1987 Census of Agriculture

AC87-S-1

Volume 2
SUBJECT SERIES

Part 1
Agricultural Atlas of the United States

U.S. Department of Commerce
BUREAU OF THE CENSUS
ACKNOWLEDGMENTS

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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) 763-8561 Data Requirements and Outreach Branch
1987 Census of Agriculture

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Part 1
Agricultural Atlas of the United States

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BUREAU OF THE CENSUS
Barbara Everitt Bryant, Director
C. L. Kincannon, Deputy Director

Charles A. Waite, Associate Director for
Economic Programs
Roger H. Bugenhagen, Assistant Director for
Economic and Agriculture Censuses

Thomas L. Mesenbourg, Chief,
Economic Census Staff

AGRICULTURE DIVISION
Charles P. Pautler, Jr., Chief

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1987 CENSUS OF AGRICULTURE
INTRODUCTION

SUMMARY OF MAPPED DATA

The maps in this report show data only for 1987, except for those showing increase or decrease. The 1987 totals along with the comparable 1982 totals for each item mapped are shown in the appendix on page A-5.

Data on acreages and inventories for 1987 and 1982 are generally comparable. Dollar figures shown for expenses and agricultural product sales have not been adjusted for changes in price levels between census years.

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 Islands 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.

HISTORY

The 1987 Census of Agriculture is the 23d census 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.

SOURCES OF INFORMATION

The data used in preparing the charts and maps shown were obtained from the 1987 Census of Agriculture. Detailed statistics for States and counties may be found in Volume 1, Geographic Area Series, of the 1987 census publications.

The 1987 Census of Agriculture was conducted primarily by mail for maximum economy. Appendix A of Volume 1, Geographic Area Series, provides a more detailed description of how the 1987 census was taken.

For a detailed description of coverage and data limitations, see volume 2, Part 2, Coverage Evaluation.

Detailed discussions of the census report forms, the use of sampling, and estimates of sampling error are included in appendix C, volume 1.

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 vary according to area. The report for each area includes a discussion of the farm definition.

HOW THE MAPS WERE MADE

Computer graphics techniques and technology were used in the production of the maps for this report and similar reports for the data from the 1974, 1978, and 1982 Censuses of Agriculture. The mapping system developed for the 1987 Agricultural Atlas of the United States was built for use with a new, higher quality output device. The current maps were generated on the U.S. Geological Survey's Scitex Response 200/250 system. The Scitex is a raster or pixel oriented device unlike the vector type computer output on microfilm device used for previous agriculture atlas work.

The multicolored choropleth maps and the dot maps are the products of an automated statistical mapping system developed by the Geography Division of the U.S. Bureau of the Census. The mapping system includes agricultural data files, cartographic coordinate files, statistical mapping software, and software to transform the mapping output into a format compatible with the Scitex raster device.
Computer tapes were generated from the system to produce negative artwork on the Scitex that could be processed and sent to a printer for final publication. The negatives were produced at publication scale. This reduces the cost in both labor and materials.

The mapping system required several computer files as input. The Census Bureau's Agriculture Division provided data for the maps from tabulations of the 1987 Census of Agriculture. The data file contained data for each county and county equivalent in the United States and its associated Federal Information Processing Standards (FIPS) code. Files containing the vector format geographic coordinates of the boundaries of each county came from the Census Bureau's county boundary file and the coastline file from the U.S. Geological Survey's 1:2,000,000 digital data file provided by the Nuclear Regulatory Commissions Oak Ridge National Laboratories. The coordinates for each county were also identified by FIPS codes, allowing a 1-to-1 correspondence between the data and the geographic area to which they belong.

The mapping software performed statistical calculations, such as classing the data into categories or dot values, and determined the symbols used to represent the data for each county. Text for map titles, legends, and notes were scaled, positioned, and centered by the mapping software. In addition, the software transformed the vector-oriented map into a raster-oriented map that could be placed on magnetic tape in a format acceptable to the output device. Separate software modules were necessary to create the choropleth and the dot maps.

**Choropleth Maps**

A choropleth map uses a sequence of colors or shades to show the density of a phenomenon within the boundary of a geographic area. Most often, the data have been grouped into classes. To create each choropleth map, the mapping software classed the data and prepared one negative overlay for each data class per map. An additional overlay was prepared that contained the text, the outline of the United States, and map neatline. The overlays for the classed county data were created by matching the FIPS codes of the data values with the coordinates of the appropriate county boundaries. A "scan-line" technique, in which overlapping horizontal lines fill the area within the borders of the county, was used to generate an "open-window" negative for each overlay. The open-window negatives were screened and composited into four negatives corresponding to the red, yellow, blue, and black inks used by the printer in the final publication.

**Dot Distribution Maps**

A dot map uses a dot to represent the number of a phenomenon found within the boundaries of a geographic area. In addition, the cartographer usually attempts to show the pattern of distribution within the area by placing the dots where the phenomenon is most likely to occur. Two types of dot maps appear in this report: a traditional type of dot map and an increase/decrease (two color) dot map.

Several different procedures and techniques were used to place the dots on the dot distribution maps: a land-use filter, weighting factors and scanlines. The land-use filter was prepared from the land-use map that was published by the U.S. Geographical Survey in *The National Atlas of the United States of America*. Fifteen land-use map overlays were scanned, combined, and scaled. Weighting factors were assigned to each land-use for each map. The land-use filter was turned into scan-lines. The mapping software matched the data to the appropriate county and placed dots within the scan-lines of the land-use filter with the highest weighting factors for that phenomenon. One negative overlay (black) was created for each traditional dot map and provided to the printer; the increase-decrease dot maps required two negative overlays (black and red).
Boundaries for the 1987 Census of Agriculture

[Boundary map overlays are located in the back pocket of this publication]
Farms With Sales of Less Than $2,500: 1987

United States Total 490,296

1 Dot = 100 Farms

Farms With Sales of $2,500 to $4,999: 1987

United States Total 262,918

1 Dot = 100 Farms
Percent of Farms With Sales of $500,000 or More: 1987

United States Average: 1.5 Percent

U.S. Department of Commerce
Bureau of the Census

AGRICULTURAL ATLAS

1987 CENSUS OF AGRICULTURE
Value of Sales From Farms With Sales of $100,000 or More as Percent of Total Value of Sales: 1987
Average Size of Farm With Sales of $10,000 or More: 1987

United States Average: 762

U.S. Department of Commerce

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS  13
Farms With 50 to 99 Acres: 1987

United States Total: 310,867

1 Dot = 100 Farms

Farms With 100 to 259 Acres: 1987

United States Total: 526,070

1 Dot = 100 Farms
Change in Number of Farms With 50 to 259 Acres: 1982 to 1987

1 Dot = 25 Farms Increase
1 Dot = 25 Farms Decrease

Farms With 260 to 499 Acres: 1987

1 Dot = 100 Farms
Change in Number of Farms With 1,000 Acres or More: 1982 to 1987

1 Dot = 25 Farms Increase
1 Dot = 25 Farms Decrease

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 19
Market Value of Agricultural Products Sold: 1987

United States Total
$136,048,516,000

1 Dot = $20,000,000

U.S. Department of Commerce
Bureau of the Census
Average Value Per Farm of Agricultural Products Sold With Sales of $10,000 or More: 1987
Average Value of Agricultural Products Sold Per Acre of Land in Farms: 1987

Value of Agricultural Products Sold as Percent of Value of Land and Buildings and Value of Machinery and Equipment: 1987
Value of Crops Sold as Percent of Agricultural Products Sold: 1987

Average Value of Crops Sold Per Acre of Harvested Cropland: 1987
Value of Poultry and Poultry Products Sold as Percent of Agricultural Products Sold: 1987

Value of Dairy Products Sold as Percent of Agricultural Products Sold: 1987

United States Average: 9.4 Percent

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 33
Value of Cattle and Calves Sold as Percent of Agricultural Products Sold: 1987

Value of Hogs and Pigs Sold as Percent of Agricultural Products Sold: 1987
Value of Sheep, Lambs, and Wool Sold as Percent of Agricultural Products Sold: 1987

United States Average 0.8 Percent

Percent
Less than 1
1 - 2
3 - 4
5 - 9
10 or more

U.S. Department of Commerce
Bureau of the Census
Payments Received From Federal Farm Programs: 1987

Payments Received From Federal Farm Programs by County: 1987

United States
Total
$9,646,573,000

United States
Total
$9,646,573,000

1 Dot = $1,000,000

Dollars
Less than 500,000
500,000 - 1,000,000
2,000,000 - 4,000,000
5,000,000 - 9,000,000
10,000,000 - 14,000,000
15,000,000 or more

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
Average Production Expenses Per Farm by County: 1987
Expenses for Livestock and Poultry Purchased: 1987

United States
Total
$9,344,645,000
(from sample data)

Expenses for Livestock and Poultry Purchased by County: 1987

Dollars
Less than 500,000
500,000 - 999,999
1,000,000 - 4,999,999
5,000,000 - 9,999,999
10,000,000 - 14,999,999
15,000,000 or more

United States
Total
$9,344,645,000
(from sample data)

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
Expenses for Commercial Fertilizer: 1987

Expenses for Commercial Fertilizer by County: 1987

1 Dot = $1,000,000

United States
Total
$6,684,444,000
(from sample data)

Dollars
Less than $500,000
500,000 - 999,999
1,000,000 - 1,999,999
2,000,000 - 3,999,999
4,000,000 - 5,999,999
6,000,000 or more

United States
Total
$6,684,444,000
(from sample data)
Expenses for Petroleum Products: 1987

1 Dot = $1,500,000

United States
Total
$5,277,227,000
(from sample data)

U.S. Department of Commerce
Bureau of the Census
Expenses for Petroleum Products by County: 1987
Expenses for Gasoline and Gasohol: 1987

Expenses for Gasoline and Gasohol by County: 1987

United States Total
$1,865,289,000
(from sample data)

United States Total
$1,865,289,000
(from sample data)
Expenses for Diesel Fuel: 1987

Expenses for Diesel Fuel by County: 1987

Dollars
- Less than 100,000
- 100,000 - 499,999
- 500,000 - 999,999
- 1,000,000 - 1,999,999
- 2,000,000 or more

United States Total
$2,290,397,000 (from sample data)

U.S. Department of Commerce
Bureau of the Census

AGRICULTURAL ATLAS

1987 CENSUS OF AGRICULTURE
Expenses for Hired Farm Labor, Excluding Contract Labor: 1987

Expenses for Hired Farm Labor, Excluding Contract Labor, by County: 1987

1 Dot = $1500,000

United States Total
$10,868,704,000
(from sample data)

United States Total
$30,886,754,000
(from sample data)

Dollars
Less than 500,000
500,000 - 999,999
1,000,000 - 1,499,999
1,500,000 - 1,999,999
2,000,000 - 2,499,999
3,000,000 or more

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
AGRICULTURAL ATLAS 53
Expenses for Customwork, Machine Hire, and Rental of Machinery and Equipment: 1987

United States Total: $2,076,467,000
(from sample data)

Expenses for Customwork, Machine Hire, and Rental of Machinery and Equipment by County: 1987

United States Total: $2,076,467,000
(from sample data)
Expenses for Interest Paid for Farm Business: 1987

United States
Total
$8,156,268,000
(from sample data)

1 Dot = $2,000,000
Expenses for Interest Paid for Farm Business by County: 1987

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 57
Percent of Farms With Interest Expenses Paid by County: 1987

United States Average: 46.6 Percent (from sample data)

U.S. Department of Commerce
Bureau of the Census
Expenses for Repairs and Maintenance for Upkeep of Buildings, Motor Vehicles, and Farm Equipment: 1987

United States Total
$63,401,090,000
(from sample data)

U.S. Department of Commerce
Bureau of the Census

Expenses for Repairs and Maintenance for Upkeep of Buildings, Motor Vehicles, and Farm Equipment by County: 1987

United States Total
$63,401,090,000
(from sample data)

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
Land in Farms - Change in Acreage: 1982 to 1987

1 Dot = 5,000 Acres Increase
1 Dot = 5,000 Acres Decrease
Total Cropland as Percent of Land in Farms: 1987

Percent

- Less than 5
- 5 - 14
- 15 - 29
- 30 - 49
- 50 - 74
- 75 or more

United States Average: 46.0 Percent

U.S. Department of Commerce
Bureau of the Census
Irrigated Land in Farms: 1987

United States Total
46,386,201

1 Dot = 10,000 Acres

U.S. Department of Commerce
Bureau of the Census
Irrigated Land - Change in Acreage: 1982 to 1987

1 Dot = 2,000 Acres Increase
1 Dot = 2,000 Acres Decrease
Average Value of Land and Buildings Per Farm: 1987

Average Value of land and Buildings Per Acre of land in Farms: 1987

United States Average $299.367

United States Average $627

Dollars
- Less than 100,000
- 100,000 - 149,999
- 150,000 - 199,999
- 200,000 - 249,999
- 300,000 - 499,999
- 500,000 or more

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
Estimated Market Value of All Machinery and Equipment on Place by County: 1987

United States
Total
$85,801,360,000
(from sample data)

Dollars
Less than 10,000,000
10,000,000 - 19,999,999
20,000,000 - 29,999,999
30,000,000 - 49,999,999
50,000,000 - 69,999,999
70,000,000 or more

U.S. Department of Commerce
Bureau of the Census
Motortrucks, Including Pickups: 1987

1 Dot = 500 Trucks

United States
Total
1,437,042
(from sample data)

Motortrucks, Including Pickups - Change in Number: 1982 to 1987

1 Dot = 50 Trucks increase
1 Dot = 50 Trucks decrease

United States
Net Increase
1,449
(from sample data)
Wheel Tractors: 1987

United States
Total
4,609,368
(from sample data)

1 Dot = 500 Tractors

Wheel Tractors - Change in Number: 1982 to 1987

United States
Net Increase
+65,533
(from sample data)

1 Dot = 50 Tractors Increase
1 Dot = 50 Tractors Decrease

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 83
Cottonpickers and Strippers: 1987

United States
Total
42,914
(from sample data)

1 Dot = 50 Cottonpickers and Strippers

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
Acres of Cropland Fertilized, Excluding Pastureland, as Percent of Harvested Cropland: 1987

Percent
Less than 20
20 - 29
30 - 49
50 - 69
70 - 89
90 or more

United States Average
69.1 Percent
(from sample data)

Acres on Which Lime Was Used: 1987

1 Dot = 2,000 Acres

United States Total
52,580,561
(from sample data)
Percent of Land in Farms Operated by Full Owners: 1987

Farms Operated by Part Owners: 1987

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 93
Farm Operators 65 Years Old and Over: 1987

Percent of Farm Operators 65 Years Old and Over: 1987

United States Total
447,341
Percent of Farm Operators Not Residing on Farm Operated: 1987

1987 CENSUS OF AGRICULTURE
Farms Operated by Female Operator: 1987

1 Dot = 50 Farms

Percent of Farms Operated by Female Operator: 1987

United States Average 6.3 Percent

Percent

- Less than 3
- 3 - 4
- 5 - 6
- 7 - 9
- 10 or more

U.S. Department of Commerce Bureau of the Census

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 103
Percent of Farm Operators With Sales of $10,000 or More Reporting Principal Occupation as Farming: 1987

Percent of Farm Operators Reporting Principal Occupation as Other Than Farming: 1987
Percent of Land in Farms Operated by Individual or Family: 1987
Cattle and Calves - Inventory: 1987

United States
Total
95,647,299

1 Dot = 10,000 Cattle and Calves

U.S. Department of Commerce
Bureau of the Census
Cattle and Calves - Inventory by County: 1987

United States Total: 52,947,289
Farms With 200 or More Cattle and Calves - Inventory: 1987

Cows and Heifers That Had Calved - Inventory: 1987

US Department of Commerce
Bureau of the Census
Milk Cows - Inventory: 1987

United States Total
10,084,697

1 Dot = 2,000 Milk Cows

Milk Cows - Change in Inventory: 1982 to 1987

United States Net Decrease
76,410

1 Dot = 1,000 Milk Cows Increase
1 Dot = 1,000 Milk Cows Decrease

1987 CENSUS OF AGRICULTURE
AGRICULTURAL ATLAS 115
Hogs and Pigs - Inventory: 1987

1 Dot = 10,000 Hogs and Pigs

United States
Total
52,271,220

U.S. Department of Commerce
Bureau of the Census
Hogs and Pigs - Change in Inventory: 1982 to 1987

Farms With 200 or More Hogs and Pigs - Inventory: 1987
Hogs and Pigs Used or to be Used for Breeding - Inventory: 1987

United States Total
6,900,268

1 Dot = 2,000 Breeding Hogs and Pigs

U.S. Department of Commerce
Bureau of the Census
Hogs and Pigs Used or to be Used for Breeding - Change in Inventory: 1982 to 1987

Litters of Pigs Farrowed Between December 1, 1986, and November 30, 1987

1 Dot = 500 Breeding Hogs and Pigs Increase
1 Dot = 500 Breeding Hogs and Pigs Decrease

1 Dot = 5,000 Litters
Feeder Pigs Sold as Percent of Hogs and Pigs Sold: 1987

Hogs and Pigs Sold Other Than Feeder Pigs: 1987
Sheep and Lambs Sold: 1987

United States
Total 9,965,563

1 Dot = 5,000 Sheep and Lambs

Milk Goats - Inventory: 1987

United States
Total 129,225

1 Dot = 50 Milk Goats

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 133
Chickens 3 Months Old or Older - Inventory: 1987

United States Total
373,577,186

1 Dot = 50,000 Chickens
3 Months Old or Older

U.S. Department of Commerce
Bureau of the Census
Chickens 3 Months Old or Older - Change in Inventory: 1982 to 1987

1 Dot = 10,000 Chickens
3 Months Old or Older Increase
1 Dot = 10,000 Chickens
3 Months Old or Older Decrease

United States
Net Increase
+1,112,189

U.S. Department of Commerce
Bureau of the Census
Chickens 3 Months Old or Older - Inventory by County: 1987

United States Total
373,577,186

Chickens 3 Months Old or Older

- Less than 10,000
- 10,000 - 49,999
- 50,000 - 99,999
- 100,000 - 999,999
- 200,000 - 499,999
- 500,000 or more

U.S. Department of Commerce
Bureau of the Census
Broilers and Other Meat-Type Chickens Sold: 1987

1 Dot = 750,000 Broilers

United States Total
4,361,375,630

U.S. Department of Commerce
Bureau of the Census

Broilers and Other Meat-Type Chickens Sold - Change in Number: 1982 to 1987

1 Dot = 200,000 Broilers Increase
1 Dot = 200,000 Broilers Decrease

United States Net Increase
+845,352,741

U.S. Department of Commerce
Bureau of the Census

138 AGRICULTURAL ATLAS

1987 CENSUS OF AGRICULTURE
Turkeys Sold: 1987

1 Dot = 50,000 Turkeys

United States
Total
243,336,302

U.S. Department of Commerce
Bureau of the Census

Turkeys Sold - Change in Number: 1982 to 1987

1 Dot = 10,000 Turkeys Increase
1 Dot = 10,000 Turkeys Decrease

United States
Net Increase
+713,070

U.S. Department of Commerce
Bureau of the Census

140 AGRICULTURAL ATLAS

1987 CENSUS OF AGRICULTURE
Value of Fish and Other Aquaculture Products Sold: 1987
Acres of Corn for Grain or Seed as Percent of Harvested Cropland: 1987
Corn for Silage or Green Chop: 1987

1 Dot = 2,000 Acres

United States
Total
5,795,360

US Department of Commerce
Bureau of the Census
Sorghum for Grain or Seed: 1987

1 Dot = 5,000 Acres

United States
Total
9,760,574

U.S. Department of Commerce
Bureau of the Census
Acres of Sorghum for Grain or Seed as Percent of Harvested Cropland: 1987

United States Average 3.5 Percent

Percent

- Less than 1
- 1 - 4
- 5 - 9
- 10 - 19
- 20 - 29
- 30 or more

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE
Oats for Grain: 1987

1 Dot = 5,000 Acres

United States Total
5,561,247

Oats for Grain - Change in Acreage: 1982 to 1987

1 Dot = 1,000 Acres Increase
1 Dot = 1,000 Acres Decrease

United States Net Decrease
3,150,431

U.S. Department of Commerce
Bureau of the Census
Soybeans for Beans - Change in Acreage: 1982 to 1987

Soybeans for Beans by County: 1987

1 Dot = 3,000 Acres Increase
1 Dot = 3,000 Acres Decrease

United States Net Increase
9,541,637

United States Total
50,251,005

1987 CENSUS OF AGRICULTURE
Acres of Cotton as Percent of Harvested Cropland: 1987

Sunflower Seed: 1987
Sugar Beets for Sugar: 1987

United States
Total
1,249,000

1 Dot = 1,000 Acres

US Department of Commerce
Bureau of the Census

Sugarcane for Sugar: 1987

United States
Total
779,045

1 Dot = 2,000 Acres

US Department of Commerce
Bureau of the Census
Irish Potatoes: 1987

Irish Potatoes - Change in Acreage: 1982 to 1987

1 Dot = 1,000 Acres

1 Dot = 100 Acres Increase
1 Dot = 100 Acres Decrease

United States Total
13,963

United States
Net Increase
+4,476
Tobacco - Change in Acreage: 1982 to 1987

1 Dot = 100 Acres Increase
1 Dot = 100 Acres Decrease

United States
Net Decrease
398,345

US Department of Commerce
Bureau of the Census
Land From Which Hay Was Harvested: 1987

United States
Total
57,967,530

1 Dot = 10,000 Acres

U.S. Department of Commerce
Bureau of the Census
Land From Which Hay Was Harvested by County: 1987
Land From Which Hay Was Harvested - Change in Acreage: 1982 to 1987

1 Dot = 5,000 Acres Increase
1 Dot = 5,000 Acres Decrease

United States
Net Increase
+1223,684

U.S. Department of Commerce
Bureau of the Census

Land From Which Hay Was Harvested as Percent of Harvested Cropland: 1987

Percent
Less than 5
5 - 14
15 - 29
30 - 49
50 - 74
75 or more

United States
Average: 20.5 Percent

U.S. Department of Commerce
Bureau of the Census

168 AGRICULTURAL ATLAS

1987 CENSUS OF AGRICULTURE
Tame Hay Harvested, Other Than Alfalfa, Small Grain, and Wild Hay: 1987

Small Grain Hay Harvested: 1987
Wild Hay Harvested: 1987

Grass Silage, Haylage, and Green Chop Hay Harvested: 1987
Vegetables Harvested for Sale: 1987

United States
3,467,543

1 Dot = 1,000 Acres

U.S. Department of Commerce
Bureau of the Census
Asparagus Harvested for Sale: 1987

United States Total
97,335

1 Dot = 300 Acres

Broccoli Harvested for Sale: 1987

United States Total
92,306

1 Dot = 100 Acres

U.S. Department of Commerce
Bureau of the Census

176 AGRICULTURAL ATLAS

1987 CENSUS OF AGRICULTURE
Snap Beans Harvested for Sale: 1987

Sweet Corn Harvested for Sale: 1987
Tomatoes Harvested for Sale: 1987

United States Total
375,470

1 Dot = 500 Acres

Watermelons Harvested for Sale: 1987

United States Total
63,37

1 Dot = 200 Acres
Tame Blueberries Harvested for Sale: 1987

United States Total
37,247

1 Dot = 50 Acres
Acres of Lemons: 1987

1 Dot = 200 Acres

United States
Total
68,837

U.S. Department of Commerce
Bureau of the Census
Acres of Pecans: 1987

1 Dot = 500 Acres

United States
Total
453,243

U.S. Department of Commerce
Bureau of the Census

1987 CENSUS OF AGRICULTURE

AGRICULTURAL ATLAS 193
Farms With Nursery and Greenhouse Crops, Mushrooms, and Sod for Sale: 1987

United States Total 37,298

1 Dot = 10 Farms

1987 CENSUS OF AGRICULTURE
Farms With Nursery and Greenhouse Crops, Mushrooms, and Sod
With Value of Sales of $2,000 or More: 1987

United States
Total
32,527

1 Dot = 10 Farms

U.S. Department of Commerce
Bureau of the Census
APPENDIX
Explanation of Terms

FARMS

Denotes all places on which agricultural operations were conducted at any time in the census year under the day-to-day control of an individual management, and from which $1,000 or more of agricultural products were produced and sold or normally would have been sold in 1987.

FARMS WITH SALES OF $10,000 AND OVER

Denotes farms with sales of agricultural products amounting to at least $10,000, excluding abnormal farms such as prison farms, hospital farms, church farms, school farms, experimental farms, Indian reservations, and grazing associations.

FARMS BY VALUE OF SALES

Farms by value of sales represents the gross market value before taxes and production expenditures of all agricultural products sold or removed from the place in 1987 regardless of who received or shared in the payment. It includes receipts by the operator as well as the value of any shares received by partners, landlords, contractors, and others associated with the place.

In 1987, all farms were tabulated by size based on reported sales. In 1982 and earlier censuses, abnormal farms were not tabulated based on sales size. In the tables on market value of agricultural products sold, the sales of abnormal farms in 1982 and earlier censuses were included in the total sales figure, but excluded from the detailed size categories. Abnormal farms included Indian reservations. The category “farms with sales of less than $1,000” included all farms with actual sales of less than $1,000 but having the production potential for sales of $1,000 or more. These farms normally could be expected to sell $1,000 or more of agricultural products.

The sales size categories used in this report are consistent with the standard business size categories issued by Office of Management and Budget (OMB) in 1982. In State table 52, data are presented for four sales size categories between $10,000 and $49,999. This provides census classifications. For the 1992 census, data will be presented only for the OMB sales size categories of $10,000 to $24,999 and $25,000 to $49,999.

This report uses the following value of sales classifications:

- $500,000 or more
- $250,000 to $499,999
- $100,000 to $249,999
- $50,000 to $99,999
- $25,000 to $49,999
- $10,000 to $24,999
- $5,000 to $9,999
- $2,500 to $4,999
- Less than $2,500

Places having less than the minimum $1,000 sales in the census year were counted as farms if they could normally be expected to produce agricultural products in sufficient quantity to meet the requirements of the definition.

FARMS BY SIZE

Although the number of farms in the United States has dropped drastically in the last 40 years, the acreage of land in farms has changed only moderately; as a result, the average size of a farm is now nearly two times what it was in 1954. The trend since 1954 until the 1978 census has been a decrease in number of farms for each of the size groups under 500 acres and an increase in the number of farms in size groups over 500 acres.

Size of farm measured only by acres operated is often not a complete measure of the size of the farm business due to large variations in the productivity of land or in the intensity of activity. For example, average value of farm
products sold per acre of farmland can vary from such extremes as $3,092 per acre in Suffolk County, NY, to less than $13 per acre in Elko County, NV.

MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD

This category represents the gross market value before taxes and production expenses of all agricultural products sold or removed from the place in 1987, regardless of who received the payment. It includes sales by the operator as well as the value of any shares received by partners, landlords, contractors, or others associated with the operation. In addition, it includes receipts from placing commodities in the Commodity Credit Corporation (CCC) loan program in 1987. It does not include payments received for participation in federal farm programs nor does it include income from farm-related sources such as customwork and other agricultural services, or income from nonfarm sources.

The value of crops sold in 1987 does not necessarily represent the sales from crops harvested in 1987. Data may include sales from crops produced in earlier years and exclude some crops produced in 1987, but held in storage and not sold. For commodities, such as sugar beets and wool, sold through a co-op which made payments in several installments, respondents were requested to report the total value received in 1987.

The value of agricultural products sold was requested of all operators. If the operator failed to report this information, estimates were made based on the amount of crops harvested, livestock or poultry inventory or number sold. Extensive estimation was required for operators growing crops or livestock under contract.

Caution should be used when comparing sales in 1987 with sales reported in earlier censuses. Sales figures are expressed in current dollars and have not been adjusted for inflation or deflation.

FARM-RELATED INCOME

The 1987 Census included a new inquiry on income from farm-related sources. These data consist of gross income in 1987 before taxes and expenses from the sales of farm byproducts and other sales and services closely related to the principal functions of the farm business. These data are for income producing activities that are primarily a byproduct or supplemental to the farm operation. They exclude income from business activities that are separate from the farm business. Separate data were collected for income from customwork and other agricultural services, cash rent of farmland, allotments, etc., sale of forest products, and on all other categories.

FARM PRODUCTION EXPENSES

In 1987, additional specific expense items and a category for all other farm production expenses were added to the selected farm production expenses collected in 1982. Consequently, we are publishing total farm production expenses in 1987. The expenses are limited to those incurred in the operation of the farm business. Expenses include the share of the expenditures provided by landlords, contractors, and partners in the operation of the farm business. Property taxes paid by landlords are excluded. Expenditures for nonfarm activities; farm-related activities such as providing customwork for others, the production and harvest of forest products, and recreational services; and household expenses are excluded. In 1987, as in other recent censuses, operators producing crops, livestock, or poultry under contract often were unable or unwilling to estimate the cost of production inputs furnished by the contractors. As a consequence, extensive estimation was required for contract producers.

LAND IN FARMS AND LAND USE

Land in farms—The acreage designated in the tables as “land in farms” consists primarily of agricultural land used for crops, pasture, or grazing. It also includes woodland and wasteland not actually under cultivation or used for pasture or grazing, provided it was part of the farm operator’s total operations. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations. Land in farms includes acres set aside under annual commodity acreage programs as well as acres in the Conservation Reserve Program for places meeting the farm definition.

Land in farms is an operating unit concept and includes land owned and operated as well as land rented from others. Land used as rent free was to be reported as land rented from others. All grazing land, except land used under government permits on a per-head basis, was included as “land in farm” provided it was part of a farm or ranch. Land under the exclusive use of a grazing association was to be reported by the grazing association and included as land in farms. All land in Indian reservations used for growing crops or grazing livestock was to be included as land in farms. Land in reservations not reported by individual Indians or non-Indians was to be reported in the name of the cooperative group that used the land. In some instances, an entire Indian reservation was reported as one farm.

Total cropland—Includes the sum of acreage for crop land harvested, cropland used for pasture or grazing, cropland used for cover crops, cropland on which all crops failed, cropland in cultivated summer fallow, and idle cropland.

Harvested cropland—Includes all land from which crops were harvested, including hay cut, and all land in orchards, citrus groves, and nursery and greenhouse crops. Land from which two or more crops were harvested was counted only once, even though there was more than one use of that land.
Pastureland—The sum of all types of pastureland. It includes cropland used only for pasture or grazing, woodland pastured, and other pastureland and rangeland.

IRRIGATION

Irrigated land includes all land watered by artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes. Included are supplemental, partial, and preplant irrigation. Each acre was counted only once regardless of the number of times it was irrigated or harvested.

VALUE OF LAND AND BUILDINGS

The value of land and buildings reported for the census is the farm operators estimate of market value, i.e., the price for which the land and buildings would sell at the time the census was taken. If the value of land and buildings was not reported or was incomplete, an estimate was supplied during processing by using the average value per acre of land and buildings for farms of approximately the same size having similar characteristics in the same area.

For many groups of counties in the West, the maps exhibiting value of land and buildings per farm show reverse patterns as compared with maps showing value of land and buildings per acre, i.e., many counties in high value-per-farm categories appear in low value-per-acre categories. This reverse relationship between the two pattern maps happens because a large proportion of land in farms is comprised of low value-per-acre rangeland, and the extremely large average size of the farms and ranches offsets the low average-per-acre value, resulting in high average-per-farm values.

MACHINERY AND EQUIPMENT ON PLACE

Farm operators estimated the market value of all machinery and equipment usually kept on the farm and used for the farm business. The reported value represents an estimate of how much the machinery and equipment would sell for in its present condition, not the replacement cost or the depreciated value.

Inventory of selected items of farm equipment includes only the equipment owned, leased, rented, or temporarily borrowed from others that was on the farm on December 31, 1987, and that was used for the farm business in 1986 or 1987. These items were asked on a sample basis. Further explanation and sample reliability can be found in appendix A in volume 1.

AGRICULTURAL CHEMICALS USED

Fertilizer—Data on acreage fertilized were collected for harvested cropland and for cropland pasture and other pastureland. When the same crop was fertilized two or more times, the acreage was to be reported only once. If two different crops or two different plantings of the same crop were harvested in 1987 from the same acreage, the acreage of each crop or planting fertilized was to be reported only once.

Lime—Data include acreage limed and tonnage of lime applied to the soil in 1987. Gypsum, land plaster, and lime used for spraying or sanitation purposes were excluded.

Other agricultural chemicals—Data include the cost of insecticides, herbicides, fungicides, nematocides, and other pesticides and chemicals used on the farm in 1987. These data include the cost of application.

Acres treated more than one time with the same chemical are included only once. However, the cost of all the materials applied was to be reported. When multipurpose chemicals were used, the acreage treated for each purpose was included. These items were asked on a sample basis. Further explanation can be found in appendix A in volume 1.

TENURE AND CHARACTERISTICS OF OPERATORS

Tenure classifications and characteristics used are:

Full owners—Operators who operate only the land they own.

Part owners—Operators who operate land they own and also land they rent from others.

Tenants—Operators who operate only the land they rent from others or work on shares for others.

OCCUPATION OF OPERATOR

Each farm operator was asked to classify his or her principal occupation as “Farming” or “Other” according to which occupation accounted for the majority (50 percent or more) of the operator’s worktime in 1987. For partnerships, the worktime of all of the members of the partnerships together was considered in determining principal occupation.

FARMS BY TYPE OF ORGANIZATION

The four classifications used for type of organization are:

1. Individual or family operation (sole proprietorship), excluding partnership and corporation.
2. Partnership operation, including family partnership.
3. Corporation including family corporations.
4. Other, including farms operated as cooperatives, estates and trusts, and abnormal farms such as institutional farms, Indian reservations, grazing associations, and experimental farms.

**LIVESTOCK AND POULTRY**

**Inventory**—Livestock and poultry inventories are reported as of December 31, 1987. These include all animals kept on the place regardless of ownership, including livestock or poultry being custom fed or fed on contract for others.

**Sales**—Livestock and poultry sold include all animals sold or removed from the place during the year regardless of ownership. Those sold for a landlord or given to others in trade or in payment for goods and services as well as those custom fed for others were to be included. Animals bought and sold within a 30-day period were to be excluded.

The value of livestock and poultry sold represents the gross sales value before deducting any marketing or production costs. For livestock or poultry fed under contract for others, the estimated market value is at the time they were taken from the place.

**CROPS HARVESTED**

In 1987, nearly all of the acres reported for individual crops represent acres harvested except for a small part of the acreage of corn, sorghum, peanuts, soybeans, and cowpeas counted as harvested that was hogged or grazed when the crop was mature or almost mature. Since more than one crop may have been harvested from the same land during the same crop year, the sum of acres of all crops harvested exceeds the acreage of land from which crops were harvested.

**Cash Grains**—All cash grain crops were collected. The major cash grains that are shown in this publication include corn for grain, sorghum for grain, wheat, oats, barley, rice, soybeans for beans, dry edible beans and peas as well as sunflowers. The maps are limited to the acres harvested for each of these crops.

**Other Field Crops**—All other field crops were collected in the census. Sugar crops, peanuts, cotton, Irish potatoes, tobacco, hay crops, and field seeds, are shown in our maps. These represent the major crops in this category.

**VEGETABLES**

The individual acres of each kind of vegetable harvested were reported as well as the acreage of land from which vegetables were harvested. The maps are limited to the acres of major vegetables harvested.

**FRUITS, NUTS, AND BERRIES**

In 1987, data for individual fruits, nuts, and berries were collected. Also, the total land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees was reported. The maps show the major crop acres harvested by type of fruits, nuts, or berries.

**NURSERY AND GREENHOUSE CROPS**

These data are a summation of the individual dollar value of items reported. Included are all nursery and greenhouse crops grown on this place for sale—wholesale or retail. Included are items sold on consignment. Only the major categories of crops are represented in these maps.
### Summary of Mapped Data: 1987 and 1982

#### FARMS

<table>
<thead>
<tr>
<th>M1</th>
<th>Number of farms</th>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1P</td>
<td>Percent change in number of farms</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

#### FARMS BY VALUE OF SALES

<table>
<thead>
<tr>
<th>M3</th>
<th>Farms with sales of less than $2,500</th>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3P</td>
<td>Percent of farms with sales of less than $2,500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M4</td>
<td>Farms with sales of $2,500 to $4,999</td>
<td>1987</td>
<td>1982</td>
<td>Change from 1982 to 1987</td>
<td>Percent change</td>
</tr>
<tr>
<td>M4P</td>
<td>Percent of farms with sales of $2,500 to $4,999</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M5</td>
<td>Farms with sales of $5,000 to $9,999</td>
<td>1987</td>
<td>1982</td>
<td>Change from 1982 to 1987</td>
<td>Percent change</td>
</tr>
<tr>
<td>M5P</td>
<td>Percent of farms with sales of $5,000 to $9,999</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>M7P</td>
<td>Percent of farms with sales of $10,000 or more</td>
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#### FARMS BY SIZE

<table>
<thead>
<tr>
<th>M10</th>
<th>Farms with 100 to 259 acres</th>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>M10P</td>
<td>Percent of farms with sales of $25,000 to $49,999</td>
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</tbody>
</table>

#### MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M20P</td>
<td>Average value per farm of agricultural products sold</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

#### MARKET-VALUE-OF-AGRICULTURAL-PRODUCTS-SOLD

<table>
<thead>
<tr>
<th>M20</th>
<th>Value of agricultural products sold per acre of land in farms</th>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20P</td>
<td>Average value of agricultural products sold per acre of land in farms</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

#### FARM-RELATED INCOME

<table>
<thead>
<tr>
<th>M58</th>
<th>Income from machine work, customwork, and other agricultural services</th>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>M58P</td>
<td>Average income per farm of machine work, customwork, and other agricultural services</td>
<td></td>
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</table>

#### FARM PRODUCTION EXPENSES

<table>
<thead>
<tr>
<th>M70</th>
<th>Expenses for electricity</th>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>M70P</td>
<td>Average cost per farm of electricity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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See footnotes at end of table.

1987 CENSUS OF AGRICULTURE

APPENDIX A-5
### Summary of Mapped Data: 1987 and 1982—Con.

#### Map number

<table>
<thead>
<tr>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>FARM PRODUCTION EXPENSES&lt;sup&gt;2&lt;/sup&gt;—Con.</td>
</tr>
<tr>
<td>LAND IN FARMS AND LAND USE</td>
</tr>
<tr>
<td>IRRIGATION</td>
</tr>
<tr>
<td>VALUE OF LAND AND BUILDINGS&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>MACHINERY AND EQUIPMENT ON PLACE&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>AGRICULTURAL CHEMICALS USED&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>TENURE AND CHARACTERISTICS OF FARM OPERATORS</td>
</tr>
</tbody>
</table>

#### Census year

<table>
<thead>
<tr>
<th>1987</th>
<th>1982</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
</table>

#### Notes

- See footnotes at end of table

---

**FARM PRODUCTION EXPENSES<sup>2</sup>—Con.**

- Expenses for hired farm labor, excluding contract labor
- Expenses for contract labor
- Expenses for contract labor by county
- Expenses for customwork, machine hire, and rental of machinery and equipment
- Expenses for customwork, machine hire, and rental of machinery and equipment by county
- Percent of farms with interest expenses paid by county
- Expenses for repairs and maintenance for upkeep of buildings, motor vehicles, and farm equipment

**LAND IN FARMS AND LAND USE**

- Land in farms
- Land in farms as percent of land area
- Total cropland
- Total cropland as percent of land area
- Harvested cropland
- Harvested cropland—change in acreage

**IRRIGATION**

- Irrigated land in farms
- Irrigated land—change in acreage

**VALUE OF LAND AND BUILDINGS<sup>2</sup>**

- Average value of land and buildings per farm
- Average value of land and buildings per acre of land in farms

**MACHINERY AND EQUIPMENT ON PLACE<sup>2</sup>**

- Estimated market value of all machinery and equipment on place
- Average market value of all machinery and equipment per farm
- Motortrucks, including pickups—change in number
- Wheel tractors
- Wheel tractors of less than 40 horsepower (PTO)
- Wheel tractors of 40 horsepower (PTO) or more
- Grain and bean combines
- Cottonpickers and strippers

**AGRICULTURAL CHEMICALS USED<sup>2</sup>**

- Acres on which commercial fertilizer was used
- Acres of cropland fertilized, excluding pastureland, as percent of harvested cropland
- Acres on which lime was used
- Acres of crops, including hay, treated for insect control
- Acres of crops treated for nematodes
- Acres of land treated for weed or grass control
- Acres of land treated with chemicals for defoliation or for growth control of crops or thinning of fruit

**TENURE AND CHARACTERISTICS OF FARM OPERATORS**

- Farms operated by full owners
- Percent of farms operated by full owners
- Farms operated by part owners
- Percent of farms operated by part owners
- Farms operated by tenants
- Percent of land in farms operated by tenants
- Rented or leased land in farms by county
- Percent of land in farms rented or leased
- Farms operated by Blacks and other races
- Average age of farm operators
- Farms operated by female operator
- Percent of farms operated by female operator

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**Note:** The above table provides a summary of data from the 1982 Census of Agriculture, focusing on various aspects of farming and agriculture, including land use, machinery ownership, and chemical usage. For more detailed information, please refer to the full report or relevant sections of the census documentation.
### Summary of Mapped Data: 1987 and 1982—Con.

#### Occupation of Operator

<table>
<thead>
<tr>
<th>Census year</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>138 179</td>
<td>1 234 787</td>
</tr>
<tr>
<td>1982</td>
<td>138 179</td>
<td>-96 608</td>
</tr>
</tbody>
</table>

#### Farms by Type of Organization

<table>
<thead>
<tr>
<th>Census year</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>808 324</td>
<td>1 945 639</td>
</tr>
<tr>
<td>1982</td>
<td>198 559</td>
<td>-136 315</td>
</tr>
</tbody>
</table>

#### Livestock and Poultry

<table>
<thead>
<tr>
<th>Census year</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>96 847 299</td>
<td>214 476 827</td>
</tr>
<tr>
<td>1982</td>
<td>-20 940</td>
<td>1 342 400</td>
</tr>
</tbody>
</table>

#### Crops Harvested

<table>
<thead>
<tr>
<th>Census year</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>56 701 505</td>
<td>69 857 993</td>
</tr>
<tr>
<td>1982</td>
<td>-115 566</td>
<td>-156 486</td>
</tr>
</tbody>
</table>

See footnotes at end of table.

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1987 CENSUS OF AGRICULTURE

APPENDIX A-7
### Summary of Mapped Data: 1987 and 1982—Con.

<table>
<thead>
<tr>
<th>Title</th>
<th>Census year</th>
<th>Change from 1982 to 1987</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROPS HARVESTED—Con.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M254 Land from which hay was harvested</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M256 Land from which hay was harvested—change in acreage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M257P Land from which hay was harvested as percent of harvested cropland</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M258 Alfalfa hay harvested</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M259 Alfalfa hay harvested—change in acreage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M260 Tame hay harvested, other than alfalfa, small grain, and wild hay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M261 Small grain hay harvested</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M262 Wild hay harvested</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M263 Grass silage, haylage, and green chop hay harvested</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M264 Alfalfa seed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M265 Red clover seed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M266 Fescue seed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M267 Ryegrass seed</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>VEGETABLES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M268 Vegetables harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M269P Vegetables harvested for sale by county</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M270 Asparagus harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M271 Broccoli harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M272 Cantaloupes harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M273 Cucumbers and pickles harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M274 Green peas, excluding green cowpeas, harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M275 Head cabbage harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M276 Lettuce and romaine harvested for sale</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>M277 Dry onions harvested for sale</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>M278 Snap beans harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M279 Sweet corn harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M280 Tomatoes harvested for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M281 Watermelons harvested for sale</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FRUITS, NUTS, AND BERRIES</td>
<td></td>
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</tr>
<tr>
<td>M282 Strawberries harvested for sale</td>
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<td></td>
</tr>
<tr>
<td>M283 Tame blueberries harvested for sale</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>M284 Land in orchards by county</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>M285P Land in orchards</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M287 Acres of almonds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M288 Acres of avocados</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M289 Acres of pears</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M290 Acres of cherries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M291 Acres of plums and prunes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M292 Acres of grapes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M293 Acres of oranges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M294 Acres of grapes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M295 Acres of grapes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M296 Acres of English walnuts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M297 Acres of almonds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M298 Acres of pecans</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M299 Farms with nursery and greenhouse crops, mushrooms, and sod for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M300 Value of nursery and greenhouse crops, mushrooms, and sod with value of sales of $2,000 or more</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M301P Value of nursery and greenhouse crops, mushrooms, and sod grown for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M302P Value of bedding plants grown for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M303P Value of cut flowers and cut florist greens grown for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M304P Value of foliage plants grown for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M305P Value of potted flowering plants grown for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M306P Value of nursery crops grown for sale</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(NA) Not available.

1Excludes abnormal farms; see text.
2Data are based on sample of farms; see text.
1987 CENSUS OF AGRICULTURE

Results of the 1987 Census of Agriculture are being published in a series of reports which provide data for each county (or equivalent), each State, the United States, Puerto Rico, Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands. The publications include statistics on the number of farms; land in farms; farm and operator characteristics; livestock, poultry, and their products; crop production and value; operating expenditures; irrigation; and other characteristics of farms.

Publication order forms may be obtained from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233, any U.S. Department of Commerce district office, or by calling (301) 763-1113.

ADVANCE REPORTS (AC87-A-01-000(A) TO 56-000(A))

Advance Reports are published separately for each county (or equivalent) in the United States with 10 farms or more, for each State, and the United States. The reports contain data for all agricultural operations with $1,000 or more in actual or potential sales of agricultural products in the census year. The Advance Reports contain final data for major data items together with comparable data from the 1982 census. Included in the reports are data on number of farms, land in farms, size of farms, land use practices, farm operator characteristics, sales expenditures, machinery and equipment, livestock, poultry, dairy products sold, and major crops harvested (which vary by State). No advance reports are available for Puerto Rico, Guam, or the U.S. Virgin Islands.

VOLUME 1. GEOGRAPHIC AREA SERIES

(AC87-A-1 TO 56)

State and County Data (A-1 to 50) are published showing detailed data in national and State tables for the United States, and in county and State tables separately for each State. These reports include data on number and size of farms; crop production; livestock, poultry, and their products; tenure, age, and occupation of operators; types of organization; value of products sold; and standard industrial classification of farms.

Summary and State Data (A-51)

• Chapter 1. National level data
• Chapter 2. State level data

Outlying Areas (A-52 to 56) provide detailed data for the regions and municipios of Puerto Rico; the election districts of Guam; the U.S. Virgin Islands; American Samoa; and Northern Mariana Islands.

VOLUME 2. SUBJECT SERIES (AC87-S-1 TO 6)

Agricultural Atlas of the United States (AC87-S-1), formerly the Graphic Summary, presents a profile of the Nation’s agriculture in a series of dot and multicolor pattern maps. The maps provide displays on size and type of farm, land use, farm tenure, market value of products sold, crops harvested, livestock inventories, and other characteristics of farms.

Coverage Evaluation (AC87-S-2) provides national and regional level estimates on the completeness of the census, in terms of both the number of farms missed and selected characteristics of those farms.

Ranking of States and Counties (AC87-S-3) presents the ranking of the top 20 States and the top 100 counties of importance of selected items from the 1987 census. Comparative data from the 1982 census are included in most tables. Tables also show cumulative totals for States and counties.

History (AC87-S-4) is a concise description of the major census operations together with facsimiles of selected data tables. It explains the history of the agriculture census, farm definition, data collection and processing, and dissemination of census data.

Government Payments and Market Value of Agricultural Products Sold (AC87-S-5) shows detailed data for farms cross-tabulated by combined market value of agricultural products sold and Government payments received, including detailed national data and selected data for each State.

ZIP Code Tabulations of Selected Items From the 1987 Census of Agriculture (AC87-S-6) provides tabulations by five-digit ZIP Code for selected items from the 1987 census. Data items include number of farms, land in farms, farms by size, market value of agricultural products sold by size of sale, livestock inventory, cropland harvested, and selected crops.

VOLUME 3. RELATED SURVEYS (AC87-RS-1 AND 2)

The Farm and Ranch Irrigation Survey (AC87-RS-1) provides statistical data collected from a sample of farm operations from the 1987 Census of Agriculture. The publication offers information on acres irrigated, land use, yields of specified crops, methods of water distribution, quantity of water used by its source, and other irrigation practices.

Agricultural Economics and Land Ownership Survey (AC87-RS-2) provides data on indebtedness, expenditures, income and assets for both farm operators and landlords. This report also includes measures of credit used for purchases and expenditures, debt by type of lender, assets, off-farm income, and other land ownership data.

VOLUME 4. CENSUS OF HORTICULTURAL SPECIALTIES (AC87-HOR-1)

This report includes detailed information on the horticultural establishments with production and sales of $2,000 or more. It provides data on number of establishments, value of sales of horticultural products, type of horticultural products, and kinds of horticultural businesses, for the United States, States, and counties.

ELECTRONIC MEDIA

Flexible Diskette—The Advance Reports of the 1987 Census of Agriculture are available on flexible diskettes. The files can be used with any compatible microcomputer employing the PC-DOS 2.0 or higher operating system. Diskettes can be obtained by calling (301) 763-4100.

Computer Tapes—Public-use computer tapes contain the same summary statistics that are found in the published reports. Two files are available for each State: data for counties and the aggregated State-level data. Order forms may be obtained from the Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233 (or call (301) 763-4100).

Compact Disc-Read Only Memory (CD-ROM)—Data for the conterminous United States and Puerto Rico are available on CD-ROM. The CD-ROM can be obtained from the Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233 (or call (301) 763-4100).

Online Access—National and State level data from the 1987 Census of Agriculture are available on CENDATA through two information vendors—CompuServe and DIALOG. In addition, the advance reports, highlights of the Subject Series, and Related Surveys reports, are available online from AGGRIDATA. For information on these services call (301) 763-4100.
Boundaries for the 1987 Census of Agriculture