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Changes in Farm and Farm-Related Employment, 1975-89

T. Alexander Majchrowicz
Jacqueline Salsgiver

MAJCHROWICZ
SALSGIVER

In this report... Farm and farm-related employment rose by 5.1 million jobs during 1975-89, but most of the growth was in off-farm agricultural wholesale and retail trade (fig. 1). Production jobs on the farm dropped by 780,000. Farm production jobs continued their long-term decline, as new technology replaced labor, and periods of unfavorable farm economic conditions induced farmers to leave farming. Farm production accounted for less than 14 percent (3.2 million in 1989) of the 23 million U.S. farm and farm-related jobs, which include businesses that provide farm inputs and process or sell agricultural goods. Employment in wholesale and retail trade of agricultural products rose to account for more than 50 percent of total farm and farm-related employment.

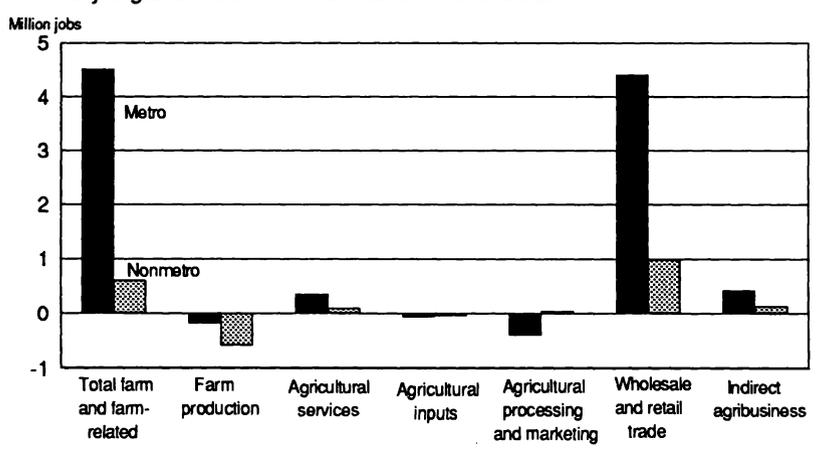
The number of farm and farm-related jobs grew by 28 percent in 1975-89, yet accounted for a declining share of all U.S. jobs, 17.3 percent in 1989, down from 19.5 percent in 1975. Farm and farm-related jobs were concentrated in urban areas because of the large number of agricultural wholesale and retail jobs that serve consumer markets. Industries with upstream linkages to farming (agricultural inputs and services) and those linked downstream (processing and marketing, agricultural

wholesale and retail trade, and indirect agribusiness) provided about 86 percent of farm and farm-related jobs.

The Northeast, Pacific, and Corn Belt regions, areas with large populations, had the greatest number of farm and farm-related jobs. California, the most populous State, provided almost 11 percent of all farm and farm-related jobs in the Nation. However, the economic importance of agricultural jobs varies by State. California's 2.5 million farm and farm-related jobs accounted for only about 16 percent of that State's employment, while Iowa's 431,000 agricultural jobs provided over 27 percent of total State employment, the highest in the Nation.

Agricultural wholesale and retail trade industries provided most of the farm and farm-related jobs in all States except North and South Dakota, where farm production accounted for 43-45 percent of these jobs. Chemical and fertilizer mining made Wyoming the most reliant of all States on agricultural input industries, which provided over 8 percent of the State's farm and farm-related jobs. Apparel and textile manufacturing drives North Carolina's agricultural processing and marketing industries, which provided over 36 percent of farm and farm-related jobs in that State.

Figure 1
Change in farm and farm-related employment, 1975-89
Most job gains were off the farm and in metro areas.



More than One in Six U.S. Jobs Linked to Agriculture

Most U.S. agricultural jobs are off the farm in industries that process farm products or sell them to consumers.

The U.S. agricultural sector provided 23.2 million jobs, 17.3 percent of total U.S. employment, in 1989. The sector includes industries that not only produce crops and livestock but also those that supply farm inputs, process and market farm products, and sell goods to consumers. Agricultural wholesale and retail trade accounted for over half of U.S. farm and farm-related employment (fig. 2). These industries' 13 million jobs, although peripheral to farming, link the flow of goods from farmers to consumers. Because of this linkage, over 80 percent of agricultural wholesale and retail trade jobs were in metro areas with large consumer markets (app. table 7).

Farm production employment, the total of farm proprietors and wage and salary farmworkers, provided 3.2 million jobs, accounting for about 14 percent of total farm and farm-related employment (fig. 3). Two-thirds of the production jobs were in nonmetro counties, where they contributed over 30 percent of nonmetro farm and farm-related employment.

Agricultural service positions, such as farm managers and veterinarians, and jobs in forestry and fishing accounted

for 843,000 workers. Because the agricultural service, forestry, and fishing category contains a diversity of firms, such as ornamental tree care and lawn service companies, a portion of the category's jobs are linked to urban- and suburban-based demand. Almost three-quarters of the service-category jobs are in metro areas, an indication that demand for some agricultural services originates off the farm.

Industries that provide inputs to farming and handle goods after they leave the farm provided 3.6 million jobs. Establishments that process and market agricultural products, ranging from bakeries to poultry processors, accounted for 3.2 million of these jobs. Agricultural input firms, such as fertilizer and chemical companies, contributed the balance of the jobs.

Indirect agribusinesses, including those that repair farm machinery or produce paper products, provided 2.6 million jobs. Many of these businesses have minor links to farming, with over 80 percent of their jobs in metro counties (app. table 7).

Figure 2

Farm and farm-related employment, 1989

Most employment was in agricultural wholesale and retail trade.

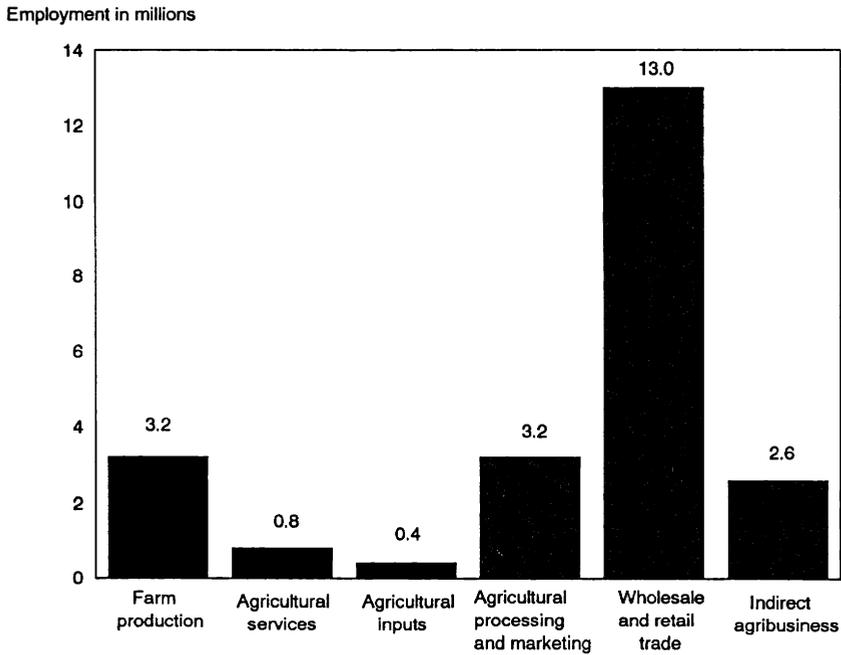
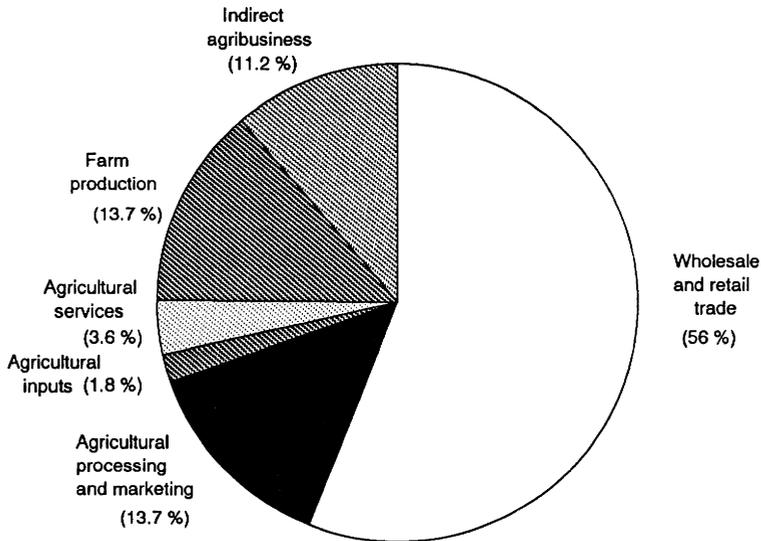


Figure 3

Components of farm and farm-related employment, 1989

Farm production jobs accounted for a small share of all farm and farm-related employment.



Changes in the Composition of Farm and Farm-Related Employment

Farm and farm-related employment increased over 28 percent during 1975-89, but employment on U.S. farms declined. Onfarm job losses were offset by gains in farm-related industries such as agricultural wholesale and retail trade.

Farm and farm-related industries provided more jobs in 1989 than in 1975, but their share of total U.S. employment fell from 19.5 percent to 17.3 percent as nonfarm industries added jobs even more quickly (fig. 4). Although farm and farm-related employment rose by 5.1 million jobs from 1975 to 1989, employment in farm production and its more closely related industries declined. Farm production jobs continued their long-term decline as new technology replaced labor and periods of unfavorable farm economic conditions caused some farmers to leave farming (2). (Underlined numbers in parentheses refer to sources listed in References.) The number of farm proprietors declined by 360,000 since 1975, and the number of wage and salary farmworkers declined by 420,000, a drop of almost 20 percent in farm production employment.

Jobs in industries closely related to farm production, those that provide inputs to farm production activities or process goods after they leave the farm, also declined during 1975-89. Suppliers of fertilizers, equipment, and other inputs lost 125,000 jobs. Processing and marketing industries lost the largest number of jobs among farm-related industries. Employment fell by 368,000 jobs, or 10.4 percent, principally in tobacco, dairy, beverage, leather, and apparel manufacturing (fig. 5). The loss of processing jobs is attributed to various factors, such as weak consumer demand, company mergers, increased competition and automation, and the closing of less efficient plants (5).

Not all processing and marketing industries lost jobs during 1975-89. Meat processors added 62,000 jobs, and manufacturers of miscellaneous foods, such as macaroni

and snack chips, gained 34,000 jobs (fig. 5). The new meat preparation jobs were concentrated in poultry processing, an industry that has grown as consumer preferences have shifted from red meat to poultry (5).

Employment losses in farming and its closely related industries (see box, "Farm and Farm-Related Industries Include a Variety of Firms," p. 11) were more than offset by job gains in industries that sell agricultural products, provide agricultural services, or are indirectly related to agriculture. Wholesale and retail trade had strong job growth, expanding by 5.4 million jobs (over 70 percent) during 1975-89. These industries include grocery stores and eating and drinking places that serve prepared food. Employment growth in these industries does not depend on farm economic conditions, but is propelled more by population growth and changing consumer behavior, such as eating outside the home more often.

Jobs in agricultural services, forestry, and fishing more than doubled during 1975-89. Over 75 percent of the new agricultural service jobs were in metro counties. Some of these firms provide farm services such as farm management and crop harvesting, but urban-oriented companies that supply lawn care and landscaping services fueled most job gains in this category.

Indirect agribusinesses, more closely tied to growth in the general economy than to changes in farm economic conditions, added 543,000 jobs, a jump of 26.6 percent, during 1975-89. These agribusinesses, some with relatively minor linkages to farming, range from repair and service shops for tractors to manufacturers of prefabricated metal buildings.

Figure 4

Employment growth in farm and farm-related versus nonfarm industries, 1975-89

Nonfarm industries gained jobs faster during most of the period.

Percentage change from 1975

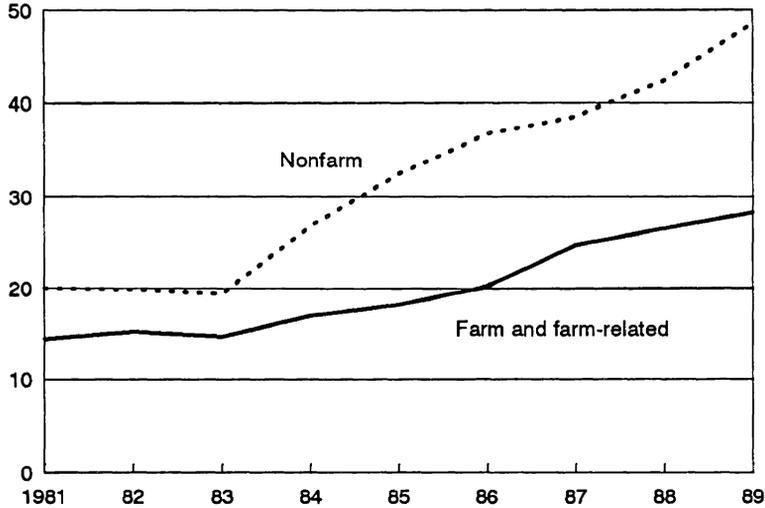
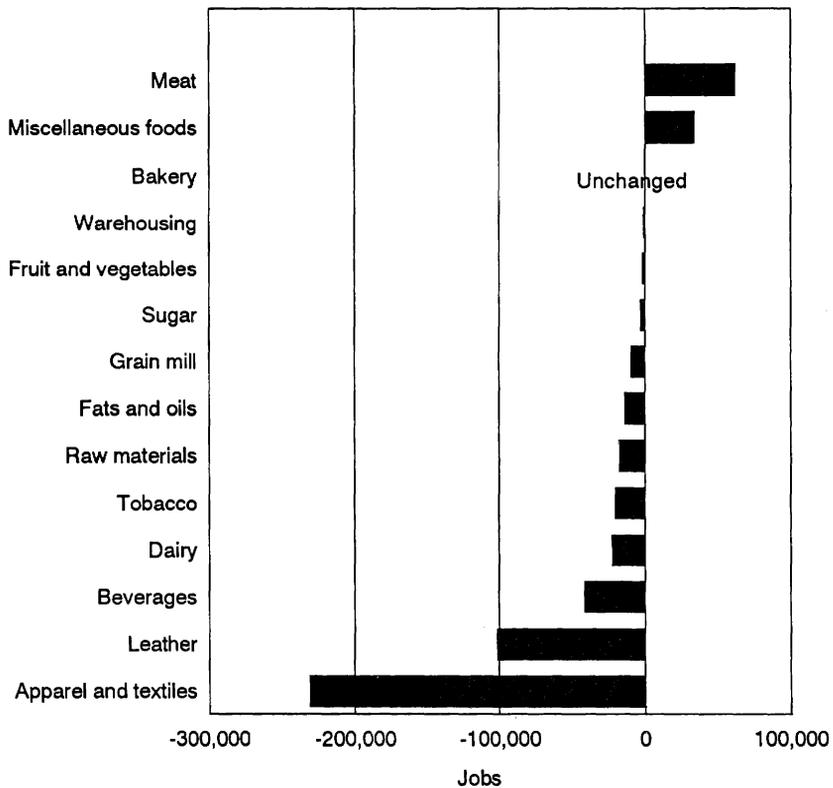


Figure 5

Employment change in agricultural processing and marketing industries, 1975-89

Only meat products and miscellaneous foods gained jobs.



Farm and Farm-Related Employment Contributes More to Some State Economies than to Others

Populous States like California post the highest number of farm and farm-related jobs, but traditional farming States like Iowa rely more on these jobs as a share of total State employment.

The number of farm and farm-related jobs differs widely among States, ranging from a high of 2.5 million in California to a low of 44,000 in Wyoming (app. table 2). Although California ranks first in the number of farm and farm-related jobs, these jobs accounted for only 15.8 percent of the State's total employment, a percentage that places California 36th among States. In contrast, Iowa's 431,380 farm and farm-related jobs provided over 27 percent of its total employment, the highest in the Nation (app. table 3).

States with the greatest number of farm and farm-related jobs, California, New York, Texas, Florida, and Pennsylvania, are also the most populous States. Large populations expand consumer markets, which drive agricultural wholesale and retail trade jobs, the farm-related jobs that link the flow of goods from farmers to consumers. Over half of the farm and farm-related jobs in these populous States were in agricultural wholesale and retail trade (fig. 6).

Northern Plains States rank just behind Iowa in the share of State total employment in farm and farm-related industries (fig. 6). Agricultural wholesale and retail trade jobs accounted for the largest portion of jobs in 8 of the 10 States leading in the percentage share of total employment in farm and farm-related industries. Of these leading States, only North and South Dakota have more farm and farm-related employment in farm production than in agricultural wholesale and retail trade.

California had the most farm production jobs in the Nation. Its more than 270,000 farmworkers produced more than half of the Nation's fruits, nuts, and vegetables (app. table 2). Texas had over 214,000 jobs in farm production, second only to California. While the large number of Texas farm production jobs is attributed to its more than 130 million acres of farmland (4), many farm production jobs are also in States that have less land in farms. For example, in the Corn Belt, numerous small-sized and owner-operator farms provide thousands of farm production jobs.

States with the greatest number of jobs in agricultural services, forestry, and fishing industries had most of these jobs in metro areas (fig. 7). California ranked first in the number of agricultural service jobs, with over 152,000 jobs in these industries, 93 percent of them in metro areas. The Pacific region led in the number of agricultural service jobs.

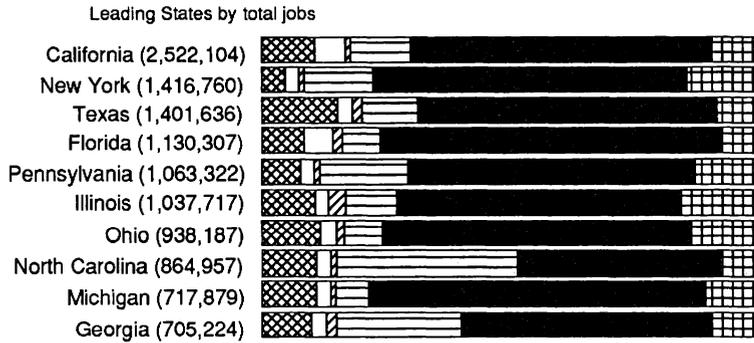
Illinois had more jobs in agricultural input industries than any other State, with most of these jobs in farm machinery and equipment manufacturing. Iowa and California followed in agricultural input employment, principally in wholesale trade of farm machinery, equipment, and supplies. In Florida, fourth in agricultural input employment, agricultural chemicals manufacturing contributed the most agricultural input jobs. Wyoming's 3,693 agricultural input jobs, nearly all of which were in chemical and fertilizer mining, provided 8.3 percent of State farm and farm-related employment, placing Wyoming first in the share of farm and farm-related employment in agricultural inputs.

North Carolina provided the most agricultural processing and marketing jobs, nearly 10 percent of the U.S. total. These jobs also accounted for 36 percent of State farm and farm-related employment, the highest percentage share in the Nation. Apparel and textile manufacturing accounted for 75 percent of processing and marketing jobs in North Carolina, with employment in meat and dairy products and tobacco manufacturing contributing another 17 percent. California followed in the number of processing and marketing jobs, also concentrated in apparel and textile manufacturing. Also prominent in California were jobs in the processing of canned, frozen, and preserved fruits and vegetables and manufacturing of miscellaneous food preparations and kindred products.

Northeast States led in the number of indirect agribusiness jobs, with New York and Pennsylvania ranking second and fourth among all States (California was first). Indirect agribusiness employment contributed 17 percent of State farm and farm-related employment in Maine and Connecticut, the highest share in the Nation.

Figure 6

Farm and farm-related employment, leading States by total jobs and industry share
More populous States like California employ many in wholesale and retail trade...



...while Northern Plains States show a greater percentage of farm and farm-related jobs in farm production.

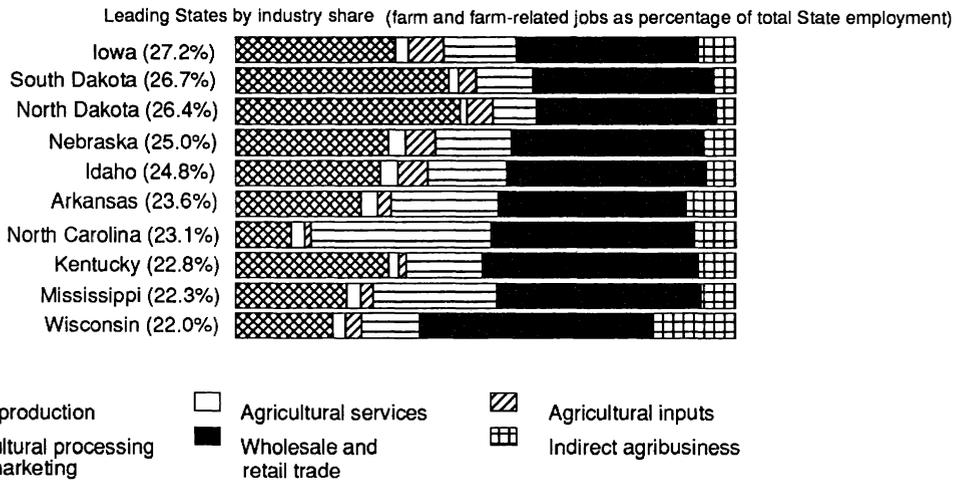
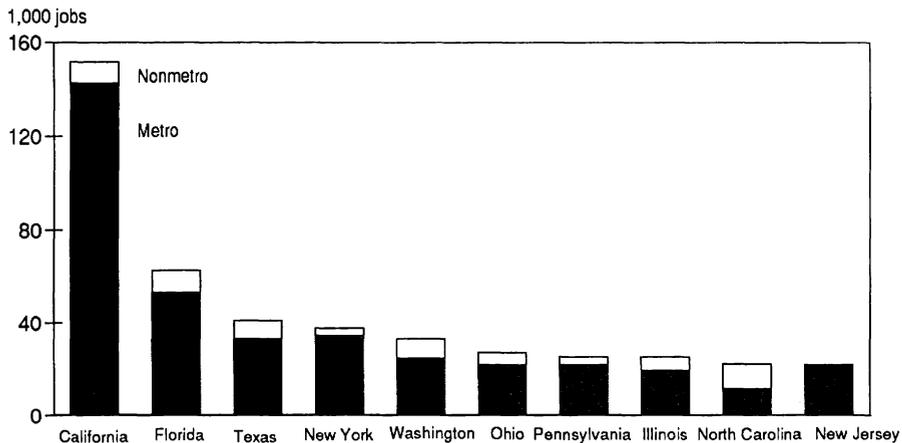


Figure 7

States with the greatest number of jobs in agricultural services¹

Most of the agricultural service jobs are in metro areas.



¹ Includes forestry and fishing industries.

Agricultural Wholesale and Retail Trade Drives State Growth in Farm and Farm-Related Employment

Job growth in agricultural wholesale and retail trade (1975-89) ranged from 37 percent in New York to 162 percent in Nevada.

The greatest employment increase in farm and farm-related industries was in agricultural wholesale and retail trade, where employment growth is linked to population. California, Florida, Texas, New York, and Pennsylvania had the greatest numerical increases in employment in this category. In 12 States, the number of agricultural wholesale and retail trade jobs more than doubled during 1975-89.

Employment changes in farm and farm-related industries were unevenly distributed among States in 1975-89, ranging from an increase of 879,047 jobs (53.5 percent) in California to a decline of 3,310 jobs (3.2 percent) in South Dakota (fig. 8).

The Pacific region had the largest increase in farm and farm-related employment, with over 1.1 million more jobs (53 percent) in 1989 than in 1975 (app. table 6). Over 1 million of the new jobs were in industries with weak linkages to farming, such as wholesale and retail trade of agricultural products and indirect agribusinesses.

Farm and farm-related employment in the Northern Plains increased by only 51,234 jobs (7.6 percent), the smallest employment increase for any region. Large employment increases in farm-related industries peripheral to agriculture helped to offset the decline in the number of farm production and agricultural input jobs. However, South Dakota (the only State to have a net loss in farm and farm-related employment) increased employment in these off-farm industries by only 13,617 jobs. This increase could not compensate for the loss of more than 17,000 jobs in farm production, agricultural inputs, and agricultural processing and marketing.

Farm production jobs declined in nearly all States from 1975 to 1989. Most of the employment decline was due to farm consolidation and increases in labor-saving technology, not a loss in farm productivity. For example, Kansas had 16,334 fewer farm production jobs in 1989

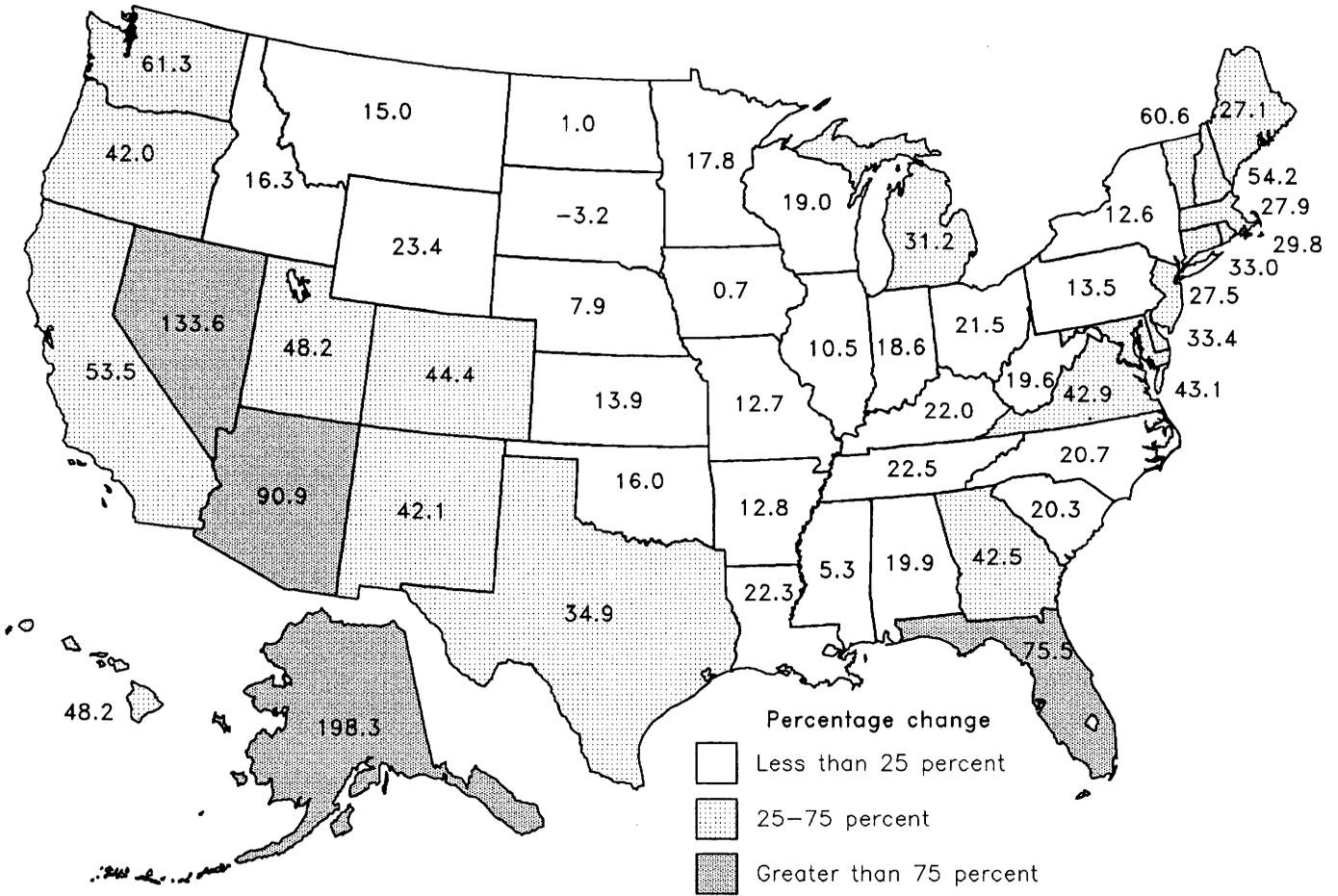
than in 1975, a decline of 16 percent. However, net cash receipts from farm marketings, an indicator of farm productivity, increased 33.6 percent during the same period, a relatively large increase compared with the U.S. average of 23.1 percent (1).

Five States gained farm production jobs during 1975-89 (app. table 4). Oregon gained 4,865 farm production jobs (8.5 percent), the largest employment increase in the Nation. The employment growth in Oregon accompanied an increase of almost 50 percent in cash receipts from farm marketings to nearly \$2.3 billion (1). Washington followed with an increase of 3,086 farm production jobs. Alaska, where the number of farms nearly doubled during 1974-87 (3), gained 317 farm production jobs (80.9 percent). Florida and Nevada had only slight growth, gaining 286 and 213 jobs.

West Virginia had more than twice as many agricultural input jobs in 1989 as in 1975, and experienced the largest increase in the Nation for such jobs in that period. Over 1,300 new jobs were created in agricultural chemicals manufacturing. However, most States had declines in agricultural input employment. The largest declines in agricultural input employment came in Iowa, which lost 22,060 jobs, and Illinois, which lost 14,871. Losses in farm machinery and equipment manufacturing jobs caused most of the decline.

North Carolina, the State leading in both the number of agricultural processing and marketing jobs and the concentration of these jobs, had 9,321 more jobs in 1989 than in 1975, a gain of 3.1 percent. This growth was fueled by an increase of over 10,000 jobs in meat products manufacturing, primarily poultry processing. California gained 60,072 agricultural processing and marketing jobs (15.3 percent) during 1975-89, with more than two-thirds of them in apparel and textile manufacturing.

Figure 8
Change in farm and farm-related employment, 1975-89
South Dakota was the only State to see a decrease in farm and farm-related jobs.



References

- (1) U.S. Department of Agriculture, Economic Research Service. "Historical State Farm Indicators, 1949-91." Unpublished.
- (2) U.S. Department of Agriculture, Economic Research Service. Rural Economic Development in the 1980's. Staff Report AGES870724, July 1987.
- (3) U.S. Department of Commerce. 1987 Census of Agriculture. Vol. 1, Part 2, August 1989, pp. 7-8.
- (4) U.S. Department of Commerce. 1987 Census of Agriculture. Vol. 1, Part 51, November 1989, pp. 144-150.
- (5) U.S. Department of Commerce. 1990 U.S. Industrial Outlook. January 1990.

Farm and Farm-Related Industries Include a Variety of Firms

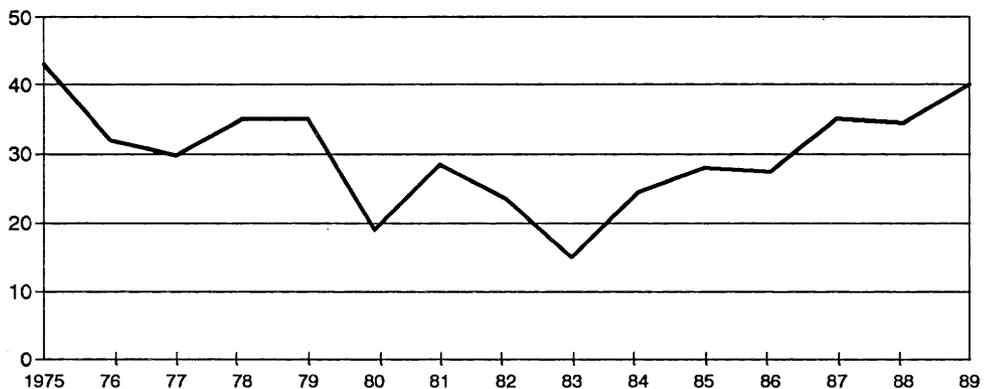
Farm and farm-related industries are defined as having 50 percent or more of their national work force employed in providing goods and services to satisfy domestic final demand for agricultural products. These industries are classified by location in metro and nonmetro counties as defined by the Office of Management and Budget's Metropolitan Statistical Area designation in 1984. Industries are aggregated into related groups: farm production; agricultural services, forestry, and fishing; agricultural input industries; agricultural processing and marketing; wholesale and retail trade of agricultural products; and indirect agribusiness (app. table 1). Industry estimates of employment are calculated for States and the 10 U.S. farm production regions (see app. tables 2-17).

Industry total employment estimates are based on 1989 County Business Patterns data compiled by the Bureau of the Census, U.S. Department of Commerce, and subsequently enhanced by a private vendor to account for confidential data not released by the Bureau. The County Business Patterns data provide estimates for wage and salary jobs in most industries in the United States. Data on farm proprietors and wage and salary jobs in farm production, as well as nonfarm proprietors, government employment, and railroad workers, are not included in the County Business Patterns. Employment estimates for these excluded groups are from the Bureau of Economic Analysis, U.S. Department of Commerce. Employment data on nonfarm proprietors, available only for major industrial divisions (1-digit Standard Industrial Classification (SIC) level), were distributed among farm-related industries (2-, 3-, and 4-digit SIC levels) based on the proprietor's share of total employment in the division in which the farm-related industry is classified. The percentage of proprietor employment in every industrial division was determined for each county. These percentages were applied to wage and salary employment in farm-related industries in the county.

County-level employment data for farming and its associated industries were available for the years 1975 and 1981-89. In this analysis, comparison of employment by industry in 1975 and 1989 was possible because of similarities in net farm income for those years. Similar farm conditions limit the effect of general economic cycles on farm and farm-related employment and allow for a more accurate measure of employment variation caused by changes in the structure of farm and farm-related industries.

Net farm income, 1975-89

Billion dollars (1982 dollars)



Source: U.S. Department of Agriculture, *Agricultural Statistics*, 1991

Appendix table 1--Classification of farm and farm-related industries

Industry groups and components	1987 Standard Industrial Classification (SIC) ¹
<i>Farming:</i>	
Farm production (farm proprietors, and wage and salary farmworkers)	t
<i>Closely related industries:</i>	
Agricultural services, forestry, and fishing	07-09
Agricultural input industries--	
Chemical and fertilizer mining	147
Agricultural chemicals	287
Farm machinery and equipment	3523
Farm supply and machinery (wholesale trade)	5083, 5191
Commodity contract brokers and dealers	622
Agricultural processing and marketing--	
Meat products	201
Dairy products	202
Canned, frozen, and preserved fruits and vegetables	203
Grain mill products	204
Bakery products	205
Sugar and confectionery products	206
Fats and oils products	207
Beverages	208
Miscellaneous food preparations and kindred products	209
Tobacco products	21
Apparel and textiles	221, 223-5, 2261, 2269, 228, 2298-9, 231-8, 2397
Leather products	31
Farm-related raw materials (wholesale trade)	515
Warehousing	4221, 4222
<i>Peripherally related industries:</i>	
Wholesale and retail trade of agricultural products--	
Wholesale trade	513-4, 518, 5194
Retail trade	54, 56, 58
Indirect agribusiness--	
Prefabricated metal buildings	3448
Pumps and pumping equipment	3561
Miscellaneous repair shops	7692, 7699
Miscellaneous textile products	2295, 2393, 2395
Containers, paper products, and pulpwood products	2441, 2449, 262-3, 2652-3, 2655-7, 2671-6, 3221, 3262, 3274
Chemicals	2823-4, 2893
Primary and fabricated metal products	3315-7, 334, 3411, 3466, 3497
Food products machinery	3556
Miscellaneous manufacturing	3965, 3993
Printing and publishing	271-2, 274, 2752, 2754, 2759, 2791, 2796

¹The Standard Industrial Classification (SIC) was revised in 1987. The revision resulted in mergers of some industries and creation of others through subdividing or restructuring existing industries.

²Data were obtained from the Bureau of Economic Analysis, U.S. Department of Commerce, because County Business Patterns data do not include information about the employment of farmers or wage and salary jobs in agricultural production (SIC 01-02).

Appendix table 2—Employment in farm and farm-related industries by State, 1989

State	Total farm and farm-related industries	Farm production	Agricultural services	Agricultural inputs	Agricultural processing and marketing	Wholesale and retail trade	Indirect agri-business
<i>Number of jobs</i>							
United States	23,184,796	3,167,962	842,535	426,046	3,167,724	12,993,454	2,587,075
Alabama	416,859	62,887	9,475	7,095	115,714	180,207	41,481
Alaska	53,234	709	19,680	354	4,738	25,464	2,289
Arizona	263,277	19,734	15,401	2,653	13,068	192,015	20,406
Arkansas	271,959	68,325	9,016	7,246	58,411	101,593	27,368
California	2,522,104	270,611	152,447	28,608	299,352	1,514,120	256,966
Colorado	306,050	44,170	10,322	4,298	28,512	189,975	28,773
Connecticut	261,382	8,731	12,614	1,416	17,606	176,489	44,526
Delaware	61,011	5,112	1,796	650	9,658	35,525	8,270
Florida	1,130,307	96,150	63,937	22,016	85,901	769,743	92,560
Georgia	705,224	73,807	21,247	11,228	172,849	353,279	72,814
Hawaii	118,161	14,220	3,130	661	14,534	80,700	4,916
Idaho	124,581	36,293	4,227	7,432	19,740	49,567	7,322
Illinois	1,037,717	112,362	26,251	35,914	106,330	588,157	168,703
Indiana	520,807	91,102	14,905	12,375	46,761	295,667	59,997
Iowa	431,380	138,215	11,503	30,147	61,916	157,197	32,402
Kansas	298,174	85,974	8,057	12,569	39,638	129,780	22,156
Kentucky	422,616	129,440	9,074	6,354	63,703	182,452	31,593
Louisiana	329,402	49,677	9,381	9,352	33,308	197,118	30,566
Maine	143,438	12,469	9,782	878	25,183	70,674	24,452
Maryland	370,083	24,126	17,602	3,026	34,259	247,485	43,585
Massachusetts	546,204	10,744	21,209	2,346	59,365	376,633	75,907
Michigan	717,879	79,326	19,947	7,471	46,801	484,105	80,229
Minnesota	500,125	118,267	11,445	15,124	51,690	238,337	65,262
Mississippi	256,072	57,009	7,202	6,282	63,599	103,694	18,286
Missouri	561,169	132,886	14,899	14,445	75,540	269,543	53,856
Montana	88,640	31,024	3,141	3,086	3,994	42,622	4,773
Nebraska	234,833	71,925	5,895	14,171	35,327	91,580	15,935
Nevada	78,702	4,886	4,087	834	2,007	61,066	5,822
New Hampshire	102,508	4,751	3,968	549	9,729	69,447	14,064
New Jersey	631,201	14,954	22,709	3,614	82,714	403,805	103,405
New Mexico	107,262	18,254	2,884	3,359	6,289	71,418	5,058
New York	1,416,760	67,365	38,349	14,140	195,744	889,450	211,712
North Carolina	864,957	95,581	24,014	10,651	312,494	349,026	73,191
North Dakota	95,247	42,998	1,287	4,759	8,261	34,200	3,742
Ohio	938,187	111,414	29,087	14,418	72,305	579,527	131,436
Oklahoma	292,184	80,447	7,195	5,056	25,722	148,133	25,631
Oregon	297,472	61,776	19,751	5,287	24,540	158,141	27,977
Pennsylvania	1,063,322	82,225	28,985	13,033	188,448	610,097	140,534
Rhode Island	85,335	1,362	3,374	292	11,039	56,474	12,794
South Carolina	370,933	39,296	10,121	3,235	97,271	177,406	43,604
South Dakota	100,503	42,887	2,056	3,507	11,323	35,872	4,858
Tennessee	578,355	115,976	10,813	8,443	124,868	257,127	61,128
Texas	1,401,636	214,191	41,507	24,673	156,400	839,619	125,246
Utah	128,796	18,688	2,799	2,109	15,350	78,884	10,966
Vermont	62,326	10,515	2,394	793	5,237	36,192	7,195
Virginia	587,780	62,115	20,811	6,672	107,726	316,193	74,263
Washington	468,151	79,866	33,566	7,680	41,765	261,757	43,517
West Virginia	124,024	24,148	3,121	2,378	10,049	73,881	10,447
Wisconsin	597,061	116,637	14,679	19,669	69,286	278,073	98,717
Wyoming	44,372	12,335	1,164	3,693	1,361	23,047	2,772

Appendix table 3—Importance of farm and farm-related employment by State, 1989

Rank	State	Jobs	Rank	State	Share of total employment
		<i>Number</i>			<i>Percent</i>
	United States	23,184,796		United States	17.3
1.	California	2,522,104	1.	Iowa	27.2
2.	New York	1,416,760	2.	South Dakota	26.7
3.	Texas	1,401,636	3.	North Dakota	26.4
4.	Florida	1,130,307	4.	Nebraska	25.0
5.	Pennsylvania	1,063,322	5.	Idaho	24.8
6.	Illinois	1,037,717	6.	Arkansas	23.6
7.	Ohio	938,187	7.	North Carolina	23.1
8.	North Carolina	864,957	8.	Kentucky	22.8
9.	Michigan	717,879	9.	Mississippi	22.3
10.	Georgia	705,224	10.	Wisconsin	22.0
11.	New Jersey	631,201	11.	Montana	21.8
12.	Wisconsin	597,061	12.	Tennessee	21.7
13.	Virginia	587,780	13.	Alabama	21.1
14.	Tennessee	578,355	14.	Maine	20.8
15.	Missouri	561,169	15.	Kansas	20.6
16.	Massachusetts	546,204	16.	South Carolina	20.2
17.	Indiana	520,807	17.	Georgia	19.6
18.	Minnesota	500,125	18.	Oregon	19.4
19.	Washington	468,151	19.	Minnesota	19.3
20.	Iowa	431,380	20.	Missouri	18.9
21.	Kentucky	422,616	21.	Oklahoma	18.5
22.	Alabama	416,859	22.	Vermont	18.3
23.	South Carolina	370,933	23.	Wyoming	18.2
24.	Maryland	370,083	24.	Alaska	18.1
25.	Louisiana	329,402	25.	Washington	18.1
26.	Colorado	306,050	26.	Hawaii	17.7
27.	Kansas	298,174	27.	Louisiana	17.5
28.	Oregon	297,472	28.	Indiana	17.5
29.	Oklahoma	292,184	29.	Pennsylvania	17.3
30.	Arkansas	271,959	30.	Florida	17.2
31.	Arizona	263,277	31.	West Virginia	17.0
32.	Connecticut	261,382	32.	Virginia	16.6
33.	Mississippi	256,072	33.	Illinois	16.6
34.	Nebraska	234,833	34.	Texas	16.4
35.	Maine	143,438	35.	Ohio	16.4
36.	Utah	128,796	36.	California	15.8
37.	Idaho	124,581	37.	Colorado	15.7
38.	West Virginia	124,024	38.	New Mexico	15.6
39.	Hawaii	118,161	39.	Michigan	15.5
40.	New Mexico	107,262	40.	Rhode Island	15.4
41.	New Hampshire	102,508	41.	New Hampshire	15.3
42.	South Dakota	100,503	42.	Utah	15.2
43.	North Dakota	95,247	43.	Delaware	15.0
44.	Montana	88,640	44.	Arizona	14.6
45.	Rhode Island	85,335	45.	New York	14.4
46.	Nevada	78,702	46.	New Jersey	14.3
47.	Vermont	62,326	47.	Maryland	14.2
48.	Delaware	61,011	48.	Massachusetts	14.1
49.	Alaska	53,234	49.	Connecticut	13.0
50.	Wyoming	44,372	50.	Nevada	11.8

Appendix table 4—Change in farm and farm-related employment by State, 1975-89

State	Total farm and farm-related industries	Farm production	Agricultural services	Agricultural inputs	Agricultural processing and marketing	Wholesale and retail trade	Indirect agri-business
<i>Percentage change</i>							
United States	28.3	-19.8	119.7	-22.6	-10.4	70.7	26.6
Alabama	19.9	-30.9	19.6	-34.2	11.0	77.8	28.0
Alaska	198.3	80.9	869.0	15.3	102.7	118.7	102.0
Arizona	90.9	-9.5	232.6	-11.4	4.0	122.6	111.0
Arkansas	12.8	-24.9	-23.3	-28.9	15.3	67.9	59.8
California	53.5	-15.3	134.1	-2.3	25.1	85.9	46.4
Colorado	44.4	-4.1	163.5	-21.3	-3.0	74.0	60.6
Connecticut	33.0	-29.3	157.8	-24.5	-32.6	54.2	20.8
Delaware	33.4	-20.1	86.1	-38.7	-4.6	73.4	23.7
Florida	75.5	0.3	118.2	3.4	-2.4	120.6	53.2
Georgia	42.5	-25.9	160.4	-30.1	5.7	119.3	57.1
Hawaii	48.2	-5.4	53.7	19.7	6.9	80.3	30.5
Idaho	16.3	-15.4	24.1	2.5	8.4	57.4	89.3
Illinois	10.5	-27.2	146.0	-29.3	-26.5	40.7	5.0
Indiana	18.6	-28.3	215.5	-30.3	-8.4	56.6	20.6
Iowa	0.7	-20.8	95.2	-42.3	-3.2	45.0	39.4
Kansas	13.9	-16.0	154.4	-27.5	8.3	54.3	21.7
Kentucky	22.0	-5.1	184.5	-54.5	-12.9	84.7	50.8
Louisiana	22.3	-18.1	20.0	-21.0	-12.9	61.9	5.4
Maine	27.1	-10.2	-7.6	-21.5	-29.4	103.7	45.0
Maryland	43.1	-16.8	97.9	-20.5	-24.6	80.8	25.5
Massachusetts	27.9	-18.9	110.2	20.6	-38.9	55.7	20.9
Michigan	31.2	-19.9	154.8	-34.9	-14.1	58.3	17.0
Minnesota	17.8	-20.6	122.1	-17.4	-7.6	59.4	40.4
Mississippi	5.3	-39.1	115.6	-27.8	5.8	67.5	18.1
Missouri	12.7	-16.6	146.0	-17.1	-21.5	54.8	20.1
Montana	15.0	-12.0	116.3	-1.8	-22.8	47.0	55.0
Nebraska	7.9	-19.5	92.9	-14.9	-1.4	48.2	44.5
Nevada	133.6	4.6	337.1	75.2	10.5	162.1	134.5
New Hampshire	54.2	-3.3	155.8	5.2	-44.7	119.5	37.0
New Jersey	27.5	-24.8	146.7	-10.4	-26.9	58.0	10.9
New Mexico	42.1	-10.8	100.1	-17.7	-27.6	90.3	54.1
New York	12.6	-20.5	112.4	-8.9	-35.7	36.5	15.2
North Carolina	20.7	-43.9	179.8	-34.2	3.1	109.8	40.7
North Dakota	1.0	-19.4	102.4	-35.2	4.2	50.1	66.1
Ohio	21.5	-18.2	111.1	-22.4	-23.6	54.8	-2.5
Oklahoma	16.0	-12.4	107.3	-18.0	-13.8	48.4	23.8
Oregon	42.0	8.5	71.9	-8.7	3.2	70.8	47.4
Pennsylvania	13.5	-16.9	151.1	-25.1	-32.3	54.4	4.0
Rhode Island	29.8	-16.5	102.6	-25.1	-28.1	54.3	26.7
South Carolina	20.3	-43.8	126.1	-43.0	-12.0	116.9	21.7
South Dakota	-3.2	-25.1	25.1	-30.7	-11.2	46.0	91.5
Tennessee	22.5	-11.7	166.4	-39.7	-8.7	92.5	16.2
Texas	34.9	-22.5	104.9	-20.1	-8.2	84.0	47.4
Utah	48.2	-5.8	158.4	-10.7	12.4	82.3	63.5
Vermont	60.6	-7.2	75.5	-17.2	12.8	121.3	73.5
Virginia	42.9	-30.3	123.6	-15.2	-1.2	116.2	49.7
Washington	61.3	4.0	155.1	1.5	22.0	100.1	57.4
West Virginia	19.6	-7.6	133.6	103.9	-28.6	54.9	-21.3
Wisconsin	19.0	-23.5	87.2	-9.1	-9.0	57.3	48.0
Wyoming	23.4	-14.5	254.9	9.3	-8.2	59.5	46.0

Appendix table 5—Industry share of farm and farm-related employment by State, 1989

State	Farm production ¹	Agricultural services	Agricultural inputs	Agricultural processing and marketing	Wholesale and retail trade	Indirect agri-business
<i>Percent</i>						
United States	13.7	3.6	1.8	13.7	56.0	11.2
Alabama	15.1	2.3	1.7	27.8	43.2	10.0
Alaska	1.3	37.0	0.7	8.9	47.8	4.3
Arizona	7.5	5.8	1.0	5.0	72.9	7.8
Arkansas	25.1	3.3	2.7	21.5	37.4	10.1
California	10.7	6.0	1.1	11.9	60.0	10.2
Colorado	14.4	3.4	1.4	9.3	62.1	9.4
Connecticut	3.3	4.8	0.5	6.7	67.5	17.0
Delaware	8.4	2.9	1.1	15.8	58.2	13.6
Florida	8.5	5.7	1.9	7.6	68.1	8.2
Georgia	10.5	3.0	1.6	24.5	50.1	10.3
Hawaii	12.0	2.6	0.6	12.3	68.3	4.2
Idaho	29.1	3.4	6.0	15.8	39.8	5.9
Illinois	10.8	2.5	3.5	10.2	56.7	16.3
Indiana	17.5	2.9	2.4	9.0	56.8	11.5
Iowa	32.0	2.7	7.0	14.4	36.4	7.5
Kansas	28.8	2.7	4.2	13.3	43.5	7.4
Kentucky	30.6	2.1	1.5	15.1	43.2	7.5
Louisiana	15.1	2.8	2.8	10.1	59.8	9.3
Maine	8.7	6.8	0.6	17.6	49.3	17.0
Maryland	6.5	4.8	0.8	9.3	66.9	11.8
Massachusetts	2.0	3.9	0.4	10.9	69.0	13.9
Michigan	11.1	2.8	1.0	6.5	67.4	11.2
Minnesota	23.6	2.3	3.0	10.3	47.7	13.0
Mississippi	22.3	2.8	2.5	24.8	40.5	7.1
Missouri	23.7	2.7	2.6	13.5	48.0	9.6
Montana	35.0	3.5	3.5	4.5	48.1	5.4
Nebraska	30.6	2.5	6.0	15.0	39.0	6.8
Nevada	6.2	5.2	1.1	2.6	77.6	7.4
New Hampshire	4.6	3.9	0.5	9.5	67.7	13.7
New Jersey	2.4	3.6	0.6	13.1	64.0	16.4
New Mexico	17.0	2.7	3.1	5.9	66.6	4.7
New York	4.8	2.7	1.0	13.8	62.8	14.9
North Carolina	11.1	2.8	1.2	36.1	40.4	8.5
North Dakota	45.1	1.4	5.0	8.7	35.9	3.9
Ohio	11.9	3.1	1.5	7.7	61.8	14.0
Oklahoma	27.5	2.5	1.7	8.8	50.7	8.8
Oregon	20.8	6.6	1.8	8.2	53.2	9.4
Pennsylvania	7.7	2.7	1.2	17.7	57.4	13.2
Rhode Island	1.6	4.0	0.3	12.9	66.2	15.0
South Carolina	10.6	2.7	0.9	26.2	47.8	11.8
South Dakota	42.7	2.0	3.5	11.3	35.7	4.8
Tennessee	20.1	1.9	1.5	21.6	44.5	10.6
Texas	15.3	3.0	1.8	11.2	59.9	8.9
Utah	14.5	2.2	1.6	11.9	61.2	8.5
Vermont	16.9	3.8	1.3	8.4	58.1	11.5
Virginia	10.6	3.5	1.1	18.3	53.8	12.6
Washington	17.1	7.2	1.6	8.9	55.9	9.3
West Virginia	19.5	2.5	1.9	8.1	59.6	8.4
Wisconsin	19.5	2.5	3.3	11.6	46.6	16.5
Wyoming	27.8	2.6	8.3	3.1	51.9	6.2

¹Industry share may not add to total because of rounding.

Appendix table 6—Employment in farm and farm-related industries by region, 1975 and 1981-89

Region/ year	Total farm and farm-related industries	Farm production	Agricultural services	Agricultural inputs	Agricultural processing and marketing	Wholesale and retail trade	Indirect agribusiness
<i>Number of jobs</i>							
United States:							
1975	18,072,124	3,947,882	383,485	550,730	3,535,702	7,610,081	2,044,244
1981	20,676,519	3,690,000	529,173	569,327	3,594,212	9,958,559	2,335,248
1982	20,818,844	3,621,000	581,009	551,543	3,500,301	10,234,180	2,330,811
1983	20,722,115	3,710,000	592,909	486,451	3,322,252	10,362,461	2,248,042
1984	21,136,456	3,580,000	640,681	472,728	3,344,666	10,748,739	2,349,642
1985	21,352,560	3,462,000	651,396	455,667	3,215,420	11,171,110	2,396,967
1986	21,728,877	3,377,000	702,106	428,700	3,130,243	11,676,882	2,413,946
1987	22,535,649	3,277,333	746,599	431,459	3,179,903	12,401,151	2,499,204
1988	22,861,824	3,281,853	793,367	419,142	3,206,011	12,592,922	2,568,529
1989	23,184,796	3,167,962	842,535	426,046	3,167,724	12,993,454	2,587,075
Appalachia:							
1975	2,050,356	553,341	26,475	53,183	636,236	592,657	188,464
1981	2,297,529	509,744	43,326	46,349	667,030	812,716	218,364
1982	2,295,490	502,709	47,674	44,850	648,919	839,987	211,351
1983	2,301,439	517,265	45,045	39,371	628,401	859,414	211,943
1984	2,338,452	498,383	49,313	37,175	637,492	896,407	219,682
1985	2,360,447	484,575	51,361	36,013	612,359	944,083	232,056
1986	2,400,910	471,104	55,629	33,612	604,149	1,004,277	232,139
1987	2,492,183	445,504	60,383	34,648	613,000	1,096,795	241,853
1988	2,548,279	442,937	63,447	34,090	637,694	1,123,082	247,029
1989	2,577,732	427,260	67,833	34,498	618,840	1,178,679	250,622
Corn Belt:							
1975	3,076,697	751,552	41,122	156,745	450,487	1,263,496	413,295
1981	3,300,328	691,799	57,976	149,483	425,109	1,547,966	427,995
1982	3,254,133	678,498	62,385	149,043	406,524	1,541,902	415,781
1983	3,219,178	698,491	66,295	132,016	385,335	1,542,727	394,314
1984	3,228,288	669,983	70,785	125,239	384,078	1,567,645	410,558
1985	3,240,659	650,213	72,105	114,204	373,115	1,614,115	416,907
1986	3,294,636	657,189	77,068	107,011	358,015	1,683,833	411,520
1987	3,382,686	614,419	85,915	105,467	360,248	1,791,857	424,780
1988	3,433,544	601,487	91,782	105,727	368,587	1,824,884	441,077
1989	3,489,260	585,979	96,645	107,299	362,852	1,890,091	446,394
Delta:							
1975	753,655	245,303	22,910	30,725	148,974	244,133	61,610
1981	842,974	224,137	21,644	31,406	160,642	333,368	71,777
1982	843,036	215,251	27,216	29,985	154,634	344,704	71,246
1983	825,149	216,647	24,541	26,291	145,704	343,781	68,185
1984	838,937	207,006	26,162	26,343	151,873	358,402	69,151
1985	832,913	197,269	23,007	25,620	145,622	371,727	69,668
1986	834,690	187,559	24,674	23,922	146,733	380,406	71,396
1987	838,043	180,175	23,631	22,374	152,731	386,784	72,348
1988	843,729	179,636	25,306	21,857	154,772	387,570	74,588
1989	857,433	175,011	25,599	22,880	155,318	402,405	76,220

Continued—

Appendix table 6—Employment in farm and farm-related industries by region, 1975 and 1981-89 —Continued

Region/ year	Total farm and farm-related industries	Farm production	Agricultural services	Agricultural inputs	Agricultural processing and marketing	Wholesale and retail trade	Indirect agribusiness
<i>Number of jobs</i>							
Lake States:							
1975	1,473,484	400,625	20,822	51,453	186,586	632,259	181,739
1981	1,642,492	378,099	26,315	58,338	181,830	795,480	202,430
1982	1,636,696	373,359	28,629	54,514	177,791	803,506	198,897
1983	1,625,783	385,555	30,558	48,589	168,493	798,299	194,289
1984	1,669,847	374,482	32,563	47,370	171,243	835,866	208,323
1985	1,687,791	360,816	33,204	43,052	167,709	870,719	212,291
1986	1,720,733	349,881	36,884	42,543	165,662	908,847	216,916
1987	1,785,292	338,824	40,265	42,206	166,628	967,925	229,444
1988	1,805,137	339,535	42,392	42,311	168,795	974,813	237,291
1989	1,815,065	314,230	46,071	42,264	167,777	1,000,515	244,208
Mountain:							
1975	766,147	205,444	17,193	29,151	90,978	374,476	48,905
1981	977,976	201,956	28,917	33,924	92,315	554,569	66,295
1982	1,013,229	201,016	34,420	32,971	92,101	584,248	68,473
1983	1,005,677	204,997	32,600	28,461	90,012	582,013	67,594
1984	1,028,318	199,677	36,828	27,102	90,650	602,434	71,627
1985	1,054,073	195,020	38,089	26,698	87,514	630,363	76,389
1986	1,091,432	196,946	45,355	25,941	87,949	657,689	77,552
1987	1,120,684	193,198	43,703	25,605	89,705	685,718	82,755
1988	1,128,290	192,623	43,722	25,744	89,450	689,197	87,554
1989	1,141,680	185,384	44,025	27,464	90,321	708,594	85,892
Northeast:							
1975	3,901,878	296,337	78,804	48,638	948,071	1,935,349	594,679
1981	4,272,629	293,802	92,341	48,565	884,343	2,308,281	645,297
1982	4,291,685	288,572	102,484	48,703	853,970	2,355,030	642,926
1983	4,273,779	296,403	105,205	44,364	796,169	2,412,211	619,427
1984	4,384,014	283,484	113,948	41,466	799,109	2,503,008	642,999
1985	4,424,878	272,377	118,335	42,217	747,804	2,593,611	650,534
1986	4,499,239	273,877	127,295	41,813	702,501	2,694,211	659,542
1987	4,665,885	269,618	137,675	46,338	685,866	2,848,370	678,018
1988	4,712,525	263,338	149,428	41,179	659,807	2,907,000	691,773
1989	4,743,570	242,354	162,782	40,737	638,982	2,972,271	686,444
Northern Plains:							
1975	677,523	302,259	8,502	46,394	93,114	193,223	34,031
1981	723,765	284,366	10,751	49,789	95,480	243,946	39,433
1982	721,777	278,635	12,754	46,032	95,397	249,031	39,928
1983	719,634	288,512	12,830	41,004	91,185	247,111	38,992
1984	716,725	278,668	12,569	41,340	93,233	250,000	40,915
1985	713,994	270,120	13,397	38,939	93,440	255,270	42,828
1986	700,451	253,081	13,995	34,745	93,684	261,469	43,477
1987	711,778	250,280	14,996	35,029	93,073	273,327	45,073
1988	722,229	248,319	15,941	33,659	95,065	284,183	45,062
1989	728,757	243,784	17,295	35,006	94,549	291,432	46,691

Continued—

Appendix table 6—Employment in farm and farm-related industries by region, 1975 and 1981-89 —Continued

Region/ year	Total farm and farm-related industries	Farm production	Agricultural services	Agricultural inputs	Agricultural processing and marketing	Wholesale and retail trade	Indirect agribusiness
<i>Number of jobs</i>							
Pacific:							
1975	2,142,821	453,085	89,775	42,627	297,288	1,037,849	222,197
1981	2,650,025	408,039	131,105	50,689	343,202	1,444,820	272,170
1982	2,706,451	401,586	131,498	50,032	346,286	1,498,446	278,603
1983	2,719,218	405,309	141,344	44,315	333,905	1,523,325	271,020
1984	2,797,212	393,845	151,097	44,537	333,635	1,589,323	284,775
1985	2,837,233	385,234	157,016	44,112	333,587	1,631,799	285,485
1986	2,927,297	382,838	170,734	42,061	331,116	1,711,749	288,799
1987	3,115,790	381,711	180,031	43,858	359,162	1,841,475	309,553
1988	3,205,354	408,932	197,543	41,539	359,293	1,875,599	322,448
1989	3,287,727	412,253	205,764	41,575	365,657	1,934,018	328,460
Southeast:							
1975	1,794,596	356,373	49,861	53,814	466,354	693,181	175,013
1981	2,177,830	329,736	66,428	58,226	507,871	997,747	217,822
1982	2,177,158	316,089	68,819	55,270	490,196	1,028,128	218,656
1983	2,172,974	317,032	68,488	48,169	465,984	1,057,663	215,638
1984	2,237,693	301,588	74,930	47,061	470,316	1,112,696	231,102
1985	2,295,025	290,628	82,813	50,161	447,745	1,185,753	237,925
1986	2,364,116	273,992	88,874	44,002	444,370	1,271,552	241,326
1987	2,489,356	267,395	96,779	44,162	455,786	1,377,238	247,996
1988	2,566,884	287,927	97,696	42,504	466,417	1,420,489	251,851
1989	2,623,323	272,140	104,780	43,574	471,735	1,480,635	250,459
Southern Plains:							
1975	1,291,009	368,132	23,731	37,062	200,250	556,150	105,684
1981	1,608,023	352,365	38,015	41,534	215,864	809,335	150,910
1982	1,682,426	349,388	41,065	39,132	214,856	874,138	163,847
1983	1,658,560	363,741	42,748	32,847	197,694	876,735	144,795
1984	1,690,721	357,064	44,870	34,097	195,535	911,294	147,861
1985	1,708,154	340,346	46,413	33,775	190,727	946,015	150,878
1986	1,694,576	315,781	47,761	32,016	180,326	969,515	149,177
1987	1,717,155	320,776	47,320	30,826	184,741	987,414	146,078
1988	1,677,545	302,296	46,831	29,603	186,532	963,476	148,807
1989	1,693,820	294,638	48,702	29,729	182,122	987,752	150,877

Appendix table 7—United States: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	3,167,962	2.4	1,071,466	1.0	2,096,496	8.2
Agricultural services, forestry, fishing	842,535	.6	606,771	.6	214,139	.8
Agricultural inputs	426,046	.3	208,878	.2	217,168	.9
Chemical and fertilizer mining	21,854	--	9,822	--	12,032	.1
Agricultural chemicals	43,528	--	26,812	--	16,716	.1
Farm machinery and equipment manufacturing	68,828	.1	36,202	--	36,626	.1
Farm supply and machinery (wholesale trade)	272,254	.2	117,198	.1	155,056	.6
Commodity contract brokers and dealers	19,582	--	18,844	--	738	--
Agricultural processing and marketing	3,167,724	2.4	1,963,884	1.8	1,203,629	4.7
Meat products	367,266	.3	172,613	.2	194,653	.8
Dairy products	144,901	.1	102,427	.1	42,474	.2
Canned, frozen, and preserved fruits and vegetables	191,985	.1	125,628	.1	66,357	.3
Grain mill products	105,180	.1	68,329	.1	36,851	.1
Bakery products	221,531	.2	192,562	.2	28,969	.1
Sugar and confectionery products	94,010	.1	72,660	.1	21,350	.1
Fats and oils products	29,780	--	19,715	--	10,065	--
Beverages	157,096	.1	134,083	.1	23,013	.1
Miscellaneous food preparations and kindred products	169,270	.1	130,420	.1	38,679	.2
Tobacco products	46,383	--	40,704	--	5,679	--
Apparel and textiles	1,347,658	1.0	762,224	.7	585,394	2.3
Leather products	128,397	.1	80,016	.1	48,381	.2
Farm products raw materials (wholesale trade)	134,048	.1	41,622	--	92,426	.4
Warehousing	30,219	--	20,881	--	9,338	--
Wholesale and retail trade of agricultural products	12,993,454	9.7	10,509,488	9.7	2,483,577	9.7
Indirect agribusiness	2,587,075	1.9	2,078,847	1.9	508,222	2.0
Total farm and farm-related employment	23,184,796	17.3	16,439,334	15.2	6,723,231	26.2
Nonagricultural employment	110,636,363	82.7	91,542,094	84.8	18,967,627	73.8
Total employment	133,821,159	100.0	107,981,428	100.0	25,690,858	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 8—Appalachia: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	427,260	3.4	113,229	1.4	314,031	7.5
Agricultural services, forestry, fishing	67,833	.5	39,031	.5	24,806	.6
Agricultural inputs	34,498	.3	13,679	.2	20,819	.5
Chemical and fertilizer mining	710	--	273	--	437	--
Agricultural chemicals	4,507	--	2,504	--	2,003	.1
Farm machinery and equipment manufacturing	2,218	--	1,038	--	1,180	--
Farm supply and machinery (wholesale trade)	26,845	.2	9,658	.1	17,187	.4
Commodity contract brokers and dealers	218	--	206	--	12	--
Agricultural processing and marketing	618,840	4.9	278,618	3.3	340,222	8.1
Meat products	48,738	.4	14,870	.2	33,868	.8
Dairy products	9,958	.1	6,406	.1	3,552	.1
Canned, frozen, and preserved fruits and vegetables	8,847	.1	4,702	.1	4,145	.1
Grain mill products	8,420	.1	4,968	.1	3,452	.1
Bakery products	30,268	.2	25,805	.3	4,463	.1
Sugar and confectionery products	5,327	--	2,585	--	2,742	.1
Fats and oils products	3,647	--	2,822	--	825	--
Beverages	17,997	.1	10,398	.1	7,599	.2
Miscellaneous food preparation and kindred products	12,044	.1	8,181	.1	3,863	.1
Tobacco products	39,759	.3	34,510	.4	5,249	.1
Apparel and textiles	401,322	3.2	150,555	1.8	250,767	6.0
Leather products	17,494	.1	6,572	.1	10,922	.3
Farm products raw materials (wholesale trade)	12,171	.1	4,533	.1	7,638	.2
Warehousing	2,848	--	1,711	--	1,137	--
Wholesale and retail trade of agricultural products	1,178,679	9.4	796,453	9.6	382,219	9.1
Indirect agribusiness	250,622	2.0	163,740	2.0	86,882	2.1
Total farm and farm-related employment	2,577,732	20.6	1,404,750	16.9	1,168,979	27.9
Nonagricultural employment	9,957,586	79.4	6,931,449	83.2	3,022,073	72.1
Total employment	12,535,318	100.0	8,336,199	100.0	4,191,052	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 9—Corn Belt: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	585,979	3.0	151,173	1.0	434,806	9.9
Agricultural services, forestry, fishing	96,645	.5	66,251	.4	26,866	.6
Agricultural inputs	107,299	.6	54,426	.4	52,873	1.2
Chemical and fertilizer mining	985	--	662	--	323	--
Agricultural chemicals	8,480	--	5,595	--	2,885	.1
Farm machinery and equipment manufacturing	28,129	.1	17,667	.1	10,462	.2
Farm supply and machinery (wholesale trade)	59,092	.3	20,184	.1	38,908	.9
Commodity contract brokers and dealers	10,613	.1	10,318	.1	295	--
Agricultural processing and marketing	362,852	1.9	216,787	1.4	146,065	3.3
Meat products	64,022	.3	32,127	.2	31,895	.7
Dairy products	24,115	.1	17,574	.1	6,541	.2
Canned, frozen, and preserved fruits and vegetables	22,148	.1	13,896	.1	8,252	.2
Grain mill products	31,391	.2	20,519	.1	10,872	.3
Bakery products	36,426	.2	29,041	.2	7,385	.2
Sugar and confectionery products	17,313	.1	14,750	.1	2,563	.1
Fats and oils products	8,862	.1	5,769	--	3,093	.1
Beverages	25,914	.1	22,768	.2	3,146	.1
Miscellaneous food preparations and kindred products	20,495	.1	16,010	.1	4,485	.1
Tobacco products	463	--	406	--	57	--
Apparel and textiles	51,317	.3	25,302	.2	26,015	.6
Leather products	20,370	.1	6,491	--	13,879	.3
Farm products raw materials (wholesale trade)	36,241	.2	9,701	.1	26,540	.6
Warehousing	3,775	--	2,433	--	1,342	--
Wholesale and retail trade of agricultural products	1,890,091	9.7	1,485,794	9.9	404,277	9.2
Indirect agribusiness	446,394	2.3	346,342	2.3	100,048	2.3
Total farm and farm-related employment	3,489,260	17.9	2,320,773	15.4	1,164,935	26.5
Nonagricultural employment	16,005,616	82.1	12,761,360	84.6	3,239,787	73.6
Total employment	19,494,876	100.0	15,082,133	100.0	4,404,722	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 10—Delta: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
		<i>Number</i>		<i>Percent</i>		<i>Number</i>
Farm production	175,011	4.2	29,358	1.3	145,653	8.1
Agricultural services, forestry, fishing	25,599	.6	9,937	.4	14,763	.8
Agricultural inputs	22,880	.6	6,296	.3	16,584	.9
Chemical and fertilizer mining	1,085	--	465	--	620	--
Agricultural chemicals	4,641	.1	1,542	.1	3,099	.2
Farm machinery and equipment manufacturing	2,041	.1	766	--	1,275	.1
Farm supply and machinery (wholesale trade)	14,974	.4	3,456	.2	11,518	.6
Commodity contract brokers and dealers	139	--	67	--	72	--
Agricultural processing and marketing	155,318	3.7	44,529	1.9	110,789	6.1
Meat products	39,135	.9	10,706	.5	28,429	1.6
Dairy products	3,417	.1	2,298	.1	1,119	.1
Canned, frozen, and preserved fruits and vegetables	5,327	.1	1,856	.1	3,471	.2
Grain mill products	4,992	.1	1,259	.1	3,733	.2
Bakery products	5,605	.1	3,728	.2	1,877	.1
Sugar and confectionery products	2,989	.1	1,533	.1	1,456	.1
Fats and oils products	2,892	.1	733	--	2,159	.1
Beverages	5,730	.1	4,107	.2	1,623	.1
Miscellaneous food preparations and kindred products	10,373	.3	5,514	.2	4,859	.3
Tobacco products	9	--	0	--	9	--
Apparel and textiles	61,336	1.5	9,766	.4	51,570	2.9
Leather products	5,750	.1	837	--	4,913	.3
Farm products raw materials (wholesale trade)	5,532	.1	1,604	.1	3,928	.2
Warehousing	2,231	.1	588	--	1,643	.1
Wholesale and retail trade of agricultural products	402,405	9.6	246,291	10.5	156,091	8.7
Indirect agribusiness	76,220	1.8	38,739	1.7	37,481	2.1
Total farm and farm-related employment	857,433	20.5	375,150	16.0	481,361	26.7
Nonagricultural employment	3,323,551	79.5	1,975,327	84.0	1,321,876	73.3
Total employment	4,180,984	100.0	2,350,477	100.0	1,803,237	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 11—Lake States: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	314,230	3.2	94,832	1.2	219,398	9.7
Agricultural services, forestry, fishing	46,071	.5	28,452	.4	16,674	.7
Agricultural inputs	42,264	.4	18,235	.2	24,029	1.1
Chemical and fertilizer mining	4	--	4	--	0	--
Agricultural chemicals	1,226	--	900	--	326	--
Farm machinery and equipment manufacturing	10,119	.1	5,220	.1	4,899	.2
Farm supply and machinery (wholesale trade)	30,483	.3	11,701	.2	18,782	.8
Commodity contract brokers and dealers	432	--	410	--	22	--
Agricultural processing and marketing	167,777	1.7	98,266	1.3	69,511	3.1
Meat products	32,078	.3	16,616	.2	15,462	.7
Dairy products	28,888	.3	14,811	.2	14,077	.6
Canned, frozen, and preserved fruits and vegetables	16,640	.2	7,247	.1	9,393	.4
Grain mill products	11,185	.1	7,544	.1	3,641	.2
Bakery products	13,647	.1	11,318	.2	2,329	.1
Sugar and confectionery products	7,408	.1	4,677	.1	2,731	.1
Fats and oils products	1,879	--	720	--	1,159	.1
Beverages	10,772	.1	8,499	.1	2,273	.1
Miscellaneous food preparations and kindred products	8,323	.1	6,502	.1	1,821	.1
Tobacco products	0	--	0	--	0	--
Apparel and textiles	14,261	.1	9,012	.1	5,249	.2
Leather products	10,625	.1	6,976	.1	3,649	.2
Farm products raw materials (wholesale trade)	10,632	.1	3,522	.1	7,110	.3
Warehousing	1,439	--	822	--	617	--
Wholesale and retail trade of agricultural products	1,000,515	10.1	760,632	9.9	239,873	10.6
Indirect agribusiness	244,208	2.5	184,595	2.4	59,613	2.6
Total farm and farm-related employment	1,815,065	18.3	1,185,012	15.5	629,098	27.8
Nonagricultural employment	8,106,524	81.7	6,466,450	84.5	1,637,981	72.3
Total employment	9,921,589	100.0	7,651,462	100.0	2,267,079	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 12—Mountain: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	185,384	2.6	37,789	0.8	147,595	6.9
Agricultural services, forestry, fishing	44,025	.6	29,325	.6	14,518	.7
Agricultural inputs	27,464	.4	6,873	.1	20,591	1.0
Chemical and fertilizer mining	8,443	.1	352	--	8,091	.4
Agricultural chemicals	2,358	--	635	--	1,723	.1
Farm machinery and equipment manufacturing	1,751	--	683	--	1,068	.1
Farm supply and machinery (wholesale trade)	14,456	.2	4,815	.1	9,641	.5
Commodity contract brokers and dealers	456	--	388	--	68	--
Agricultural processing and marketing	90,321	1.3	50,770	1.0	39,551	1.8
Meat products	11,518	.2	6,681	.1	4,837	.2
Dairy products	8,711	.1	4,985	.1	3,726	.2
Canned, frozen, and preserved fruits and vegetables	12,658	.2	1,705	--	10,953	.5
Grain mill products	4,076	.1	2,507	.1	1,569	.1
Bakery products	7,712	.1	6,315	.1	1,397	.1
Sugar and confectionery products	3,618	.1	1,239	--	2,379	.1
Fats and oils products	631	--	451	--	180	--
Beverages	9,600	.1	8,111	.2	1,489	.1
Miscellaneous food preparations and kindred products	6,642	.1	4,501	.1	2,141	.1
Tobacco products	3	--	0	--	3	--
Apparel and textiles	13,394	.2	9,815	.2	3,579	.2
Leather products	2,567	--	2,141	--	426	--
Farm products raw materials (wholesale trade)	8,081	.1	1,593	--	6,488	.3
Warehousing	1,110	--	726	--	384	--
Wholesale and retail trade of agricultural products	708,594	10.0	480,009	9.7	228,486	10.6
Indirect agribusiness	85,892	1.2	63,400	1.3	22,492	1.1
Total farm and farm-related employment	1,141,680	16.1	668,166	13.5	473,233	22.0
Nonagricultural employment	5,964,495	83.9	4,273,128	86.5	1,675,381	78.0
Total employment	7,106,175	100.0	4,941,294	100.0	2,148,614	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 13—Northeast: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	242,354	0.8	139,656	0.5	102,698	3.4
Agricultural services, forestry, fishing	162,782	.5	130,115	.5	26,428	.9
Agricultural inputs	40,737	.1	30,906	.1	9,831	.3
Chemical and fertilizer mining	668	--	301	--	367	--
Agricultural chemicals	2,685	--	2,358	--	327	--
Farm machinery and equipment manufacturing	3,255	--	2,651	--	604	--
Farm supply and machinery (wholesale trade)	29,165	.1	20,695	.1	8,470	.3
Commodity contract brokers and dealers	4,964	--	4,901	--	63	--
Agricultural processing and marketing	638,982	2.0	547,070	1.9	91,872	3.0
Meat products	36,150	.1	24,221	.1	11,929	.4
Dairy products	33,230	.1	25,984	.1	7,246	.2
Canned, frozen, and preserved fruits and vegetables	34,190	.1	25,620	.1	8,570	.3
Grain mill products	11,580	--	9,098	--	2,482	.1
Bakery products	52,612	.2	50,166	.2	2,446	.1
Sugar and confectionery products	25,009	.1	24,652	.1	357	--
Fats and oils products	2,247	--	1,990	--	257	--
Beverages	27,583	.1	26,166	.1	1,417	.1
Miscellaneous food preparations and kindred products	38,404	.1	32,014	.1	6,390	.2
Tobacco products	941	--	941	--	0	--
Apparel and textiles	316,595	1.0	278,821	1.0	37,734	1.2
Leather products	48,859	.2	37,652	.1	11,207	.4
Farm products raw materials (wholesale trade)	6,865	--	5,525	--	1,340	--
Warehousing	4,717	--	4,220	--	497	--
Wholesale and retail trade of agricultural products	2,972,271	9.4	2,660,069	9.3	312,172	10.3
Indirect agribusiness	686,444	2.2	613,582	2.2	72,860	2.4
Total farm and farm-related employment	4,743,570	15.0	4,121,398	14.5	615,861	20.3
Nonagricultural employment	26,785,932	85.0	24,357,189	85.5	2,425,410	79.8
Total employment	31,529,502	100.0	28,478,587	100.0	3,041,271	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 14—Northern Plains: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	243,784	7.8	20,223	1.3	223,561	14.4
Agricultural services, forestry, fishing	17,295	.6	7,466	.5	9,498	.6
Agricultural inputs	35,006	1.1	6,403	.4	28,603	1.8
Chemical and fertilizer mining	1,095	--	0	--	1,095	.1
Agricultural chemicals	862	--	362	--	500	--
Farm machinery and equipment manufacturing	11,554	.4	2,583	.2	8,971	.6
Farm supply and machinery (wholesale trade)	21,305	.7	3,387	.2	17,918	1.2
Commodity contract brokers and dealers	190	--	71	--	119	--
Agricultural processing and marketing	94,549	3.0	30,613	2.0	63,936	4.1
Meat products	33,611	1.1	10,219	.7	23,392	1.5
Dairy products	3,936	.1	1,779	.1	2,157	.1
Canned, frozen, and preserved fruits and vegetables	3,674	.1	1,559	.1	2,115	.1
Grain mill products	7,566	.2	3,692	.2	3,874	.3
Bakery products	5,585	.2	2,427	.2	3,158	.2
Sugar and confectionery products	1,672	.1	462	--	1,210	.1
Fats and oils products	1,272	--	826	.1	446	--
Beverages	2,165	.1	1,394	.1	771	.1
Miscellaneous food preparations and kindred products	2,805	.1	2,246	.1	559	--
Tobacco products	0	--	0	--	0	--
Apparel and textiles	6,173	.2	2,226	.1	3,947	.3
Leather products	735	--	464	--	271	--
Farm products raw materials (wholesale trade)	23,773	.8	2,480	.2	21,293	1.4
Warehousing	1,582	.1	839	.1	743	.1
Wholesale and retail trade of agricultural products	291,432	9.3	154,360	9.9	137,068	8.8
Indirect agribusiness	46,691	1.5	28,612	1.8	18,079	1.2
Total farm and farm-related employment	728,757	23.4	247,677	15.9	480,745	30.9
Nonagricultural employment	2,390,982	76.6	1,309,456	84.1	1,077,605	69.2
Total employment	3,119,739	100.0	1,557,133	100.0	1,558,350	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 15—Pacific: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	412,253	2.1	289,459	1.6	122,794	8.7
Agricultural services, forestry, fishing	205,764	1.0	177,183	1.0	27,182	1.9
Agricultural inputs	41,575	.2	32,151	.2	9,424	.7
Chemical and fertilizer mining	2,893	--	2,882	--	11	--
Agricultural chemicals	2,578	--	2,390	--	188	--
Farm machinery and equipment manufacturing	3,835	--	3,140	--	695	.1
Farm supply and machinery (wholesale trade)	30,695	.2	22,204	.1	8,491	.6
Commodity contract brokers and dealers	1,574	--	1,535	--	39	--
Agricultural processing and marketing	365,657	1.8	336,981	1.8	28,676	2.0
Meat products	23,835	.1	21,833	.1	2,002	.1
Dairy products	15,011	.1	13,292	.1	1,719	.1
Canned, frozen, and preserved fruits and vegetables	57,744	.3	48,317	.3	9,427	.7
Grain mill products	10,881	.1	9,895	.1	986	.1
Bakery products	30,174	.2	29,679	.2	495	--
Sugar and confectionery products	14,126	.1	13,041	.1	1,085	.1
Fats and oils products	2,767	--	2,521	--	246	--
Beverages	28,443	.1	26,507	.1	1,936	.1
Miscellaneous food preparations and kindred products	36,659	.2	31,543	.2	5,116	.4
Tobacco products	1	--	1	--	0	--
Apparel and textiles	124,649	.6	122,404	.7	2,245	.2
Leather products	8,318	--	8,121	--	197	--
Farm products raw materials (wholesale trade)	7,197	--	5,039	--	2,158	.2
Warehousing	5,852	--	4,788	--	1,064	.1
Wholesale and retail trade of agricultural products	1,934,018	9.6	1,776,846	9.5	157,074	11.1
Indirect agribusiness	328,460	1.6	304,518	1.6	23,942	1.7
Total farm and farm-related employment	3,287,727	16.3	2,917,138	15.6	369,092	26.1
Nonagricultural employment	16,827,383	83.7	15,764,501	84.4	1,047,616	74.0
Total employment	20,115,110	100.0	18,681,639	100.0	1,416,708	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 16—Southeast: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	272,140	2.0	115,399	1.0	156,741	5.6
Agricultural services, forestry, fishing	104,780	.8	75,887	.7	25,693	.9
Agricultural inputs	43,574	.3	25,000	.2	18,574	.7
Chemical and fertilizer mining	4,993	--	4,683	--	310	--
Agricultural chemicals	11,801	.1	7,128	.1	4,673	.2
Farm machinery and equipment manufacturing	3,581	--	1,266	--	2,315	.1
Farm supply and machinery (wholesale trade)	22,459	.2	11,200	.1	11,259	.4
Commodity contract brokers and dealers	740	--	723	--	17	--
Agricultural processing and marketing	471,735	3.4	226,112	2.0	245,623	8.7
Meat products	48,652	.4	20,195	.2	28,457	1.0
Dairy products	9,290	.1	8,385	.1	905	--
Canned, frozen, and preserved fruits and vegetables	18,696	.1	13,171	.1	5,525	.2
Grain mill products	6,661	.1	3,588	--	3,073	.1
Bakery products	23,778	.2	20,196	.2	3,582	.1
Sugar and confectionery products	8,200	.1	5,497	.1	2,703	.1
Fats and oils products	2,447	--	1,547	--	900	--
Beverages	14,523	.1	12,886	.1	1,637	.1
Miscellaneous food preparations and kindred products	16,338	.1	12,538	.1	3,800	.1
Tobacco products	5,072	--	4,711	--	361	--
Apparel and textiles	302,633	2.2	114,783	1.0	187,850	6.7
Leather products	5,291	--	4,021	--	1,270	.1
Farm products raw materials (wholesale trade)	7,505	.1	2,581	--	4,924	.2
Warehousing	2,649	--	2,013	--	636	--
Wholesale and retail trade of agricultural products	1,480,635	10.6	1,206,183	10.8	274,358	9.8
Indirect agribusiness	250,459	1.8	189,275	1.7	61,184	2.2
Total farm and farm-related employment	2,623,323	18.8	1,837,856	16.5	782,173	27.8
Nonagricultural employment	11,357,884	81.2	9,324,413	83.5	2,029,687	72.2
Total employment	13,981,207	100.0	11,162,269	100.0	2,811,860	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

Appendix table 17—Southern Plains: Farm and farm-related employment, by metro and nonmetro areas, 1989

Industry	Total ¹		Metro		Nonmetro	
	Jobs	Share of total employment	Jobs	Share of metro employment	Jobs	Share of nonmetro employment
	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>	<i>Number</i>	<i>Percent</i>
Farm production	294,638	2.9	77,149	0.9	217,489	12.4
Agricultural services, forestry, fishing	48,702	.5	36,996	.5	10,981	.6
Agricultural inputs	29,729	.3	14,479	.2	15,250	.9
Chemical and fertilizer mining	978	--	200	--	778	--
Agricultural chemicals	3,933	--	3,251	--	682	--
Farm machinery and equipment manufacturing	2,290	--	1,133	--	1,157	.1
Farm supply and machinery (wholesale trade)	22,285	.2	9,681	.1	12,604	.7
Commodity contract brokers and dealers	243	--	214	--	29	--
Agricultural processing and marketing	182,122	1.8	124,581	1.5	57,541	3.3
Meat products	28,936	.3	14,716	.2	14,220	.8
Dairy products	7,637	.1	6,359	.1	1,278	.1
Canned, frozen, and preserved fruits and vegetables	9,941	.1	6,367	.1	3,574	.2
Grain mill products	8,177	.1	5,010	.1	3,167	.2
Bakery products	14,421	.1	12,753	.2	1,668	.1
Sugar and confectionery products	3,369	--	2,970	--	399	--
Fats and oils products	3,063	--	2,279	--	784	--
Beverages	13,749	.1	12,719	.2	1,030	.1
Miscellaneous food preparations and kindred products	11,369	.1	10,108	.1	1,261	.1
Tobacco products	135	--	135	--	0	--
Apparel and textiles	53,266	.5	37,001	.5	16,265	.9
Leather products	8,304	.1	6,657	.1	1,647	.1
Farm products raw materials (wholesale trade)	15,993	.2	5,020	.1	10,973	.6
Warehousing	3,762	--	2,487	--	1,275	.1
Wholesale and retail trade of agricultural products	987,752	9.8	830,703	10.0	157,045	9.0
Indirect agribusiness	150,877	1.5	126,933	1.5	23,944	1.4
Total farm and farm-related employment	1,693,820	16.8	1,210,841	14.6	482,250	27.5
Nonagricultural employment	8,407,604	83.2	7,091,410	85.4	1,271,770	72.5
Total employment	10,101,424	100.0	8,302,251	100.0	1,754,020	100.0

-- = None or negligible.

¹Metro and nonmetro jobs may not add to total because some employment was not classified by location.

SUMMARY OF REPORT

Farm and Farm-Related Jobs Up Slightly in 1989

Number 12, March 1993

Contact: T. Alexander Majchrowicz (202) 219-0525

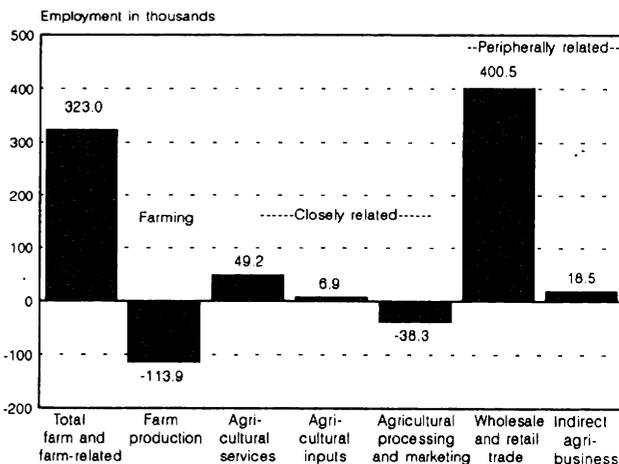
Farm and farm-related employment grew by almost 323,000 jobs during 1988-89, with most of the increase in agricultural wholesale and retail trade industries. Although the number of farm and farm-related jobs rose to over 23 million, their share of total U.S. employment declined from 18 percent in 1988 to 17.3 percent in 1989.

Farm and farm-related employment involves a diverse group of industries, ranging from farm operations to grocery stores that sell farm products. *U.S. Farm and Farm-Related Employment in 1989: Where Are Jobs in Farming and Its Related Industries Most Important?* from USDA's Economic Research Service, uses estimates based on the 1989 County Business Patterns file released by the Bureau of the Census. These data are the latest available and were subsequently enhanced to account for self-employed persons and confidential data not published by the Bureau.

Much of the farm and farm-related employment is only peripherally linked to farming, with more than 15.5 million jobs in agricultural wholesale and retail trade industries or indirect agribusinesses. But, the jobs in farming and its closely related industries that supply agricultural inputs and process and market commodities have a direct effect on many local economies, providing 25 percent or more of total employment in 865 of the approximately 3,100 U.S. counties.

Seventy-one percent of all farm and farm-related jobs are in metro areas, mostly in agricultural wholesale and retail trade industries that have weak links to farming. Over 6.7 million, or 29 percent, of all farm and farm-related jobs were in nonmetro counties in 1989, unchanged from 1988. Two-thirds of all farm production employment remains in nonmetro counties. While most farm and farm-related jobs were concentrated in metro counties, these jobs accounted for only about 15 percent of total metro employment but about 26 percent of all nonmetro employment.

Change in farm and farm-related employment, 1988-89
Jobs moved off the farm and into agricultural wholesale and retail trade.



To Order This Report...

The information presented here is excerpted from *U.S. Farm and Farm-Related Employment in 1989: Where Are Jobs in Farming and Its Related Industries Most Important?*, AIB-654, by T. Alexander Majchrowicz and Jacqueline L. Salsgiver. The cost is \$6.00.

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