

1987

Census of Agriculture

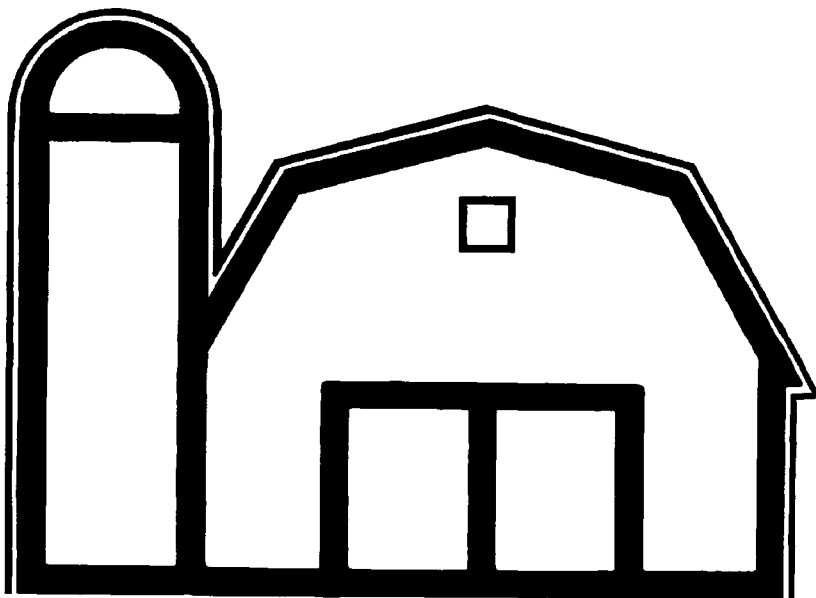
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Volume 1
GEOGRAPHIC AREA SERIES

Part 11

Hawaii

State and County Data



U.S. Department of Commerce
BUREAU OF THE CENSUS

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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.

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Issued August 1989



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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.]

Item	All farms		
	1987	1982	Percent change from 1982 to 1987
Farms.....number.....	4 870	4 595	6.0
Land in farms.....acres.....	1 721 521	1 957 501	-12.1
Average size of farm.....acres.....	353	426	-17.1
Value of land and buildings ¹ :			
Average per farm.....dollars.....	603 435	778 471	-22.5
Average per acre.....dollars.....	1 707	1 826	-6.5
Farms by size:			
1 to 9 acres.....	2 855	2 743	4.1
10 to 49 acres.....	1 401	1 261	11.1
50 to 179 acres.....	341	320	6.6
180 to 499 acres.....	128	126	1.6
500 to 999 acres.....	31	33	-6.1
1,000 to 1,999 acres.....	36	33	9.1
2,000 acres or more.....	78	79	-1.3
Harvested cropland.....farms.....	3 837	3 538	8.5
.....acres.....	152 719	155 960	-2.1
Irrigated land.....farms.....	1 827	1 544	18.3
.....acres.....	148 884	145 982	2.0
Market value of agricultural products sold.....\$1,000.....	609 740	558 608	9.2
Average per farm.....dollars.....	125 203	121 569	3.0
Crops, including nursery and greenhouse crops.....\$1,000.....	498 317	456 069	9.3
Grains.....\$1,000.....	-	3 392	-100.0
Cotton and cottonseed.....\$1,000.....	-	-	-
Tobacco.....\$1,000.....	-	-	-
Hay, silage, and field seeds.....\$1,000.....	630	(D)	(D)
Vegetables, sweet corn, and melons.....\$1,000.....	25 790	18 703	37.9
Fruits, nuts, and berries.....\$1,000.....	157 332	(D)	(D)
Nursery and greenhouse crops.....\$1,000.....	56 527	35 973	57.1
Other crops.....\$1,000.....	258 037	284 164	-9.2
Livestock, poultry, and their products.....\$1,000.....	111 424	102 539	8.7
Poultry and poultry products.....\$1,000.....	21 009	21 519	-2.4
Dairy products.....\$1,000.....	31 299	24 329	28.7
Cattle and calves.....\$1,000.....	43 881	45 495	-3.5
Hogs and pigs.....\$1,000.....	10 371	9 175	13.0
Sheep, lambs, and wool.....\$1,000.....	105	(D)	(D)
Other livestock and livestock products (see text).....\$1,000.....	4 759	(D)	(D)
Farms by type of organization:			
Individual or family (sole proprietorship).....	4 035	3 852	4.8
Partnership.....	404	351	15.1
Corporation.....	370	352	5.1
Other—cooperative, estate or trust, institutional, etc.	61	40	52.5
Operators by principal occupation:			
Farming.....	2 816	2 565	9.8
Other.....	2 054	2 030	1.2
Operators by days worked off farm:			
Any.....	2 728	2 534	7.7
200 days or more.....	1 476	1 371	7.7
Average age of operator.....years.....	53.0	52.7	.6
Total farm production expenses ¹\$1,000.....	495 759	(NA)	(NA)
Selected farm production expenses ¹ :			
Livestock and poultry purchased.....\$1,000.....	15 230	17 581	-13.4
Feed for livestock and poultry.....\$1,000.....	42 629	41 548	2.6
Commercial fertilizer ²\$1,000.....	30 717	33 477	-8.2
Agricultural chemicals ²\$1,000.....	18 233	16 417	11.1
Petroleum products.....\$1,000.....	17 197	19 864	-13.4
Hired farm labor.....\$1,000.....	193 230	146 277	32.1
Interest expense ³\$1,000.....	22 930	17 771	29.0
Livestock and poultry inventory:			
Cattle and calves.....farms.....	1 003	1 040	-3.6
.....number.....	211 045	241 969	-12.8
Milk cows.....farms.....	73	88	-17.0
.....number.....	11 836	12 767	-7.3
Hogs and pigs.....farms.....	372	371	.3
.....number.....	47 564	49 029	-3.0
Chickens 3 months old or older.....farms.....	181	201	-10.0
.....number.....	(D)	929 210	(D)
Selected crops harvested:			
Sugarcane for sugar.....farms.....	79	188	-58.0
.....acres.....	79 234	89 696	-11.7
Pineapples harvested.....farms.....	18	15	20.0
.....acres.....	22 262	23 141	-3.8
Vegetables harvested for sale (see text).....farms.....	710	746	-4.8
.....acres.....	5 587	4 673	19.5
Land in orchards.....farms.....	2 128	1 825	16.6
.....acres.....	33 564	23 178	44.8

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.