56	203	262.5	2	52	85	63.5
Alabama.....	3	3,795	145	¹ 96.2				
Mississippi.....								
East South Central.....	10	4,119	1,053	¹ 74.4	4	212	505	138.2
Arkansas.....	3	52	557	971.2	4	64	248	287.5
Louisiana.....	4	118	327	177.1				
Oklahoma.....	5	329	1,415	330.1	1	110	296	169.1
Texas.....	6	369	564	52.8	1	22	101	359.1
West South Central.....	18	868	2,863	229.8	6	196	645	229.1
Montana.....	5	423	615	45.4	3	214	362	69.2
Idaho.....	2	57	550	864.9	3	83	748	801.2
Wyoming.....	1	90	100	11.1				
Colorado.....	6	763	1,672	119.1	3	669	952	42.3
New Mexico.....	1	61	75	23.0				
Arizona.....	1	40	250	525.0	1	40	75	87.5
Utah.....	4	98	148	51.0	2	80	152	90.0
Nevada.....								
Mountain.....	20	1,532	3,410	122.6	12	1,086	2,289	110.8
Washington.....	30	4,995	8,752	75.2	10	1,902	2,479	30.3
Oregon.....	6	804	496	¹ 38.3	3	362	540	49.2
California.....	21	8,534	42,864	402.3	15	7,513	43,251	475.7
Pacific.....	57	14,333	52,112	263.6	28	9,777	46,270	373.3
United States.....	924	105,469	199,351	89.0	583	57,342	138,141	140.9

¹ Decrease.

TABLE 28.—Average amount of business, by kind of association, 1913 and 1922

Kind of organization	1913			1922		
	Number reporting	Total amount of business	Average amount of business per association	Number reporting	Total amount of business	Average amount of business per association
Grain.....	960	\$130,551,221	\$135,995	826	\$167,610,000	\$202,918
Dairy products.....	1,187	59,701,105	50,296	1,675	279,195,000	166,683
Fruit and vegetables.....	456	69,921,381	153,336	592	168,176,000	284,081
Cotton.....	79	15,097,844	191,112	17	57,898,000	3,405,765
Merchandise (farmers' stores).....	111	5,928,117	53,406	320	23,507,000	73,459
Tobacco.....	18	2,555,420	141,968	8	60,849,000	7,606,125
Livestock.....	44	4,823,539	109,626	413	63,424,000	153,569
All others.....	244	21,730,668	89,060	252	64,524,000	256,048
Total.....	3,099	310,313,295	100,133	4,103	885,183,000	215,740

TABLE 29.—Active associations reporting date of organization, 1863-1923

Year	Grain	Fruit and vegetables	Creameries	Cheese factories	Livestock	Total	Year	Grain	Fruit and vegetables	Creameries	Cheese factories	Livestock	Total
1863.....				1		1	1900.....	11	5	33	6		55
1870.....				1		1	1901.....	7	9	27	5	1	49
1873.....				3		3	1902.....	26	5	26	2	1	60
1878.....		1				1	1903.....	42	2	27	1		72
1879.....			1			1	1904.....	55	1	29	3		88
1880.....			1			1	1905.....	78	7	22	5	1	113
1881.....							1906.....	72	8	34	5	3	122
1882.....				2		2	1907.....	76	5	27	4	2	114
1883.....			4	1		5	1908.....	93	14	31	8	1	147
1884.....			1	1		2	1909.....	93	18	39	3	2	155
1885.....			3			3	1910.....	73	15	38	8	8	142
1886.....		1				3	1911.....	86	12	45	9	13	165
1887.....	2		5	1		8	1912.....	127	15	56	19	14	231
1888.....	3		9	2		14	1913.....	100	23	43	14	12	192
1889.....	3		12	2		17	1914.....	145	28	55	26	30	284
1890.....	2	1	15	1	1	20	1915.....	198	26	50	22	48	344
1891.....	3	1	17	1		22	1916.....	216	33	59	21	49	378
1892.....	6	1	21	1		29	1917.....	198	14	44	43	46	345
1893.....	4	7	18			29	1918.....	229	33	34	38	61	395
1894.....	3	1	31			35	1919.....	383	42	42	40	111	618
1895.....	4	3	24	3		34	1920.....	314	84	41	37	109	585
1896.....	5	2	38	2		47	1921.....	117	103	48	13	142	423
1897.....	5	5	33	1	1	45	1922.....	56	73	25	9	90	253
1898.....	5	4	38	3		50	1923.....	23	11	11	4	28	77
1899.....	7	3	18	3		31							

TABLE 30.—Associations purchasing supplies, by States, 1924

State and geographic division	Building materials	Containers	Feeds	Fencing	Fertilizers	Fuel	Hardware	Implements and machinery	Seeds	Spray materials	General merchandise	Miscellaneous	Number of associations reporting
Maine.....	---	12	20	2	30	---	3	5	6	15	13	11	47
New Hampshire.....	4	1	8	---	8	---	---	---	6	1	---	3	10
Vermont.....	4	5	12	---	9	1	6	---	8	5	1	8	19
Massachusetts.....	2	4	15	---	19	---	---	3	11	6	2	11	25
Rhode Island.....	1	1	3	---	3	---	---	---	1	---	1	4	4
Connecticut.....	3	3	28	2	20	4	2	2	13	2	---	13	31
New England.....	14	26	86	4	89	5	11	11	45	29	17	50	136
New York.....	10	82	49	7	66	16	9	3	42	18	6	38	135
New Jersey.....	3	8	9	---	12	2	1	---	10	5	---	13	18
Pennsylvania.....	35	78	69	3	112	16	9	25	62	13	32	69	165
Middle Atlantic.....	48	168	127	10	190	34	19	28	114	36	38	120	318
Ohio.....	91	75	198	98	122	141	12	20	51	5	2	124	265
Indiana.....	34	87	145	58	106	123	7	8	59	2	3	72	216
Illinois.....	126	108	290	115	28	273	47	51	118	11	23	106	437
Michigan.....	72	75	199	40	134	114	20	27	124	47	17	109	278
Wisconsin.....	23	83	190	10	9	69	25	25	41	7	19	148	302
East North Central.....	346	428	1,022	321	399	720	111	131	393	72	64	559	1,498
Minnesota.....	44	136	301	32	3	231	32	49	42	27	16	150	511
Iowa.....	152	139	402	119	7	349	31	26	84	4	21	140	532
Missouri.....	14	81	258	13	74	77	36	23	71	5	11	132	321
North Dakota.....	14	84	163	17	1	212	6	32	44	7	10	16	282
South Dakota.....	14	82	157	23	---	165	10	22	28	2	7	31	221
Nebraska.....	77	44	151	29	---	240	21	73	20	1	22	64	309
Kansas.....	21	52	257	11	7	217	27	76	57	2	32	68	308
West North Central.....	336	618	1,689	244	92	1,491	163	301	346	48	119	601	2,484
Delaware.....	---	5	2	---	8	---	---	3	2	1	2	4	10
Maryland.....	3	5	6	2	8	3	2	1	6	2	---	9	13
Virginia.....	4	12	9	5	33	3	3	7	31	3	6	19	47
West Virginia.....	9	7	15	3	20	2	2	3	15	4	1	10	25
North Carolina.....	1	7	6	1	15	1	3	5	8	3	11	9	31
South Carolina.....	---	6	2	---	2	---	---	---	6	---	---	3	10
Georgia.....	1	7	4	---	16	---	---	1	9	2	1	8	28
Florida.....	---	22	9	---	39	---	1	10	12	11	4	25	59
South Atlantic.....	18	71	53	11	141	9	11	30	89	26	25	87	223
Kentucky.....	2	5	12	1	16	5	---	2	12	2	1	8	28
Tennessee.....	5	34	16	5	37	2	2	4	23	4	1	26	73
Alabama.....	---	11	12	---	40	1	7	4	22	5	5	10	51
Mississippi.....	1	20	13	1	34	---	---	1	29	---	---	1	41
East South Central.....	8	70	53	7	127	8	9	11	86	11	8	62	193
Arkansas.....	1	43	7	---	29	2	---	2	15	3	2	15	71
Louisiana.....	---	15	6	---	19	---	---	---	10	---	---	1	25
Oklahoma.....	4	26	68	7	---	74	13	7	12	---	13	18	103
Texas.....	---	33	34	4	14	19	6	4	23	2	4	32	86
West South Central.....	5	117	115	11	62	95	19	13	60	5	20	73	285
Montana.....	1	26	49	5	---	26	6	7	10	3	1	18	68
Idaho.....	1	23	9	2	1	4	5	10	4	8	4	9	35
Wyoming.....	1	10	10	2	---	4	2	2	5	2	1	4	15
Colorado.....	4	38	36	6	---	29	12	19	15	6	3	24	79
New Mexico.....	1	7	8	1	---	5	4	1	3	2	---	4	14
Arizona.....	---	8	1	---	2	2	---	---	1	1	1	1	11
Utah.....	---	8	5	---	1	4	4	5	2	2	---	8	16
Nevada.....	---	1	1	---	---	---	---	---	---	---	---	3	3
Mountain.....	8	120	119	17	2	74	35	44	39	24	10	71	241
Washington.....	7	45	38	12	9	28	21	13	6	14	5	32	86
Oregon.....	---	23	15	5	8	4	---	3	4	8	3	18	44
California.....	4	80	21	5	78	2	14	32	12	44	8	143	225
Pacific.....	11	148	74	22	95	34	35	48	22	66	16	193	355
United States.....	794	1,766	3,338	647	1,197	2,470	413	617	1,194	317	317	1,816	5,733

TABLE 31.—Associations purchasing supplies, by kind of association, 1924

Kind	Total reporting	Building material		Containers		Feeds		Fencing		Fertilizers		Fuel	
		Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Cotton.....	31	—	—	6	19.4	10	32.3	1	3.2	8	25.8	7	22.6
Dairy products.....	441	6	1.4	121	27.4	119	27.0	2	.5	11	2.5	80	18.1
Fruit and vegetables.....	818	18	2.2	460	56.2	126	15.4	16	2.0	329	40.2	26	3.2
Forage.....	10	—	—	6	60.0	2	20.0	1	10.0	3	30.0	3	30.0
Grain.....	2,836	608	21.4	682	24.0	2,144	75.6	510	18.0	232	8.2	2,015	71.1
Livestock.....	433	30	6.9	134	30.9	287	66.3	34	7.9	104	24.0	133	30.7
Nuts.....	9	—	—	4	44.4	—	—	—	—	2	22.2	—	—
Poultry and poultry products.....	29	1	3.4	6	20.7	17	58.6	—	—	—	—	1	3.4
Tobacco.....	6	—	—	3	50.0	2	33.3	—	—	2	33.3	1	16.7
Wool.....	57	6	10.5	47	82.5	12	21.1	3	5.3	14	24.6	6	10.5
Miscellaneous selling.....	638	58	9.1	154	24.1	378	59.2	48	7.5	218	34.2	119	18.7
Miscellaneous buying.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Total.....	425	67	15.8	143	33.6	242	56.9	32	7.5	270	63.5	79	18.6
Total.....	5,733	794	13.8	1,766	30.8	3,339	58.2	647	11.3	1,193	20.8	2,470	43.1

Kind	Hard-ware		Imple-ments, machinery		Seeds		Spraying materials		General merchan-dise		Miscel-laneous	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Cotton.....	1	3.2	2	6.5	7	22.6	—	—	3	9.7	9	29.0
Dairy products.....	46	10.4	17	3.9	14	3.2	1	.2	11	2.5	246	55.8
Fruit and vegetables.....	34	4.2	62	7.6	159	19.4	199	24.3	37	4.5	297	36.3
Forage.....	2	20.0	4	40.0	3	30.0	—	—	—	—	4	40.0
Grain.....	196	6.9	392	13.8	548	19.3	16	.6	121	4.3	576	20.3
Livestock.....	18	4.2	19	4.4	59	13.6	4	.9	22	5.1	144	33.3
Nuts.....	—	—	—	—	—	—	6	66.7	—	—	1	11.1
Poultry and poultry products.....	1	3.4	—	—	—	—	—	—	1	3.4	17	58.6
Tobacco.....	—	—	—	—	—	—	—	—	—	—	2	33.3
Wool.....	1	1.8	—	—	9	15.8	1	1.8	2	3.5	6	10.5
Miscellaneous selling.....	69	10.8	92	14.4	226	35.4	49	7.7	58	9.1	319	50.0
Miscellaneous buying.....	38	8.9	29	6.8	168	39.5	35	8.2	50	13.9	184	43.3
Total.....	406	7.1	617	10.8	1,193	20.8	311	5.4	314	5.5	1,805	31.5

TABLE 32.—Grain marketing associations, estimated membership and amount of business, February, 1924

Geographic division	Number associations	Per cent	Estimated membership ¹	Per cent	Estimated amount of business ²	Per cent
West North Central.....	1,953	62.3	255,843	57.8	\$359,074,674	60.8
East North Central.....	852	27.2	122,688	27.7	146,845,608	24.9
Mountain.....	135	4.3	16,005	3.8	22,572,675	3.8
West South Central.....	113	3.6	30,397	6.9	24,189,345	4.1
Pacific.....	65	2.1	14,105	3.2	34,945,820	5.9
Middle Atlantic.....	7	.2	1,351	.3	1,946,000	.3
South Atlantic.....	5	.2	1,525	.3	1,000,000	.2
New England.....	3	.1	204	.4	159,750	.4
East South Central.....	1	.4	65	.4	10,000	.4
United States.....	3,134	100.0	3 442,783	100.0	3 590,743,872	100.0

¹ The average number of members for the associations reporting membership in each geographic division multiplied by the total number of associations credited to the geographic division, based on 2,358 reports regarding membership.

² The average amount of business for the associations reporting business in each geographic division multiplied by the total number of associations credited to the geographic division, based on 1,848 reports regarding amount of business.

³ The sum of the estimates for the several geographic divisions.

⁴ Less than one-tenth of 1 per cent.

TABLE 33.—*Grain marketing associations reporting membership, by geographic divisions, February, 1924*

Geographic division	Number of associations reporting	Number of members		
		Number	Per cent	Average
West North Central.....	1,418	186,505	55.9	132
East North Central.....	684	98,392	29.5	144
West South Central.....	79	21,296	6.4	270
Mountain.....	111	13,640	4.1	123
Pacific.....	53	11,506	3.4	217
Middle Atlantic.....	5	967	.3	193
South Atlantic.....	3	915	.3	305
New England.....	4	274	.1	68
East South Central.....	1	65	1.0	65
United States.....	2,358	333,560	100	141

¹ Less than one-tenth of 1 per cent.TABLE 34.—*Grain marketing associations reporting membership, by leading States, February, 1924*

State and rank	Number of associations reporting	Number of members			
		Total	Per cent of 333,560 ¹	Cumulative per cent	Average number
1. Illinois.....	328	39,318	11.8	11.8	120
2. Minnesota.....	204	31,803	9.5	21.3	156
3. Iowa.....	232	31,295	9.4	30.7	135
4. Nebraska.....	247	30,177	9.0	39.7	122
5. Kansas.....	217	29,911	9.0	48.7	138
6. North Dakota.....	251	25,901	7.8	56.5	103
7. Ohio.....	155	24,136	7.2	63.7	156
8. South Dakota.....	148	19,274	5.8	69.5	130
9. Missouri.....	119	18,144	5.4	74.9	152
10. Oklahoma.....	² 67	² 17,227	5.2	80.1	³ 130
11. Michigan.....	67	14,716	4.4	84.5	220
12. Indiana.....	91	12,887	3.9	88.4	142
All others.....	232	38,771	11.6	100.0	167
United States.....	2,358	333,560	100.0	-----	141

¹ Total membership for the 2,358 associations reporting membership.² Including Oklahoma Wheat Growers' Association with 8,627 members.³ Omitting Oklahoma Wheat Growers' Association with 8,627 members.TABLE 35.—*Grain marketing associations reporting amount of business, by geographic divisions, 1923*

Geographic division	Number of associations reporting	Business reported, 1923		
		Amount	Per cent	Average
West North Central.....	1,115	\$205,002,000	58.7	\$183,858
East North Central.....	543	93,588,000	26.8	172,354
Pacific.....	43	23,118,000	6.6	537,628
West South Central.....	62	13,272,000	3.8	214,065
Mountain.....	73	12,206,000	3.5	167,205
Middle Atlantic.....	5	1,390,000	.4	278,000
South Atlantic.....	2	400,000	.1	200,000
New England.....	4	213,000	.1	53,250
East South Central.....	1	10,000	1.0	10,000
United States.....	1,848	349,199,000	100.0	188,960

¹ Less than one-tenth of 1 per cent.



FIG. 23.—Grain-marketing associations are found in large numbers in the 12 North Central States, in Oklahoma, in a corner of Colorado, and in Washington. Illinois leads in number of associations and Iowa comes second. (See Table 8.)

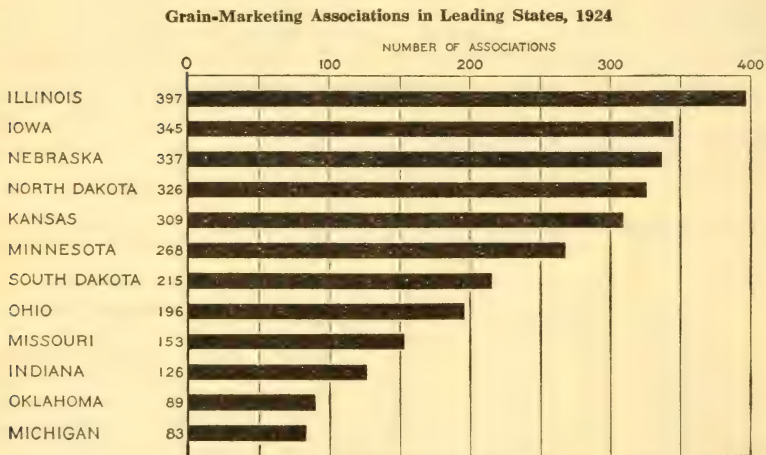


FIG. 24.—Illinois, Iowa, Nebraska, North Dakota, and Kansas, in the order named, lead in the number of organizations engaged in the marketing of grain. (See Table 10.)

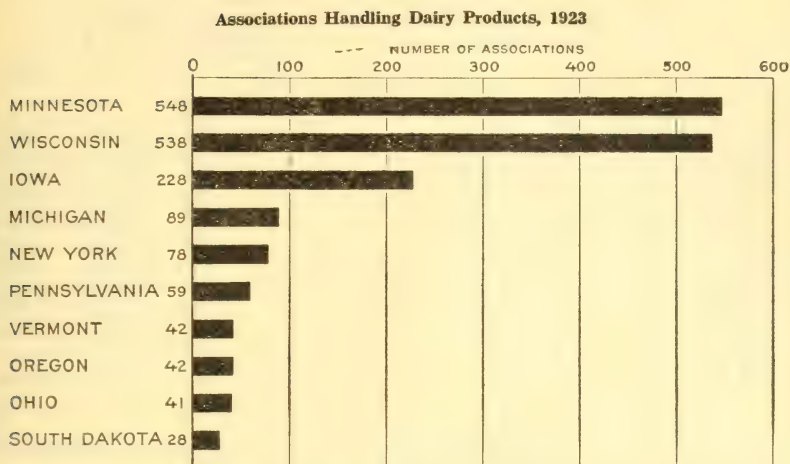


Fig. 25.—Nearly 70 per cent of all associations handling dairy products are in Minnesota, Wisconsin, and Iowa. (See Table 11.)



Fig. 26.—Over 40 per cent of all the farmer-controlled creameries from which reports were received in 1923 were in Minnesota, 17 per cent in Iowa, and 16.7 per cent in Wisconsin. (See Table 44.)

TABLE 36.—*Grain marketing associations reporting amount of business, by leading States, 1923*

State and rank	Number of associations reporting	Business reported, 1923	
		Amount	Average per association
1. Washington.....	28	\$7,920,000	\$282,857
2. Missouri.....	90	22,648,000	251,644
3. Iowa.....	181	39,459,000	218,006
4. Kansas.....	160	32,160,000	201,000
5. Oklahoma.....	54	10,814,000	200,259
6. Illinois.....	269	52,445,000	194,963
7. Michigan.....	48	8,805,000	183,438
8. Nebraska.....	185	33,341,000	180,222
9. North Dakota.....	211	35,246,000	167,043
10. Ohio.....	127	20,403,000	160,654
11. Montana.....	41	6,226,000	151,854
12. South Dakota.....	112	16,743,000	149,491
13. Minnesota.....	176	25,405,000	144,347
14. Indiana.....	73	9,717,000	133,110
All others.....	93	27,867,000	.....
United States.....	1,848	349,199,000	188,960

TABLE 37.—*Grain marketing associations reporting both number of members and amount of business, by leading States, 1923*

State and rank	Number of associations reporting	Number of members	Business	
			Amount	Average per member
1. Montana.....	40	4,262	\$11,671,000	\$2,738
2. Illinois.....	264	29,005	51,199,000	1,765
3. North Dakota.....	209	22,088	34,949,000	1,582
4. Iowa.....	177	23,784	36,689,000	1,543
5. Washington.....	28	5,230	7,920,000	1,514
6. Kansas.....	158	22,082	31,397,000	1,422
7. Nebraska.....	187	23,664	33,544,000	1,418
8. Minnesota.....	175	23,020	25,305,000	1,099
9. South Dakota.....	114	15,778	17,108,000	1,081
10. Missouri.....	85	11,716	12,588,000	1,074
11. Ohio.....	130	21,117	21,200,000	1,004
12. Indiana.....	68	10,296	9,169,000	891
13. Michigan.....	50	10,436	9,130,000	875
14. Oklahoma.....	54	16,053	10,983,000	684
All others.....	88	23,238	19,674,000	.....
United States.....	1,827	261,769	332,526,000	1,270

TABLE 38.—*Grain marketing associations reporting amount of business, by geographic divisions, in both 1913 and 1923*

Geographic division	Number of associations reporting	Amount of business		
		1913	1923	Increase per cent
West North Central.....	176	\$23,043,000	\$31,423,000	36.4
East North Central.....	62	9,289,000	12,583,000	35.5
Pacific.....	17	3,132,000	2,962,000	15.4
All others.....	3	226,000	495,000	119.0
United States.....	258	35,690,000	47,463,000	33.0

* Decrease.

TABLE 39.—Grain marketing associations reporting amount of business, by leading States, in both 1913 and 1923

State and rank	Number of associations reporting	Amount of business		
		1913	1923	Increase per cent
1. North Dakota.....	25	\$2,411,000	\$3,669,000	52.2
2. Kansas.....	21	2,192,000	3,171,000	44.7
3. Nebraska.....	26	4,051,000	5,814,000	43.5
4. Minnesota.....	46	4,900,000	6,859,000	40.0
5. South Dakota.....	25	3,664,000	5,018,000	37.0
6. Illinois.....	48	7,972,000	10,727,000	34.6
7. Iowa.....	31	5,679,000	6,742,000	18.7
8. Washington.....	16	2,732,000	2,939,000	7.6

TABLE 40.—Quantity of grain of the 1922 crop handled by 1,882 associations

Grain	Bushels	Per cent
Wheat.....	134,064,000	42.0
Oats.....	63,520,000	19.9
Rye.....	12,908,000	4.0
Other grain.....	108,897,000	34.1
Total.....	319,389,000	100.0

TABLE 41.—Quantity of grain of the 1922 crop handled by 1,882 associations, by leading States

State and rank	Number of associations reporting	Number of bushels			Average per association
		Wheat	Other grains	Total	
1. Oregon.....	7	8,771,000	60,000	3,831,000	547,285
2. California.....	9	2,130,000	2,149,000	4,279,000	475,444
3. Montana.....	39	10,810,000	703,000	11,513,000	295,205
4. Washington.....	28	7,181,000	225,000	7,406,000	264,500
5. Illinois.....	276	11,075,000	53,923,000	64,998,000	235,500
6. Iowa.....	189	1,462,000	42,899,000	44,361,000	234,714
7. Missouri.....	89	11,149,000	3,471,000	14,620,000	164,270
8. North Dakota.....	224	24,252,000	12,067,000	36,319,000	162,138
9. Oklahoma.....	58	7,593,000	1,445,000	9,038,000	155,828
10. Minnesota.....	177	5,095,000	22,025,000	27,120,000	153,220
11. South Dakota.....	122	6,674,000	11,618,000	18,292,000	149,934
12. Nebraska.....	181	10,802,000	15,047,000	25,849,000	142,812
13. Kansas.....	173	21,233,000	3,415,000	24,648,000	142,474
14. Indiana.....	73	1,562,000	6,394,000	7,956,000	108,986
15. Ohio.....	127	3,979,000	5,590,000	9,569,000	75,346
All others.....	110	5,296,000	4,294,000	9,590,000	.....
United States.....	1,882	134,064,000	185,325,000	319,389,000	169,707

TABLE 42.—State and regional grain marketing associations, June, 1924

Association	Address	Date organized	Number of members, 1924	Bushels of grain, 1922 crop	Amount of business, 1922-23	Bushels of grain, 1923 crop
Arizona Grain Growers' Association	Phoenix, Ariz.	June, 1922 ¹	280	---	---	---
California Farm Bureau Exchange	San Francisco, Calif.	June, 1921	830	3,086,474	\$2,585,809	2,061,333
Colorado Wheat Growers' Association	Sterling, Colo.	September, 1920 ¹	5,185	87,500	120,000	1,300,000
Idaho Wheat Growers' Association	American Falls, Idaho	September, 1921	3,296	424,000	---	---
Indiana Wheat Growers' Association	Indianapolis, Ind.	September, 1924	4,500	---	---	0
Kansas Wheat Growers' Association ¹	Wichita, Kans.	September, 1921	---	2,500,000	3,500,000	2,100,000
Farmers' Union Cooperative Wheat Marketing Association ⁴	Kansas City, Kans.	February, 1924	1,000	---	---	---
Minnesota Cooperative Wheat Marketing Association	Wichita, Kans.	1923	2,500	---	---	---
Kansas Cooperative Wheat Marketing Association	Thief River Falls, Minn.	1923	7,832	40,000	---	513,002
Montana Wheat Growers' Association ²	Lewistown, Mont.	1921	10,809	6,048,000	5,624,125	4,390,579
Nebraska Wheat Growers' Association	Hastings, Nebr.	1921	2,425	400,000	440,000	550,000
North Dakota Wheat Growers' Association ²	Grand Forks, N. Dak.	April, 1922 ¹	14,545	3,141,464	3,400,000	2,100,000
Oklahoma Wheat Growers' Association ³	Enid, Okla.	September, 1921	11,352	3,122,373	3,500,000	3,775,000
Oregon Cooperative Grain Growers ²	Portland, Ore.	July, 1921	3,000	2,375,000	3,000,000	3,500,000
South Dakota Wheat Growers' Association, Inc.	Aberdeen, S. Dak.	June, 1923	3,000	---	---	---
Texas Wheat Growers' Association ⁵	Amarillo, Tex.	1924	3,000	218,520	1,000,000	---
Washington Wheat Growers' Association ²	Spokane, Wash.	May, 1920	3,017	2,750,000	3,500,000	4,086,496
Northwest Wheat Growers Associated (selling agency for Washington, Oregon, Idaho, Montana, and North Dakota State associations. Supplanted Aug. 1, 1923, by American Wheat Growers Associated (Inc.).)	Portland, Oreg., and Minneapolis, Minn.	1921	65	15,000,000	---	---
Southwest Wheat Growers Associated (selling agency for Oklahoma and Texas State associations)	Enid, Okla.	1921	62	3,179,594	5,632,595	---
American Wheat Growers Associated (absorbed business of Northwest Wheat Growers Association Aug. 1, 1923. Selling agency for Washington, Oregon, Montana, Nebraska, North Dakota, Colorado, Minnesota, and South Dakota State associations.)	Minneapolis, Minn.	December, 1922	69	0	0	---

¹ Date incorporated.² Grain sold through Portland and Minneapolis offices of Northwest Wheat Growers Associated.³ In hands of receiver.⁴ Merged into Kansas Cooperative Wheat Marketing Association, Wichita, Kans. (1924).⁵ Grain sold through the Southwest Wheat Growers Associated.⁶ State associations.



FIG. 27.—More than 60 per cent of the farmer-controlled cheese factories in the United States are in Wisconsin. Oregon has the second largest number. There are a few cheese factories in New York, Michigan, and Ohio.



FIG. 28.—In nearly all the States there are producer-controlled associations engaged in the marketing of milk as fluid milk, cream, ice cream, condensed milk, or milk powder. The amount of business transacted by these associations varies from a few thousand dollars in the case of the smallest to over \$80,000,000 in the case of the largest.

TABLE 43.—Terminal grain marketing associations, 1923

Association	Date organized	Members, 1923	Bushels grain, 1922 crop	Amount of business, 1922-23	Bushels grain, 1923 crop
Equity Cooperative Exchange, St. Paul, Minn. ¹	1908 ²	³ 10,000	-----	-----	⁴ 1,447,600
Farmers' Union Jobbing Association, Kansas City, Mo.	May, 1914.....	1,225	3,429,780	\$4,423,636	3,780,640
Equity Union Grain Co., Kansas City, Mo.	1916.....	40	4,500,000	5,000,000	5,000,000
Farmers' Elevator Commission Co., Minneapolis, Minn.	July, 1919.....	100	1,500,000	1,000,000	-----
Farmers' Terminal Elevator Co., Sioux City, Iowa. ¹	August, 1919.....	-----	-----	-----	-----
National Grain Commission Co., Omaha, Nebr.	October, 1919 ⁵	⁶ 9	-----	-----	272,000
United States Grain Growers (Inc.), Chicago, Ill. ⁷	April, 1921.....	⁸ 62,980	0	0	-----
United States Grain Growers Co., Minneapolis, Minn.	October, 1922.....	(⁹)	-----	-----	-----

¹ In hands of receiver.² Incorporated Mar. 21, 1911.³ Estimated.⁴ Does not include grain handled on consignment.⁵ Reorganized January, 1923. Began business Aug. 1, 1923.⁶ Associations.⁷ Began operating December, 1923.⁸ April, 1924.⁹ Capital stock purchased by the Montana Wheat Growers' Association and the Minnesota Wheat Growers' Cooperative Marketing Association.

TABLE 44.—Creameries, estimated membership, and amount of business, by geographic divisions

Geographic division	Associations reporting		Estimated membership, 1923		Estimated amount of business, 1922	
	Number reporting	Per cent of total	Number ¹	Per cent	Amount ²	Per cent
West North Central.....	778	61.1	122,146	60.5	\$72,518,936	50.6
East North Central.....	299	23.5	48,139	23.8	39,474,578	27.5
Middle Atlantic.....	56	4.4	4,138	2.1	4,658,920	3.3
New England.....	52	4.1	4,742	2.4	5,868,876	4.1
Pacific.....	38	3.0	11,457	5.7	14,799,784	10.3
Mountain.....	21	1.6	6,102	3.0	3,204,348	2.2
East South Central.....	19	1.5	4,104	2.0	2,136,930	1.5
South Atlantic.....	8	.6	1,006	.5	543,000	.4
West South Central.....	2	.2	68	.3	147,000	.1
United States.....	1,273	100.0	201,902	100.0	143,352,372	100.0

LEADING STATES

Minnesota.....	510	40.1	67,371	33.4	\$45,466,500	31.9
Iowa.....	216	17.0	31,492	15.6	21,163,464	14.8
Wisconsin.....	212	16.7	30,803	15.3	30,356,492	21.2
Michigan.....	65	5.1	15,294	7.6	7,069,530	5.0
Vermont.....	35	2.7	3,643	1.8	4,723,810	3.3

¹ The average number of members for the associations reporting membership in each State, multiplied by total number of associations credited to the State, based on 1,173 reports regarding membership.² The average amount of business for the associations reporting amount of business in each State multiplied by the total number of associations credited to the State, based on 1,139 reports regarding amount of business.³ Less than one-tenth of 1 per cent.

TABLE 45.—*Creameries reporting membership and amount of business, by geographic divisions*

Geographic division	Membership			Amount of business		
	Associa- tions reporting	Number of members 1923	Average number of mem- bers per associa- tion	Associa- tions reporting	Amount of business 1922	Average per associa- tion
West North Central.....	716	112,420	157	701	\$65,342,000	\$93,213
East North Central.....	279	44,945	161	272	35,910,000	132,022
Middle Atlantic.....	52	3,843	74	46	3,827,000	83,196
New England.....	47	4,288	91	44	4,966,000	112,864
Pacific.....	33	9,950	302	32	12,438,000	389,000
Mountain.....	19	5,523	291	17	2,594,000	152,588
East South Central.....	17	3,673	216	17	1,912,000	112,471
South Atlantic.....	8	1,007	126	8	543,000	67,875
West South Central.....	2	68	34	2	147,000	73,500
United States.....	1,173	185,717	158	1,139	127,704,000	112,119

TABLE 46.—*Creameries reporting membership, by leading States, 1923*

State and rank	Number of associa- tions reporting member- ship	Number of members	Average number of mem- bers per associa- tion
1. Minnesota.....	472	62,367	132
2. Iowa.....	199	29,026	146
3. Wisconsin.....	197	28,643	145
4. Michigan.....	62	14,599	235
5. Vermont.....	32	3,334	104
6. Pennsylvania.....	32	2,237	70
7. New York.....	20	1,606	80
8. South Dakota.....	20	7,993	400

TABLE 47.—*Creameries reporting amount of business, by leading States, 1922*

State and rank	Number of associa- tions reporting	Amount of business	Average per asso- ciation
1. Minnesota.....	460	\$41,009,000	\$89,150
2. Iowa.....	195	19,106,000	97,979
3. Wisconsin.....	193	27,636,000	142,192
4. Michigan.....	59	6,417,000	108,762
5. Pennsylvania.....	31	2,452,000	79,097
6. Vermont.....	30	4,049,000	134,967
7. South Dakota.....	20	1,565,000	78,250
8. New York.....	15	1,375,000	91,667

TABLE 48.—*Fruit and vegetable associations, by geographic divisions, 1923*

Geographic divisions	Total number of associations reporting	Estimated membership	Per cent
Pacific.....	322	71,382	39.0
South Atlantic.....	134	25,509	13.9
West North Central.....	153	19,987	10.9
East North Central.....	119	14,471	7.9
West South Central.....	180	14,178	7.8
Mountain.....	84	12,595	6.9
East South Central.....	89	11,672	6.4
Middle Atlantic.....	109	10,386	5.7
New England.....	42	2,750	1.5
United States.....	1,232	182,930	100.0

TABLE 49.—*Fruit and vegetable associations, by States, 1923*

State and rank	Total number of associations	Associations reporting number of members	Number of members	Average number of members	Estimated membership	Per cent	Cumulative per cent
1. California.....	246	163	35,385	217	53,382	29.2	29.2
2. Virginia.....	10	5	6,426	1,285	12,850	7.0	36.2
3. Oregon.....	26	14	5,951	425	11,050	6.0	42.2
4. New York.....	89	62	6,365	103	9,167	5.0	47.2
5. Missouri.....	29	16	4,684	293	8,497	4.6	51.8
6. Michigan.....	55	35	5,148	147	8,085	4.4	56.2
7. Minnesota.....	78	35	3,508	100	7,800	4.3	60.5
8. Idaho.....	20	7	2,444	349	6,980	3.8	64.3
9. Washington.....	50	28	3,901	139	6,950	3.8	68.1
10. Florida.....	82	54	4,524	84	6,888	3.8	71.9
11. Arkansas.....	90	37	2,709	73	6,570	3.6	75.5
12. Tennessee.....	42	14	2,097	150	6,300	3.4	78.9
13. Louisiana.....	24	5	861	172	4,128	2.3	81.2
14. Wisconsin.....	23	6	946	158	3,634	2.0	83.2
15. Alabama.....	25	13	1,851	142	3,550	1.9	85.1
16. Colorado.....	38	9	834	93	3,534	1.9	87.0
17. Texas.....	54	21	1,089	52	2,808	1.5	88.5
18. Georgia.....	8	3	977	326	2,608	1.4	89.9
19. Kentucky.....	6	4	948	237	1,422	.8	90.7
20. Massachusetts.....	7	2	396	198	1,386	.8	91.5
21. Ohio.....	16	10	863	86	1,376	.7	92.2
22. Maryland.....	4	3	1,003	334	1,336	.7	92.9
23. North Dakota.....	24	10	546	55	1,320	.7	93.6
24. Illinois.....	17	3	191	64	1,088	.6	94.2
25. Pennsylvania.....	13	10	761	76	988	.5	94.7
26. Nebraska.....	4	2	453	226	904	.5	95.2
27. Maine.....	32	5	139	28	896	.5	95.7
28. North Carolina.....	12	8	564	70	840	.5	96.2
29. Utah.....	10	4	312	78	780	.4	96.6
30. Iowa.....	5	2	270	135	675	.4	97.0
31. Oklahoma.....	12	4	222	56	672	.4	97.4
32. South Dakota.....	10	3	194	65	650	.4	97.8
33. South Carolina.....	9	6	430	72	648	.4	98.2
34. Montana.....	6	3	325	108	648	.4	98.6
35. Arizona.....	5	3	245	82	410	.2	98.8
36. Mississippi.....	16	2	50	25	400	.2	99.0
37. Connecticut.....	2	2	156	156	312	.2	99.2
38. Indiana.....	8	3	107	36	288	.2	99.4
39. New Jersey.....	7	3	98	33	231	.1	99.5
40. West Virginia.....	7	4	109	27	189	.1	99.6
41. Wyoming.....	3	2	110	55	165	.1	99.7
42. Vermont.....	1	1	75	156	156	.1	99.8
43. Delaware.....	2	1	75	75	150	.1	99.9
44. Kansas.....	3	3	140	47	141	.1	100.0
45. New Mexico.....	2	2	78	39	78	.1	100.0
United States.....	1,232	629	98,329	156	182,930	100.0	100.0

¹ Total of estimates for all States.² Average for United States.³ Less than one-tenth of 1 per cent.

TABLE 50.—Quantity and value of fruits and vegetables, by products, handled cooperatively, 1922

Commodity	Cars	Value	Commodity	Cars	Value
FRUITS			VEGETABLES—Continued		
Apples.....	16, 099	\$13, 794, 341	Watermelons.....	2, 637	\$287, 525
Citrus fruits.....	43, 620	69, 202, 327	Lettuce.....	1, 821	1, 048, 920
Grapes.....	15, 889	42, 510, 669	Onions.....	870	435, 597
Strawberries.....	5, 987	6, 169, 964	Asparagus.....	190	321, 702
Peaches.....	6, 025	9, 346, 380	Rhubarb.....	212	250, 004
Pears.....	2, 829	2, 431, 286	Cucumbers.....	518	347, 807
Cherries.....	199	499, 354	Celery.....	1, 162	759, 502
Plums and prunes (all).....	3, 195	12, 453, 720	Lima beans.....	1, 262	3, 800, 000
Raspberries (all).....	383	672, 346	Green beans.....	237	113, 796
Cranberries.....	1, 685	3, 906, 510	Broccoli.....	173	119, 030
Apricots.....	391	3, 083, 932	Peas.....	312	241, 944
Loganberries.....	353	312, 327	Spinach.....	103	31, 281
Figs.....	190	1, 130, 000	Escarole.....	53	53, 000
Blackberries.....	313	268, 851	Romaine.....	11	11, 000
Pineapples.....	100	85, 000	Peppers.....	150	156, 000
Currants.....	121	93, 918	Squash.....	22	15, 000
Gooseberries.....	1	2, 230	Turnips.....	8	840
Olives and olive oil.....	111	579, 260	Chicory.....	3	3, 000
Quinces.....	25	13, 020	Cantaloupes.....	503	209, 879
Total.....	97, 516	166, 555, 435	Garlic.....	5	14, 000
Miscellaneous fruits.....	10, 271	15, 564, 576	Eggplant.....	13	13, 000
Total fruits.....	107, 787	182, 120, 011	Radishes.....	2	2, 000
VEGETABLES			Cauliflowers.....	2	800
Potatoes.....	19, 943	\$11, 061, 852	Sweet corn.....	2	1, 000
Cabbage.....	1, 216	314, 193	Total.....	41, 019	24, 398, 875
Sweet potatoes.....	5, 149	1, 792, 204	Miscellaneous vegetables.....	18, 925	5, 104, 488
Tomatoes.....	4, 440	2, 993, 999	Total vegetables.....	59, 944	29, 503, 363
				Cars	Value
			Total fruits.....	107, 787	\$182, 120, 011
			Total vegetables.....	59, 944	29, 503, 363
			Mixed fruits and vegetables.....	9, 475	9, 565, 603
			Total fruits and vegetables.....	177, 206	221, 188, 977

TABLE 51.—Federations and associations selling citrus fruits, 1922

Name of association	Number of locals	Total number of organizations ¹	Cars handled	Estimated f. o. b. value
California Fruit Growers' Exchange.....	195	² 216	27, 138	\$48, 647, 800
Mutual Orange Distributors (California).....	21	22	5, 000	7, 430, 000
Florida Citrus Exchange.....	79	³ 92	10, 572	12, 062, 648
Gulf Coast Citrus Exchange (Alabama).....	12	13	325	443, 000
Florida East Coast Growers' Association.....	8	9	100	80, 000
Federations total.....	315	352	43, 135	68, 663, 448
Four independent associations.....	4	4	485	538, 879
Grand total.....	319	356	43, 620	69, 202, 327

¹ Including overhead organization in each case.² Including 20 districts or subexchanges.³ Including 12 districts or subexchanges.

TABLE 52.—*Fruit and vegetable associations reporting amount of business in 1913 compared with 1921 and 1922*

State and geographic division	1913 and 1921 business				1913 and 1922 business			
	Number of associations reporting	1913	1921	Per cent increase or decrease	Number of associations reporting	1913	1922	Per cent increase or decrease
Maine.....	2	\$45,000	\$50,000	11.1				
New Hampshire.....								
Vermont.....								
Massachusetts.....	1	1,186,000	1,300,000	9.6	1	\$1,186,000	\$1,905,000	60.6
Rhode Island.....								
Connecticut.....								
New England.....	3	1,231,000	1,350,000	9.7	1	1,186,000	1,905,000	60.6
New York.....	5	530,000	591,000	11.5	4	525,000	698,000	33.0
New Jersey.....	1	1,053,000	1,799,000	67.9	1	1,053,000	1,428,000	35.6
Pennsylvania.....								
Middle Atlantic.....	6	1,583,000	2,350,000	48.4	5	1,578,000	2,126,000	34.7
Ohio.....	2	406,000	1,250,000	207.9	1	95,000	43,000	-54.7
Indiana.....	1	17,000	40,000	135.3	1	5,000	30,000	500.0
Illinois.....	1	25,000	13,000	-48.0	1	25,000	38,000	52.0
Michigan.....	4	281,000	1,260,000	348.4	4	356,900	2,732,000	667.4
Wisconsin.....	5	323,000	1,676,000	418.9	6	240,000	1,384,000	476.7
East North Central.....	13	1,052,000	4,239,000	302.9	13	721,000	4,227,000	486.3
Minnesota.....	2	59,000	68,000	15.3	3	129,000	115,000	-10.9
Iowa.....	3	124,000	220,000	77.4	1	66,000	125,000	89.4
Missouri.....	12	917,000	1,353,000	50.8	9	719,000	2,908,000	304.4
North Dakota.....								
South Dakota.....								
Nebraska.....								
Kansas.....	1	51,000	3,600	-94.1	1	51,000	10,000	-80.4
West North Central.....	18	1,151,000	1,674,000	45.4	14	965,000	3,158,000	227.3
Delaware.....								
Maryland.....								
Virginia.....	1	4,509,000	9,157,000	103.5	1	4,509,000	9,721,000	116.0
West Virginia.....								
North Carolina.....	1	4,000	400,000	9,900.0	1	4,000	450,000	1,115.0
South Carolina.....								
Georgia.....								
Florida.....	11	976,000	3,521,000	260.8	10	812,000	3,482,000	328.8
South Atlantic.....	13	5,480,000	13,078,000	138.6	12	5,316,000	13,653,000	156.8
Kentucky.....	1	225,000	600,000	166.7	1	117,000	300,000	156.4
Tennessee.....	3	30,000	31,000	3.3	1	24,000	11,000	-54.2
Alabama.....	1	15,000	75,000	400.0				
Mississippi.....								
East South Central.....	5	270,000	706,000	161.5	2	141,000	311,000	120.6
Arkansas.....	3	52,000	557,000	971.2	4	64,000	248,000	287.5
Louisiana.....	4	118,000	327,000	177.1				
Oklahoma.....								
Texas.....	3	51,000	59,000	15.7				
West South Central.....	10	221,000	943,000	326.7	4	64,000	248,000	287.5
Montana.....	1	35,000	125,000	257.1	1	35,000	65,000	85.7
Idaho.....					2	41,000	148,000	261.0
Wyoming.....								
Colorado.....	4	723,000	1,573,000	117.6	2	649,000	909,000	40.1
New Mexico.....					1	40,000	75,000	87.5
Arizona.....	1	40,000	250,000	525.0	1	30,000	70,000	133.3
Utah.....	1	30,000	60,000	100.0				
Nevada.....								
Mountain.....	7	828,000	2,008,000	142.5	7	795,000	1,267,000	59.4
Washington.....	4	1,473,000	3,212,000	118.1	2	1,015,000	1,000,000	-1.5
Oregon.....	4	371,000	471,000	27.0	3	362,000	540,000	49.2
California.....	12	6,689,000	38,149,000	470.3	10	6,118,000	39,539,000	546.3
Pacific.....	20	8,533,000	41,832,000	390.2	15	7,495,000	41,079,000	448.1
United States.....	95	26,349,000	68,180,000	255.1	73	18,261,000	67,974,000	272.2

TABLE 53.—*Livestock marketing associations reporting amount of business, by leading States, 1923*

State and rank	Number of associations reporting	Number reporting amount of business, 1922	Amount of business, 1922	Average amount of business per association
			<i>Thousands</i>	<i>Thousands</i>
1. Iowa.....	334	98	\$14,931	\$152
2. Minnesota.....	300	117	10,249	88
3. Illinois.....	154	84	3,756	110
4. Wisconsin.....	144	43	4,855	113
5. Missouri.....	107	11	705	64
6. Indiana.....	95	12	1,030	86
7. South Dakota.....	93	25	1,251	50
8. Michigan.....	82	23	1,998	87
9. Ohio.....	74	16	3,538	221
All others.....	215	32	3,938	123
Total.....	1,598	411	46,251	113

TABLE 54.—*Terminal livestock selling agencies, by cities, 1924*

Market	Number of agencies	Number of cars handled 1923	Number of animals 1923	Total sales 1923
Chicago.....	2	22,190	1,473,886	\$31,441,346
East St. Louis.....	2	24,205	1,891,969	30,930,854
South St. Paul.....	3	23,988	⁷ 1,616,346	29,168,446
Indianapolis.....	1	12,822	909,032	15,748,151
St. Joseph, Mo.....	1	12,529	849,666	15,410,814
Kansas City.....	13	13,241	⁷ 266,438	16,232,835
Omaha.....	1	10,177	624,333	13,251,897
Buffalo.....	1	5,078	562,511	11,027,480
Sioux City.....	1	6,015	365,167	7,616,640
Detroit.....	1	4,654	376,356	7,000,000
Fort Worth.....	1	4,082	181,228	4,046,231
Cleveland.....	² 1	2,650	252,476	3,842,718
Peoria.....	1	2,116	144,250	2,524,786
Milwaukee.....	1	2,264	155,529	2,131,187
Denver.....	1	1,537	115,328	1,686,919
Pittsburgh.....	³ 1	675	68,111	1,024,962
Sioux Falls.....	⁴ 1	520	35,405	591,633
Evansville, Ind.....	⁵ 1	443	32,275	351,069
Oklahoma City.....	⁶ 1	406	19,296	266,988
Lexington, Ky.....	⁸ 1			
Total.....	26	149,592	9,939,512	194,294,967

¹ One began operating Mar. 5, 1923.² Began operating May 15, 1923.³ Began operating Oct. 8, 1923.⁴ Began operating May 3, 1923.⁵ Began operating Sept. 1, 1923.⁶ Began operating July 2, 1923.⁷ Only two reporting.⁸ Began operating Feb. 19, 1924.

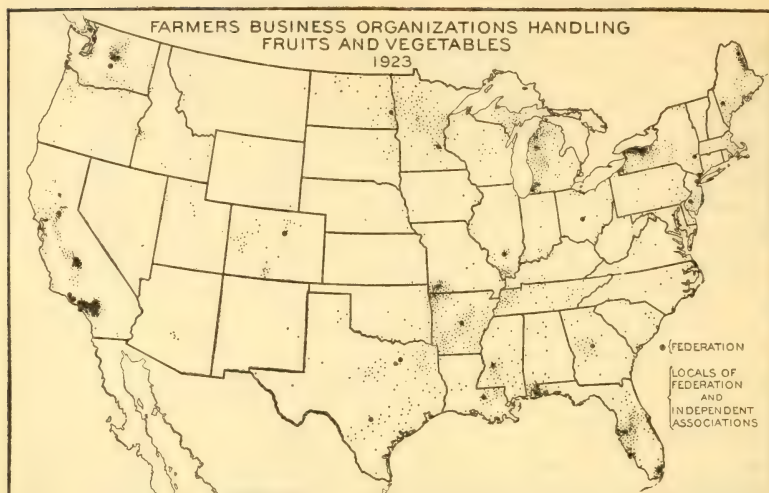


FIG. 29.—The marketing of fruits and vegetables is carried on by independent local associations and by federations of affiliated local associations. California leads in the number of associations. (See Table 8.)

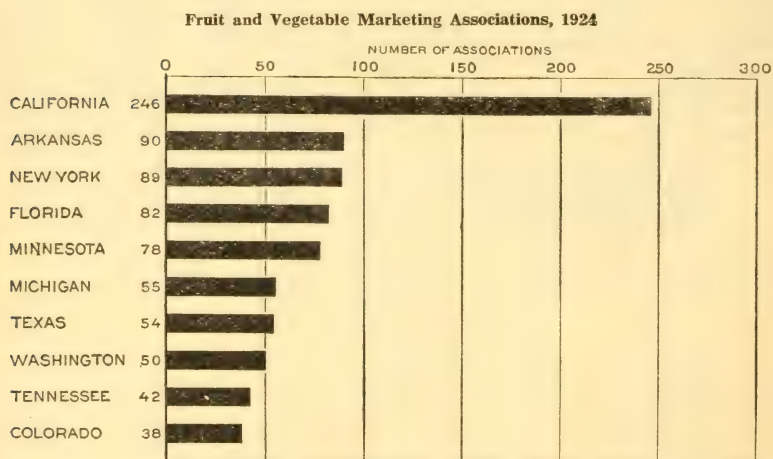


FIG. 30.—There are more than twice as many associations handling fruits and vegetables in California as in any other State. Reports from Arkansas, New York, and Florida indicate about the same number of organizations in each State. (See Table 12.)



FIG. 31.—Geographic distribution of 1,598 livestock-shipping associations and 26 cooperative selling agencies located in 20 terminal livestock markets. Iowa and Minnesota lead in the number of active livestock-shipping associations. (See Tables 8 and 55.)

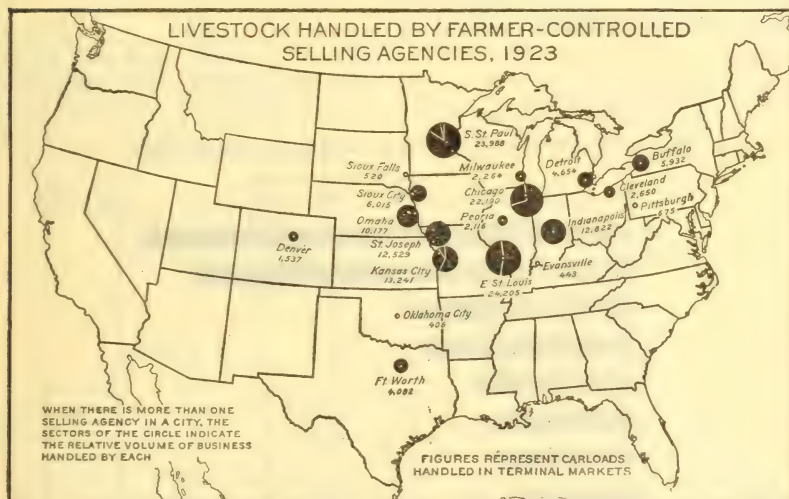


FIG. 32.—Twenty-five producer-controlled livestock-selling agencies operating in 19 terminal markets handled 149,592 cars of livestock in 1923. (See Table 55.) The white dot in each circle indicates location of terminal market

TABLE 55.—Terminal livestock selling agencies, by associations, 1924

Association	Location	Began operating	Cars handled, 1923	Total sales, 1923	Patronage dividends, 1923
Farmers Union Live Stock Commission	Omaha, Nebr.....	1917	10, 177	\$13, 251, 897	\$111, 394
Farmers Union Live Stock Commission	St. Joseph, Mo.....	1917	12, 529	15, 410, 814	125, 963
Farmers Union Live Stock Commission	Sioux City, Iowa.....	1918	6, 015	7, 616, 640	51, 265
Farmers Union Live Stock Commission	Kansas City, Mo.....	1919	7, 688	8, 979, 258	28, 861
Farmers Union Live Stock Commission, (Inc.).	Denver, Colo.....	1919	1, 537	1, 686, 919	0
Central Cooperative Commission Association.	South St. Paul, Minn.	1921	20, 339	24, 723, 051	72, 753
Farmers Live Stock Commission Co.....	East St. Louis, Ill....	1921	13, 104	16, 674, 153	152, 323
Producers Live Stock Commission Association.	do.....	1922	11, 101	14, 256, 701	83, 673
Michigan Live Stock Exchange.....	Detroit, Mich.....	1922	4, 654	7, 000, 000	17, 000
Farmers Union Live Stock Commission	Chicago, Ill.....	1922	6, 335	8, 725, 123	30, 292
Farmers Union Live Stock Commission	St. Paul, Minn.....	1922	2, 909	3, 519, 077	15, 982
Producers Commission Association.....	Indianapolis, Ind.....	1922	12, 822	15, 748, 151	32, 000
Chicago Producers Commission Association.	Chicago, Ill.....	1922	15, 855	22, 716, 223	69, 094
Peoria Producers Commission Association.	Peoria, Ill.....	1922	2, 116	2, 524, 786	6, 000
Cattle Raisers and Producers Commission Co.	Fort Worth, Tex....	1922	4, 082	4, 046, 231	0
Producers Cooperative Commission Association, (Inc.).	East Buffalo, N. Y..	1922	5, 078	11, 027, 480	24, 246
Equity Cooperative Live Stock Sales Association, (Inc.).	Milwaukee, Wis....	1922	2, 264	2, 131, 187	10, 605
Producers Commission Association.....	Kansas City, Mo....	1923	4, 462	5, 862, 131	0
Peoples Cooperative Sales Agency, (Inc.).	South St. Paul, Minn.	1923	740	926, 318	795
Producers Commission Association.....	Sioux Falls, S. Dak.	1923	520	591, 633	0
Producers Cooperative Commission Association.	Cleveland, Ohio.....	1923	2, 650	3, 842, 718	0
United Live Stock Shippers Association.	Kansas City, Mo....	1923	1, 091	1, 391, 446	0
Producers Commission Association.....	Oklahoma City, Okla.	1923	406	266, 988	0
Evansville Producers Commission Association.	Evansville, Ind.....	1923	443	351, 080	0
Producers Cooperative Commission Association.	Pittsburgh, Pa.....	1923	675	1, 024, 962	0
Farmers Union Cooperative Stockyards Co.	Lexington, Ky.....	1924	0	0	0
Total.....			149, 592	194, 294, 967	822, 236

¹ Year ending Apr. 30, 1923.² Estimated.

Livestock-Marketing Associations in Leading States, March, 1924

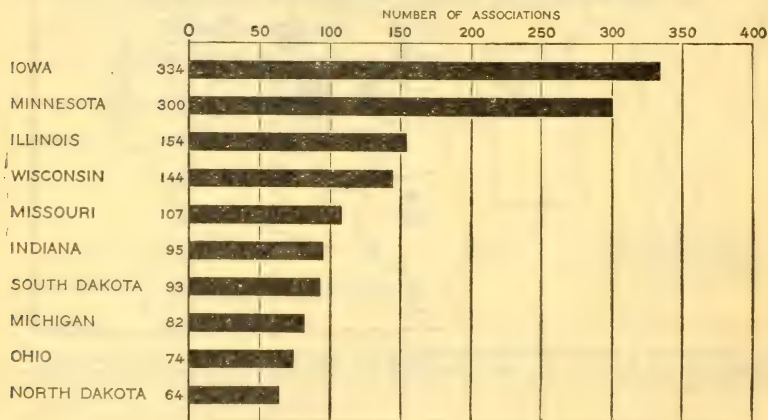


FIG. 33.—There are few livestock-shipping associations outside of the 12 North Central States. Nearly one-half of all associations reporting are in Iowa, Minnesota, and Illinois. (See Table 13.)

TABLE 56.—State and regional cotton marketing associations, June, 1924

(Compiled from data obtained from associations)

Association	Year formed	Members, 1924	Bales handled			Estimated value 1922-23 cotton crop handled
			1921-22 crop	1922-23 crop	1923-24 crop	
Alabama Farm Bureau Cotton Association, Montgomery, Ala.	1922	21,853	0	57,407	65,314	\$8,200,000
Arizona Pima Cotton Growers', Phoenix, Ariz.	1921	1,285	10,700	10,249	7,950	1,800,000
Arkansas Cotton Growers' Cooperative Association, Little Rock, Ark.	1922	12,077	0	68,548	37,812	8,600,000
Arkansas Farmers Union Cotton Growers' Association, Little Rock, Ark.	1921	4,000			3,340	500,000
Georgia Cotton Growers' Cooperative Association, Atlanta, Ga.	1922	38,500	0	53,942	70,812	7,500,000
Louisiana Farm Bureau Cotton Growers Cooperative Association, Shreveport, La.	1923	5,501	0	0	29,885	0
Staple Cotton Cooperative Association, Greenwood, Miss.	1921	2,588	156,357	168,019	107,435	24,100,000
Mississippi Farm Bureau Cotton Association, Jackson, Miss.	1923	19,434	0	0	33,758	0
Missouri Cotton Growers' Cooperative Association, New Madrid, Mo.	1923	574	0	0	3,674	0
North Carolina Cotton Growers' Cooperative Association, Raleigh, N. C.	1922	35,000	0	135,912	130,853	18,000,000
Oklahoma Cotton Growers' Association, Oklahoma City, Okla.	1921	53,233	92,200	65,868	118,694	8,600,000
South Carolina Cotton Growers' Cooperative Association, Columbia, S. C.	1922	13,842	0	121,848	121,123	16,000,000
Tennessee Cotton Growers' Association, Memphis, Tenn.	1923	6,600	0	0	15,144	0
Texas Farm Bureau Cotton Association, Dallas, Tex.	1921	37,328	93,812	77,706	182,321	11,300,000
Total		251,815	353,069	759,499	928,115	104,600,000

TABLE 57.—Rice marketing associations, April, 1924

Association	Year organized	Number of members, 1924 ¹	Rice handled, 1922-23	Amount of sales, 1922-23
American Rice Growers' Association, Lake Charles, La.	1921	1,300	Pounds 232,763,518	\$4,764,830
Rice Growers' Association of California, Sacramento, Calif.	1921	² 600	180,000,000	4,219,582
Arkansas Rice Growers' Cooperative Association, Stuttgart, Ark.	1921	1,075	158,760,000	3,340,000
Louisiana Farm Bureau Rice Growers' Cooperative Association, Crowley, La.	1922	1,179	48,394,746	1,123,000
Total		4,154	619,918,264	13,447,412

¹ April, 1924.² Estimated.

TABLE 58.—Tobacco marketing associations, June, 1924

(Compiled from data obtained from associations)

Association	Year organized	Number of members, 1924 ¹	Tobacco handled, 1922-23	Amount of business, 1922-23	Tobacco handled, 1923-24
Burley Tobacco Growers Cooperative Association, Lexington, Ky.	1921	102,300	Pounds 196,978,673	\$41,000,000	Pounds 244,500,000
Dark Tobacco Growers Cooperative Association, Hopkinsville, Ky.	1922	² 70,200	175,000,000	25,700,000	173,571,342
Tobacco Growers Cooperative Association, Raleigh, N. C.	1922	² 95,000	163,000,000	40,000,000	180,000,000
Northern Wisconsin Cooperative Tobacco Pool (Inc.), Madison, Wis.	1922	7,635	30,630,692	9,000,000	25,000,000
Connecticut Valley Tobacco Association, Hartford, Conn.	1922	3,604	27,000,000	10,000,000	24,142,145
Maryland Tobacco Growers' Association, Baltimore, Md.	1920	4,862	9,500,000	2,160,000	14,700,675
Miami Valley Tobacco Growers' Association, Dayton, Ohio.	1923	4,901	0	0	25,000,000
Total		288,502	602,109,365	127,860,000	686,914,162

¹ April, 1924.² Estimated.

TABLE 59.—*Growers' associations handling wool, 1922 and 1923*

Name	Address	Year formed	Number of members, 1923	Pounds of wool		Amount of business	
				1922	1923	1922	1923
Illinois Agricultural Association (Wool Pool).	Chicago, Ill.	1919	766	147,000	198,000	\$58,800	\$81,180
Indiana Farm Bureau Federation (Wool Pool).	Indianapolis, Ind.	1921	2,000	240,000	398,000	90,240	168,433
Iowa Fleece Wool Growers' Association.	Bloomfield, Iowa.	1919	12,125	825,000	800,000	128,000	311,250
Kansas Sheep & Wool Growers' Cooperative Association.	Manhattan, Kans.	1921	1,180	55,000	72,567	24,700	27,700
Maine Sheep & Wool Growers' Association.	Augusta, Me.	1920	576	86,000	59,961	27,337	29,980
Michigan Wool Growers' Cooperative Marketing Association. ¹	Lansing, Mich.	1924	-----	330,000	420,000	145,000	190,000
New York State Sheep Growers' Association (Inc.).	Syracuse, N. Y.	1919	37 assns.	532,821	475,000	235,000	216,000
North Dakota Federation of Wool Growers' Association.	Fargo, N. Dak.	1920	700	160,000	415,000	75,000	180,000
Ohio Wool Growers' Cooperative Association.	Columbus, Ohio. .	1918	-----	2,750,000	3,743,962	1,210,000	1,933,207
Pacific Cooperative Wool Growers' Association.	Portland, Oreg.	1921	2,600	1,000,000	2,000,000	420,000	900,000
South Dakota Sheep & Wool Growers' Association.	Brookings, S. Dak.	1920	² 996	520,000	1,520,000	150,000	750,000
Tennessee Wool Sales (conducted annually under direction of specialists of State College of Agriculture), 32 sales 1923.	-----	1919	³ 1,586	135,877	248,308	51,475	118,932
Southwestern Farm Bureau Wool & Mohair Association.	Houston, Tex.	1921	600	295,007	225,000	146,114	95,000
Utah Wool Marketing Co.	Vernal, Utah.	1917	25	680,000	-----	200,000	250,000
Virginia Cooperative Sheep & Wool Growers' Association.	Richmond, Va.	1921	1,200	87,316	210,000	40,000	107,000
Campbell County Wool Growers' Association.	Gillette, Wyo.	1921	62	280,000	325,000	99,400	146,250
Northern California Wool Warehouse Co. ⁴	Red Bluff, Calif. .	1921	28	589,387	1,063,038	-----	-----
National Wool Warehouse & Storage Co. ⁵	Chicago, Ill.	1909	600	4,862,666	14,108,192	2,400,000	6,719,266
Total.	-----	-----	-----	13,576,074	26,282,028	5,501,066	12,224,198

¹ Wool clips of 1922 and 1923 handled through Michigan State Farm Bureau.² 535 shippers, 1923.³ Thirty-two sales for 1,586 farmers in 34 counties in 1923.⁴ Selling agency for wool growers in California.⁵ Selling agency for wool handled by the Illinois Agricultural Association, Iowa Fleece Wool Growers' Association, Kansas Sheep & Wool Growers' Cooperation Association, South Dakota Sheep & Wool Growers' Association, Montana Wool Growers' Association, Montana Wool Cooperative Marketing Association, Wyoming Wool Growers' Association, and Idaho Wool Marketing Committee.TABLE 60.—*Wool sold by Tennessee county wool pools, 1919-1923*

[Compiled from data obtained from Tennessee College of Agriculture]

Year	Number of counties	Wool sold	
		Pounds	Value
1919.	8	31,337	\$16,194
1920.	15	92,750	33,557
1921.	12	123,031	22,747
1922.	16	135,877	51,475
1923.	34	248,308	118,932

TABLE 61.—*Agricultural consumer cooperative associations, by membership groups, 1920*

[Source of data, Bureau of Labor Statistics, Bulletin 313]

Number of members	Number of associations	Per cent of total associations	Cumulative per cent
Under 100.....	93	34.4	34.4
100 and under 200.....	116	43.0	77.4
200 and under 300.....	34	12.6	90.0
300 and under 400.....	12	4.4	94.4
400 and under 500.....	5	1.9	96.3
500 and under 1,000.....	6	2.2	98.5
1,000 and under 2,000.....	2	.7	99.2
2,000 and under 5,000.....	1	.4	99.6
5,000 and over.....	1	.4	100.0
Total.....	270	100.0	

TABLE 62.—*Agricultural consumer cooperative associations, by length of time of operation, 1920*

[Source of data, Bureau of Labor Statistics, Bulletin 313]

Length of time in operation	Number of associations	Per cent of total	Length of time in operation	Number of associations	Per cent of total
1 month or more.....	278	100.0	4 years or more.....	151	54.3
1 year or more.....	244	87.8	5 years or more.....	124	44.6
2 years or more.....	211	75.9	10 years or more.....	24	8.6
3 years or more.....	177	63.7	25 years or more.....	5	1.8

TABLE 63.—*Publications issued by farmers' business associations, June, 1924*

Commodity associations	Number of periodicals	Commodity associations	Number of periodicals
Dairy products.....	20	Nuts.....	3
Fruit.....	13	Beans.....	2
Cotton.....	9	Peanuts.....	2
Grain.....	7	Rice.....	1
Poultry products.....	6	Wool.....	1
Potatoes.....	6	Miscellaneous.....	4
Tobacco.....	4		
Livestock.....	4	Total.....	82

TABLE 64.—*Associations which ceased to operate, by geographic divisions, 1900–1923*

Geographic division	Number of associations reporting	Per cent	Geographic division	Number of associations reporting	Per cent
West North Central.....	258	33.5	Middle Atlantic.....	40	5.2
East North Central.....	158	20.5	South Atlantic.....	40	5.2
Mountain.....	79	10.2	East South Central.....	36	4.7
Pacific.....	59	7.7			
West South Central.....	57	7.4			
New England.....	43	5.6	United States.....	770	100.0

TABLE 65.—Associations which ceased to operate, by leading States, 1900-1923

State	Number of associations	Per cent of 770 ¹	State	Number of associations	Per cent of 770 ¹
Minnesota.....	87	11.3	California.....	30	3.9
Wisconsin.....	63	8.2	Illinois.....	28	3.6
North Dakota.....	45	5.8	Maine.....	26	3.4
Iowa.....	36	4.7	Michigan.....	26	3.4
Kansas.....	32	4.2	All others.....	335	43.5
Montana.....	31	4.0	Total.....	770	100.0
Nebraska.....	31	4.0			

¹ Number reporting.

TABLE 66.—Associations which ceased to operate, by kinds, 1900-1923

Type of association	Number of associations	Per cent	Cumulative per cent
Selling:			
Grain.....	171	22.2	22.2
Dairy products.....	203	26.4	48.6
Livestock.....	45	5.8	54.4
Fruits and vegetables.....	116	15.1	69.5
Wool and mohair.....	8	1.0	70.5
Cotton and cotton products.....	19	2.5	73.0
Nuts.....	0	.0	73.0
Poultry and poultry products.....	5	.7	73.7
Forage crops.....	4	.5	74.2
Tobacco.....	0	.0	74.2
Miscellaneous selling.....	67	8.7	82.9
Buying:			
Merchandise (farmers' stores).....	78	10.1	93.0
Miscellaneous buying.....	54	7.0	100.0
Total.....	770	100.0	-----

TABLE 67.—Number of years active for associations which ceased to operate, 1900-1923

Years in business	Number of associations	Per cent reporting	Cumulative per cent
Less than 1 year.....	73	7.9	7.9
1 to 2 years.....	126	13.6	21.5
2 to 3 years.....	145	15.6	37.1
3 to 4 years.....	116	12.5	49.6
4 to 5 years.....	93	10.0	59.6
5 to 6 years.....	81	8.7	68.3
6 to 7 years.....	41	4.4	72.7
7 to 8 years.....	38	4.1	76.8
8 to 9 years.....	30	3.2	80.0
9 to 10 years.....	21	2.3	82.3
10 to 11 years.....	37	4.0	86.3
11 to 14 years.....	52	5.6	91.9
15 to 19 years.....	35	3.8	95.7
20 to 24 years.....	24	2.6	98.3
25 to 29 years.....	8	.9	99.2
30 years and over.....	7	.8	100.0
Total.....	927	100.0	-----

TABLE 68.—Associations which ceased to operate, by amount of business for last year active, 1900-1923

Amount of business	Number of associations	Per cent reporting	Cumulative per cent
Less than \$25,000	292	48.0	48.0
\$25,000 to \$49,000	103	17.0	65.0
\$50,000 to \$99,000	87	14.3	79.3
\$100,000 to \$199,000	74	12.2	91.5
\$200,000 to \$299,000	31	5.1	96.6
\$300,000 to \$399,000	6	1.0	97.6
\$400,000 to \$499,000	2	.3	97.9
\$500,000 and over	13	2.1	100.0
Total	608	100.0	

TABLE 69.—Associations which ceased to operate, by years, 1900-1923

Year	Number	Year	Number	Year	Number	Year	Number
1900	2	1907	2	1914	59	1921	153
1901		1908	7	1915	71	1922	132
1902	3	1909	7	1916	63	1923	72
1903	1	1910	15	1917	39		
1904		1911	17	1918	63	Total	970
1905		1912	31	1919	65		
1906	2	1913	56	1920	110		

TABLE 70.—Number of associations reporting reasons for ceasing to operate, 1900-1923

Reason given	Number of times	Reason given	Number of times
Inefficient management	558	Inadequate accounting system	114
Lack of interest	556	Lack of proper audit	103
Insufficient business	326	Dishonest management	100
Insufficient working capital	282	Capital stock falling into hands of too few	32
Insufficient membership	222	Property damaged by fire	12
Too liberal credit	187		

TABLE 71.—California Fruit Growers Exchange, Los Angeles, Calif., 1913-1923

Year	Cars shipped	Per cent of total shipments from State	F. o. b. value	Boxes shipped		
				Oranges and grapefruit	Lemons	Total
1913	12,443	61.5	\$13,500,000			4,940,068
1914	28,186	61.9	19,246,757			11,264,185
1915	29,805	62.5	19,537,850	9,648,283	2,241,553	11,889,836
1916	29,823	67.0	27,703,000	9,694,288	2,407,232	12,101,520
1917	36,218	69.0	33,611,000	12,835,804	2,656,536	15,492,340
1918	19,248	76.0	36,422,200	6,452,896	2,191,281	8,644,177
1919	33,174	72.3	55,000,000	11,126,985	3,728,110	14,855,095
1920	34,461	73.7	59,221,329	12,371,230	3,452,534	15,823,764
1921 ¹	43,592	72.5	61,080,003	15,390,105	4,175,239	19,565,344
1922	27,138	68.7	48,647,800	8,121,080	3,496,223	11,617,303
1923	45,258	75.8	55,223,450	14,645,070	3,212,347	17,857,417

¹ Previous to 1921 the fiscal year ended Aug. 31. Beginning with 1921 date was changed to Oct. 31.² Basis of 400 boxes to a car.

Wool-Marketing Associations in Leading States, 1924

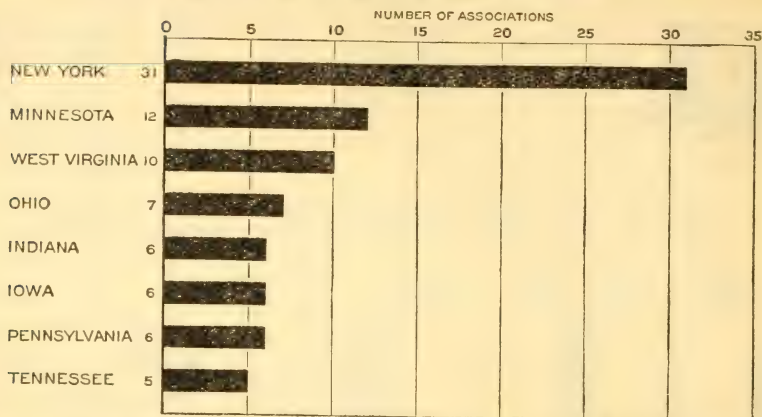


FIG. 34.—Although more than twice as many reports were received from wool-marketing associations in New York State as from any other State, the quantity of wool handled is less than that reported by single associations in several of the other States. (See Table 15.)

Associations Engaged in Handling Merchandise, March, 1934

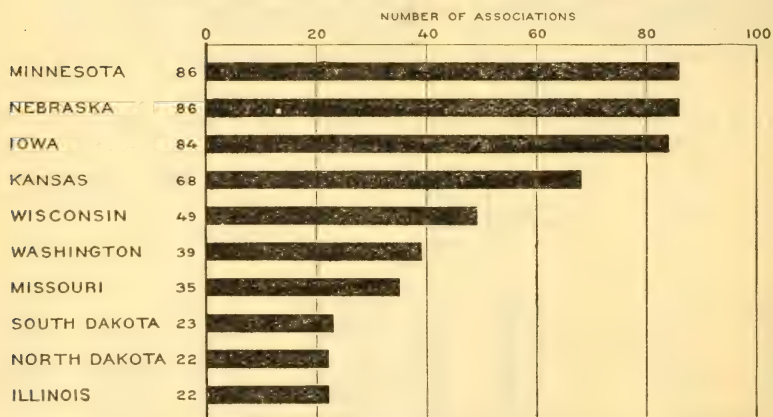


FIG. 35.—A total of 717 associations reported as engaged in handling commodities at retail. Most of these associations were operating cooperative stores and handling general merchandise, a few were buying only special lines of goods, as fertilizers, dairy feeds, etc. An equal number of reports were received from Minnesota and Nebraska. (See Table 17.)

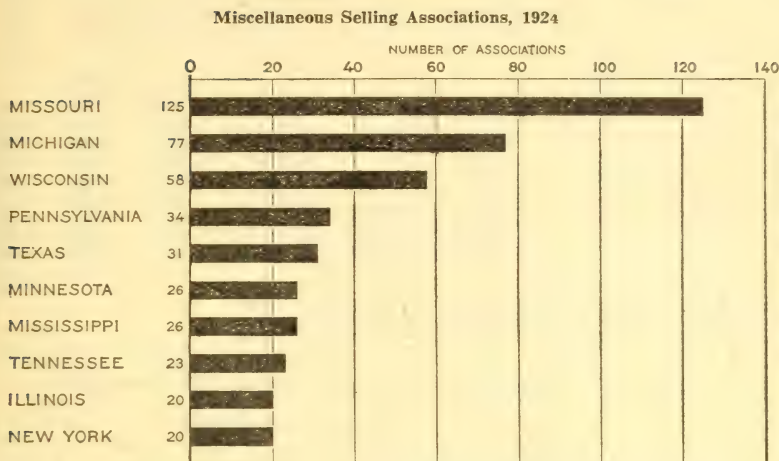


FIG. 36.—More than 700 marketing organizations which could not be included in any of the commodity groups have been grouped together as miscellaneous selling associations. Some of these sell but a single product, honey for instance, whereas others undertake to market any and all products which their members may deliver. (See Table 16.)

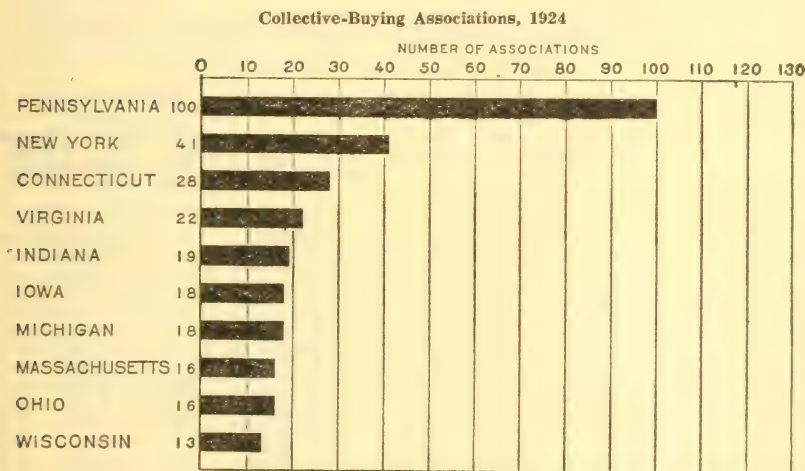


FIG. 37.—Four hundred and thirty of the 10,160 associations reporting were engaged in buying supplies for their members. One hundred of the total number were in Pennsylvania. (See Table 18.)

TABLE 72.—*Sun-Maid Raisin Growers, Fresno, Calif., 1912-1922*

[Data obtained from association]

Year	Tons handled	Gross sales	Received by growers	Per cent of gross sales to growers	Price per pound to growers	Advertising expenditures
					<i>Cents</i>	
1912.....	24,512	\$2,106,450	\$1,499,470	71.2	3.059	-----
1913.....	59,228	6,187,117	4,275,743	69.1	3.609	-----
1914.....	73,635	8,414,660	5,244,725	62.3	3.561	\$120,803
1915.....	98,405	11,969,494	7,370,808	61.6	3.846	240,035
1916.....	107,039	13,595,227	10,252,597	75.4	4.793	219,592
1917.....	127,212	16,685,244	13,992,787	83.9	5.499	287,000
1918.....	149,713	23,200,184	15,530,045	66.9	5.520	291,756
1919.....	159,262	43,280,254	36,345,138	84.0	11.410	374,147
1920.....	152,497	¹ 44,293,287	38,416,827	86.7	12.695	1,261,342
1921.....	123,665	² 38,634,053	25,395,730	65.7	7.280	2,139,567
1922.....	204,630	³ 30,830,087	13,151,954	42.7	3.214	2,399,704

¹ Including fruit valued at \$5,724,360 carried over into the next season.² Including fruit valued at \$3,214,328 carried over into the next season.³ Including fruit valued at \$4,413,552 carried over into the next season.TABLE 73.—*Florida Citrus Exchange, Tampa, Fla., 1909-1923*

[Compiled from data obtained from Association]

Season	Boxes shipped	Amount of business	Season	Boxes shipped	Amount of business
1909-10.....	1,482,359	\$1,986,361	1916-17.....	1,289,984	\$2,592,867
1910-11.....	832,310	1,373,311	1917-18.....	1,184,711	4,099,100
1911-12.....	741,917	1,639,636	1918-19.....	2,238,084	7,878,055
1912-13.....	1,780,301	3,489,389	1919-20.....	3,770,511	12,706,622
1913-14.....	1,481,471	2,711,091	1920-21.....	3,905,841	10,350,478
1914-15.....	1,945,602	2,762,754	1921-22.....	3,805,942	12,064,836
1915-16.....	1,735,422	3,401,427	1922-23.....	5,205,910	13,823,676

TABLE 74.—*American Cranberry Exchange, New York City, 1909-1923*

[Compiled from data obtained from exchange]

Year	Total crop	Per cent of total shipped by exchange	Average price Cranberry Exchange	Expense of exchange ¹
	<i>Barrels</i>		<i>Per barrel</i>	<i>Per cent</i>
1909.....	568,000	-----	\$5.15	-----
1910.....	544,000	-----	5.63	-----
1911.....	446,000	-----	-----	-----
1912.....	457,000	-----	-----	-----
1913.....	470,000	-----	-----	-----
1914.....	638,000	-----	3.97	-----
1915.....	454,000	-----	-----	-----
1916.....	545,000	-----	6.50	-----
1917.....	276,000	56.0	10.40	-----
1918.....	352,000	59.6	8.89	-----
1919.....	562,000	59.5	7.86	4.702
1920.....	440,000	64.0	10.39	4.39
1921.....	371,000	66.0	13.54	4.085
1922.....	565,000	66.0	10.33	4.35
1923.....	625,000	63.0	7.95	5.057

¹ Per cent of selling price at shipping point.

TABLE 75.—*South Jersey Farmers' Exchange, Woodstown, N. J., 1909-1923*

[Compiled from reports of exchange]

Year	Capital stock outstanding	Amount of business	Profits carried to surplus
1909.....	\$11,050	\$363,249	\$5,233
1910.....	26,330	445,092	4,438
1911.....	26,330	877,883	11,902
1912.....	26,805	734,746	17,801
1913.....	28,410	703,220	15,016
1914.....	28,470	750,085	15,895
1915.....	28,470	746,686	14,123
1916.....	28,470	1,087,347	29,737
1917.....	28,470	1,602,588	45,970
1918.....	62,305	1,750,539	18,493
1919.....	62,305	2,073,687	30,576
1920.....	125,000	2,844,833	20,037
1921.....	125,000	1,961,004	15,966
1922.....	250,000	1,677,954	22,554
1923.....	250,000	1,553,614	23,281

TABLE 76.—*Spokane Valley Growers Union, Opportunity, Wash., 1912-1921*

[Compiled from data obtained from union]

Year	Total number packed boxes	Total money received	Average gross price received	Total union expense	Cost of boxes	Net to grower
1912.....	24,512	\$17,500	\$0.71	\$0.239	\$0.1025	\$0.3685
1913.....	11,272	15,155	1.34	.225	.09	1.025
1914.....	26,332	16,062	.61	.32	.0875	.2025
1915.....	23,064	22,192	.96	.32	.095	.545
1916.....	70,619	65,675	.93	.28	.09	.56
1917.....	56,867	65,355	1.15	.35	.13	.67
1918.....	74,767	104,626	1.40	.30	.155	.945
1919.....	193,374	372,160	1.92	.40	.16	1.36
1920.....	205,007	282,257	1.38	.485	.26	.645
1921.....	168,669	271,388	1.71	.3975	.16	1.1525
Ten-year average.....			1.212	.3316	.133	.8474

TABLE 77.—*Beaufort Truck Growers Association, Beaufort, S. C., 1915-1922*

[Compiled from data obtained from association]

Year	Number of packages	Gross Sales	Operating expense	Per cent of gross sales
1915.....	191,725	\$301,276	\$4,805	1.6
1916.....	135,551	290,608	5,576	1.9
1917.....	106,530	557,813	5,678	1.0
1918.....	160,709	450,584	8,413	1.9
1919.....	132,007	393,386	8,725	2.2
1920.....	218,626	949,112	10,856	1.1
1921.....	338,654	811,812	18,715	2.3
1922.....	312,644	802,143	25,873	3.2

TABLE 78.—*Door County Fruit Growers Union, Sturgeon Bay, Wis., 1916-1923*

[Compiled from reports of union]

Year	Crates of cherries	Total packages of fruit	Growers' supplies sold	Fruit sales	Total business
1916	31,371	43,832			
1917	104,758	117,174			
1918	32,792	39,625			
1919	205,453	210,211	\$38,916	\$557,882	\$607,483
1920	188,080	211,469	77,762	551,149	629,299
1921	344,695	380,545	101,014	977,999	1,089,201
1922	425,517	495,699	140,694	896,738	1,048,597
1923	238,224	330,686	117,743	434,795	578,494

TABLE 79.—*Eastern Shore of Virginia Produce Exchange, Onley, Va., 1906-1923*

[Compiled from data obtained from exchange]

Year	Packages handled	Total sales	Expenses	Per cent expense of sales	Profit or loss	Patronage dividend	Balance in surplus account Dec. 31
1906	1,043,912	\$1,647,414					
1907	1,091,232	2,085,945					
1908	1,325,523	2,489,573					
1909	1,435,382	2,227,791					
1910	2,031,091	2,474,451					
1911	992,188	2,798,616					
1912	1,858,018	3,583,735					
1913	2,850,722	4,643,802					
1914	2,489,955	5,893,942	\$233,180	4.0	+\$93,225	\$46,612	\$155,098
1915	2,995,151	3,395,082	197,384	5.8	-18,169	None.	136,948
1916	3,122,970	6,971,786	272,319	3.9	+113,043	56,521	193,550
1917	2,852,150	10,832,571	356,946	3.3	+81,767	45,178	230,189
1918	1,884,795	8,690,426	269,990	3.1	+32,756	21,628	241,317
1919	2,932,327	13,081,545	303,601	2.3	+107,162	61,127	294,672
1920	2,937,784	19,269,890	555,929	2.9	-19,710	None.	247,085
1921	2,853,142	9,156,972	382,786	4.2	+48,746	43,276	246,814
1922	3,212,150	9,199,925	364,641	4.0	+56,755	38,618	265,013
1923	2,808,256	11,638,801	389,455	3.3	+45,969	31,912	276,304

TABLE 80.—*Michigan Potato Growers Exchange, Cadillac, Mich., 1918-1924*

[Compiled from annual reports of exchange]

Year	Number of affiliated locals	Cars of potatoes	Total cars	Gross sales	Operating expense	Average operating expense per car
First (1918-19)	52	2,118	2,227	\$1,800,000	\$50,485	\$22.67
Second (1919-20)	97	2,158	¹ 3,085	4,815,000	95,716	31.03
Third (1920-21)	119	3,250	² 3,622		116,121	32.06
Fourth (1921-22)	128	2,439	³ 2,520	1,777,800	74,893	29.72
Fifth (1922-23)	109	2,922		1,097,900		
Sixth (1923-24)	104	3,122		1,850,121		

¹ Apples, 342 cars; hay, 174 cars; cabbage, 113 cars; etc.² Rye, 120 cars; hay, 69 cars; apples, 56 cars; etc.³ Apples, 38 cars; celery, 19 cars; rye, 14 cars; etc.

TABLE 81.—*Turner Centre System, Auburn, Me., 1900-1923*

[Compiled from annual reports of association]

Year	Receipts from all sources ¹	Carried to surplus ²	Butter fat paid for	Total expenses ³	Receipts from milk, cream, and eggs	Paid patrons for milk, cream, and eggs	Per cent of receipts paid patrons
			<i>Pounds.</i>				
1900.....	\$543,599	\$2,359					
1901.....	640,187	249					
1902.....	674,342	5,134					
1903.....	777,318	4,227					
1904.....	785,940	6,292					
1905.....	926,029	5,821					
1906.....	1,061,948	5,845					
1907.....	1,290,847	1,689					
1908.....	1,229,013	3,551					
1909.....	1,216,200	9,803					
1910.....	1,650,434	6,318					
1911.....	1,529,787	12,763					
1912.....	1,664,039	18,795					
1913.....	2,056,545	23,201	3,065,005				
1914.....	2,236,083	25,081	3,739,417	\$262,768	\$1,859,400	\$1,577,568	84.8
1915.....	2,638,104	14,843	4,248,378	308,556	2,043,763	1,731,777	84.7
1916.....	3,057,339	35,038	4,540,809	417,162	2,295,105	1,893,949	82.5
1917.....	3,468,987	36,750	4,500,363	487,519	2,618,086	2,126,417	81.2
1918.....	4,759,814	23,596	4,061,892	603,320	3,201,411	2,580,481	80.6
1919.....	5,605,113	24,229	4,132,587	759,391	4,310,455	3,542,529	82.2
1920.....	6,695,476	4,905	4,684,213	985,735	4,976,697	4,055,628	81.5
1921.....	4,735,274	94,141	4,229,370	1,932,281	5,599,314	3,737,594	66.8
1922.....	4,182,202	99,287	3,816,315	1,538,598	4,236,116	2,646,543	62.5
1923.....	5,334,480	61,855	3,606,203	1,421,027	3,439,104	1,980,454	57.6
			4,117,924	1,655,255	4,307,457	2,617,231	60.8

¹ Annual income 1900-1914, taken from 1914 report.² Surplus, 1900-1920, taken from 1922 report.³ Including bonus to employees.⁴ Including bonus to patrons.

⁵ During recent years the dairy products marketed by the company have been carried a little farther on the road leading to the consumers than formerly. Because of this fact additional services have been rendered, additional expenses incurred, and an increased price charged for the products sold. It is obvious that the producer can not receive so large a percentage of the price paid by the retail establishments as that paid by wholesale. The figures in the above table indicating per cent for the years since 1920 are not comparable with those for the preceding years.

⁶ Excluding unexpended patrons' bonus, \$14,840.TABLE 82.—*Twin City Milk Producers Association, St. Paul, Minn., 1918-1923*

[Compiled from reports of association]

Year	Total sales	Milk	Cream	Butter	Cheese
		<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
1918.....	\$2,103,183	72,598,801	912,986	168,557	951,648
1919.....	3,113,408	88,217,181	1,298,834	371,128	1,734,298
1920.....	3,410,943	97,303,379	2,098,150	743,024	664,710
1921.....	3,796,807	147,031,313	2,262,668	1,705,593	1,260,749
1922.....	4,313,275	161,502,871	3,480,503	1,868,334	811,860
1923 ¹	4,810,274	161,308,422	3,547,806	1,973,970	828,074

¹ Nine months only.TABLE 83.—*Wisconsin Cheese Producers' Federation, Plymouth, Wis., 1914-1923*

[Data from reports of federation]

Year	Number of factories	Cheese handled	Value of cheese handled	Average price per pound to factories	Year	Number of factories	Cheese handled	Value of cheese handled	Average price per pound to factories
		<i>Pounds</i>		<i>Cents</i>			<i>Pounds</i>		<i>Cents</i>
1914.....	45	6,125,480	\$875,941	13.96	1919.....	120	14,098,021	\$4,341,057	30.10
1915.....	43	7,558,796	1,144,146	14.70	1920.....	125	13,982,817	3,736,234	25.71
1916.....	45	7,490,020	1,332,497	17.13	1921.....	140	15,564,414	2,968,768	18.02
1917.....	56	8,981,308	2,193,515	23.53	1922.....	175	18,873,496	4,025,408	19.23
1918.....	63	8,522,509	2,327,756	26.24	1923.....	-----	24,602,795	5,959,416	22.62

TABLE 84.—*Tillamook County Creamery Association, Tillamook, Oreg., 1909-1923*

[Compiled from data obtained from association]

Year	Milk handled	Cheese made	Cheese sales	Average price received per pound	Average cost of making per pound	Average price paid for milk
	<i>Pounds</i>	<i>Pounds</i>		<i>Cents</i>	<i>Cents</i>	<i>100 pounds</i>
1909.....	23,416,524	2,541,057	\$400,044			
1910.....	23,639,644	2,506,612	386,135			
1911.....	24,131,802	2,619,229	358,206			
1912.....	29,139,514	3,211,004	524,718			
1913.....	31,566,888	3,505,516	541,748			
1914.....	33,202,516	3,694,458	568,395			
1915.....	36,577,206	4,043,875	557,596	13.79	¹ 1.75	
1916.....	38,603,101	4,335,817	726,911	16.76	¹ 1.75	\$1.635
1917.....	44,901,303	4,974,328	² 1,188,052	23.52	2.311	2.44
1918.....	45,100,156	5,036,900	² 1,352,694	26.36	2.685	2.66
1919.....	53,522,289	6,091,259	² 2,007,500	32.40	3.437	3.31
1920.....	56,749,190	6,436,600	² 1,937,956	29.63	4.137	2.935
1921.....	59,952,123	6,722,893	² 1,576,991	23.06		
1922.....	59,430,293	6,615,957	² 1,741,418	25.79	4.002	2.484
1923.....	63,877,049	7,113,076	1,884,689	26.50		2.56

¹ Estimate.² Cheese, cream, butter, market milk.TABLE 85.—*Barron Cooperative Creamery Co., Barron, Wis., 1902-1922*

[Compiled from annual reports of creamery]

Year	Butter made	Amount received for butter	Paid patrons for butterfat	Percentage of returns paid for butterfat	Year	Butter made	Amount received for butter	Paid patrons for butterfat	Percentage of returns paid for butterfat
	<i>Pounds</i>					<i>Pounds</i>			
1902.....	70,416	\$14,593	\$13,383	91.7	1913.....	993,069	\$282,943	\$260,244	92.0
1903.....	166,081	34,193	30,938	90.5	1914.....	1,112,380	318,755	295,031	92.6
1904.....	320,149	62,807	54,511	86.8	1915.....	1,319,200	364,203	334,601	91.9
1905.....	509,925	109,649	97,656	89.1	1916.....	1,398,820	445,180	417,447	93.8
1906.....	668,256	148,880	134,435	90.3	1917.....	1,351,786	552,477	524,472	94.9
1907.....	679,448	174,070	157,517	90.5	1918.....	1,501,154	718,238	673,708	93.8
1908.....	642,697	157,240	140,505	89.4	1919.....	1,623,562	930,834	885,750	95.2
1909.....	637,610	173,256	158,182	91.3	1920.....	1,805,694	1,044,617	977,550	93.6
1910.....	634,238	177,485	163,491	92.1	1921.....	2,187,765	869,075	787,639	90.6
1911.....	665,348	167,943	152,962	91.1	1922.....	2,507,309	970,826	907,843	93.5
1912.....	666,556	229,832	212,238	92.3					

TABLE 86.—*Farmers Union Live Stock Commission, Omaha, Nebr., 1921-1923*

[Data obtained from association]

Year	Cattle		Hogs		Sheep		Total		Com-mis-sions collected	Oper-ating ex-penses	Average oper-ating ex-penses	Savings	
	Cars	Head	Cars	Head	Cars	Head	Cars	Head				Amount	Per cent
1921..	2,079	55,840	5,442	374,138	132	20,409	7,653	450,387	\$137,252	\$46,707	\$6.13	\$90,545	65.9
1922..	2,031	54,897	5,511	306,659	92	15,182	7,634	436,738	128,482	43,104	5.63	85,378	67.3
1923..	2,022	53,535	7,861	544,278	296	26,520	10,179	624,333	159,790	48,396	4.75	111,394	71.2

TABLE 87.—*Litchfield Livestock Shipping Association,¹ Litchfield, Minn., 1908–1923*

[Compiled from annual reports of association]

Year	Cars	Gross receipts	Returns to farmers	Per-centage	Year	Cars	Gross receipts	Returns to farmers	Per-centage
1908	14	\$11,599			1916	184	\$284,379		
1909	35	39,569			1917	175	389,610	\$377,005	96.8
1910	81	102,163			1918	208	552,775	535,496	96.9
1911	104	114,764			1919	217	625,930	606,432	96.9
1912	146	181,544			1920	210	436,545	417,462	95.6
1913	153	218,116			1921	185	272,805	253,115	92.8
1914	173	256,044			1922	194	298,853	280,789	94.0
1915	172	216,518			1923	236	294,276	272,966	92.8

¹ A typical local livestock shipping association.TABLE 88.—*Adams County Shippers' Association,¹ Quincy, Ill., 1919–1923*

[Data obtained from association]

Year	Number of cars	Number of shippers	Head of live-stock	Amount received	Local charges	Net to producers
1919 ²	101	439	7,679	\$211,640	\$1,409	\$210,231
1920	610	3,335	44,529	1,200,967	12,637	1,187,430
1921	795	4,946	59,775	1,012,051	14,535	997,516
1922	633	4,282	47,230	909,379	12,102	897,277
1923	689	4,360	53,247	836,425	13,943	822,481

¹ A typical county livestock shipping association.² September, October, November, and December.TABLE 89.—*California Farm Bureau Marketing Association, Bakersfield, Calif., 1919–1923*

[Compiled from data obtained from association]

Year ending Oct. 1	Number of auction sales	Number of hogs	Amount of sales
1919	139	39,388	\$1,316,072
1920	195	51,849	1,467,834
1921	181	44,783	940,256
1922	184	43,204	754,247
1923		48,721	716,960

TABLE 90.—*Poultry Producers of Central California, Inc., San Francisco, Calif., 1917–1922*

[Compiled from reports of association]

Year	Number of stock-holders	Cases of eggs handled	Receipts from sales	Net returns to members	Per cent returns of receipts
1917		213,532	\$2,382,444	\$2,170,626	91.1
1918	1,000	270,313	3,712,523	3,425,717	92.3
1919 ¹	1,201	228,677	3,055,337	2,814,737	92.1
1920	2,193	460,303	6,939,542		
1921	2,839	662,598	6,905,802		
1922	3,159	618,475	² 5,730,000		

¹ Report covers seven months only.² Estimated.

TABLE 91.—*Washington Cooperative Egg and Poultry Association, Seattle, Wash., 1918-1922*

[Data from reports of association]

Year	Number of members	Cases of eggs handled	Operating expenses	Net returns to members for eggs	Average net price	
					Per case	Per dozen
			Per dozen			
1918		4,000				
1919		32,716	\$0.016	\$519,476	\$16.56	\$0.552
1920	1,196	85,060	.0153	1,323,308	15.56	.518
1921	2,371	200,287	.0242	1,985,552	10.105	.333
1922	2,800	266,284	.0238	2,229,319		.2791

TABLE 92.—*Staple Cotton Cooperative Association, Greenwood, Miss., April 1, 1922-1924*

Year	Number of bales received	Number of bales sold	Number of bales unsold	Amount distributed to growers	Distribution per pound
					Cents
1922	156,264	101,625	54,639	\$13,648,649	17.47
1923	167,418	114,711	52,707	18,136,062	21.39
1924	107,338	64,662	42,676	13,875,082	25.96

TABLE 93.—*Fruit Growers Supply Co., Los Angeles, Calif., 1916-1923*

Year	Amount of business	Patronage dividends	Per cent	Year	Amount of business	Patronage dividends	Per cent
1916 ¹	\$4,092,865	\$159,064	3.9	1920 ¹	\$9,837,073	\$257,459	2.6
1917 ¹	5,759,080	146,902	2.6	1921 ²	13,708,556	2,171,249	15.8
1918 ¹	4,281,969	134,872	3.1	1922 ²	10,216,544	20,589	.2
1919 ¹	7,337,666	531,689	7.2	1923 ²	11,339,444	56,461	.5

¹ Fiscal year ending Aug. 31.² Fiscal year ending Dec. 31.³ Fiscal year ending Oct. 31.⁴ Partially paid in capital stock.TABLE 94.—*Eastern States Farmers' Exchange, Springfield, Mass., 1918-1923*

[Compiled from data obtained from exchange]

Year	Tons handled	Amount of business	Year	Tons handled	Amount of business
1918	4,290	\$197,287	1921	37,885	\$1,567,061
1919	15,196	967,224	1922	51,318	2,020,691
1920	31,808	1,612,009	1923	97,536	4,651,508

TABLE 95.—*River Falls Cooperative Laundry Co., River Falls, Wis., 1921-1923*

[Compiled from data obtained from company]

Year	Capital stock	Real estate, buildings, and equipment	Amount of business	Salaries	Wages	Net gain	Reserve fund
1921	\$8,490	\$10,300	\$13,570	\$500	\$7,798	\$382	\$1,233
1922	8,490	10,214	13,227	450	6,883	1,393	182
1923	8,540	10,900	16,426	600	7,861	801	551

FRUIT AND VEGETABLE ASSOCIATIONS

Table No.	Page
48. Fruit and vegetable associations by geographic divisions, 1923	56
49. Fruit and vegetable associations by States, 1923	56
50. Quantity and value of fruits and vegetables by products handled cooperatively, 1922	57
51. Federations and associations selling citrus fruits, 1922	57
52. Fruit and vegetable associations reporting amount of business in 1913 compared with 1921 and 1922	58

ASSOCIATIONS HANDLING LIVESTOCK

53. Livestock marketing associations reporting amount of business, by leading States, 1923	59
54. Terminal livestock selling agencies, by cities, 1924	59
55. Terminal livestock selling agencies, by associations, 1924	62

COTTON, RICE, TOBACCO, AND WOOL ASSOCIATIONS

56. State and regional cotton marketing associations, June, 1924	63
57. Rice marketing associations, April, 1924	63
58. Tobacco marketing associations, June, 1924	63
59. Growers associations handling wool, 1922 and 1923	64
60. Wool sold by Tennessee county wool pools, 1919-1923	64

AGRICULTURAL CONSUMER COOPERATION

61. Agricultural consumer cooperative associations by membership groups, 1920	65
62. Agricultural consumer cooperative associations, by length of time of operation, 1920	65
63. Publications issued by farmers' business associations, June, 1924	65

ASSOCIATIONS "OUT OF BUSINESS"

64. Associations which ceased to operate, by geographic divisions, 1900-1923	65
65. Associations which ceased to operate, by leading States, 1900-1923	66
66. Associations which ceased to operate, by kinds, 1900-1923	66
67. Number of years active for associations which ceased to operate, 1900-1923	66
68. Associations which ceased to operate, by amount of business for the last year active, 1900-1923	67
69. Associations which ceased to operate, by years, 1900-1923	67
70. Number of associations reporting reasons for ceasing to operate, 1900-1923	67

SPECIFIC ASSOCIATIONS

71. California Fruit Growers Exchange, Los Angeles, Calif., 1913-1923	67
72. Sun-Maid Raisin Growers, Fresno, Calif., 1912-1922	70
73. Florida Citrus Exchange, Tampa, Fla., 1909-1923	70
74. American Cranberry Exchange, New York City, 1909-1923	70
75. South Jersey Farmers' Exchange, Woodstown, N. J., 1909-1923	71
76. Spokane Valley Growers Union, Opportunity, Wash., 1912-1921	71
77. Beaufort Truck Growers Association, Beaufort, S. C., 1915-1922	71
78. Door County Fruit Growers Union, Sturgeon Bay, Wis., 1916-1923	72
79. Eastern Shore of Virginia Produce Exchange, Onley, Va., 1906-1923	72
80. Michigan Potato Growers Exchange, Cadillac, Mich., 1918-1924	72
81. Turner Centre System, Auburn, Me., 1900-1923	73
82. Twin City Milk Producers Association, St. Paul, Minn., 1918-1923	73
83. Wisconsin Cheese Producers' Federation, Plymouth, Wis., 1914-1923	73
84. Tillamook County Creamery Association, Tillamook, Oreg., 1909-1923	74
85. Barron Cooperative Creamery Co., Barron, Wis., 1902-1922	74
86. Farmers Union Livestock Commission, Omaha, Nebr., 1921-1923	74
87. Litchfield Livestock Shipping Association, Litchfield, Minn., 1908-1923	75
88. Adams County Shippers' Association, Quincy, Ill., 1919-1923	75
89. California Farm Bureau Marketing Association, Bakersfield, Calif., 1919-1923	75
90. Poultry Producers of Central California, Inc., San Francisco, Calif., 1917-1922	75
91. Washington Cooperative Egg and Poultry Association, Seattle, Wash., 1918-1922	76
92. Staple Cotton Cooperative Association, Greenwood, Miss., 1922-1924	76
93. Fruit Growers Supply Co., Los Angeles, Calif., 1916-1923	76
94. Eastern States Farmers' Exchange, Springfield, Mass., 1918-1923	76
95. River Falls Cooperative Laundry Co., River Falls, Wis., 1921-1923	76

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