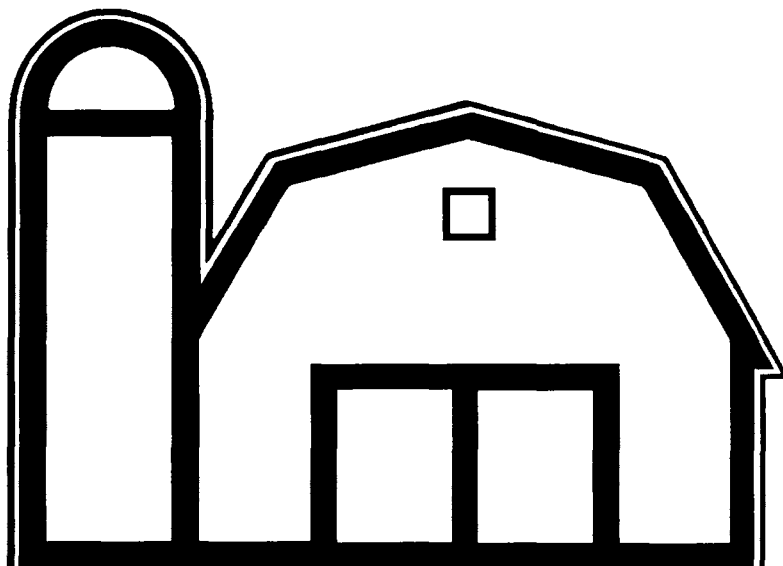


Guide to the 1987 Census of Agriculture and Related Statistics



U.S. Department of Commerce
BUREAU OF THE CENSUS

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This guide was prepared by **Michael A. Hovland**, under the general direction of **Frederick G. Bohme**, Chief, Census History Staff, Data User Services Division.

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1987 Census of Agriculture

Guide to the 1987 Census of Agriculture and Related Statistics

Change Sheet

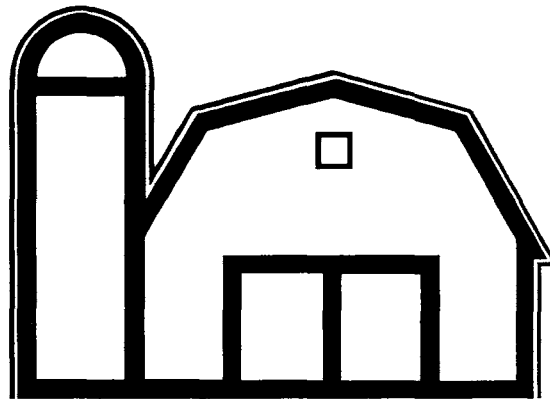
October 2, 1989

Replace "Farm Definition" for Puerto Rico and the Outlying Areas, page 2.

New wording:

Farm Definition — The farm definitions for the 1987 agriculture censuses in Puerto Rico and the outlying areas were based on value of sales of agricultural products. For the 1987 census in Puerto Rico, a place qualified as a farm if it had, or normally would have had, \$500 in total value of sales of agricultural products during the census year or 10 cuerdas or more from which \$100 or more of agricultural products were sold or normally would have been sold during the census year. For Guam, U.S. Virgin Islands, Northern Mariana Islands, and American Samoa, a place qualified as a farm if it had, or normally would have had, \$100 in total value of sales of agricultural products during the census year. Previously, the farm definitions had included places with specified numbers of poultry or livestock, regardless of value of sales. This "old" definition was used in Guam for the enumeration; however, the data for the island were tabulated and published using the "new" definition. The published report included a "bridging" table to enable data users to maintain continuity of specific data sets.

Guide to the **1987** Census of Agriculture and Related Statistics



Issued September 1989



U.S. Department of Commerce
Robert A. Mosbacher, Secretary
Michael R. Darby, Under Secretary
for Economic Affairs
BUREAU OF THE CENSUS



BUREAU OF THE CENSUS

C. L. Kincannon, Deputy Director

Charles A. Waite, Associate
Director for Economic Programs

Roger H. Bugenhagen, Assistant Director for
Economic and Agriculture Censuses

AGRICULTURE DIVISION
Charles P. Pautler, Jr., Chief

DATA USER SERVICES DIVISION
Gerard C. Iannelli, Chief

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CHAPTER 1.

General Information

INTRODUCTION

The census of agriculture is the only source of statistics on U.S. agriculture showing comparable figures county by county and classifying farms by size, tenure, type of organization, principal occupation and age of operator, market value of agricultural products sold, and, at the State level, Standard Industrial Classification (SIC) code. The 1987 Census of Agriculture program included:

- The 1987 Census of Agriculture for the 50 States
- The 1987 Census of Agriculture for Puerto Rico and the outlying areas (Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands (data collection for American Samoa and the Northern Mariana Islands will be carried out as part of the 1990 Census of Population and Housing))
- The 1988 Census of Horticultural Specialties
- The 1988 Farm and Ranch Irrigation Survey
- The 1988 Agricultural Economics and Land Ownership Survey

The Administration, Congress, and Federal, State, and county government organizations, as well as the business community, scientific and educational institutions, and farmer organizations, use census data.

- U.S. Government agencies use agriculture census data on production, sales, and size and type of farm for calculating such combined measures as gross national product (GNP), farm income estimates, and indexes of productivity and price levels.
- The U.S. Department of Agriculture uses census of agriculture data to establish benchmarks or comparisons for many of its periodic estimates and projections.
- Administrative and legislative bodies at all levels of government use the census data in developing farm and rural programs and in analyzing the results of such programs.
- Private businesses, farm cooperatives, and commodity and trade associations rely on the census data as an aid in locating new plants and services and distribution facilities, distributing research resources, forecasting markets, selecting marketing areas, and in other activities that provide better service to the farm community.

- Farm and agriculture-oriented magazines and other news media use census data to provide technical background for news stories and feature articles, to determine their share of the market, and to identify what types of farms they reach.

LEGAL AUTHORITY AND CONFIDENTIALITY

Title 13, United States Code, requires a census of agriculture in 1988 (covering 1987) and every fifth year thereafter, imposes joint responsibilities on respondents and the Census Bureau, and specifies penalties for non-compliance. The law requires respondents to supply the data requested, while the Census Bureau must maintain the confidentiality of the data supplied. No data may be published that can be used to identify an individual or a particular farm, nor may the data furnished by respondents be used for any but statistical purposes. Only sworn officials or employees of the Census Bureau may have access to the individual census records.

HISTORICAL BACKGROUND

The 1987 Census of Agriculture is the 23d conducted by the United States. The first agricultural enumeration was carried out in 1840 as part of the Sixth Decennial Census of Population. From 1840 through 1950, an agricultural census was taken as part of the decennial census, while separate agricultural enumerations were conducted in 1925, 1935, and 1945. From 1954 through 1974, agricultural censuses were carried out for years ending in "4" and "9." In 1976, Congress authorized adjusting the data reference year so that it coincided with the economic censuses. This timing established the agriculture census on a 5-year cycle, collecting data for years ending in "2" and "7."

The agriculture censuses obtained data by personal-visit interview until the Census Bureau introduced the mailout/mailback method for the 1969 enumeration. Since 1969, the census has been carried out primarily by mail in the 50 States. The agriculture censuses in Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands continue to use the personal-interview technique.

THE 1987 CENSUS OF AGRICULTURE FOR THE 50 STATES

Scope and Content

The 1987 Census of Agriculture in the 50 States covered all agricultural operations that met the Bureau's

definition of a farm. All agricultural operations were asked to provide data on:

- Acreage
- Crops
- Fruits and nuts
- Vegetables
- Nursery and greenhouse crops
- Market value of sales
- Land use
- Irrigation
- Land in government programs
- Amount received in cash or payment-in-kind (PIK) certificates from government programs
- Livestock and poultry
- Animal specialties
- Amount received from Government Commodity Credit Corporation (CCC) loans
- Type of organization
- Characteristics and occupation of operator
- Year operator began operating farm

The census requested additional information from an approximate 25-percent sample of operators made up of all operations with expected sales above a certain value and a random sample of all other farms in each county. A 25-percent sample was small enough to limit respondent burden but large enough to provide reliable county-level estimates for:

- Use of fertilizers and chemicals
- Total production expenses
- Machinery and equipment
- Market value of land and buildings
- Interest expense for secured and nonsecured loans
- Amount received from farm-related income

Reference Dates

The census requested inventory data as of December 31, 1987, and other data (except for a few crops, such as citrus, for which data were collected for the production year) for calendar year 1987.

Farm Definition

The census defined a farm as any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year.

General Procedures

The 1987 Census of Agriculture was a mail census; i.e., report forms were mailed to names and addresses assembled in an agriculture census mail list. Cover letters asked

addressees to complete the report forms and mail them back to the Census Bureau. Mail and telephone followup to nonrespondents continued over a period of 6 months after the initial mailout.

The report forms were reviewed as they arrived and the data were transferred to computer tape for editing. As each State or area was "closed out" (i.e., once an acceptable overall level of response had been achieved), the data were tabulated with estimates for operations that did not respond, and the data publication for a State or area was prepared.

Geographic Area Detail

The 1987 Census of Agriculture provides data for the United States, the 50 States, and for more than 3,000 counties or their equivalents. For census purposes, the United States is the 50 States and the District of Columbia (the 1987 Census of Agriculture did not publish a data report for the latter); county equivalents include parishes in Louisiana and census areas in Alaska. The 1987 publication program also includes, for the first time, limited agriculture census data by five-digit ZIP-Code area. State or area totals are aggregates of the county or county-equivalent totals, while the U.S. data are aggregates of the State counts.

THE 1987 CENSUS OF AGRICULTURE FOR PUERTO RICO AND THE OUTLYING AREAS

General Information

Legal authority—Puerto Rico, Guam, the Northern Mariana Islands, American Samoa, and the U.S. Virgin Islands were included in the 1987 Census of Agriculture program under authority granted by Title 13, United States Code—Census, and, for Puerto Rico, also by appropriate acts of the Commonwealth legislature.

Farm definition—The farm definitions for the 1987 agriculture census in Puerto Rico and the outlying areas were based on value of sales of agricultural products. For the 1987 census, a place qualified as a farm if it had, or normally would have, \$100 in total value of sales of agricultural products during the census year. Previously, the farm definitions had included places with specified numbers of poultry or livestock, regardless of value of sales, and this "old" definition was used in Guam for the enumeration; however, the data for the island were tabulated and published using the "new" definition. The published report included a "bridging" table to enable users to maintain continuity of specific data sets.

Reference dates—The census collected production and sales data for Guam for the 12 months ending December 31, 1987, and inventory data as of the date of

enumeration. Production and sales data for Puerto Rico and the U.S. Virgin Islands were requested as of June 30, 1988, and inventory data as of the date of enumeration.

Geographic detail—The publication program includes separate reports for each of the outlying areas and for Puerto Rico. In addition to “area level” data, the U.S. Virgin Islands report includes tabulations for the island of St. Croix, and (combined) for the islands of St. Thomas and St. John. The Guam report shows data for the island and for election districts. For Puerto Rico, data are published for the Commonwealth and for municipios.

General Procedures

The agriculture censuses in these areas used field enumerations, with staffs recruited locally. Census Bureau personnel selected and trained the census supervisors (in Puerto Rico, Bureau headquarters employees helped staff the census office as well), who then selected and trained their office staff, crew leaders, and enumerators. The 1987 census made extensive use of minicomputers in the Puerto Rico census office for much of the pre-tabulation processing of the report forms, including those from Guam and the Virgin Islands. (The computer facilities were established in Puerto Rico to process the economic censuses for the Commonwealth, carried out before the agriculture enumeration. The office and equipment were available early enough to begin processing the agriculture report forms from Guam (the earliest census completed).)

RELATED CENSUSES AND SURVEYS FOR THE 50 STATES

1988 Census of Horticultural Specialties

The census of horticultural specialties, conducted every 10 years, is the only source of comprehensive horticultural data for each county and State. For census purposes, a horticulture establishment is defined as an operation growing and selling \$2,000 or more of horticultural products (greenhouse products, outdoor-grown floricultural products, nursery products, mushrooms, and sod) during the census year.

The statistics are collected by mail from horticultural operators. Content of the 1988 report form is the result of consultation between leaders and organizations in the industry and Government agencies.

Tabulations are available by geographic area (counties, States, and the United States) and by subject (market value or horticultural products sold, type of horticulture products, and kind of business). The printed reports are scheduled for release in mid-1990.

1988 Farm and Ranch Irrigation Survey

Scope and content—This survey supplements the basic irrigation data collected from all farm operators in the 1987 Census of Agriculture. The survey used a sample to obtain detailed data about on-farm irrigation practices without burdening all farm operators. The survey asked for data on:

- Irrigated acreage
- Crops—acres, yield, and quantity of water applied
- Method of on-farm water distribution
- Number of wells
- Energy use
- Irrigation maintenance costs
- Irrigation practices

Data publication—Data will be published for the United States, the 27 States that account for more than 98 percent of all irrigation, including the 17 Western States, and for all water resources areas. These estimates are expected to be available for public use early in 1990.

1988 Agricultural Economics and Land Ownership Survey

Scope and content—This survey asked agricultural operations to provide data on:

- Acreage operated
- Agricultural land ownership
 - Value
 - Acquisition
 - Land use
 - Debt
 - Source of debt
- Purchases and expenditures
- Market value of agricultural products sold
- Production contracts
- Income and expenses from farm-related activities
- Real estate taxes
- Assets
 - Business
 - Household
- Off-farm income and work

In addition, landlords were asked to report:

- Type of ownership
- Characteristics of landlords

Economic data were requested for the calendar year 1988 and land ownership data, except a few selected items, as of December 31, 1988.

Data publication—Publication plans call for a printed report and a computer tape file. Some unpublished data series, providing more details than the printed reports, will be available on computer tape by special request.

Data published for each State include: Assets for farm, numbers of operators and landlords, volume of agricultural products sold, income and production contracts for operators, capital purchases and operating expense for landlords and farm operators, farm debt for both landlords and operators, real estate taxes, off-farm income, farm household characteristics, and characteristics of landlords. Highlights of the 1988 Agricultural Economics and Land Ownership Survey will be available on the AgriData Network

and on CENDATA, the Census Bureau's online information service available through the DIALOG and CompuServe systems. Data are scheduled for release in early 1990.

THE STANDARD INDUSTRIAL CLASSIFICATION SYSTEM

The Standard Industrial Classification (SIC) system classifies economic establishments, including those involved in agricultural production. The agriculture census publications include data for agricultural operations tabulated by SIC code. The SIC system assigns numeric codes to specific economic activities, the focus of each code category narrowing with each additional digit. For example, SIC major group 01 covers agricultural production—crops. Adding the digit "1" gives the SIC group code for cash grains (011). To identify a specific type of grain production, a fourth digit gives the "industry" code, e.g., 0112—rice. A farm is "primarily" engaged in a particular crop production or other agricultural activity if that activity or crop accounts for 50 percent or more of the total value of sales of the farm's agricultural production. If the total value of sales for agricultural products for a farm is less than 50 percent from a single four-digit industry, but 50 percent or more of its sales are derived from two or more industries within the same SIC group (e.g., corn (SIC 0115) and soybeans (SIC 0116)), the farm is classified as a miscellaneous establishment within the SIC industry group (in this case, 011); otherwise it is classified as a "general farm, primarily crops" (SIC 0191).

Data in the economic censuses, except for portions of the census of transportation, are collected and summarized based on the SIC system. The four-digit industry code is generally sufficient for SIC coverage of agricultural production, since it identifies individual types of farms. Some industries, including a number of manufacturing industries closely related to agriculture, require more detailed codes to differentiate between specific products. This has led the Bureau to develop some 1,400 five-digit "product class" SIC codes and about 11,000 seven-digit "product" codes that enable it to break down the major SIC codes to the specific product level. The following illustrates how the system works:

Major group 28:	Chemicals and allied products
Group 287:	Agricultural chemicals
Industry 2873:	Nitrogen fertilizers
Product class 28731:	Synthetic ammonia, nitric acid, and ammonium compounds
Product 28731 11:	Nitric acid (100% HNO ₃)

HOW THE DATA ARE PUBLISHED

The Bureau of the Census publishes data in a variety of media: Printed reports, "flexible" diskettes, computer tape, and compact disc-read only memory (CD-ROM). Printed

reports can be purchased from the U.S. Government Printing Office, while the Bureau of the Census is the only source for census data on electronic media. For more information on obtaining Census Bureau products, as well as on reference sources, special tabulations, etc., see Chapter 4, "Obtaining the Data."

LEGEND	
☐	Printed report
⊗	Computer tape
■	Diskette
⊙	CD-ROM
Ⓜ	Online
▣	Microfiche
*	Available from: Superintendent of Documents U.S. Government Printing Office Washington, DC 20402 (202) 783-3238
+	Available from: Customer Services Data User Services Division Bureau of the Census Washington, DC 20233 (301) 763-4100

☐ **Printed reports**—The agriculture census includes separate advance reports for the United States, each State, and each county or county equivalent; final general statistical reports for the United States, each State, Puerto Rico, Guam, and the U.S. Virgin Islands (reports for the Northern Mariana Islands and American Samoa will be published as part of this series sometime after the 1990 population and housing census); separate statistical reports for each of the related censuses and surveys; and subject matter reports covering the coverage evaluation, ranking of States and counties, and so on.

⊗ **Public-use computer tape**—The Census Bureau's computer tapes are available in 9-track, 1,600-bpi (bits per inch) or 6,250-bpi recording density, and in either the Extended Binary Coded Decimal Interchange Code (EBCDIC) or the American Scientific Code for Information Interchange (ASCII) recording languages. The unit of issue for the public-use tapes is the file; each file corresponds to a particular geographic or subject matter area.

■ **Flexible diskettes**—Flexible diskettes contain data products in microcomputer format on 5 1/4 inch, high density diskettes (1.2 megabytes). The files are generated for an IBM personal computer and can be used with any compatible microcomputer employing the PC DOS 2.0

or higher operating system. Advance reports of the 1987 Census of Agriculture and 1988 Farm and Ranch Irrigation Survey will be released on flexible diskettes.

Ⓞ **Compact disc-read only memory (CD-ROM)**—The rigid CD is able to hold about 600 million characters (megabytes), or the equivalent of about 1,500 flexible diskettes or 4 high density computer tapes. The agriculture census data will be available on two CD-ROM's; the State aggregate data will be on one and the county data for 1987, 1982, and 1978 on the second, which also will include the 1987 Puerto Rico data.

Ⓜ **Online access**—CENDATA, the Census Bureau's online information service, is available through two information vendors—CompuServe and DIALOG. They will have *Advance Reports* at the national and State levels from

the 1987 Census of Agriculture and highlights of the *Subject Series, Related Surveys*, and *1988 Census of Horticultural Specialties* reports. In addition to the highlights of these reports, *Advance Reports* at county level and press releases will be available online from a third vendor—AgriData Network.

■ **Microfiche**—These are 4" x 6" sheets of photographic film containing up to 98 frames (or pages) of tables, text, or other printed material, reduced 24 times from their original size. Many libraries have the equipment needed to read microfiche and produce paper prints of individual pages; this equipment also is available commercially. The census of agriculture reports are not published in microfiche editions, but most final reports from the Census Bureau's other censuses and surveys printed on paper are produced on fiche as well.

CHAPTER 2.

Agriculture Statistics

THE 1987 CENSUS OF AGRICULTURE

General Information

The 1987 Census of Agriculture publication program consists of

- *Advance Reports* for each of over 3,000 counties and county equivalents, each State, and the United States.
- Volume 1, *Geographic Area Series, State and County Data*, is a final report for the United States, each State, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands.¹
- Volume 2, *Subject Series*, consists of six parts: 1, *Agricultural Atlas of the United States*; 2, *Coverage Evaluation*; 3, *Ranking of States and Counties*; 4, *History*; 5, *Government Payments and Market Value of Agricultural Products Sold*; and 6, *ZIP Code Tabulations of Selected Items From the 1987 Census of Agriculture*.

¹Agriculture data will be collected for American Samoa and the Northern Mariana Islands in connection with the 1990 Census of Population and Housing, but will be issued as part of the 1987 Census of Agriculture publication program.

- Volume 3, *Related Surveys*, consists of two parts— the *1988 Farm and Ranch Irrigation Survey* and the *1988 Agricultural Economics and Land Ownership Survey* reports.
- Volume 4 covers the *1988 Census of Horticultural Specialties*.

Historical Data

All of the agriculture census reports include historical statistics from one, and sometimes two, preceding censuses. Summary tables on farms, land in farms, and land use in the volume 1 reports usually show historical data from several earlier censuses.

The comparability of historical data may not be exact; the definition of a farm and the method of enumeration used in the census have changed periodically. Users should note any restrictions or explanations about comparability included in the text, or in table footnotes.

TABLE FROM 1987 CENSUS OF AGRICULTURE, ADVANCE REPORTS

Farms, Land in Farms, and Selected Items: 1987 and 1982

Item	All farms		Farms with sales of \$10,000 or more	
	1987	1982	1987	1982
Farms..... number.....	857	1 009	432	588
Land in farms..... acres.....	(D)	210 109	(D)	188 530
Average size of farm..... acres.....	(D)	208	(D)	315
Value of land and buildings: ¹				
Average per farm..... dollars.....	402 674	367 064	662 995	540 137
Average per acre..... dollars.....	1 568	1 783	1 538	1 732
Estimated market value of all machinery and equipment: ¹				
Average per farm..... dollars.....	57 040	51 393	92 800	77 492
Farms by size:				
1 to 9 acres.....	73	87	27	25
10 to 49 acres.....	251	257	67	70
50 to 179 acres.....	268	358	106	211
180 to 499 acres.....	162	209	129	194
500 to 999 acres.....	57	61	57	61
1,000 acres or more.....	46	37	46	37
Total cropland..... farms.....	791	942	392	564
Harvested cropland..... acres.....	170 377	174 788	153 317	162 391
Irrigated land..... farms.....	721	905	363	552
..... acres.....	150 674	167 936	137 497	157 359
..... farms.....	113	93	85	79
..... acres.....	18 521	15 549	18 303	15 333
Market value of agricultural products sold..... \$1,000.....	83 607	73 447	82 265	72 018
Average per farm..... dollars.....	97 557	72 792	190 429	120 432
Crops, including nursery and greenhouse crops..... \$1,000.....	38 890	41 335	37 919	40 251
Livestock, poultry, and their products..... \$1,000.....	44 717	32 112	44 347	31 767
Farms by value of sales:				
Less than \$2,500.....	199	185	-	-
\$2,500 to \$4,999.....	115	105	-	-
\$50,000 or more.....	-	-	-	-

Published Reports

Advance Reports, □ * ⊕ ■ + ▣, series AC87-A-01-000(A) to 56-000(A) (for States) and AC87-01-001(A) to 56-045(A) (for counties).² Before publishing the final reports, the Census Bureau issues an advance report for each county (or county equivalent) in the United States with 10 farms or more, for each State, and for the United States. The reports present highlights for all farms and farms with sales of \$10,000 or more. Selected data items include number of farms, land in farms, size of farms, land use practices, farm operator characteristics, selected production expenditures, livestock and poultry inventories and sales, and major crops harvested. The reports include comparable data from the 1982 census. The advance reports are published on a flow basis and provide data on major items at the earliest possible date. No advance reports are issued for Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, or the Northern Mariana Islands.

²Advance Report series numbers are derived from the Federal Information Processing Standards (FIPS) code list, in which a two-digit code identifies each State. That number, plus a three-digit county code, identifies each county within a State. Advance Report AC87-A, 24-029(A), for example, is the 1987 Census of Agriculture advance report ("(A)") for Maryland's ("24") Kent County ("029"). Users should be aware that FIPS codes are not assigned in strict numerical sequence, nor are they used in the final reports series.

Volume 1, **Geographic Area Series, State and County Data**, □ * ⊕ ⊙ +, series AC87-A-1 to 56. Volume 1 includes a United States summary with data for States, and separate reports for each of the 50 States; Puerto Rico (highlights ■); and Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands (□ * and highlights ■ only). State reports consist of an introductory text and two chapters of detailed statistical tables, one for the State (or area), the second for counties. (The *United States* chapter 1 shows national-level data, while chapter 2 shows summary State-level data.)

The State tables cover all the items collected in the census: Farms, land in farms, and land use and irrigated land; crop production and value of sales; livestock and poultry inventories and sales; selected characteristics of farms operated by females, and by persons of Spanish origin and specified racial groups (i.e., White, Black, Asian and Pacific Islander, and American Indian and Alaska Native); tenure and operator characteristics; value of machinery and equipment; agricultural chemicals used including fertilizer; total production expenses; fuel expenses; Commodity Credit Corporation (CCC) loans; Government payments and other farm related income and characteristics of farms by SIC codes. Tables also show selected 1987 summary State data cross-tabulated by various farm classifications, such as size of farm, tenure of operator, type of organization, market value of agricultural products sold, various operator characteristics (e.g., age and principal occupation), and SIC code.

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, STATE DATA

Table 2. **Market Value of Agricultural Products Sold: 1987, 1982, and 1978**

[For meaning of abbreviations and symbols, see introductory text]

Item	1987	Percent of total in 1987	1982	1978
Total sales (see text) ----- farms...	2 966	100.0	3 338	3 398
Average per farm ----- \$1,000...	443 065	100.0	370 562	321 248
----- dollars...	149 381	(X)	111 013	84 540
Value of sales ¹ :				
Less than \$1,000 (see text) ----- farms...	280	9.4	230	101
----- \$1,000...	91	(Z)	75	47
\$1,000 to \$2,499 ----- farms...	260	8.8	318	267
----- \$1,000...	429	.1	525	450
\$2,500 to \$4,999 ----- farms...	270	9.1	304	336
----- \$1,000...	977	.2	1 103	1 211
\$5,000 to \$9,999 ----- farms...	297	10.0	306	379
----- \$1,000...	2 059	.5	2 190	2 655
\$10,000 to \$19,999 ----- farms...	215	7.2	373	384
----- \$1,000...	3 106	.7	5 294	5 575
\$20,000 to \$24,999 ----- farms...	65	2.2	106	127
----- \$1,000...	1 439	.3	2 355	2 804
\$25,000 to \$39,999 ----- farms...	141	4.8	239	272
----- \$1,000...	4 400	1.0	7 580 740	8 637
\$40,000 to \$49,999 ----- farms...	74	2.5	94	140
----- \$1,000...	3 280	.7	4 186	6 278
\$50,000 to \$99,999 ----- farms...	257	8.7	346	442
----- \$1,000...	18 600	4.2	25 502	32 505
\$100,000 to \$249,999 ----- farms...	549	18.5	601	678
----- \$1,000...	91 358	20.6	98 409	106 107
\$250,000 to \$499,999 ----- farms...	403	13.6	303	184
----- \$1,000...	133 892	30.2	102 430	62 588
\$500,000 to \$999,999 ----- farms...	117	3.9	-	74
----- 1,000...	77 590	17.5	-	92 152
\$1,000,000 or more ----- farms...	38	1.3	-	-
----- \$1,000...	105 843	23.9	-	-
Sales by commodity or commodity group:				
Crops, including nursery and greenhouse crops ----- farms...	1 992	67.2	2 501	2 628
----- \$1,000...	95 609	21.6	110 278	102 937
Grains ----- farms...	1 733	58.4	2 254	2 380
----- \$1,000...	-	10.5	74 889	70 898

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, STATE DATA

Table 25. Cattle and Calves—Inventory: 1987 and 1982

[For meaning of abbreviations and symbols, see introductory text]

Item	1987		1982	
	Farms	Number	Farms	Number
Cattle and calves	461	31 191	660	33 380
Farms with—				
1 to 9	188	810	265	1 016
10 to 19	74	1 007	121	1 662
20 to 49	85	2 616	124	3 737
50 to 99	46	3 246	70	4 833
100 to 199	32	4 397	48	6 550
200 to 499	29	7 780	26	6 760
500 to 999	5	3 290	4	(D)
1,000 to 2,499	-	-	1	(D)
2,500 or more	2	8 045	1	(D)
Cows and heifers that had calved	358	11 541	517	15 085
Farms with—				
1 to 9	178	848	248	846
10 to 19	45	613	91	1 202
20 to 49	60	1 098	84	2 457
50 to 99	37	2 507	57	3 867
100 to 199	30	3 837	26	3 154
200 to 499	8	2 238	9	(D)
500 to 999	-	-	2	(D)
1,000 or more	-	-	-	-
Beef cows	216	2 187	311	5 129
Farms with—				
1 to 9	155	587	202	704
10 to 19	19	236	50	625
20 to 49	36	980	44	(D)
50 to 99	6	384	10	627
100 to 199	-	-	1	(D)

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, STATE DATA

Table 42. Crops Harvested and Value of Production: 1987 and 1982

[For meaning of abbreviations and symbols, see introductory text]

Crop	1987				1982			
	Farms	Acres	Quantity	Value of production ¹ (\$1,000)	Farms	Acres	Quantity	Value of production ¹ (\$1,000)
Harvested cropland	2 172	441 345	(X)	96 953	2 700	499 988	(X)	-
Corn for grain or seed (bushels)	1 076	129 805	9 796 185	19 103	1 363	150 676	14 880 293	-
Corn for silage or green chop or cut for dry fodder, hogged or grazed	155	11 145	(X)	1 789	209	10 034	(X)	-
Sorghum for grain or seed (bushels)	21	864	23 705	39	6	115	4 407	-
Sorghum for silage or green chop, cut for dry forage or hay, or hogged or grazed	13	258	(X)	19	28	283	(X)	-
Wheat for grain (bushels)	630	43 377	1 817 634	4 453	783	56 867	2 234 788	-
Barley for grain (bushels)	359	32 492	1 685 161	2 168	471	33 951	1 912 955	-
Oats for grain (bushels)	59	573	34 955	42	108	1 236	67 034	-
Rye for grain (bushels)	64	906	22 927	39	120	1 472	36 337	-
Rice (cwt)	-	-	-	-	-	-	-	-
Flaxseed (bushels)	-	-	-	-	-	-	-	-
Sunflower seed (pounds)	1	175	52 500	3	-	-	-	-
Soybeans for beans (bushels)	1 515	220 176	4 135 595	22 332	1 891	264 971	6 373 519	-
Dry edible beans, excluding dry limas (cwt)	3	315	2 140	36	4	172	1 900	-
Peanuts for nuts (pounds)	-	-	-	-	-	-	-	-
Cotton (bales)	-	-	-	-	-	-	-	-
Tobacco (pounds)	1	(Z)	200	(Z)	-	-	-	-
Irish potatoes (cwt)	42	8 188	1 559 022	10 913	46	5 573	1 332 103	-
Sweetpotatoes (bushels)	8	14	3 289	16	9	10	1 465	-
Pineapples harvested (tons)	-	-	-	-	-	-	-	-
Sugar beets for sugar (tons)	-	-	-	-	-	-	-	-
Sugarcane for sugar (tons)	-	-	-	-	-	-	-	-
Hay—alfalfa, other tame, small, wild, grass silage, green chop	50	48 341	65 000	295	16	926	140	-

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, STATE DATA

Table 48. Summary by Tenure of Operator: 1987

[For meaning of abbreviations and symbols, see introductory text]

Item	All farms				Farms with sales of \$10,000 or more			
	Total	Full owners	Part owners	Tenants	Total	Full owners	Part owners	Tenants
FARMS AND LAND IN FARMS								
Farms number	2 966	1 825	857	284	1 859	1 064	636	159
..... percent	100.0	61.5	28.9	9.6	62.7	35.9	21.4	5.4
Land in farms acres	608 088	142 331	398 881	66 876	540 390	98 735	382 089	59 556
Average size of farm acres	205	78	465	235	291	93	601	375
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD								
Total sales (see text) farms	2 966	1 825	857	284	1 859	1 064	636	159
..... \$1,000	443 065	231 331	178 174	33 560	439 509	229 138	177 280	33 110
Average per farm dollars	149 381	126 757	207 904	118 169	236 422	215 356	278 711	208 240
Farms by value of sales:								
Less than \$1,000 (see text)	280	213	45	22	-	-	-	-
\$1,000 to \$2,499	260	195	36	29	-	-	-	-
\$2,500 to \$4,999	270	188	48	34	-	-	-	-
\$5,000 to \$9,999	297	165	92	40	-	-	-	-
\$10,000 to \$19,999	215	116	65	34	215	116	65	34
\$20,000 to \$24,999	65	27	30	8	65	27	30	8
\$25,000 to \$39,999	141	55	56	30	141	55	56	30
\$40,000 to \$49,999	74	30	35	9	74	30	35	9
\$50,000 to \$99,999	257	159	77	21	257	159	77	21
\$100,000 to \$249,999	549	343	175	31	549	343	175	31
\$250,000 to \$499,999	403	259	129	15	403	259	129	15
\$500,000 to \$999,999	117	61	49	7	117	61	49	7
\$1,000,000 or more	38	14	20	4	38	14	20	4
Grains farms	1 733	760	770	203	1 070	353	599	118
..... \$1,000	46 486	6 736	34 170	5 560	44 345	5 605	33 481	5 259
Sales of \$50,000 or more farms	241	22	188	31	241	22	188	31
..... \$1,000	31 129	1 875	25 680	3 573	31 129	1 875	25 680	3 573
Corn for grain farms	915	307	504	104	715	185	447	83
..... \$1,000	19 959	2 269	13 447	2 443	17 736	2 082	13 647	2 440

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, COUNTY DATA

NOTE: Data do not represent actual census results.

Table 1. County Summary Highlights: 1987

[For meaning of abbreviations and symbols, see introductory text]

Item	Hodgeman	Jackson	Jefferson	Jewell	Johnson	Keary	Kingman	Kowa
Farms number	466	1 156	1 047	808	766	297	860	354
Land in farms acres	482 739	376 330	271 691	510 447	169 986	532 077	492 197	422 852
Average size of farm acres	1 036	326	259	632	222	1 792	572	1 194
Value of land and buildings ¹ :								
Average per farm dollars	514 238	199 151	223 582	357 586	400 038	806 626	390 553	465 102
Average per acre dollars	474	599	863	534	1 781	419	690	441
Estimated market value of all machinery and equipment ¹ :								
Average per farm dollars	65	524	29 065	31 181	60 452	31 880	117 706	51 976
Farms by size:								
1 to 9 acres	22	149	178	56	179	34	74	11
10 to 49 acres (D)	4 473	5 624	822	5 655	336	1 615	353	
50 to 179 acres	7 159	45 282	42 263	17 361	26 893	5 884	20 849	1 843
180 to 499 acres	31 507	85 853	75 160	78 673	46 224	13 131	90 510	22 994
500 to 999 acres	84 778	118 080	72 698	126 204	42 254	33 565	127 031	62 974
1,000 acres or more	358 700	122 493	75 768	287 331	48 781	478 106	252 318	
Total cropland farms	433	1 027	936	741	659	259	798	328
..... acres	322 953	224 824	181 878	346 850	119 893	384 272	346 061	245 857
Harvested cropland farms	417	951	855	719	555	242	772	317
..... acres	164 424	139 408	128 243	249 175	89 698	216 509	265 252	144 836
Irrigated land farms	128	6	7	52	23	114	67	96
..... acres	22 198	2 445	1 178	7 074	1 609	87 875	9 708	39 705
Market value of agricultural products sold \$1,000	74 532	26 814	27 124	50 003	24 809	148 709	41 928	26 428
Average per farm dollars	159 941	23 196	25 906	61 885	32 387	500 074	48 754	74 656

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, COUNTY DATA

NOTE: Data do not represent actual census results.

Table 5. Farms, Land in Farms, and Land Use: 1987 and 1982

[For meaning of abbreviations and symbols, see introductory text]

All farms	Labette	Lane	Leavenworth	Lincoln	Linn	Logan	Lyon	McPherson
FARMS AND LAND IN FARMS								
Farms number, 1987..	1 064	335	1 237	615	772	379	945	1 476
..... number, 1982..	1 081	333	1 065	633	784	411	968	1 506
Land in farms acres, 1987..	354 722	462 978	227 331	440 520	280 637	583 314	500 674	557 157
..... acres, 1982..	358 092	461 062	212 020	444 370	298 119	618 124	478 637	549 863
Average size of farm acres, 1987..	333	1 382	184	718	364	1 539	530	377
..... acres, 1982..	331	1 385	199	702	380	1 504	494	365
Value of land and buildings ¹ :								
Average per farm dollars, 1987..	185 431	658 278	195 120	346 918	221 940	676 507	277 011	286 058
..... dollars, 1982..	206 125	534 704	193 254	299 452	192 501	520 978	220 092	248 598
Average per acre dollars, 1987..	613	489	1 063	467	524	438	554	834
..... dollars, 1982..	600	377	880	422	561	324	456	737
Approximate land area acres, 1987..	417 792	459 142	296 076	460 588	384 505	686 860	540 422	576 166
Proportion in farms percent, 1987..	84.9	100.6	76.8	95.6	73.0	84.9	92.6	96.7
1987 size of farm:								
1 to 9 acres farms..	43	15	62	30	24	17	37	68
..... acres..	149	33	267	43	83	21	116	188
10 to 49 acres farms..	126	10	327	17	99	7	89	148
..... acres..	3 570	(D)	9 164	553	3 128	1	89	148
50 to 69 acres farms..	55	1	99	14	27	5	33	50
..... acres..	3 179	(D)	5 793	849	1 557	300	2 010	2 974

TABLE FROM 1987 CENSUS OF AGRICULTURE, GEOGRAPHIC AREA SERIES, COUNTY DATA

NOTE: Data do not represent actual census results.

Table 16. Farms With Sales of \$10,000 or More: 1987 and 1982

[Data for 1987 include abnormal farms. For meaning of abbreviations and symbols, see introductory text]

Item	Johnson	Knox	Laclede	Lafayette	Lawrence	Lewis	Lincoln	Linn
FARMS AND LAND IN FARMS								
Land in farms farms, 1987..	801	466	480	856	668	498	670	604
..... farms, 1982..	885	511	477	978	754	511	711	692
..... acres, 1987..	314 602	251 451	187 990	310 950	217 180	237 344	232 066	287 411
..... acres, 1982..	320 731	257 796	181 377	314 065	225 060	235 581	250 807	303 276
Average size of farm acres, 1987..	393	540	392	351	325	477	346	476
..... acres, 1982..	362	504	380	322	298	461	353	438
Value of land and buildings ¹ :								
Average per farm dollars, 1987..	33 322	448 571	234 481	379 144	282 684	368 295	379 384	406 700
..... dollars, 1982..	262 384	360 247	173 300	328 285	231 599	382 055	344 943	289 318
Average per acre dollars, 1987..	814	781	605	1 068	839	785	1 112	802
..... dollars, 1982..	740	741	455	965	711	783	928	687
Total cropland								
..... farms, 1987..	777	451	437	860	627	482	625	583
..... farms, 1982..	857	507	454	952	722	500	675	674
..... acres, 1987..	225 776	195 897	102 748	244 178	146 672	180 664	173 798	226 576
..... acres, 1982..	234 968	198 761	101 806	249 113	166 217	177 027	183 425	237 534
Harvested cropland								
..... farms, 1987..	750	446	375	846	580	478	601	567
..... farms, 1982..	823	503	394	929	662	495	648	654
..... acres, 1987..	151 336	139 340	35 332	200 799	82 638	136 449	138 385	159 960
..... acres, 1982..	144 203	136 246	31 663	191 720	83 012	124 272	138 095	151 052
Irrigated land								
..... farms, 1987..	5	—	1	8	11	—	5	2
..... farms, 1982..	10	1	2	13	8	1	3	4
..... acres, 1987..	346	—	(D)	377	826	—	742	(D)
..... acres, 1982..	774	(D)	(D)	1 338	348	(D)	(D)	590
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD								
Total sales (see text) \$1,000, 1987..	40 900	30 271	27 848	70 361	47 450	33 834	56 581	35 582
..... \$1,000, 1982..	40 516	27 064	20 471	62 856	33 766	28 662	49 255	38 255
Average per farm dollars, 1987..	51 061	64 959	58 017	79 414	71 033	67 940	84 449	58 911
..... dollars, 1982..	45 781	52 963	42 917	64 401	44 783	56 089	69 290	55 281

Chapter 2 of the State and county reports presents selected data for all counties for farms, land in farms, land use and irrigated land; farm production expenses; CCC loans, Government payments and other farm related income; tenure and characteristics of operator; machinery and equipment; agricultural chemicals used, including fertilizer; livestock and poultry inventories and sales; farms operated by Spanish origin and by specified racial groups. The counties are listed alphabetically in the column headings. Specific tables show data for counties with three or more farms reporting a particular item. Items shown include various animal specialties (e.g., goats, mink, bees, fish sales, grains, field seeds), nursery and greenhouse products, tenure, farms operated by persons of selected racial groups or Spanish origin, CCC loans by commodity group, etc. The reports combine data for counties with fewer than three farms reporting a given item into an "all other counties" category for the State.

Volume 2, **Subject Series**, series AC87-S-1 to 6. This series consists of six parts:

- *Agricultural Atlas of the United States*, AC87-S-1, □ * , presents a profile of the Nation's agriculture in a series of U.S. dot and multicolor pattern maps.
- *Coverage Evaluation*, AC87-S-2, □ * , provides national and regional level estimates on the completeness of the census, in both the number of farms missed and selected characteristics of those farms.
- *Ranking of States and Counties*, AC87-S-3, □ * , shows the ranking of the top 20 States and the top 100 counties in the order of importance of most selected items for 1987. Most tables include comparative data from the 1982 census. Tables also show cumulative total percent of products or other items for the topmost States and counties. (Highlights, ▣ .)
- *History*, AC87-S-4, □ * , presents a concise description of the major census operations together with facsimiles of selected data collection forms.
- *Government Payments and Market Value of Agricultural Products Sold* , AC87-S-5, □ * ⊕ + , shows detailed data for farms cross-tabulated by combined market value of agriculture products sold and Government payments received, including detailed national data and selected State data. (Highlights, ▣ .)
- *ZIP Code Tabulation of Selected Items From the 1987 Census of Agriculture*, AC87-S-6, □ * ⊕ + , includes tabulation by ZIP Code for selected items from the 1987 census. Data items include number of farms, land in farms, land in farms by size, market value of agricultural products sold, and market value of agricultural products sold by size, livestock inventory, and selected crops. (Highlights, ▣ .)

Volume 3, **Related Surveys**, series AC87-RS-1 and 2. This series consists of two reports:

- *1988 Farm and Ranch Irrigation Survey*, AC87-RS-1, □ * ⊕ + ▣ , provides statistics collected from a sample of farm operators drawn from the 1987 Census of Agriculture respondent list. The data supplement the basic irrigation data collected from all farm operators in the census. The publication offers information on acreage irrigated, crops, method of water distribution used in 1987, source of water used, energy use, and irrigation practices.
- *1988 Agricultural Economics and Land Ownership Survey*, AC87-RS-2, □ * ⊕ + ▣ , presents economic and land ownership data on farmland owned and leased, land use, amount and source of debt, production contracts, taxes, assets, off-farm income, and, for landlords, type of ownership and owner characteristics.

Volume 4, **1988 Census of Horticultural Specialties**, AC87-HOR-1, □ * ⊕ + ▣ (highlights). The horticulture specialties report presents tabulations for calendar year 1987 for the United States, States, and counties, on number of establishments, value of sales of horticultural products, type of horticultural products, and kind of business.

CURRENT AGRICULTURE STATISTICS

The Cotton Ginnings Survey—The Bureau of the Census has carried out annual surveys of cotton ginnings since 1902. Ginning data are reported and collected twice monthly during the ginning season (August through March) for 16 States.³ The Census Bureau publishes the survey results in a series of three reports: The A10—biweekly data on the number of bales ginned by State □ (subscription *, single copies +) ▣ + ▣ ; the A20—monthly data on bales ginned for each county with three or more ginning establishments □ (subscription *, single copies +) ▣ + ▣ ; and the A30—final annual figures for cotton ginnings and production for the United States, States, and counties, as well as for the 100 top ginning counties □ * ▣ + . The data published include the number of active and idle gins, average net weight of bales ginned (for the United States and for States), amount of American Pima cotton ginned, percent of total cotton ginned by specific dates (for the United States and for States), and number of cotton gins by State and by number of bales ginned.

(The *Current Industrial Reports* series M22P, Consumption on the Cotton System and Stock, provides additional data on manufacturing establishments dealing with cotton, see page 21.)

³Covered in 1987-88 were Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas. In addition, data for Kansas (1 gin) and Florida (2 gins) were published under "all other States."

MAP FROM 1982 CENSUS OF AGRICULTURE, GRAPHIC SUMMARY*

*For 1987, *Agricultural Atlas of the United States*.

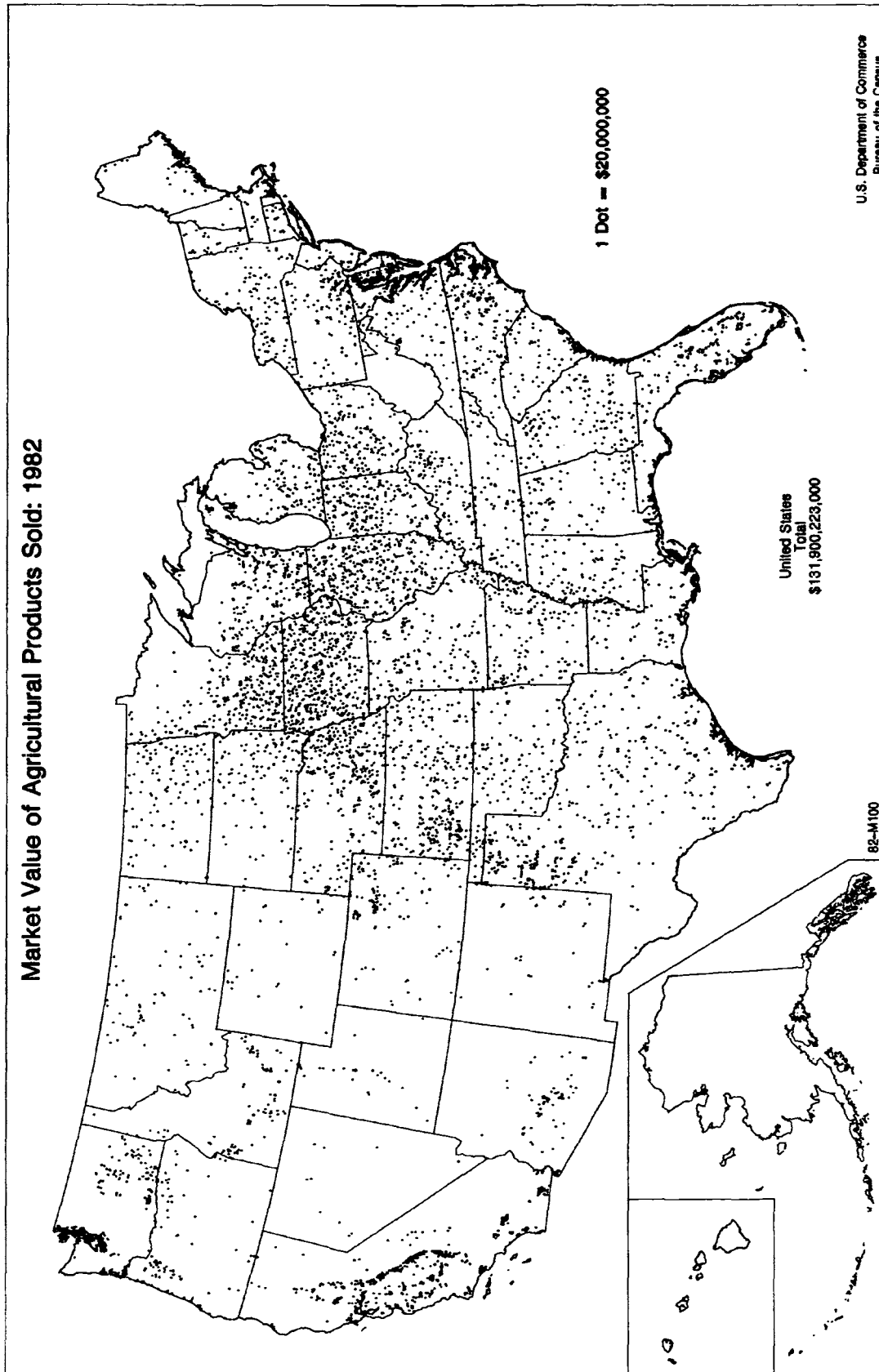


TABLE FROM COTTON GINNINGS, A10

COTTON GINNED PRIOR TO FEBRUARY 1, BY STATES: CROPS OF 1984 TO 1987
(Running bales; linters not included)

State	1987	1986	1985	1984
United States.....	14,179,862	9,270,231	12,947,648	12,318,917
Upland.....	13,921,291	9,071,938	12,799,795	12,196,648
American Pima.....	258,571	198,293	147,853	122,269
Alabama.....	386,076	313,833	515,784	424,222
Arizona.....	989,019	774,330	957,077	1,097,003
Upland.....	792,267	631,721	854,271	1,014,656
American Pima.....	196,752	142,609	102,806	82,347

TABLE FROM COTTON GINNINGS, A30

Table 1. Comparative Summary: Crops of 1978 to 1987

Bales, ginnings, and harvests	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Running bales:										
United States, total	14,358,531	9,437,968	12,967,834	12,544,866	7,504,236	11,526,035	15,150,260	10,826,242	14,261,922	10,549,219
Upland	14,083,390	9,236,839	12,837,088	12,418,749	7,413,334	11,429,648	15,072,854	10,724,266	14,165,664	10,459,201
American Pima	275,141	201,129	150,746	126,117	90,902	96,387	77,406	101,976	96,258	90,018
Equivalent 480-pound net weight bales ...	14,741,173	9,703,592	13,417,572	12,962,303	7,760,247	11,940,485	15,627,452	11,117,129	14,620,077	10,850,669
Number of active gins	1,653	1,662	1,774	1,860	1,852	2,000	2,189	2,254	2,336	2,461
Average number of bales per gin	8,886	5,679	7,321	6,745	4,052	5,763	6,921	4,803	6,105	4,287
Cotton ginned prior to—										
August 1	1,178	145,022	89,955	182,769	2,136	39,800	44,387	199,606	72,294	143,791
September 1	428,562	624,376	681,101	634,437	315,062	453,251	426,516	582,217	538,494	671,847
September 15	1,241,758	1,021,985	1,072,515	749,669	396,741	578,310	645,065	745,057	697,352	788,325
October 1	3,195,927	2,408,969	2,430,799	1,174,761	762,613	1,529,044	1,724,646	1,312,026	916,370	1,490,383
October 15	5,359,103	3,617,588	4,342,249	2,276,631	1,747,664	2,660,218	3,299,490	2,566,031	2,105,391	2,903,560
November 1	7,531,110	5,291,515	6,245,836	4,320,592	3,348,053	5,288,435	5,540,672	4,599,488	4,798,539	4,658,643
November 15	9,134,519	6,369,416	8,216,061	7,025,375	4,637,748	7,201,961	7,687,882	6,698,438	7,287,155	5,889,763
December 1	11,076,360	7,491,483	10,051,719	8,972,412	6,002,973	8,822,657	10,156,076	7,840,476	9,937,248	6,668,221
December 15	12,580,688	8,273,004	11,371,540	10,478,197	6,879,686	9,626,572	12,023,213	8,807,771	11,772,433	8,096,300
January 1	13,273,932	8,588,206	12,365,030	11,078,678	7,209,016	10,574,010	13,460,093	9,872,843	12,727,681	9,316,913
January 15	13,733,429	9,092,654	12,775,624	11,682,465	7,389,497	10,974,434	14,275,900	10,429,922	13,438,594	9,722,919

CHAPTER 3.

Related Statistics

INTRODUCTION

General Information

The census of agriculture is the major source of production, economic, land value, farm practices, and other information on the agriculture sector of the economy, but the Census Bureau collects related data on the food and fiber system in other enumerations and surveys. These include the economic censuses and related periodic surveys, the census and surveys of governments, and the foreign trade statistics program. The decennial censuses and current population and housing surveys provide socio-demographic information on the farm and rural populations.

Census Geography

Socio-demographic and economic census statistics are compiled for three types of large areas outside the normal geographic hierarchy (State, county, etc.)—metropolitan statistical areas (MSA's), consolidated metropolitan statistical areas (CMSA's), and primary metropolitan statistical areas (PMSA's). The Office of Management and Budget (OMB) established this three-tier system on June 30, 1983, to replace the two former types of metropolitan areas—standard metropolitan statistical areas (SMSA's) and standard consolidated statistical areas (SCSA's). The post-1983 MSA may be considered roughly equivalent to the former SMSA, while the CMSA/PMSA designations provide more detailed definitions of grouped MSA's formerly contained within the SCSA designation.

An MSA is an integrated economic and social unit with a recognized large population nucleus. Generally, an MSA consists of one or more counties (cities and towns in New England) or their equivalents, including a city with a population of at least 50,000 or an urbanized area with a population of at least 50,000 with a total metropolitan population of at least 100,000 (75,000 in New England). An MSA may include one or more predominantly agricultural counties. A PMSA consists of one or more counties within a metropolitan complex having a population of at least 1 million people, with demonstrated strong internal economic and social links separate from the ties to other portions of the metropolitan complex. A PMSA, by definition, always is part of a CMSA. A CMSA is essentially an MSA containing one or more PMSA's. At the time of the 1987 agriculture and economic censuses, there were 261 MSA's, 71 PMSA's, and 20 CMSA's in the United States.

Population, housing, and economic census data also are shown for a variety of subcounty geographic units not represented in the agriculture census reports, including

incorporated places and census designated places. (Economic data were published for central business districts (CBD's) and major retail centers (MRC's) as well, but these designations were dropped from the publishing program following the 1982 Economic Censuses.)

Survey data usually are limited to estimates for the Nation and sometimes regions and large States or metropolitan areas.

THE ECONOMIC CENSUSES AND RELATED PROGRAMS

General Information

The economic censuses and current surveys cover establishments⁴ engaged in manufacturing, mining, retail trade, wholesale trade, construction, and most transportation and service industries. Agricultural services, as defined in the SIC system (SIC major group 07), are not included in either the agriculture or the economic censuses. Title 13, United States Code, requires that economic censuses be carried out every 5 years for years ending in "2" and "7" and specifies which economic sectors are covered.

The data collected vary by the different industries, but include a number of key measures, such as sales (or receipts or value of shipments), employment, and payroll, in nearly all economic census programs. The censuses provide data for most industries on products sold or services performed, inventories, capital expenditures, and materials consumed.

The Bureau of the Census also carries out an extensive program of data collection from administrative and other records and from periodic economic surveys, most based on probability samples, to provide additional statistics on the Nation's economy. This program includes County Business Patterns (which includes agricultural services), annual and monthly surveys of wholesale trade and retail trade, an Annual Survey of Manufactures, and surveys of transportation.

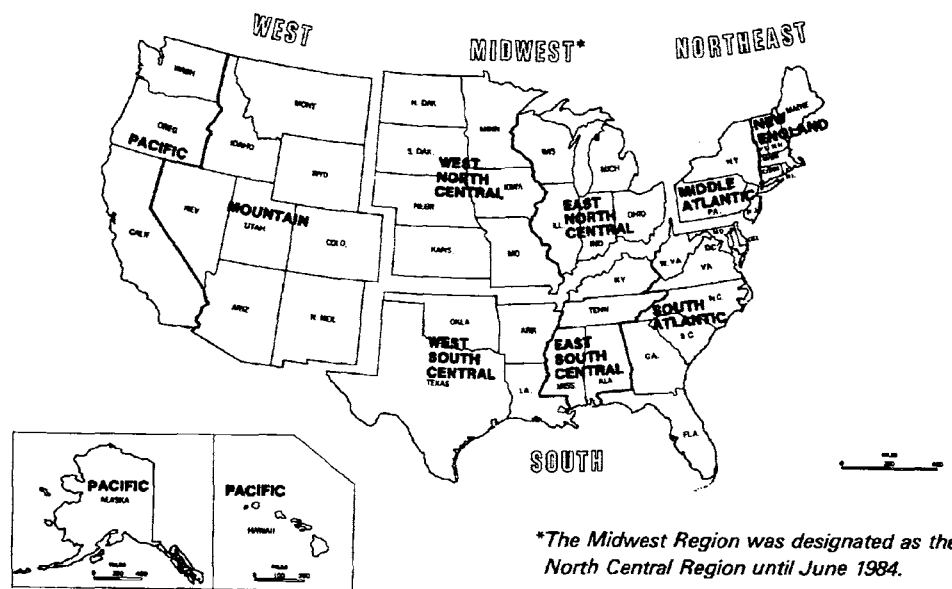
For more detailed data on the economic censuses and surveys data, see the *Guide to the 1987 Economic Censuses and Related Statistics*.

Sources of Agriculture-Related Information

In the economic statistics program, the censuses and surveys of manufactures, wholesale and retail trades, and transportation, and the County Business Patterns program

⁴An establishment is defined, for census and survey purposes, as a business or industrial unit at a single geographic location that produces or distributes goods or performs services.

**CENSUS REGIONS AND GEOGRAPHIC DIVISIONS
OF THE UNITED STATES**



are the primary sources of economic data related to agriculture. The censuses collected information (see table) on establishments involved in the manufacture and/or sale of products used in agricultural production, processing and/or sale of agricultural products of all kinds, and provision of certain goods and services to farmers and/or their families. The census of manufactures, for example,

collects and publishes information on establishments involved in processing food and kindred products, while the census of retail trade includes food stores.

When selected agriculture-related data from the economic censuses are combined with agriculture census statistics, they provide a more complete picture of the food and fiber sector of the economy.

**Major Data Items Published in Final Reports of the Basic Economic Censuses and Some Surveys,
by Geographic Level of Detail**

(Legend: O—U.S., States, substate areas except ZIP Codes. N—National only. S—State and national. Z—ZIP Codes)

Item	Retail Trade	Wholesale Trade	Service Industries	Transportation Industries	Manufactures	Construction Industries	County Business Patterns	Enterprise Statistics
NUMBER OF ESTABLISHMENTS AND FIRMS								
Establishments with payroll.....	O,Z	O	O,Z	O	O,Z	O	O,Z	N
Establishments without payroll (nonemployers).....	O		O					
Single- and multiestablishments.....	N	N	N		S	N		N
Establishments by legal form of organization.....	O	N	N	N	S	N		N
Firms.....	N	N	N	N	S			N
EMPLOYMENT								
All employees.....	O,Z	O	O,Z	O	O	O	O	N
Production (construction) workers/hours.....					O	S		
Employment size of establishment.....	N,Z	N	N,Z	N	¹ O,Z	S	N	² N
Employment related to manufacturing exports.....					S			
PAYROLL								
All employees, entire year.....	O,Z	O	O,Z	O	O	O	O	N
All employees, first quarter.....	O	O	O	O		S	O	
Production (construction) workers.....					O	S		
Supplemental labor costs, legal/voluntary.....	N	N			S	S		N

Major Data Items Published in Final Reports of the Basic Economic Censuses and Some Surveys, by Geographic Level of Detail—Con.

(Legend: O—U.S., States, substate areas except ZIP Codes. N—National only. S—State and national. Z—ZIP Codes)

Item	Retail Trade	Wholesale Trade	Service Industries	Transportation Industries	Manufactures	Construction Industries	County Business Patterns	Enterprise Statistics
SALES, RECEIPTS, OR VALUE OF SHIPMENTS/CONSTRUCTION WORK DONE								
For establishments with payroll	O,Z	O	O,Z	O	O	O		N
For establishments without payroll	O		O			S		
By specific product, line, or type of construction	³ O	⁴ S	⁴ ⁵ S					
By class of customer	N	N	⁴ ⁵ S		N			
Sale size of establishment	N,Z	N	N,Z	N	N	S		⁵ N
Value of exports			⁵ N		S			
OPERATING EXPENSES								
Total	N	S	⁴ O					
Cost of materials, etc.		N			O	O		
Specific materials consumed (quantity/cost)		N			N			
Cost of fuels	N	N	N		S	O		
Energy consumed (quantity/cost)	N	N	N		S			
Contract work		N			S	O		
Products bought or sold (resales)	N	N			S			
Advertising	N	N	N				N	
Rental payments	N	N	N		S	S		N
Communications services	N	N	N		S	S		
Purchased repairs	N	N	N		S	S		
OTHER								
Value added	N	N			O	O		
Capital expenditures, total	N	N	N		S	O		N
New	N	N	N		O	S		N
Depreciable assets, gross value of building/equipment (end of 1986, 1987)	N	N	N		S	S		N
Inventories (end of 1986, 1987)	N	S			S	S		N
Specialization by type of manufacturing/construction					N	N		
Water use		N			⁶ S			

¹States and counties only.

²Size of company.

³State and metropolitan statistical area data available only in computerized media.

⁴Selected States and metropolitan statistical areas.

⁵For selected industries only.

⁶State and water resources regions.

Manufactures

1987 Census of Manufactures— This census covered manufacturing industries and collected data on employment, payroll and worker hours, inventories, capital expenditures, cost of materials and contract work, resales, fuel and electricity, ownership and control, and products. (The census also collects data on plant characteristics for selected industries.) For the first time, data also were collected on foreign content of materials consumed and offshore assembly of products initially fabricated in the United States.

The publication program for the 1987 Census of Manufactures includes the following report series:

- *Preliminary Industry Series*, MC87-I-20A(P) to -39D(P), □ *. This report series covers 459 manufacturing industries in 83 bulletins presenting general statistics at the national level. The reports show preliminary

totals for quantity and value of shipments for the products primary to the industry and the quantity and cost of materials consumed by establishments classified in the industry.

- *Preliminary Summary*, MC87-SUM, □ * ☉ ⊕ ⊞ ⊠ . This report contains general statistics for the 459 manufacturing industries for the Nation, 50 States, the District of Columbia, and selected MSA's with 40,000 or more manufacturing employees.
- *Industry Series*, MC87-I-20A to -39D, □ ⊞ * ☉ ⊕ ⊞ ⊠ . Each report provides final data for the United States, the 50 States, and the District of Columbia for 1 of 83 groups of related industries. Statistics shown include number of establishments, payroll, payroll supplements, quantity and value of products shipped and materials consumed, capital expenditures, assets, value added, and number of companies. The list on the following page shows final industry reports, by SIC code industry, of most obvious interest to agricultural data users.

Agriculture-Related Preliminary and Final Industry Reports From the 1987 Census of Manufactures

[The preliminary report numbers carry the suffix "(P)," but are otherwise identical to the final report numbers]

Report	Description
<i>SIC Major Group 20</i>	<i>Food and Kindred Products</i>
MC87-I-20A	Meat Products
MC87-I-20-B	Dairy Products
MC87-I-20C	Preserved Fruits and Vegetables
MC87-I-20D	Grain Mill Products
MC87-I-20E	Bakery Products
MC87-I-20F	Sugar and Confectionery Products
MC87-I-20G	Fats and Oils
MC87-I-20H	Beverages
MC87-I-20I	Miscellaneous Food and Kindred Products
<i>SIC Major Group 21</i>	<i>Tobacco Products</i>
MC87-I-21A	Tobacco Products
<i>SIC Major Group 22</i>	<i>Textile Mill Products</i>
MC87-I-22A	Weaving and Floor Covering Mills
MC87-I-22B	Knitting Mills
MC87-I-22C	Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods
MC87-I-22D	Yarn and Thread Mills
MC87-I-22E	Miscellaneous Textile Goods
<i>SIC Major Group 28</i>	<i>Chemicals and Allied Products</i>
MC87-I-28G	Agricultural Chemicals
<i>SIC Major Group 31</i>	<i>Leather and Leather Products</i>
MC87-I-31A	Tanning; Industrial Leather Goods; and Shoes
<i>SIC Major Group 35</i>	<i>Industrial and Commercial Machinery and Computer Equipment</i>
MC87-I-35A	Engines and Turbines and Farm Machinery and Equipment
MC87-I-35D	Special Industry Machinery, Except Metalworking Machinery (Includes textile machinery (3552) and food products machinery (3556))

- *Geographic Area Series*, MC87-A-1 to 51, □ ■ * ☉ ☎ + . Fifty-one reports, one for each State and the District of Columbia, provide summary and detailed statistics for industries for the State, MSA's, counties, and incorporated places with a minimum number of

manufacturing employees. (Some data, including assets, rents, inventories, and cost of materials, are shown in State totals only.)

- *Subject Series*, MC87-S-1 to 7, □ ■ *. This series consists of seven separate detailed reports showing national-level data except where noted.

General Summary, MC87-S-1, presents summary totals for industries and product classes. Some data for States and MSA's.

Textile Machinery in Place, MC87-S-2, provides data on the number and type of textile machinery in place in textile mill product establishments.

Water Use in Manufacturing, MC87-S-3, presents data by industry for establishments using 20 million gallons of water or more annually.

Distribution of Sales by Class of Customer, MC87-S-4, includes data on the primary channels of distribution for manufacturers in 1987 based on a survey conducted as part of the 1987 Census of Manufactures.

Type of Organization, MC87-S-5.

Concentration Ratios in Manufacturing, MC87-S-6, presents measures of the share of industrial activity accounted for by the largest companies.

Manufacturers' Shipments to the Federal Government, MC87-S-7, shows data on manufacturing activities for selected Government establishments in the United States. These data are not included in other 1987 Census of Manufactures reports.

Location of Manufacturing Plants, MC87-LM, ☉ ☎ + , not available in printed form, shows data for States, counties, places of 2,500 inhabitants or more, and by five-digit ZIP Code, by industry, on the number of establishments by employment-size class.

Current manufactures statistics—

- *Annual Survey of Manufactures*, M86(AS)-1 to 3, □ ■ ☉ + . (The Census Bureau publishes the Annual Survey of Manufactures (ASM) for years between censuses. The M86 series covers calendar year 1986.) The ASM collects data from a sample of about 56,000 manufacturing establishments and publishes national statistics, with some State-level data in No. 3. The reports include estimates for industry groups and industries on employment, payroll, production worked hours, value added by manufacture, cost of materials, value of shipments, new capital expenditures, fuels and electric energy, and end-of-year inventories. These data also are shown at the State level with selected data shown by two-digit industry group. The program also covers value of shipments for classes of products.

TABLE FROM THE 1987 CENSUS OF MANUFACTURES, GEOGRAPHIC AREA SERIES

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes counties with 950 employees or more and industry groups and industries with 950 employees or more within counties, except those that would disclose data for individual companies. For information on geographic areas followed by Δ, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added by manufacture ³ (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁵ (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Alameda County	E1	2 202	671	76.4	1 757.2	45.6	887.1	916.2	3 637.8	4 248.8	7 948.6	247.5
20	Food and kindred products	-	181	86	11.9	259.5	7.4	13.7	147.8	977.1	1 383.2	2 370.6	32.4
201	Meat products.....	E3	25	12	.8	17.8	.6	1.1	11.9	36.7	127.6	164.7	1.2
2013	Sausages and other prepared meats.....	E2	18	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
202	Dairy products.....	E2	17	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2026	Fluid milk.....	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
203	Preserved fruits and vegetables.....	-	10	6	1.4	23.4	1.2	2.0	18.8	78.0	137.7	215.7	2.6
2032	Canned specialties.....	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables.....	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

TABLE FROM ANNUAL SURVEY OF MANUFACTURES, STATISTICS FOR INDUSTRY GROUPS

Table 2. Statistics for Industry Groups and Industries: 1986 and 1985

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1986									
		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
		A	B	C	D	E	F	G	H	I	J
	All industries	18 370.0	450 759.6	11 765.4	23 178.2	236 599.4	1 035 437.4	1 217 608.6	2 260 314.6	76 354.5	311 121.1
20	Food and kindred products.....	1 408.9	28 567.3	989.5	1 932.2	17 788.7	112 190.5	196 442.9	308 522.6	6 966.2	24 019.4
21	Tobacco products.....	46.1	1 360.4	33.7	63.0	912.4	12 724.6	5 341.3	19 073.0	659.1	5 925.8
22	Textile mill products.....	644.3	10 305.8	554.7	1 110.6	7 897.9	22 232.3	33 012.5	55 348.5	1 598.3	6 896.0
23	Apparel and other textile products.....	1 018.5	12 471.2	862.5	1 534.8	8 948.9	28 451.3	29 492.9	57 918.6	683.7	7 878.0
24	Lumber and wood products.....	619.5	10 819.7	512.4	1 003.3	8 135.2	23 236.6	34 977.7	58 158.3	1 657.2	6 571.8
25	Furniture and fixtures.....	466.7	8 030.4	376.1	733.5	5 556.4	17 659.4	15 480.1	33 081.2	778.0	4 850.5
26	Paper and allied products.....	602.6	16 112.8	458.4	952.7	11 296.9	43 924.5	53 943.5	97 853.2	6 084.4	10 238.4
27	Printing and publishing.....	1 376.2	29 890.4	738.4	1 414.7	14 099.3	78 150.4	40 671.7	118 570.6	4 385.0	8 859.2
28	Chemicals and allied products.....	801.6	23 710.9	458.1	927.7	11 755.6	100 013.2	96 550.7	197 090.8	7 907.4	24 214.6
29	Petroleum and coal products.....	124.5	4 214.7	81.8	168.1	2 598.2	17 495.8	103 740.9	124 878.3	2 577.5	9 162.5
30	Rubber and miscellaneous plastics products.....	741.3	15 273.3	571.8	1 137.1	10 123.6	37 236.4	36 039.2	73 384.6	2 998.1	8 333.0
31	Leather and leather products.....	129.8	1 690.3	109.7	196.2	1 213.4	3 611.4	4 158.4	7 806.7	83.2	1 371.0
32	Stone, clay, and glass products.....	514.1	11 745.2	399.0	814.2	8 351.8	30 676.7	26 538.8	57 274.2	2 332.6	6 972.6
33	Primary metal industries.....	689.8	18 881.6	529.0	1 055.8	13 471.7	38 092.3	66 366.5	105 647.2	3 180.4	17 629.5
34	Fabricated metal products.....	1 419.5	33 115.8	1 049.8	2 102.6	21 816.7	68 620.6	69 264.6	137 975.9	4 485.0	21 381.9
35	Machinery, except electrical.....	1 863.0	49 645.2	1 140.6	2 271.2	25 421.9	108 365.0	97 924.8	208 529.3	6 690.6	41 203.1
36	Electric and electronic equipment.....	1 941.4	49 213.6	1 159.6	2 259.3	23 360.9	112 421.5	84 078.9	196 245.2	9 059.8	37 456.8
37	Transportation equipment.....	1 789.5	56 707.6	1 168.6	2 381.0	33 625.5	125 705.6	188 037.4	313 825.1	11 295.3	50 923.1
38	Instruments and related products.....	585.4	14 818.2	335.4	660.9	6 704.0	40 005.3	21 888.5	61 910.0	2 277.3	12 216.8
39	Miscellaneous manufacturing industries.....	326.1	5 892.3	236.3	459.1	3 520.4	14 622.0	12 652.3	27 219.3	655.4	5 019.1
-	Auxiliaries ²	1 283.2	48 292.9	-	-	-	-	-	-	-	-
20	Food and kindred products	1 408.9	28 567.3	989.5	1 932.2	17 788.7	112 190.5	196 442.9	308 522.6	6 966.2	24 019.4
201	Meat products.....	317.2	5 133.4	263.9	521.3	3 869.0	13 531.7	55 759.9	69 267.5	855.5	2 027.7
2011	Meat packing plants.....	119.0	2 211.0	96.0	200.4	1 661.5	5 692.8	36 680.2	42 384.5	258.9	830.9
2013	Sausages and other prepared meats.....	68.5	1 327.1	52.5	104.5	908.0	3 844.5	9 524.1	13 354.2	232.4	723.7
2016	Poultry dressing plants.....	112.6	1 366.0	100.6	189.2	1 125.4	3 250.2	8 027.1	11 263.7	278.3	361.5
2017	Poultry and egg processing.....	17.1	229.3	14.8	27.2	174.1	744.2	1 528.5	2 265.2	85.9	111.6
202	Dairy products.....	137.1	2 973.5	82.7	167.5	1 648.7	10 917.9	31 210.9	42 163.2	672.0	1 801.8
2021	Creamery butter.....	1.7	40.1	1.4	2.9	28.6	89.4	1 430.1	1 531.2	8.0	34.2
2022	Cheese, natural and processed.....	32.3	603.0	25.9	51.8	456.2	2 306.6	9 537.2	11 892.1	140.1	756.8
2023	Condensed and evaporated milk.....	13.5	357.0	8.9	18.5	196.0	2 254.3	3 577.9	5 807.2	120.7	348.8
2024	Ice cream and frozen desserts.....	18.2	383.2	11.7	22.3	219.0	1 074.8	2 386.5	3 459.0	105.4	232.7
2026	Fluid milk.....	71.4	1 590.2	34.8	71.9	748.9	5 192.6	14 279.2	19 473.7	297.8	429.2
203	Preserved fruits and vegetables.....	220.6	3 864.5	182.2	334.2	2 805.5	16 835.5	19 037.6	35 885.3	1 015.1	6 489.0
2032	Canned specialties.....	24.7	513.2	19.6	38.6	383.2	2 326.3	2 629.9	4 957.6	178.8	670.2
2033	Canned fruits and vegetables.....	67.4	1 105.2	57.4	102.0	512.3	5 409.2	6 022.7	11 470.7	240.0	2 694.1

Statistics for Industry Groups and Industries, M86(AS)-1 with comparable data for the previous calendar year.

Value of Product Shipments, M86(AS)-2, with comparable data for four previous years.

Geographic Area Statistics, M86(AS)-3, shows data for the United States and States, with comparable data for the previous year.

• Current Industrial Reports (CIR's), □ (Subscription or single copies*, back issues+), ■ +, also ▣ where indicated. The various publications series include monthly, quarterly, annual, and biannual reports containing national data. Monthly and quarterly series may have annual summaries; those that do not have separate annual reports.

Most CIR's have SIC-related series numbers. There are several general purpose reports not related to any one SIC

TABLE FROM CURRENT INDUSTRIAL REPORTS, MA35A

Table 2. PRODUCTION AND SHIPMENTS OF WHEEL TRACTORS (EXCEPT SHOVEL LOADERS, CONTRACTORS' OFF-HIGHWAY TYPE, AND GARDEN TRACTORS), BY HORSEPOWER: 1984 AND 1983

(Number in units; value in thousands of dollars)

Product code	Product description	Number of companies	1984				1983					
			Number produced		Total shipments		Number produced		Total shipments			
			Total	Gasoline and LPG	Diesel	Number	Value	Total	Gasoline and LPG	Diesel	Number	Value
	Wheel tractors and attachments.....	9	(X)	(X)	(X)	(X)	2,152,105	(X)	(X)	(X)	(X)	1,820,538
	Wheel tractors, farm type (PTO hp.).....	8	48,859	-	48,859	50,271	2,047,529	47,972	-	47,972	45,966	1,720,680
35231 19	2-wheel drive.....	6	43,512	-	43,512	45,325	1,658,287	43,105	-	43,105	41,179	1,375,785
35231 01	Under 60.....	1										
35231 03	60 to 79.....	2	15,641	-	15,641	15,715	273,661	14,309	-	14,309	14,286	204,433
35231 05	80 to 99.....	5										
35231 07	100 to 119.....	6	3,026	-	3,026	3,178	111,216	4,796	-	4,796	4,723	163,946
35231 09	120 to 139.....	6										
35231 11	140 to 159.....	5	12,165	-	12,165	13,259	578,430	15,614	-	15,614	14,083	593,033
35231 13	160 to 179.....	5	7,339	-	7,339	7,292	357,848	5,348	-	5,348	5,130	246,751
35231 15	180 and over.....	4	5,341	-	5,341	5,880	337,132	3,038	-	3,038	2,957	167,622
35231 39	4-wheel drive.....	7	5,347	-	5,347	4,947	389,242	4,867	-	4,867	4,787	344,895
35231 31	Under 200.....	5	1,510	-	1,510	1,348	89,424	1,715	-	1,715	1,768	95,344
35231 33	200 to 249.....	6	1,911	-	1,911	1,711	133,063	1,764	-	1,764	1,702	133,317
35231 35	250 and over.....	4	1,926	-	1,926	1,888	166,755	1,388	-	1,388	1,317	116,234
35231 69	Wheel tractors, nonfarm (industrial type), excluding tractor chassis, shipped as part of front engine mount, integral design tractor shovel loader/backhoe (NEHP).....	5	6,027	(D)	1,027	6,206	97,031	5,675	(D)	1,675	5,767	189,508
35231 56	Under 50.....	4	3,158	(D)	3,158	3,131	43,695	3,022	(D)	3,022	2,971	38,733
35231 58	50 to 59.....	3										
35231 60	60 to 69.....	2	2,869	(D)	2,869	2,075	253,336	1,743	(D)	1,743	1,930	28,052
35231 62	70 to 79.....	1						3,910		3,910	3,866	322,723
35231 64	80 to 99.....	-	-	-	-	-	-	-	-	-	-	-
05231 66	100 and over.....	1	(2)	-	(2)	(2)	(2)	(3)	-	(3)	(3)	(3)
35239 87	Attachments for wheel tractors, farm type and nonfarm (industrial type), excluding attachments for tractor chassis, shipped as part of front engine design tractor shovel loader/backhoe....	3	(X)	(X)	(X)	(X)	47,545	(X)	(X)	(X)	(X)	410,350
35239 25	Parts for wheel tractors, farm type and nonfarm (industrial type), excluding parts for tractor chassis, shipped as part of front engine design tractor shovel loader/backhoe.....	5	(X)	(X)	(X)	(X)	4228,681	(X)	(X)	(X)	(X)	4193,702
35317 30	Wheel tractor-chassis shipped as part of front engine mount, integral design tractor shovel loader/backhoe (NEHP).....	5	15,565	-	15,565	15,895	427,047	13,352	-	13,352	13,768	396,454

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. LPG Liquefied petroleum gas. † Revised by 5 percent or more from previously published figures. (X) Not applicable.

¹Data for gasoline and LPG wheel tractors are combined with those using diesel fuel to avoid disclosing figures for individual companies. The total quantity of production for 1984 and 1983 for gasoline and LPG tractors was between 175 and 300 tractors.
²Product codes 35231 58, 35231 60, 35231 62, and 35231 66 have been combined for 1984 to avoid disclosing figures for individual companies.
³Product codes 35231 60, 35231 62, and 35231 66 have been combined for 1983 to avoid disclosing figures for individual companies.
⁴Data are limited to attachments and parts shipped by companies manufacturing complete tractors.

major group, and two reports (with the prefix "ITA") issued jointly by the Census Bureau and the International Trade Administration.

CIR's of particular interest to agriculture census data users include the following:

Agriculture-Related Current Industrial Reports

Report series	Frequency	Description
M20A \square	Monthly	Flour Milling Products
MA20D	Annual	Confectionery
M20J	Monthly	Oilseeds, Beans and Nuts (Primary Processors)
M20K	Monthly	Fats and Oils—Production, Consumption, and Stocks
M20L	Monthly	Fats and Oils (Renderers)
M22D	Monthly	Consumption of Fibers in Woolen Spinning and Production of Tops and Noils and Tow to Top
M22M	Biannual	Stocks of Wool and Related Fibers
M22N	Monthly	Cotton and Raw Linters in Public Storage and at Compresses
M22P	Monthly	Cotton, Manmade Fiber Staple, and Raw Linters (Consumption and Stocks, and Spindle Activity)
M28B \square	Annual	Inorganic Fertilizer Materials and Related Products
M28B.1 \square	Monthly	Inorganic Fertilizer Materials and Related Products
M28B.2	Monthly	Phosphatic Fertilizer Materials
MA35A	Annual	Farm Machinery and Equipment
MA35L	Annual	Internal Combustion Engines
MA35P	Annual	Pumps and Compressors

Wholesale Trade and Retail Trade

The 1987 Censuses of Wholesale Trade and Retail Trade—The census of wholesale trade covers establishments primarily engaged in selling merchandise or acting as agents or brokers for others selling merchandise to retailers; construction contractors; industrial, commercial, institutional, farm, or professional business users; or other wholesalers. The census uses 47 different questionnaires, tailored to particular industries to collect information from wholesale firms with paid employees (those without paid employees are not included in the census).

The census of retail trade covers establishments primarily engaged in selling merchandise for personal or household consumption and providing services incidental to the

sale of those goods. Federal administrative records serve as a source of data on small retail firms for the census, but 36 different report forms, tailored to particular industries, are mailed to those expected to have four or more paid employees.

For details of the data collected and published in the censuses of wholesale and retail trade, see the table on p..

Data available from the censuses of wholesale and retail trade on the following SIC groups may be of particular interest to agricultural census data users:

SIC	Description
Wholesale Trade ⁵	
Detailed industry 5083	Farm and Garden Machinery and Equipment
Industry group 514	Grocery and Related Products (nine four-digit industries)
Industry group 515	Farm-Product Raw Materials (three-digit industries)
Detailed industry 5191	Farm Supplies
Detailed industry 5194	Tobacco and Tobacco Products
Retail Trade	
Detailed industry 5261	Retail Nurseries, Lawn and Garden Supply Stores
Major group 54	Food Stores (seven four-digit industries)
Detailed industry 5541	Gasoline Service Stations
Industry group 598	Fuel Dealers (three four-digit industries)
Detailed industry 5992	Florists

The publication programs for these censuses include equivalent series, (no preliminary reports were issued for the 1987 censuses) as follows:

- *Geographic Area Series*, WC87-A-1 to 52 (wholesale trade), \square \blacksquare * \oplus \ominus \boxplus + \boxminus and RC87-A-1 to 52 (retail trade) \square \blacksquare * \oplus \ominus \boxplus + \boxminus . Both series include separate reports for the United States, each State, and the District of Columbia. The wholesale trade reports show basic data on number of establishments, sales, payroll, employment, inventory, and operating expenses. The retail trade reports offer basic information by kind of business, and limited data for 10 major kind-of-business groups for all counties and incorporated places with 2,500 inhabitants or more.
- *Subject Series*, \square \blacksquare *. WC87-S-1 to 4 (wholesale trade) and RC87-S-1 to -4 (retail trade). This series provides statistics on particular subjects. The reports for each census are: 1, *Establishment and Firm Size (Including Legal Form of Organization)* (also available for retail trade); 2, *Measures of Value Produced, Capital Expenditures, Depreciable Assets, and Operating Expenses*; 3,

⁵Industry and commodity classifications are generally less detailed than manufactures classifications.

Merchandise Line Sales for retail trade; and *Commodity Line Sales* for wholesale trade (+); and 4, *Miscellaneous Subjects*. The reports show national-level data as well as statistics for States and MSA's.

The 1987 Census of Retail Trade publishes three additional reports:

- *Special Report Series*, RC87-SP, □ * ■ ⊕ ⊙ ■ + ■ , provides selected aggregate data on retail trade, including selected ratios and rankings for States and MSA's.
- *ZIP Code Statistics Series*, RC87-Z, ⊕ ⊕ + , presents data for selected five-digit ZIP Codes, including number of establishments, sales, employment, and number of establishments by sales-size class and employment-size class for selected kind-of-business classifications.
- *Nonemployer Statistics Series*, RC87-N-1 to 4, □ * ■ ⊕ ⊕ + . This series contains State-level data for the four census geographic regions. Data provided include kind of business on all establishments, establishments with payroll, and establishments without payroll for the United States; and statistics for establishments without

payroll on number of establishments and sales by varied kind-of-business classifications for each State, and within each State, for MSA's, counties, and places with 2,500 inhabitants or more.

Current Wholesale Trade and Retail Trade Statistics—The Census Bureau conducts monthly and annual surveys of wholesale and retail trades and publishes national-level statistics on sales, end-of-month/year inventories, and stock/sales ratios in two report series—*Monthly Wholesale Trade: Sales and Inventories*, series BW, and *Monthly Retail Trade: Sales and Inventories*, series BR, □ (subscription * or single copies +) ■ + ■ ; and *Annual Wholesale Trade*, series BW, and *Annual Retail Trade*, series BR, □ (part of the monthly subscription * or single copies+) ■ + . The annual trade reports include national-level data on purchases and gross margins.

Transportation Statistics

The 1987 Census of Transportation and Periodic Surveys— The 1987 transportation statistics program had two main components, the 1987 Census of Transportation

TABLE FROM 1987 CENSUS OF WHOLESALE TRADE, GEOGRAPHIC AREA SERIES

Table 3. Comparative Statistics Based on 1972 Standard Industrial Classification for the State: 1987 and 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

1972 SIC code	1987 SIC code	Type of operation and kind of business	Establishments		Sales			Annual payroll			Paid employees for pay period including March 12	
			1987 (number)	1982 (number)	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (\$1,000)	1982 (\$1,000)	Percent change 1982 to 1987	1987 (number)	1982 (number)
		Wholesale trade—Con.										
51		Nondurable goods—Con.										
514		Groceries and related products—Con.										
5146	5146	Fish and seafoods					E1			E1		
5147	5147	Meats and meat products					E1			E1		
5148	5148	Fresh fruits and vegetables					E1			E1		
5149	5149	Groceries and related products, n.e.c.					E1			E1		
515		Farm-product raw materials					E1			E1		
5152	5159 pt.	Cotton					E1			E1		
5153	5153	Grain and field beans					E1			E1		
5154	5154	Livestock					E1			E1		
5159	5159 pt.	Farm-product raw materials, n.e.c.					E1			E1		
516		Chemicals and allied products					E1			E1		
5161		Chemicals and allied products					E1			E1		
	5162	Plastics materials and basic forms and shapes ..					E1			E1		
	5169	Chemicals and allied products, n.e.c.					E1			E1		
517		Petroleum and petroleum products					E1			E1		
5171	5171	Petroleum bulk stations and terminals					E1			E1		
5172	5172	Petroleum and petroleum products wholesalers, except bulk stations and terminals					E1			E1		
518		Beer, wine, and distilled alcoholic beverages					E1			E1		
5181	5181	Beer and ale					E1			E1		
5182	5182	Wine and distilled alcoholic beverages					E1			E1		

SAMPLE

TABLE FROM 1987 CENSUS OF RETAIL TRADE, GEOGRAPHIC AREA SERIES

Table 1. Summary Statistics for the State: 1987

[Includes only establishments with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms and comparability of 1982 and 1987 censuses, including revised methodology for presenting establishment counts, see appendix A]

1987 SIC code	Kind of business	Estab- lishments (number)	Sales (\$1,000)	Annual payroll (\$1,000)	First quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Unincorporated businesses	
							Individual proprie- torships (number)	Partne- rships (number)
	Retail trade							
52	Building materials and garden supplies stores.....							
521, 3	Building materials and supply stores.....							
521	Lumber and other building materials dealers.....							
523	Paint, glass, and wallpaper stores.....							
525	Hardware stores.....							
526	Retail nurseries, lawn and garden supply stores.....							
527	Mobile home dealers.....							
53	General merchandise stores							
531	Department stores (incl. leased depts.) ^{1 2}							
531	Department stores (excl. leased depts.) ¹							
531 pt.	Conventional ¹							
531 pt.	Discount or mass merchandising ¹							
531 pt.	National chain ¹							
533	Variety stores.....							
539	Miscellaneous general merchandise stores.....							
54	Food stores							
541	Grocery stores.....							
542	Meat and fish (seafood) markets.....							
546	Retail bakeries.....							
546 pt.	Retail bakeries—baking and selling.....							
546 pt.	Retail bakeries—selling.....							

SAMPLE

and the 1988 Truck Inventory and Use Survey (TIUS). The census covered establishments, with paid employees, primarily engaged in motor freight transportation and public warehousing, water transportation, and transportation services. (The census did not cover establishments without paid employees.) The TIUS covered the characteristics and uses of trucks in the United States and in each of the 50 States and the District of Columbia. The survey collected data from a sample of truck owners registered in each State and in the District of Columbia.

The publication program for the census of transportation and the periodic surveys program included the following report series of particular interest to agriculture census data users:

- *Selected Transportation Industries, Geographic Area Series*, TC87-A-1, □ * ■ + . Presents final data from selected transportation industries for the United States, each State, the District of Columbia, and selected MSA's on number of establishments, payroll, revenue, and employment by various transportation classifications.
- *Selected Transportation Industries, Subject Series*, TC87-S-1, □ * ■ + . Provides final data for the United States, each State, and the District of Columbia, and selected

MSA's, based on size of establishment, size of company, and legal form of organization. The report also provides major sources of revenue and purchased transportation expenses for some kinds of business.

- *Truck Inventory and Use Survey*, TC87-T-1 to 52, □ * ■ + . Reports for the United States, each State, and the District of Columbia, show data on the characteristics and use of commercial and private trucks. Statistics include number of vehicles, major use, annual mileage, model year, body type, vehicle size class, type of fuel, maintenance, classification of operator, whether the vehicle is equipped to transport hazardous material, fuel conservation equipment, braking system, and other vehicle equipment.

Current transportation statistics— The Census Bureau conducts annual surveys of motor freight transportation and warehousing. The report series for these surveys, *Motor Freight Transportation and Warehousing Survey*, series BT, □ * , provides national level estimates of annual operating revenues and selected operating expenses with comparable data shown for the preceding year and year-to-year percentage changes.

Enterprise Statistics

The Census Bureau's enterprise statistics program regroups census data for establishments under common company ownership or control to show economic characteristics of the owning or controlling firms. Each company covered in one of the economic censuses is classified in an enterprise industry category—a grouping of four-digit SIC industries adapted to produce company-aggregate data. The 1987 Enterprise Statistics reports cover retail and wholesale trades, and service, construction, mineral, manufacturing, and transportation industries. The reports generally include data on the number of establishments, number of employees, annual payroll, sales and receipts, capital expenditures, inventory information, and, in some cases, value of fixed assets, operating expenses, and research and development costs. The report series for the program are as follows:

- *Large Companies*, ES87-1, □ ■ *. Includes separate data for large companies (those with 500 employees or more) covered by the economic censuses, by enterprise industry categories.
- *Auxiliary Establishments*, ES87-2, □ ■ *. Presents data for the United States and the 50 States on separately operated central administrative offices and other auxiliary establishments (i.e., warehouses, research and development laboratories, etc.) of multiestablishment firms. The statistics are shown by principal industrial activity of the operating establishment being serviced, by type of service provided, and by employment size.

- *Company Summary*, ES87-3, □ ■ *. Includes national data by enterprise industry category on employment and sales size, legal form of organization, and in company/establishment cross-tabulations.

County Business Patterns (CBP)

This annual program presents intercensal economic data at the State and county levels for agricultural services, forestry, and fisheries; retail trade; wholesale trade; services, including religious organizations; finance, insurance, and real estate; construction; manufacturing; mining; transportation; and other public utilities (except railroads and the U.S. Postal Service).

The data in the CBP reports represent types of employment covered by the Federal Insurance Contributions Act (FICA). The Census Bureau obtains the data from a variety of sources, including Federal administrative records, an annual company organization survey, and the censuses during census years. The basic tabulations exclude self-employed persons, farm and domestic service workers, railroad employment subject to the Railroad Retirement Act, employment on oceangoing vessels or in foreign countries, and government employees. The published reports show statistics at the four-digit SIC code level for the United States, and at two-, three-, and four-digit levels for States and counties (depending on the magnitude of employment). Basic data items shown include number of establishments, mid-March employment, and first-quarter and annual payrolls. The principal report series is *County*

TABLE FROM COUNTY BUSINESS PATTERNS (SOUTH DAKOTA)

Table 2. Counties—Employees, Payroll, and Establishments by Industry: 1986—Con.

(Excludes government employees, railroad employees, self-employed persons, etc. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. (D) denotes figures withheld to avoid disclosing data for individual companies. For meaning of abbreviations and symbols and explanation of terms, see introductory text.)

SIC code	Industry	Number of employees for week including March 12	Payroll (\$1,000)		Total number of establishments	Number of establishments by employment-size class								
			First quarter	Annual		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
CODINGTON														
	Total	7 143	21 384	93 264	741	463	125	74	54	18	7	2	-	-
	Agricultural services, forestry, and fisheries	51	181	1 124	10	7	1	1	1	-	-	-	-	-
07	Agricultural services.....	51	181	1 124	10	7	1	1	1	-	-	-	-	-
	Mining	(A)	(D)	(D)	3	1	2	-	-	-	-	-	-	-
	Contract construction	243	867	4 899	63	49	7	4	3	-	-	-	-	-
15	General contractors and operative builders.....	68	260	1 542	19	14	4	-	1	-	-	-	-	-
151	General building contractors.....	61	243	1 347	13	8	4	-	1	-	-	-	-	-
17	Special trade contractors.....	160	560	3 007	40	32	2	4	2	-	-	-	-	-
171	Plumbing, heating, air conditioning.....	56	259	943	9	6	-	2	1	-	-	-	-	-
	Manufacturing	1 583	6 658	26 188	38	9	3	9	7	7	2	1	-	-
20	Food and kindred products.....	294	897	3 938	5	2	-	1	1	-	1	-	-	-
201	Meat products.....	(C)	(D)	(D)	1	-	-	-	-	-	1	-	-	-
2016	Poultry dressing plants.....	(C)	(D)	(D)	1	-	-	-	-	-	1	-	-	-
23	Apparel and other textile products.....	(C)	(D)	(D)	2	-	-	-	-	2	-	-	-	-
232	Men's and boys' furnishings.....	(B)	(D)	(D)	1	-	-	-	-	1	-	-	-	-
2329	Men's and boys' clothing, n.e.c.....	(B)	(D)	(D)	1	-	-	-	-	1	-	-	-	-
239	Misc. fabricated textile products.....	(B)	(D)	(D)	1	-	-	-	-	1	-	-	-	-
2393	Textile bags.....	(B)	(D)	(D)	1	-	-	-	-	1	-	-	-	-
24	Lumber and wood products.....	89	339	1 648	4	-	2	1	-	1	-	-	-	-

Business Patterns, CBP-[year], □ * ■ ⊕ ■ + . A report is issued for the United States, each State, the District of Columbia, and Puerto Rico. The U.S. report includes State totals as well as national data, together with the number of auxiliary establishments for the Nation, with their number of employees and payroll.

Three computer tape files are available from the CBP program; a *United States Summary*, ⊕ + , with detailed industry data at the national level; 1B, summaries for States and census geographic divisions; and 2, summaries for counties. These files contain both published and unpublished data for four-digit SIC industries at the national level, for States, and counties. Two-digit SIC data for most SMSA's are available for most years from 1975 on.

Quarterly Financial Reports

This program uses a probability sample (about 11,000 corporations—7,900 manufacturing, 1,700 wholesale, 950 retail, and 450 mining) to provide aggregate national level statistics on U.S. corporations. The estimates include income, assets, liabilities, stockholders' equity, and related financial and operating ratios, classified by industry and asset size. This is the only Census Bureau program collecting profit and loss information. (The Federal Trade Commission produced the *QFR's* until 1982.)

- *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations (QFR)*, □ (subscription* or single copies+) ■ + ■ . (Beginning with the first quarter of 1988, quarterly financial reports are available on diskette ■ + .)

Governments

The 1987 Census of Governments—The Census Bureau conducts censuses of governments every 5 years, for years ending in "2" and "7," to collect financial and employment data on thousands of government units, including Federal, State, county, municipal, and town or township governments, as well as such particular units as school districts (dependent and independent) and special districts. This program includes the District of Columbia and Puerto Rico. Five published series of reports cover the five major subject fields:

- *Government Organization*, GC87-(1), □ ■ * . In two parts: Part 1, *Government Organization*; and Part 2, *Popularly Elected Officials*. A list of all local governmental units identified in the census (approximately 83,000), by name and address, is available ⊕ + .
- *Taxable Property Values*, GC87-(2), □ ■ * .
- *Government Employment*, GC87-(3), □ ■ * ⊕ + . In four parts: 1, *Employment of Major Local Governments*; 2, *Compendium of Public Employment*; 3, *Labor-Management Relations*; and 4, *Government Costs for Employee Benefits*.

- *Government Finances*, GC87-(4), □ ■ * ⊕ + . In six parts: 1, *Finances of Public School Systems*; 2, *Finances of Special Districts*; 3, *Finances of County Governments*; 4, *Finances of Municipal and Township Governments*; 5, *Compendium of Government Finances*; and 6, *Employee Retirement Systems of State and Local Governments*.
- *Topical Studies*, GC87-(5), □ ■ * , presents the basic data in different ways.

Current governmental statistics—The Bureau of the Census publishes several periodic reports on various government activities and operations, including annual reports on government employment, finances, finances of selected public employee retirement systems, quarterly summaries of State and local tax revenue, and periodic special studies. The following reports also may be of particular interest to agriculture data users:

- *Consolidated Federal Funds Report, Fiscal Year [year]*, □ * ■ ⊕ + . An annual report containing data on Federal Government expenditures and obligations, in two volumes: 1, *County Areas*, with statistics covering the United States, the District of Columbia, counties, Puerto Rico and municipios, and outlying areas (American Samoa, Guam, Northern Mariana Islands, and the U.S. Virgin Islands); and 2, *Subcounty Areas*, with data for the United States, States, counties and subcounty areas (municipalities and townships), Puerto Rico and municipios, and the outlying areas. The report contains statistics on Federal expenditures and obligations for grants, salaries and wages, procurement contracts, direct payments for individuals, direct loans, guaranteed loans or insured loans, and insurance. (Volume 1 also has total direct spending on defense and nondefense functions.) Dollar amounts reported represent actual expenditures or obligations, by program identification titles and codes and object/assistance type codes. The computer tape file also contains associated geographic codes, 1986 population estimates, and the U.S. congressional district code for each governmental unit.
- *Federal Expenditures by State for Fiscal Year [year]*, □ ■ * ⊕ + . An annual report showing, by State and territory, total Federal grants to State and local governments, salaries and wages, procurement, direct payment to individuals, and certain other major programs—including agricultural stabilization.
- *Federal Assistance Award Data System*, ⊕ + . Provides quarterly data by State, county, and place on Federal domestic assistance programs, including grants to State and local governments, as well as direct and guaranteed and insured loans to individuals, small businesses, and other qualified recipients; direct payments for a specified use, such as subsidies, or for unrestricted use, such as pensions or veterans' benefits; and insurance or other types of financial assistance.

Foreign Trade

Agricultural products make up an important part of the United States' foreign trade. The Census Bureau compiles

a broad range of data on imports and exports and publishes a variety of summary and detailed reports. Export data generally are shown by commodity class, net quantity, destination (country or world area), U.S. Customs district of export, method of transportation, and month of export. Import data shown include commodity by net quantity, dutiable status and rate, country and world area of origin, U.S. Customs district of entry, method of transportation, and month of import.

Summary reports—Summary reports of special interest to agriculture census data users include the following series:

- *FT135, U.S. General Imports and Imports for Consumption—Schedule A—Commodity by Country*, □* ■+. Monthly and cumulative.
- *FT410, U.S. Exports—Schedule E—Commodity by Country*, □* ■+. Monthly and cumulative year-to-date.
- *FT800, U.S. Trade With Puerto Rico and U.S. Possessions*, □* ■+. Monthly and annual.
- *FT900, Summary of U.S. Export and Import Merchandise Trade*, □* ■+ (subscription only). Monthly and cumulative year-to-date.
- *FT990, Highlights of U.S. Export and Import Merchandise Trade*, □* ■+ □. Monthly and cumulative year-to-date.

Detailed reports—

- *EM455, U.S. Exports, World Area/Country of Destination—Schedule E—Commodity Groupings*, ■+. Includes method of transportation. Monthly and cumulative year-to-date.
- *EM522, U.S. Exports*, ■+. Shows data on net quantity, value, and shipping weight for schedule B by number, country of destination, and customs district of exportation. Monthly and cumulative year-to-date.
- *EM575, U.S. Exports*, ■+. Presents data on net quantity and value of exports by SIC-based product codes and world area of destination. Monthly and cumulative year-to-date.
- *EM596, Shipments of Merchandise From the United States to Puerto Rico and U.S. Virgin Islands*, ■+. Monthly and annual (EA 696).
- *IM145, U.S. Imports for Consumption and General Imports*, ■+. Includes data on net quantity, customs and cost, insurance, and freight value of imports by TSUSA commodity, customs district of entry, and country of origin. Monthly and cumulative year-to-date.
- *IM146, U.S. Imports for Consumption*, ■+. Shows data on net quantity and value of imports for consumption by TSUSA commodity, country of origin, customs value, calculated value, rate of duty, and method of transportation. Monthly and cumulative year-to-date.

- *IM155, U.S. General Imports*, ■+. Presents data on value and shipping weight of general imports by schedule A commodity grouping, world area of origin, and method of transportation. Monthly and cumulative year-to-date.
- *IM160, U.S. General Imports From the U.S. Virgin Islands, Guam, American Samoa, and the Northern Mariana Islands*, □+. Monthly and cumulative year-to-date.
- *IM175, U.S. Imports for Consumption and General Imports*, ■+. Cumulative year-to-date.

Selected detailed export and import reports are available only through contractual agreements with the Census Bureau's Foreign Trade Division. In addition to the published report series, the Foreign Trade Division can provide a variety of monthly and annual tabulations either singly or on a subscription basis on exports, imports, and shipping in different arrangements and greater detail than are available in the printed materials.

The *Guide to Foreign Trade Statistics: 1983*, □*, and its 1988 supplement □+ contain further information.

Population and Housing Statistics

The population and housing censuses—The Census Bureau carries out population and housing censuses every 10 years in years ending in "0" to provide detailed demographic and socioeconomic data about the Nation's people and their living quarters. The 1980 Census of Population and Housing is the latest of these enumerations completed (as this Guide goes to print, the Bureau of the Census is making preparations for the 1990 censuses); it produced statistics on the United States, census geographic regions and divisions, the 50 States, the District of Columbia, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, the Northern Mariana Islands, and the remainder of the Trust Territory of the Pacific Islands. The published reports include data for States, metropolitan areas, counties, cities, and various other political and statistical units down to the size of a city block (in urbanized areas; block-level data also will be available for rural areas from the 1990 census).

The population and housing censuses are not directly concerned with collecting data specifically related to agriculture, but the published statistics on population and housing cover rural as well as urbanized areas, farm and nonfarm population and housing, income, age, and other characteristics of the population, all of which are valuable in any examination of agriculture in the United States. Some data were obtained from "complete count" questions (i.e., for every person and housing unit); other statistics were estimated from responses to questions asked of a sample.

The report series listed below all contain data that are, directly or indirectly, most useful in evaluating the agriculture economy. Detail varies by series, according to subject and geographic coverage. This list includes only those

report series most obviously useful to agriculture data users. For more information on the 1980 census publication program, see the *Census Catalog and Guide*, □ *.

- *Number of Inhabitants*, PC80-1-A, □ ■ *, shows population counts for States, counties, county subdivisions, places, SCSA's, SMSA's, and urbanized areas. Some counts show urban/rural residence.
- *General Population Characteristics*, PC80-1-B, □ ■ *, shows complete-count data (i.e., number of persons in each household, age, sex, race, etc.) for various geographic levels from States down to places with populations of 1,000 persons or more.
- *General Social and Economic Characteristics*, PC80-1-C, □ ■ *, including counties and other geographic levels down to places of 2,500 inhabitants or more, and *Detailed Social and Economic Characteristics*, PC80-1-D, □ ■ *, for States and for SMSA's of 250,000 inhabitants or more, provide data collected on a sample basis on subjects (such as occupation, income, and commuting), some cross tabulated by age, race, and other characteristics.
- *General Housing Characteristics*, HC80-1-A, □ ■ *, contains data for the complete-count housing items—access, number of rooms, kitchen and plumbing facilities, tenure (owned or rented), etc.—tabulated from the State level down to places with 1,000 inhabitants or more, and includes some cross-tabulations by the inhabitants' race or Spanish origin. Some tables display data by urban/rural residence.

- *Detailed Housing Characteristics*, HC80-1-B, □ ■ *, covers the sample housing items—heating equipment, farm residence, source of water, sewage disposal, etc.—tabulated down to the level of places with at least 2,500 inhabitants.
- *Summary Tape Files* (STF's), ⊕ + . Nearly all of the population and housing census data appear on computer tapes in greater detail and for smaller geographic areas than in the printed reports. The Census Bureau issues STF's by State, and some data can be obtained on microfiche by county.

The *1980 Census of Population and Housing: Users' Guide*, PHC80-R1, □ *, contains a text and several supplements, including a glossary and table finding guides.

Current population and housing statistics—The Census Bureau has a variety of survey and population-estimation programs, many sponsored by other Federal agencies, such as the Bureau of Labor Statistics, the Department of the Treasury, and the Department of Housing and Urban Development.

Population surveys—The following report series present statistical data drawn from the Bureau's Current Population Survey.

- *Population Characteristics*, P-20, □ * ■ ⊕ + (some □). Offers about 15 reports each year, many dealing with such recurring topics as school enrollment, fertility, mobility, and voting. The reports all show data for the United States, but some reports include statistics for regions.

TABLE FROM 1980 CENSUS OF POPULATION, VOL. 1, CHARACTERISTICS OF THE POPULATION, CHAPTER D, DETAILED POPULATION CHARACTERISTICS

TABLE 219. (A) DETAILED OCCUPATION OF EMPLOYED PERSONS BY SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANINGS OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDICES A AND B.]

ALABAMA	THE STATE										RURAL			
	TOTAL		WHITE		BLACK		AMER. INDIAN, ESKIMO / ALEUT		ASIAN AND PACIFIC ISLANDER		SPANISH ORIGIN (1)		MALE	FEMALE
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
FARMING, FORESTRY, AND FISHING OCCUPATIONS	35 285	5 110	27 702	4 260	7 426	809	105	17	52	19	262	33	27 418	3 546
FARM OPERATORS AND MANAGERS	14 908	1 709	13 757	1 602	1 114	101	17	6	20	8	80	8	13 182	1 354
FARMERS, EXCEPT HORTICULTURAL	12 504	1 428	11 891	1 363	580	59	17	6	16	8	53	8	11 347	1 188
AGRICULTURAL PRODUCTION, CROPS	8 525	574	8 071	515	433	59	17	4	4	4	47	4	7 808	404
HORTICULTURAL SPECIALTY FARMERS	183	76	137	63	42	13	-	-	4	-	-	-	73	14
MANAGERS, FARMS, EXCEPT HORTICULTURAL	1 988	190	1 614	161	374	29	-	-	-	-	21	-	1 644	145
MANAGERS, HORTICULTURAL SPECIALTY FARMS	233	15	115	15	118	-	-	-	-	-	6	-	118	7
FARM OPERATIONS, EXCEPT MANAGERIAL SUPERVISORS, FARM WORKERS	8 025	2 353	5 355	1 899	2 634	430	19	4	17	19	77	18	6 382	1 714
FARM WORKERS	478	179	430	151	46	18	2	-	10	-	-	-	283	78
AGRICULTURAL PRODUCTION, CROPS	7 349	1 843	4 761	1 511	2 554	314	17	4	17	9	77	18	5 989	1 430
MARINE LIFE CULTIVATION WORKERS	4 999	831	3 014	619	1 968	203	17	4	-	-	39	6	4 042	585
NURSERY WORKERS	198	331	164	233	34	98	-	-	-	-	-	-	110	206
RELATED AGRICULTURAL OCCUPATIONS	4 843	833	3 248	649	1 570	177	21	7	4	-	48	7	1 886	343
SUPERVISORS, RELATED AGRICULTURAL OCCUPATIONS	226	23	183	19	43	4	-	-	-	-	-	-	94	5
GROUNDKEEPERS AND GARDENERS, EXCEPT FARM	4 188	328	2 710	183	1 457	145	21	-	-	-	48	7	1 602	139
ANIMAL CARETAKERS, EXCEPT FARM GRADERS AND SORTERS, AGRICULTURAL PRODUCTS	325	336	262	322	59	9	-	5	4	-	-	-	118	92
INSPECTORS, AGRICULTURAL PRODUCTS	82	146	71	125	11	19	-	-	2	-	-	-	56	107
INSPECTORS, AGRICULTURAL PRODUCTS	22	-	22	-	-	-	-	-	-	-	-	-	16	-
FORESTRY AND LOGGING OCCUPATIONS	6 424	202	4 325	109	2 040	93	48	-	11	-	51	-	5 163	122
SUPERVISORS, FORESTRY AND LOGGING WORKERS	373	14	330	14	43	-	-	-	-	-	-	-	305	7
FORESTRY WORKERS, EXCEPT LOGGING SUPERVISORS	455	51	359	36	85	15	-	-	11	-	10	-	306	14

- *Special Studies*, P-23, □ * ■ ⊕ + (some ▢). Comprises several reports issued each year on such subjects as youth, the aging, female family heads, and travel to work. The geographic detail varies from report to report, most showing national-level data, but many have statistics for regions and divisions, specific MSA's, and, in some cases, counties.
- *Population Estimates and Projections*, P-25, □ * ■ ⊕ + (some ▢). Includes monthly estimates of the U.S. population, projections, and annual estimates by age and components of change (births, deaths, and net migration); annual estimates of State populations by age group and components of change; and periodic population and per capita income estimates for States, counties, governmentally active minor civil divisions, and incorporated places.
- *Federal-State Cooperative Program for Population Estimates*, P-26, □ * ■ ⊕ + . Presents annual estimates of the population by county and metropolitan area.
- *Farm Population*, P-27, □ * ■ ⊕ + . Includes annual reports on the number of persons living on farms for the United States and regions, their age and race, and selected characteristics of their employment.
- *Consumer Income*, P60, □ * ■ ⊕ + . Includes annual reports on money income and poverty status of families and persons, cross-classified by a broad range of demographic and socioeconomic characteristics. Other reports cover characteristics of persons receiving various non-money benefits (e.g., food stamps, medical care, public housing, and employer contributions for health and pension plans). The reports include data for the United States and, depending on the specific report, for regions, divisions, and the 20 largest SMSA's/MSA's.

In addition to the Current Population Survey, the Census Bureau conducts the **Survey of Income and Program Participation** (SIPP). The SIPP provides microdata containing basic demographic and social characteristics for each household in the sample. Core data include labor force activity, type and amount of income, and participation in various cash and noncash benefit programs. "Topical modules" of questions are used to collect data on special topics, such as assets, in selected interviews. Data are released for interview periods—called "waves"—covering interviews with approximately 20,000 households. SIPP data are published in the *Household Economic Series*, P-70, □ * ■ ⊕ + .

Housing Surveys—The Census Bureau carries out a series of current housing surveys, the annual **Metropolitan Housing Survey**, providing housing statistics in the Current Housing Reports series H-170, *Housing Characteristics for Selected Metropolitan Areas*; and the biennial **American Housing Survey**. The latter produces statistics published in the Current Housing Reports series H-150, □ * ■ ⊕ + (some ▢), consisting of six reports that provide data on the size and composition of the housing inventory and related topics. Part E, *Urban and Rural Housing Characteristics for the United States and Regions*, may be of special interest to agriculture census data users.

Statistical Compendia

- *Statistical Abstract of the United States [year]*, □ * ■ ⊕ + (some ▢). Standard annual summary of statistics on social, political, and economic organizations of the United States. The Abstract employs data from a wide variety of sources and includes a guide to sources and information on the source of specific statistics.
- *Historical Statistics of the United States, Colonial Times to 1970*, (a *Statistical Abstract* supplement) 2 volumes, available commercially (ISBN 0-527-91756-7), ■ ⊕ + (sold only in sets). The two parts contain more than 12,500 statistical series on subjects ranging from population and land area to production figures for crops and manufactured products.
- *County and City Data Book (CCDB), 1988*, □ * ■ ⊕ + (Published every 5 years.) Presents social and economic data from recent censuses and from other Government agencies and private sources. Provides statistics for every city with a population of 25,000 inhabitants or more, as well as all counties and States, and a limited selection of population and income data for all places of 2,500 persons or more. The CCDB serves as a convenient compendium of small-area data from each of the economic censuses and includes selected 1982 Census of Agriculture data.
- *State and Metropolitan Area Data Book, 1986* (a *Statistical Abstract* supplement), □ * ■ ⊕ + (some ▢). A variety of statistical information for States, census regions and divisions, and metropolitan areas from censuses and 60 other governmental and private agencies. The next edition, tentatively scheduled for 1990 or 1991, will include selected data from the 1987 agriculture census.

TABLE FROM CURRENT POPULATION SURVEY REPORT, SERIES P-27, FARM POPULATION

Table 8. Characteristics of Families, by Farm-Nonfarm Residence: March 1987

(March 1987 Current Population Survey. Numbers in thousands)

Characteristic	Total	Farm	Nonfarm	Percent distribution		
				Total	Farm	Nonfarm
Type						
Families.....	64,491	1,448	63,043	100.0	100.0	100.0
Married couple.....	51,537	1,355	50,182	79.9	93.6	79.6
Other, male householder.....	2,510	30	2,480	3.9	2.1	3.9
Other, female householder.....	10,445	64	10,381	16.2	4.4	16.5
Size						
Families.....	64,491	1,448	63,043	100.0	100.0	100.0
Two persons.....	26,323	611	25,712	40.8	42.2	40.8
Three persons.....	15,395	294	15,101	23.9	20.3	24.0
Four persons.....	13,820	273	13,547	21.1	18.9	21.2
Five persons.....	5,900	168	5,732	9.1	11.6	9.1
Six persons.....	2,078	52	2,026	3.2	3.6	3.2
Seven or more persons.....	1,176	48	1,128	1.8	3.3	1.8
Total persons.....	205,459	4,752	200,707	(X)	(X)	(X)
Persons per family.....	3.19	3.28	3.18	(X)	(X)	(X)
Own Children						
Families.....	64,491	1,448	63,043	100.0	100.0	100.0
With own children.....	32,593	851	31,742	50.5	58.8	50.3
With own children under 18.....	31,898	596	31,301	49.5	41.2	49.7
Average per family.....	1.81	2.00	1.81	(X)	(X)	(X)
With own children under 6.....	14,674	252	14,422	22.8	17.4	22.9
Average per family.....	1.33	1.32	1.33	(X)	(X)	(X)
With own children under 3.....	8,742	136	8,606	13.6	9.4	13.7
Average per family.....	1.10	1.14	1.10	(X)	(X)	(X)
Own children under 18.....	57,808	1,192	56,616	(X)	(X)	(X)
Percent living with two parents.....	78.6	97.3	78.2	(X)	(X)	(X)

X Not applicable.

CHAPTER 4.

Obtaining the Data

GENERAL INFORMATION

The following sources provide information on the availability and cost of the Bureau's various products:

- **Publication order forms**, □ + (free), are small brochures issued periodically to announce the publication of report series or products. They usually include a form that can be used to order already published reports, request subscription service, or place a standing order with the Government Printing Office (GPO) for the series. The order form will provide prices and GPO stock numbers only for those reports already issued at the time, so the user may need to consult other sources (such as the *Monthly Product Announcement* or Customer Services Branch, DUSD (see below)). These brochures are distributed at conventions and other user gatherings and are in display racks at Census Bureau regional and Commerce district offices. Individual copies also are available +.
- **Census and You**, □ (subscription*, single copies or free sample copy+), is a monthly newsletter on activities, products, and services from the Bureau of the Census. Reports and tapes are announced as they become available. Occasional descriptive articles highlight important features of publications, describe aspects of census or survey methodology, or cite applications of the data.
- **Factfinder for the Nation**, □ + (single copies free), is a series of pamphlets providing brief descriptions of Bureau of the Census statistical programs for various areas (No. 3 covers "Agricultural Statistics") and other services.
- **Census Catalog and Guide**, □ *, is an annual volume describing all Bureau publications and other products issued during a particular reference period (cumulative from 1980). (The 1988 catalog provides information on all the products issued from the 1982 Economic Censuses and the 1982 Census of Agriculture.)
- **Monthly Product Announcement**, □ + (free), lists publications, data files on computer tape, microfiche, and maps, together with prices and ordering information and forms.

Write or telephone Customer Services, Bureau of the Census, Washington, DC 20233, (301) 763-4100.

Most of the Bureau's published reports are sold by:

* Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

Public-use computer tapes, diskettes, CD-ROM products, and some published items are obtained from:

+ Customer Services
Bureau of the Census
Washington, DC 20233
(301) 763-4100

Government Printing Office (GPO) and Bureau of the Census order forms are included at the back of this guide.

The Census Bureau can provide **special tabulations** for users with specific requirements not met either by the published statistics or by the public-use tapes. These tabulations are furnished at cost on computer tape or as computer printouts. Requests for information and/or quotations for special tabulations of agriculture census data should be made to:

Chief, Agriculture Division
Bureau of the Census
Washington, DC 20233

and for other censuses or surveys:

Director
Bureau of the Census
Washington, DC 20233

The Census Bureau routinely distributes its publications to selected Government offices, public agencies, and certain libraries. Various agencies maintain reference collections of Census Bureau products. In some cases, specific products may be purchased from these agencies.

Current and Past Reports

Government and Census depository libraries (about 1,500 in all; list on request +) are public institutions in various parts of the country, including colleges and universities. Most collections are open to public use and/or available on interlibrary loan. Some of the holdings are on microfiche.

Department of Commerce and Bureau of the Census libraries have the most extensive collections:

U.S. Department of Commerce
Reference Room 7043
Herbert C. Hoover Building
14th St., between Constitution Ave. & "E" St., NW.
Washington, DC 20230

Bureau of the Census Library
Reference Room 2475, Federal Bldg. 3
Suitland & Silver Hill Roads
Suitland, MD. (mail: Washington, DC 20233)
(301) 763-5402

Current Reports

There are State data centers and their affiliates in every State, the District of Columbia, Puerto Rico, and the Virgin Islands. (List on request +.)

Department of Commerce district offices in 59 cities (see local telephone directories for addresses).

Census Bureau regional offices (see list at the end of this section).

Public-Use Computer Tapes

State data centers and their affiliates (see above; list on request+). The Bureau's National Clearinghouse for Census Data Services maintains a list (copy on request+) of organizations that offer tape printouts and other services to their customers.

ADDITIONAL INFORMATION AND ASSISTANCE

Among the additional sources of information and assistance available to the public through the Bureau of the Census are:

- **Information services specialists** at the Census Bureau's 12 regional offices (see list at the end of this section) and in Washington (Customer Services, (301) 763-4100) can answer questions about publications and other products, assist users in the access and use of Census Bureau data and in specific applications, and conduct workshops or make presentations for groups interested in Census Bureau programs and products.
- **Agriculture subject matter specialists**, located at Census Bureau headquarters, also can be contacted concerning specific problems or requests ((301) 763-1113).
- **Telephone Contacts for Data Users** (free+) is a list of specialists within the Bureau of the Census for over 175 different technical subjects of interest to users.

TELEPHONE CONTACTS

Agriculture Division

Chief, Agriculture Division

Telephone interviews

Policy statements

Charles P. Pautler

(301) 763-8555

Agriculture Statistics Program

John Womack
(301) 763-8557

Crop statistics

Donald Jahnke

(301) 763-8567

Farm economics

(includes data on agricultural chemicals, corporations, direct sales, fertilizer, machinery, land use, operator characteristics, and irrigation)

James Liefer

(301) 763-8565

Livestock statistics

Thomas Monroe

(301) 763-8569

Puerto Rico and outlying areas (including Guam, and Virgin Islands)

Kent Hoover

(301) 763-8564

Special surveys

(includes census of water supply organizations, and the survey of farm water use)

John Blackledge

(301) 763-8560

Data User Program

George Pierce

(301) 763-8556

Electronic data dissemination (Computer tapes, diskettes, CD-ROM, and online)

Douglas Miller

(301) 763-8561

Special tabulations

John Blackledge

(301) 763-8560

Publication requests

Agriculture Information Office

(301) 763-1113

Public affairs and data user meetings

Cyndi Shipley

(301) 763-8561

Farm population

Diana Deare

(301) 763-8570

Regional Offices

Atlanta, GA

Room 625
1365 Peachtree Street, N.E.
30309, (404) 347-2274

Boston, MA

Room 553
Boston Federal Office Building
10 Causeway Street
02222-1084, (617) 565-7078

Charlotte, NC

Suite 505
222 S. Church Street
28202, (704) 371-6144

Chicago, IL

Room 557
175 W. Jackson Boulevard
60604, (312) 353-0980

Dallas, TX

Room 3C54
1100 Commerce Street
75242, (214) 767-7105

Denver, CO

P.O. Box 26750
7655 W. Mississippi Ave.
80226, (303) 969-7750

Detroit, MI

Room 565
Federal Building and U.S. Courthouse
231 West Lafayette Street
48226, (313) 354-4654

Kansas City, KS

One Gateway Center
4th and State Streets
66101, (816) 891-7562

Los Angeles, CA

Room 810
11777 San Vicente Boulevard
90049, (818) 892-6674

New York, NY

Room 37-130
Federal Office Building
26 Federal Plaza
10278, (212) 264-4730

Philadelphia, PA

Room 9244
William J. Green, Jr. Federal Building
600 Arch Street
19106, (215) 597-8313

Seattle, WA

101 Stewart Street
Suite 500
98101, (206) 728-5314

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