This report was prepared in the Agriculture Division. Many other divisions contributed to this preparation: Data Preparation performed the clerical processing; Administrative Services provided the forms design and other administrative services; Publications Services contributed in publication planning and design, editorial review, composition, and printing procurement; Computer Services provided the computer processing facilities; Field provided selected data collection activities; Economic Programming prepared the computer programs; and Economic Surveys assisted in preparation of data collection and processing procedures and computer programs.

Members of the Census Advisory Committee on Agriculture Statistics and representatives of both public and private organizations made significant recommendations which helped establish data content.

Members of various agencies of the U.S. Department of Agriculture provided valuable advice in the planning, publicizing, and processing phases of the census, and in helping farmers and ranchers complete the report forms.

The press, farm magazines, radio and television stations, and farm organizations were most helpful in publicizing the census and encouraging cooperation of farm and ranch operators.

Special tribute is paid to the millions of farm and ranch operators who furnished the information requested. Only through their cooperation was it possible to collect and publish the data in this report.

If you have any questions concerning the statistics in this report, call:
(301) 763-8555 Division Chief
(301) 763-8567 Crops Branch
(301) 763-8569 Livestock Branch
(301) 763-8566 Farm Economics Branch
(301) 763-1113 General Information
(301) 763-8558 Statistical Methodology
1987
Census of Agriculture

Volume 1
GEOGRAPHIC AREA SERIES

Part 16
Kansas
State and County Data

Issued June 1989

U.S. Department of Commerce
Robert A. Mosbacher, Secretary
BUREAU OF THE CENSUS
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1987 CENSUS OF AGRICULTURE
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<td>Index</td>
<td>Index 1</td>
</tr>
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<td>Publication Program</td>
<td>Inside back cover</td>
</tr>
</tbody>
</table>

*Not published for this State.
**INTRODUCTION**

**HISTORY**

The 1987 Census of Agriculture is the 23d taken by the U.S. Department of Commerce, Bureau of the Census. The first agriculture census was taken in 1840 as part of the sixth decennial census of population. From 1840 to 1950, an agriculture census was taken as part of the decennial census. A separate mid-decade census of agriculture was conducted in 1925, 1935, and 1945. From 1954 to 1974, a census of agriculture was taken for the years ending in 4 and 9. In 1976, Congress authorized the census of agriculture to be taken for 1978 and 1982 to adjust the data reference year so that it coincided with the economic censuses covering manufacturing, mining, construction, retail trade, wholesale trade, service industries, and selected transportation activities. This adjustment in timing established the agriculture census on a 5-year cycle collecting data for years ending in 2 and 7.

**USES OF THE CENSUS**

The census of agriculture is the leading source of statistics about the Nation's agricultural production and the only source of consistent, comparable data at the county, State, and national levels. Census statistics are used by Congress in developing and changing farm programs and for determining the effects of these programs. Many national and State programs are designed or allocated on the basis of census data, such as funds for extension services, research, and soil conservation projects. Private industry uses census statistics to provide a more effective production and distribution system for the agricultural community.

**AUTHORITY AND AREA COVERED**

The census of agriculture is required by law under Title 13, United States Code, sections 142(a) and 191, which directs that a census be taken in 1979, 1983, and in every fifth year after 1983 covering the prior year. The 1987 census includes each State, Puerto Rico, Guam, and the Virgin Island of the United States. A census of agriculture will be conducted in American Samoa and the Commonwealth of the Northern Mariana Islands in conjunction with the 1990 Census of Population and Housing.

**FARM DEFINITION**

Since 1850, when minimum criteria defining a farm for census purposes first were established, the farm definition has been changed nine times. The current definition, first used for the 1974 census, is 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. The farm definition used for the outlying areas varies according to area. The report for each area includes a discussion of the farm definition.

**COMPARABILITY OF DATA**

Data on acreages and inventories for 1987 and 1982 are generally comparable. Dollar figures shown for expenses and agricultural product sales are expressed in current dollars and have not been adjusted for inflation or deflation. In general, data for censuses since 1974 are not fully comparable with data for 1969 and earlier censuses due to changes in the farm definition.

The 1978 U.S., region, and State data shown in the 1978 Census of Agriculture publications included data for farms on the mail list plus estimates from an area sample for farms not on the mail list. For comparability, the 1978 data in the 1987 publications include only farms on the mail list.

**TABULAR PRESENTATION**

**State data**—Tables 1 through 47 in chapter 1 show detailed State-level data usually accompanied by historical data for one or more past censuses. Tables 48 through 53 provide 1987 State data cross-tabulated by various farm classifications.

**County data**—Chapter 2 presents selected data items by county. Tables 1 through 16 include general data for all counties. The counties are listed in alphabetical order in the column headings. Tables 17 through 36 include only
counties reporting the data item. Counties not having the item, or with a limited number of farms reporting the item, have data combined and presented as “all other counties.”

**ADVANCE REPORTS**

Advance reports of 1987 census data have been published separately for each county with 10 farms or more, each State, and the United States. This series provided, at the earliest possible date, final data on major data items together with comparable final data from the 1982 census. Data items are standard across States except information on selected crops harvested, which vary by State according to their relative importance in the State.

**ELECTRONIC DATA DISSEMINATION**

The volume 1 data are available on computer tapes and compact disc. The advance report data are available on computer tapes, computer diskettes, and through electronic data services such as the AGRIDATA network, the CENDATA package on Dialog, CompuServe on-line services, and the Census Bureau's State Data Center Bulletin Board. Computer tapes, diskettes, and compact discs are sold by the Customer Services Branch, Data User Services Division, Bureau of the Census, Washington, D.C. 20233 (telephone (301) 763-4100).

**SPECIAL TABULATIONS**

Custom designed tabulations can be developed to individual user specifications on a programming cost reimbursable basis. Inquiries about special tabulations should be directed to the Chief, Agriculture Division, Bureau of the Census, Washington, D.C. 20233.

**CENSUS DISCLOSURE RULES**

In keeping with the provisions of Title 13, United States Code, no data are published that would disclose the operations of an individual farm. However, the number of farms in a given size category or other classification, such as size of farm, is not considered a release of confidential information and is provided even though other information is withheld.

**INVENTORIES, PRODUCTION, AND SALES DATA**

Inventories of livestock, poultry, and machinery and equipment are measured as of December 31 of the census year. Crop and livestock production, sales, and expense data are for the calendar year, except for a few crops (such as citrus) for which the production year overlaps the calendar year.

**ABBREVIATIONS AND SYMBOLS**

The following abbreviations and symbols are used throughout the tables:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual farms.
- (IC) Independent city.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate (associated relative standard error) or a consistency review.
- (X) Not applicable.
- (Z) Less than half of the unit shown.
- cwt Hundredweight.
- sq ft Square feet.
### Highlights of the State's Agriculture: 1987 and 1982

[Dollar figures are in current dollars with no adjustment for price changes. For meaning of abbreviations and symbols, see introductory text.]

<table>
<thead>
<tr>
<th>Item</th>
<th>1987</th>
<th>1982</th>
<th>Percent change from 1982 to 1987</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farms</td>
<td>number</td>
<td>acres</td>
<td></td>
</tr>
<tr>
<td>Land in farms</td>
<td>68 579</td>
<td>73 316</td>
<td>-6.5</td>
</tr>
<tr>
<td>Average size of farm</td>
<td>48 628 519</td>
<td>47 052 213</td>
<td>-9</td>
</tr>
<tr>
<td>Value of land and buildings1:</td>
<td>$279 047</td>
<td>$384 197</td>
<td>-27.5</td>
</tr>
<tr>
<td>Average per farm</td>
<td>$413</td>
<td>$601</td>
<td>-31.3</td>
</tr>
<tr>
<td>Farms by size:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 to 9 acres</td>
<td>3 689</td>
<td>3 547</td>
<td>4.0</td>
</tr>
<tr>
<td>10 to 49 acres</td>
<td>6 102</td>
<td>6 837</td>
<td>-9.0</td>
</tr>
<tr>
<td>50 to 179 acres</td>
<td>15 510</td>
<td>16 720</td>
<td>-7.2</td>
</tr>
<tr>
<td>180 to 499 acres</td>
<td>16 705</td>
<td>18 852</td>
<td>-10.5</td>
</tr>
<tr>
<td>500 to 999 acres</td>
<td>12 093</td>
<td>13 600</td>
<td>-11.1</td>
</tr>
<tr>
<td>1,000 to 1,999 acres</td>
<td>9 194</td>
<td>9 426</td>
<td>-1.3</td>
</tr>
<tr>
<td>2,000 acres or more</td>
<td>5 056</td>
<td>4 480</td>
<td>12.6</td>
</tr>
<tr>
<td>Harvested cropland</td>
<td>57 822</td>
<td>62 860</td>
<td>-8.0</td>
</tr>
<tr>
<td>Irrigated land</td>
<td>17 729 394</td>
<td>20 186 674</td>
<td>-12.2</td>
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<tr>
<td>Market value of agricultural products sold</td>
<td>$4 767 666</td>
<td>$4 190 861</td>
<td>4.6</td>
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<tr>
<td>Average per farm</td>
<td>$3 441</td>
<td>$3 844</td>
<td>11.9</td>
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<tr>
<td>Crops, including nursery and greenhouse crops2</td>
<td>1 800 609</td>
<td>2 163 047</td>
<td>17.3</td>
</tr>
<tr>
<td>Grains</td>
<td>1 550 403</td>
<td>2 009 729</td>
<td>-22.9</td>
</tr>
<tr>
<td>Cotton and cottonseed</td>
<td>$100</td>
<td>$100</td>
<td></td>
</tr>
<tr>
<td>Tobacco</td>
<td>$60</td>
<td>$60</td>
<td></td>
</tr>
<tr>
<td>Hay, silage, and field seeds</td>
<td>$108 574</td>
<td>$100 169</td>
<td>9.4</td>
</tr>
<tr>
<td>Vegetables, sweet corn, and melons2</td>
<td>4 141</td>
<td>4 206</td>
<td>1.5</td>
</tr>
<tr>
<td>Fruits, nuts, and berries</td>
<td>$1 693</td>
<td>$1 398</td>
<td>18.5</td>
</tr>
<tr>
<td>Nursery and greenhouse crops</td>
<td>$28 783</td>
<td>$21 800</td>
<td>-26.9</td>
</tr>
<tr>
<td>Other crops1</td>
<td>$716</td>
<td>$6 954</td>
<td>-89.7</td>
</tr>
<tr>
<td>Livestock, poultry, and their products1</td>
<td>$4 783 060</td>
<td>$4 047 815</td>
<td>18.2</td>
</tr>
<tr>
<td>Poultry and poultry products</td>
<td>$25 284</td>
<td>$25 755</td>
<td>1.9</td>
</tr>
<tr>
<td>Dairy products</td>
<td>$140 242</td>
<td>$162 232</td>
<td>-15.6</td>
</tr>
<tr>
<td>Cattle and calves</td>
<td>$4 165 335</td>
<td>$3 516 670</td>
<td>17.3</td>
</tr>
<tr>
<td>Hogs and pigs</td>
<td>$384 370</td>
<td>$316 893</td>
<td>-19.5</td>
</tr>
<tr>
<td>Sheep, lambs, and wool</td>
<td>$18 561</td>
<td>$15 502</td>
<td>18.7</td>
</tr>
<tr>
<td>Other livestock and livestock products (see text)</td>
<td>$9 273</td>
<td>$10 773</td>
<td>-13.9</td>
</tr>
<tr>
<td>Farms by type of organization:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual or family (sole proprietorship)</td>
<td>60 224</td>
<td>64 313</td>
<td>-6.4</td>
</tr>
<tr>
<td>Partnership</td>
<td>$5 889</td>
<td>$6 702</td>
<td>-11.2</td>
</tr>
<tr>
<td>Corporation</td>
<td>$2 800</td>
<td>$1 676</td>
<td>-19.1</td>
</tr>
<tr>
<td>Other—cooperative, estate or trust, institutional, etc.</td>
<td>$386</td>
<td>$424</td>
<td>-9.5</td>
</tr>
<tr>
<td>Operators by principal occupation:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farming</td>
<td>$42 607</td>
<td>$47 293</td>
<td>-19.6</td>
</tr>
<tr>
<td>Other</td>
<td>$25 172</td>
<td>$26 622</td>
<td>-5.6</td>
</tr>
<tr>
<td>Operators by days worked off farm:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any</td>
<td>34 654</td>
<td>35 521</td>
<td>-2.4</td>
</tr>
<tr>
<td>200 days or more</td>
<td>21 677</td>
<td>21 306</td>
<td>1.7</td>
</tr>
<tr>
<td>Average age of operator:</td>
<td>52.0</td>
<td>50.9</td>
<td>2.2</td>
</tr>
<tr>
<td>Total farm production expenses1:</td>
<td>$5 516 516</td>
<td>(NA)</td>
<td>(NA)</td>
</tr>
<tr>
<td>Selected farm production expenses1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Livestock and poultry purchased</td>
<td>$2 426 140</td>
<td>$1 900 272</td>
<td>27.7</td>
</tr>
<tr>
<td>Feed for livestock and poultry</td>
<td>$887 270</td>
<td>$920 415</td>
<td>-3.6</td>
</tr>
<tr>
<td>Commercial fertilizer2</td>
<td>$216 183</td>
<td>$254 590</td>
<td>-16.5</td>
</tr>
<tr>
<td>Agricultural chemicals2</td>
<td>$125 003</td>
<td>$94 857</td>
<td>31.6</td>
</tr>
<tr>
<td>Petroleum products</td>
<td>$243 588</td>
<td>$588 860</td>
<td>-58.2</td>
</tr>
<tr>
<td>Hired farm labor</td>
<td>$226 076</td>
<td>$153 404</td>
<td>47.4</td>
</tr>
<tr>
<td>Interest expense9</td>
<td>$314 163</td>
<td>$467 054</td>
<td>-32.7</td>
</tr>
<tr>
<td>Livestock and poultry inventory:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cattle and calves</td>
<td>$40 765</td>
<td>$47 000</td>
<td>-13.9</td>
</tr>
<tr>
<td>Milk cows</td>
<td>$5 399 263</td>
<td>$5 800 198</td>
<td>-7.3</td>
</tr>
<tr>
<td>Hogs and pigs</td>
<td>$6 768</td>
<td>$9 241</td>
<td>-26.8</td>
</tr>
<tr>
<td>Chicks 3 months old or older</td>
<td>$1 616 870</td>
<td>$1 706 709</td>
<td>-5.3</td>
</tr>
<tr>
<td>Selected crops harvested:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn for grain or seed</td>
<td>$8 544</td>
<td>$8 346</td>
<td>2.4</td>
</tr>
<tr>
<td>Corn for silage or green chop</td>
<td>$1 243 969</td>
<td>$1 161 875</td>
<td>7.1</td>
</tr>
<tr>
<td>Soybeans for beans</td>
<td>$28 013</td>
<td>$3 200</td>
<td>-88.5</td>
</tr>
<tr>
<td>Wheat for grain</td>
<td>$38 658</td>
<td>$49 231</td>
<td>-26.5</td>
</tr>
<tr>
<td>Oats for grain</td>
<td>$3 513</td>
<td>$6 644</td>
<td>-46.4</td>
</tr>
<tr>
<td>Hay—alfalfa, other tame, small grain, wild, grass sillage, green</td>
<td>$1 878 978</td>
<td>$1 692 286</td>
<td>-11.0</td>
</tr>
</tbody>
</table>

1Data are based on a sample of farms.
2Data for 1987 include cost of custom applications.
3Data for 1982 do not include imputation for item nonresponse.

1987 CENSUS OF AGRICULTURE