

# 1987

## Census of Agriculture

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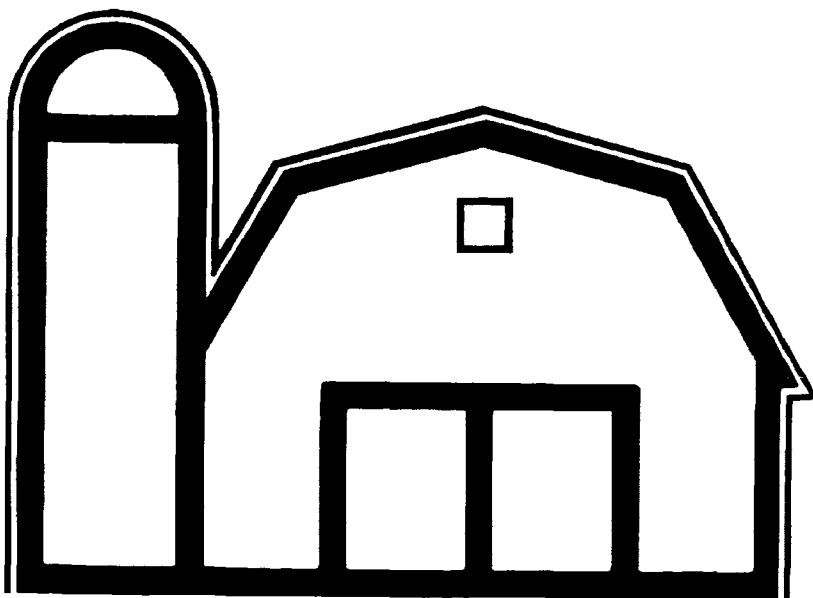
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Volume 2  
SUBJECT SERIES

Part 1

## Agricultural Atlas of the United States

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U.S. Department of Commerce  
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# ACKNOWLEDGMENTS

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This report was prepared in the Agriculture Division. Many other divisions contributed to this preparation: Economic Programming prepared the computer programs; Geography provided the computer mapping programs and the maps; and Administrative and Publications Services performed planning, design, composition, editorial review, and printing planning and procurement for publications and report forms.

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 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.

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# 1987

## Census of Agriculture

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## Agricultural Atlas of the United States

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Issued June 1990



**U.S. Department of Commerce**  
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**Library of Congress Cataloging-in-Publication Data**

Census of agriculture (1987). Volume 2. Subject series.

1987 census of agriculture. Volume 2. Subject series.

p. cm.

"AC87-S-1 < -6 > "

Contents: pt. 1. Agricultural atlas of the United States—pt.  
2. Coverage evaluation—pt. 3. Ranking states and counties—pt.  
4. History—pt. 5. Government payments and market value of  
agricultural products sold—pt. 6. Code tabulations of selected  
items.

Supt. of Docs. no.: C 3.31/12:987/v.2pt.1

1. Agriculture—Economic aspects—United States—Statistics.
  2. Agriculture—Economic aspects—United States—States—Statistics.
  3. Agriculture—Economic aspects—United States—Territories and  
possessions—Statistics. I. United States. Bureau of the Census.
- II. Title.

HD1769.C46 1990

338.1'0973'021—dc20

89-600341

CIP



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## 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.

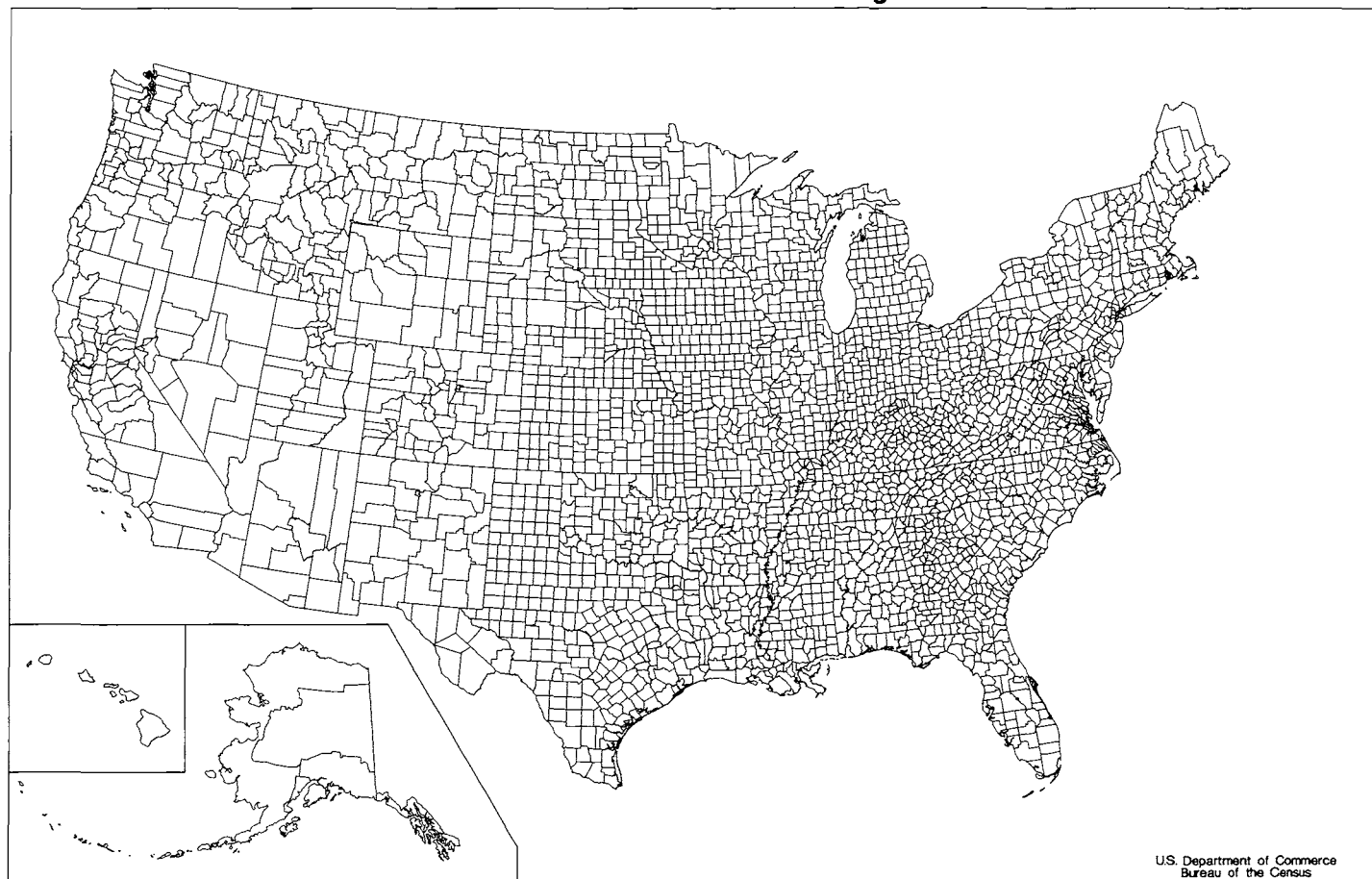
### **Dot Distribution Maps**

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.

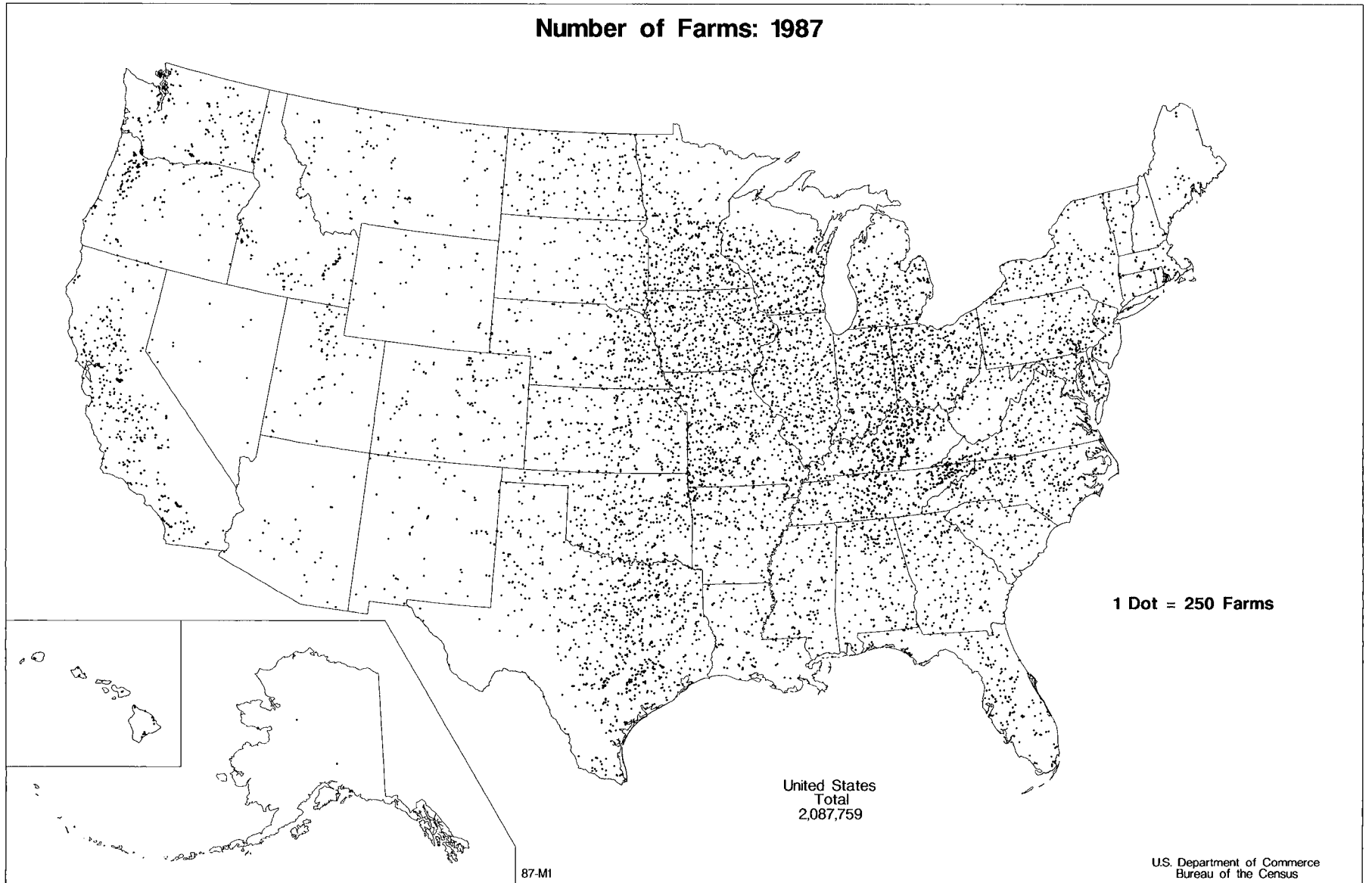
Several different procedures and techniques were used to place the dots on the dot distribution maps: a land-use filter, weighting factors and scanlines. The land-use filter was prepared from the land-use map that was published by the U.S. Geographical Survey in *The National Atlas of the United States 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).



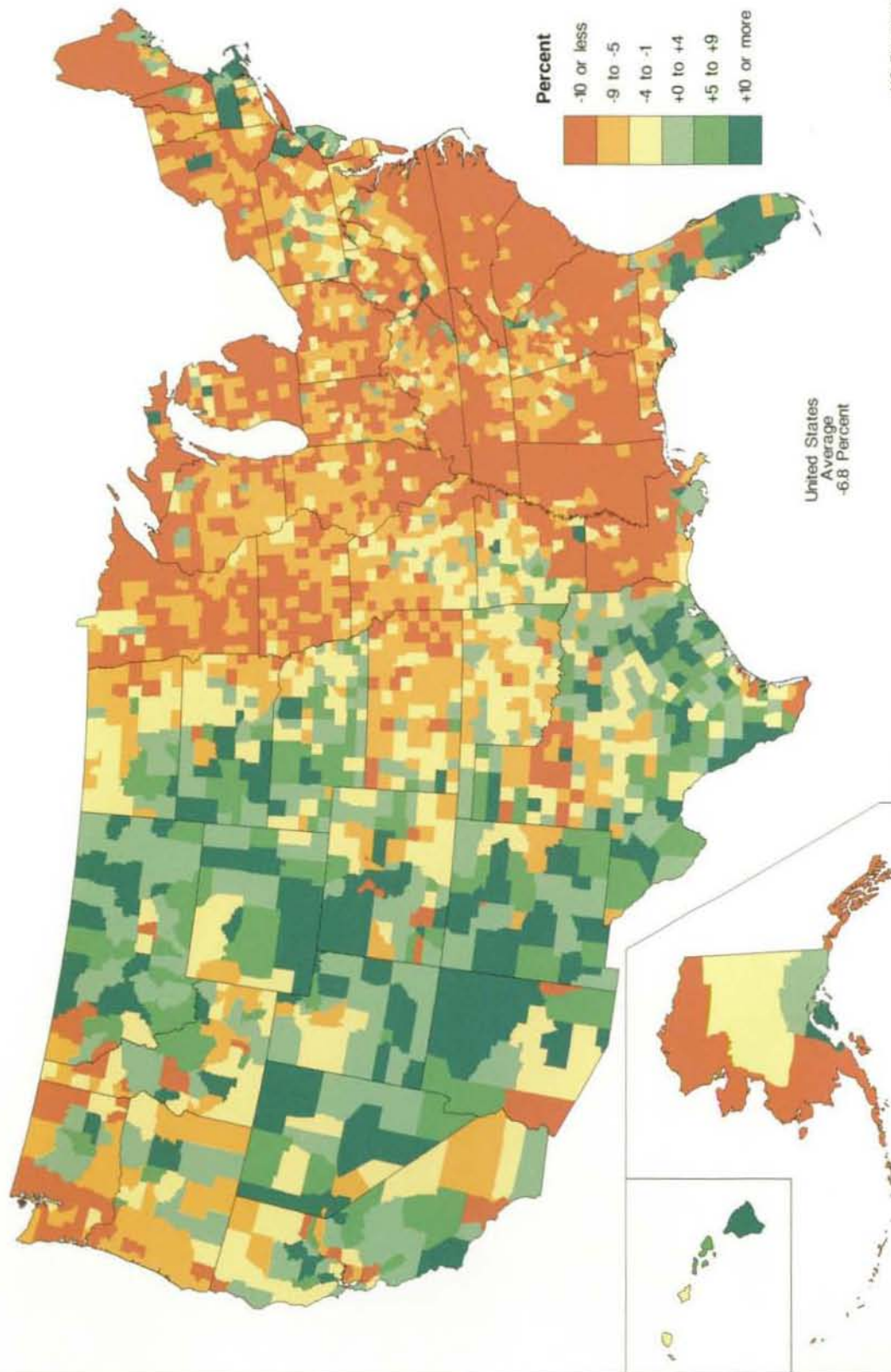
### Boundaries for the 1987 Census of Agriculture



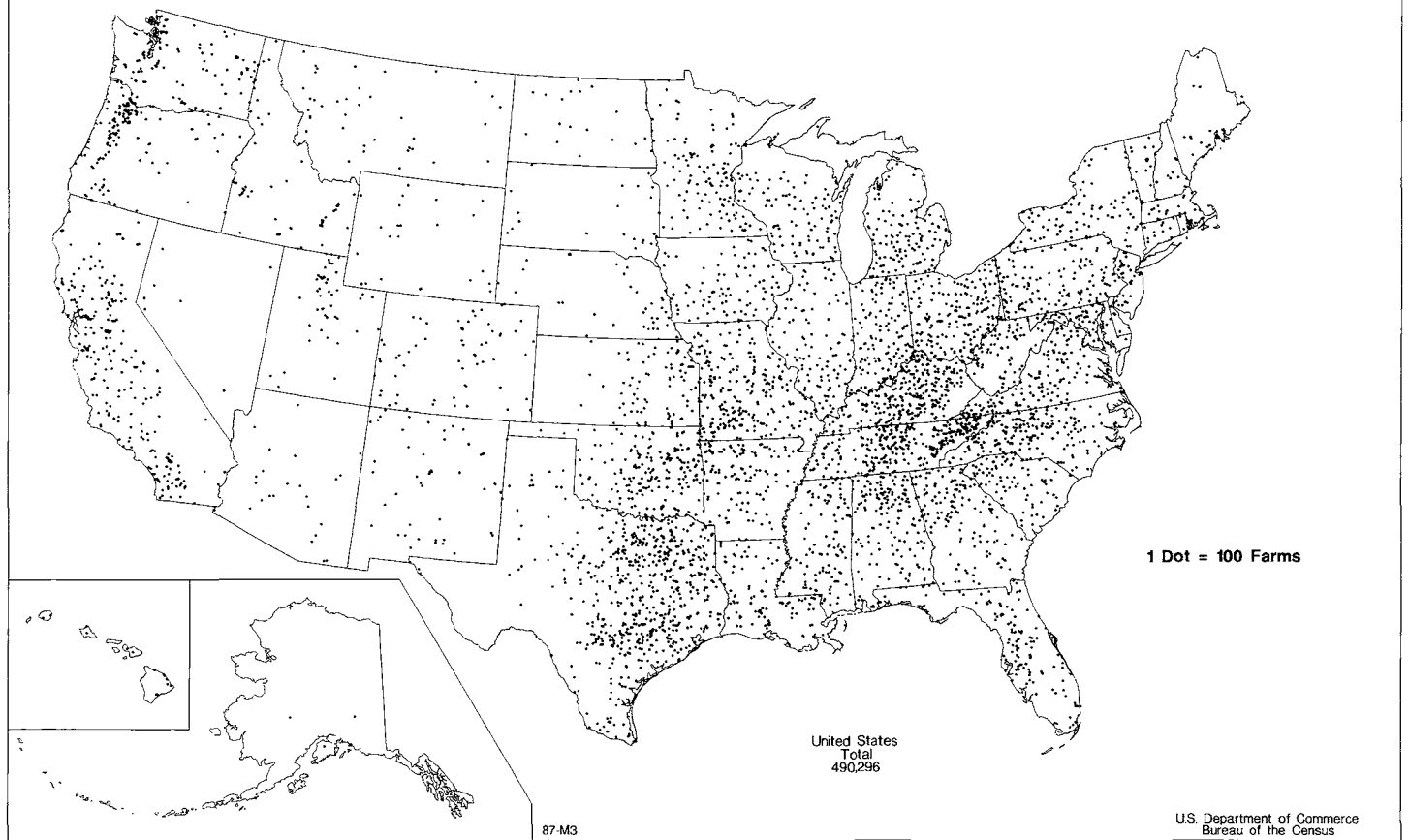
[Boundary map overlays are located in the back pocket of this publication]



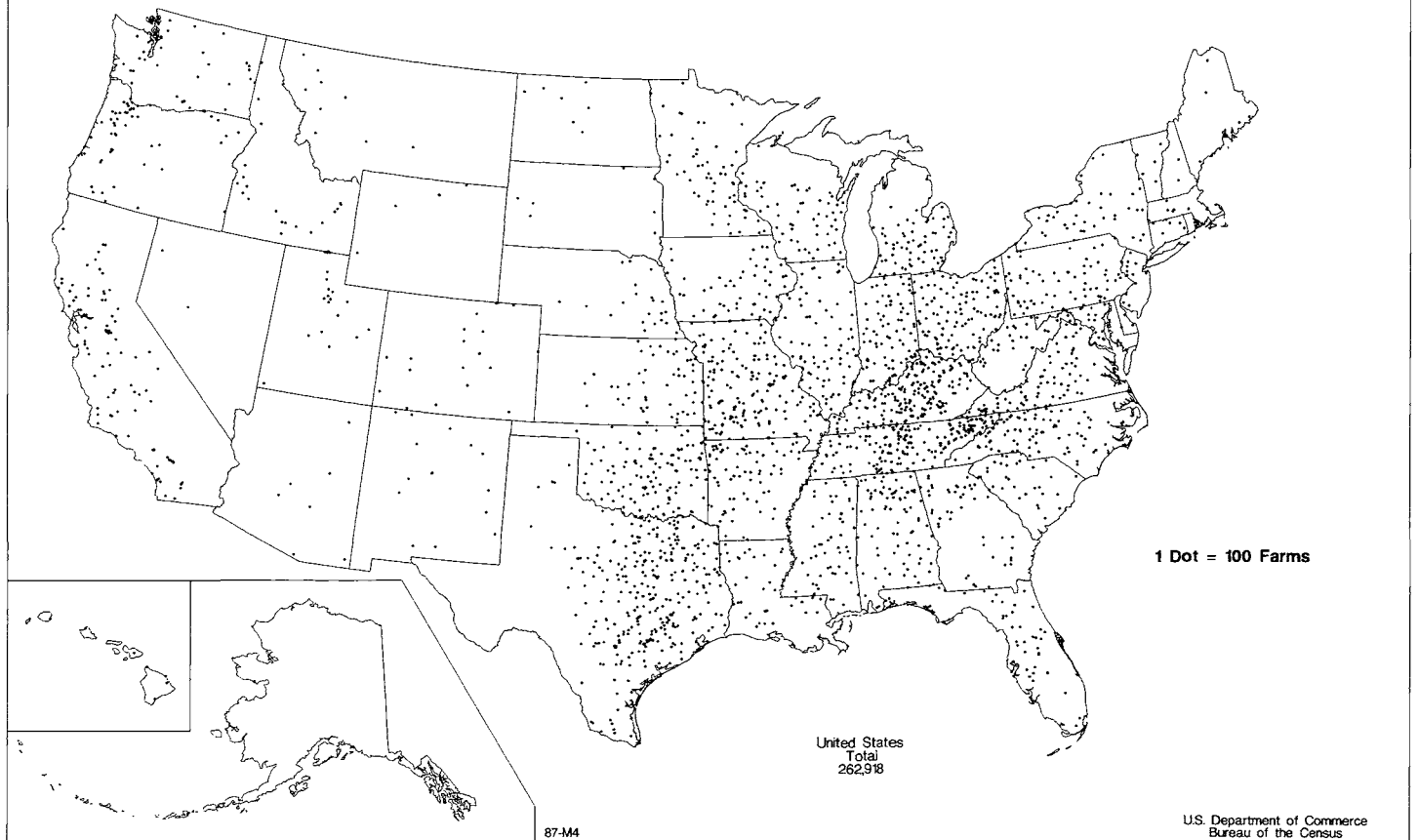
Percent Change in Number of Farms: 1982 to 1987



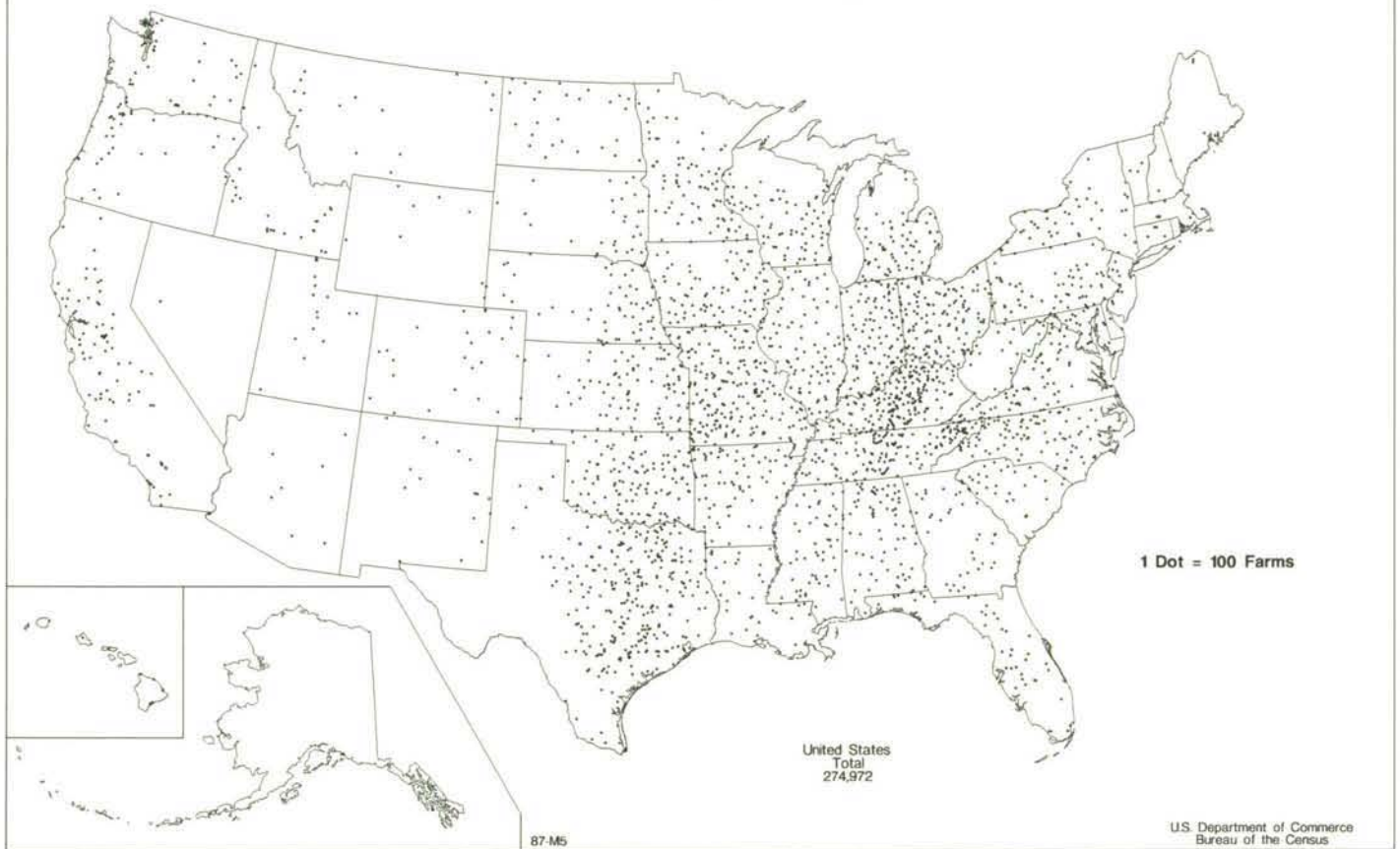
### Farms With Sales of Less Than \$2,500: 1987



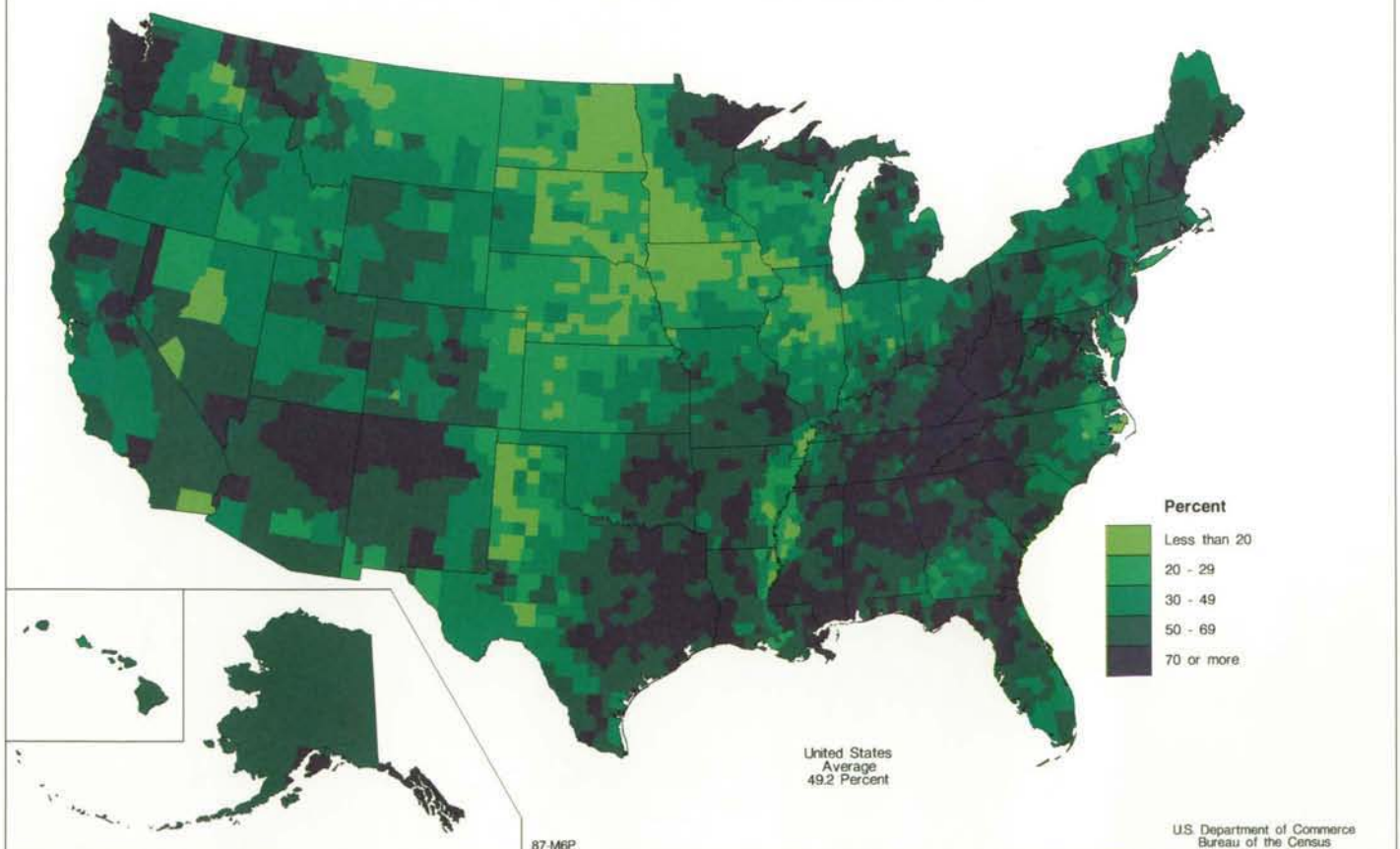
### Farms With Sales of \$2,500 to \$4,999: 1987



Farms With Sales of \$5,000 to \$9,999: 1987

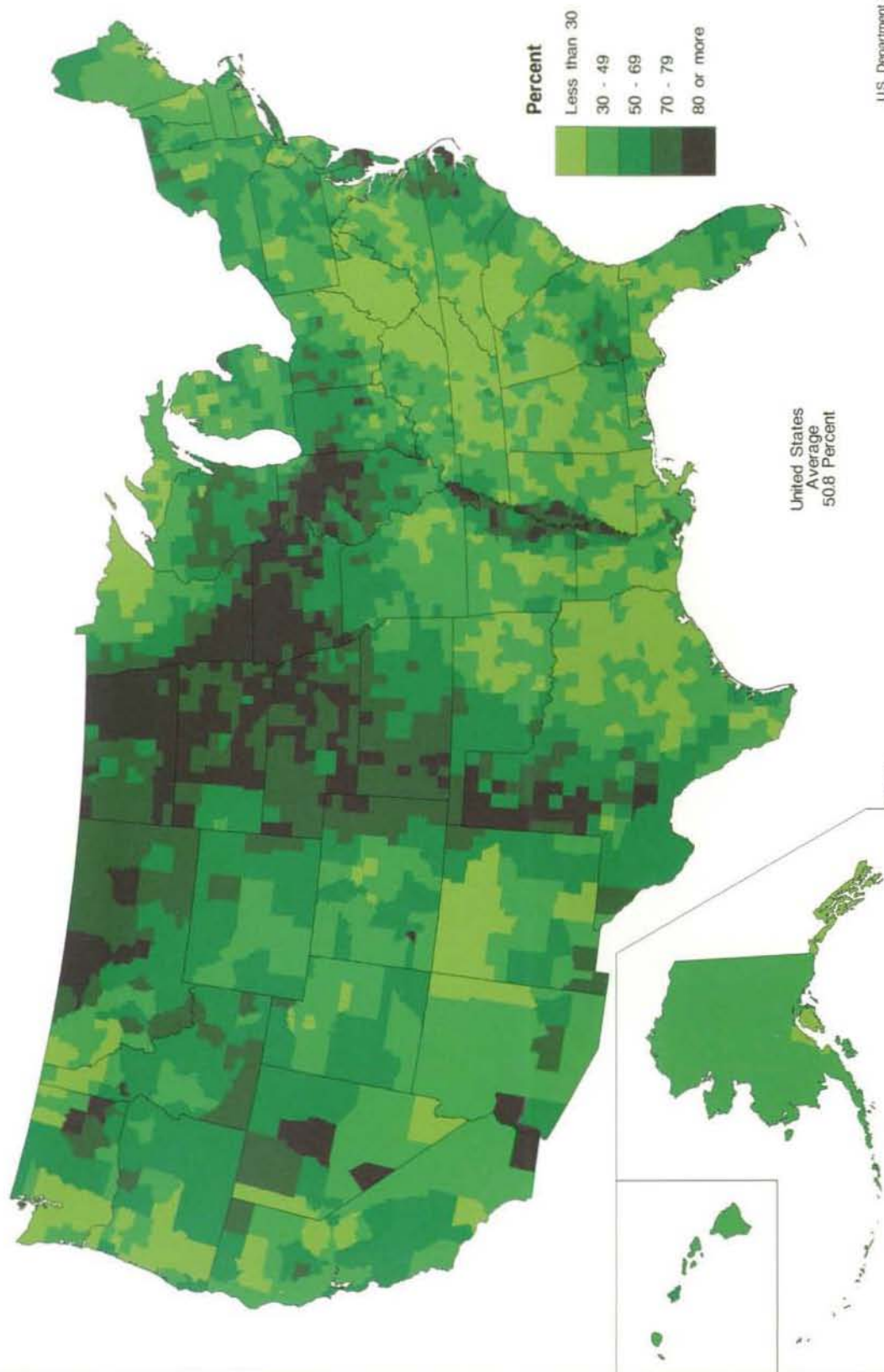


Percent of Farms With Sales of Less Than \$10,000: 1987

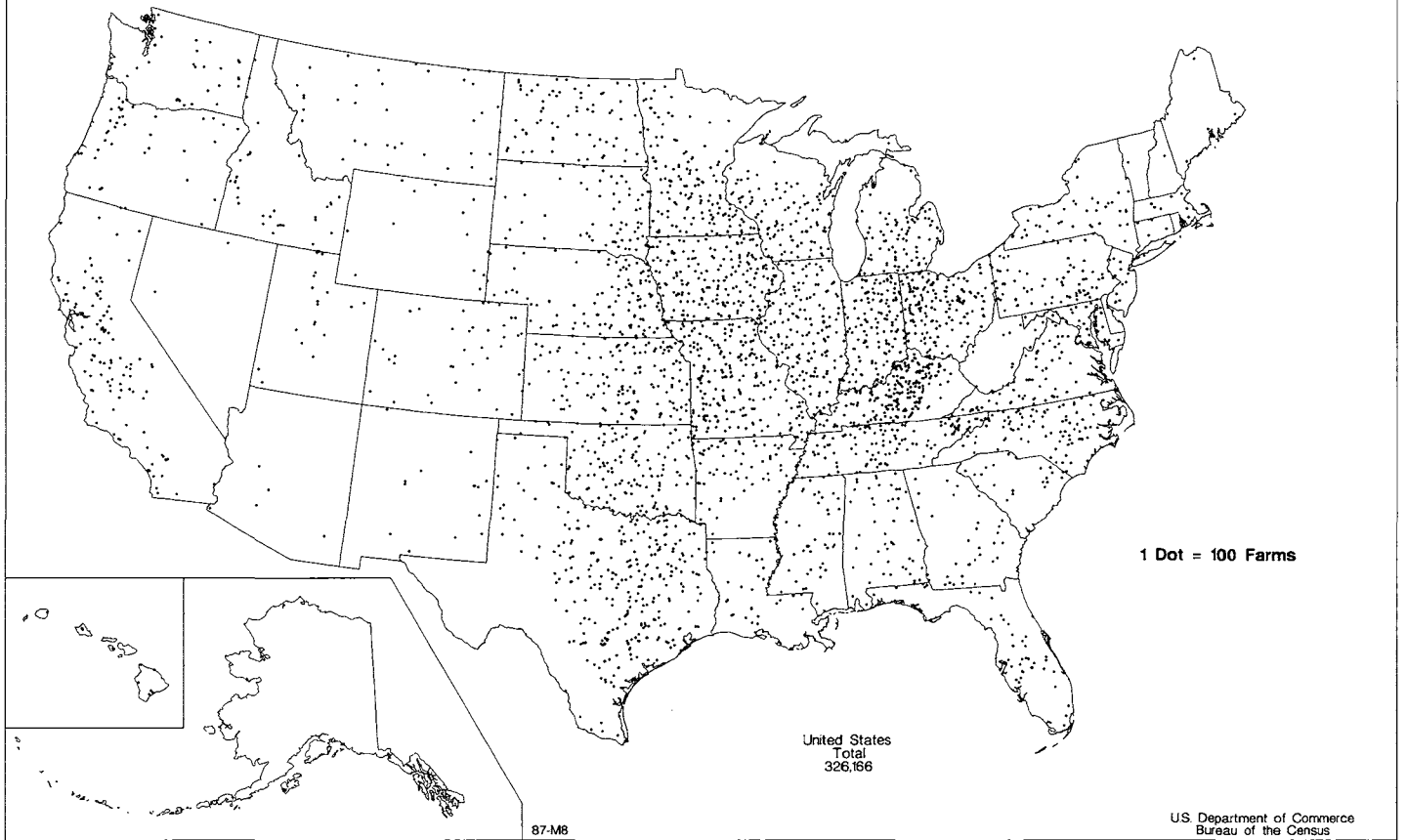




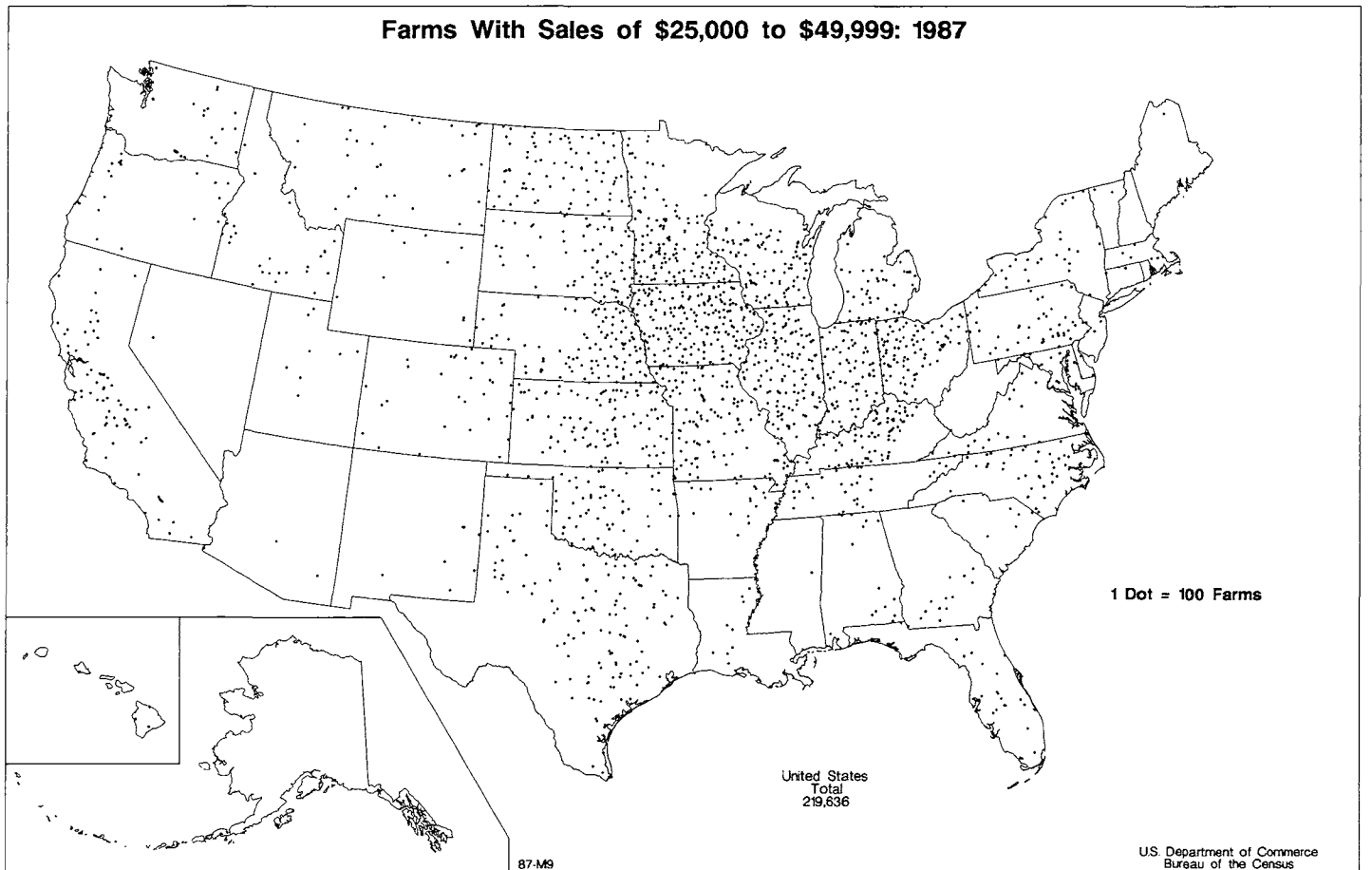
# Percent of Farms With Sales of \$10,000 or More: 1987



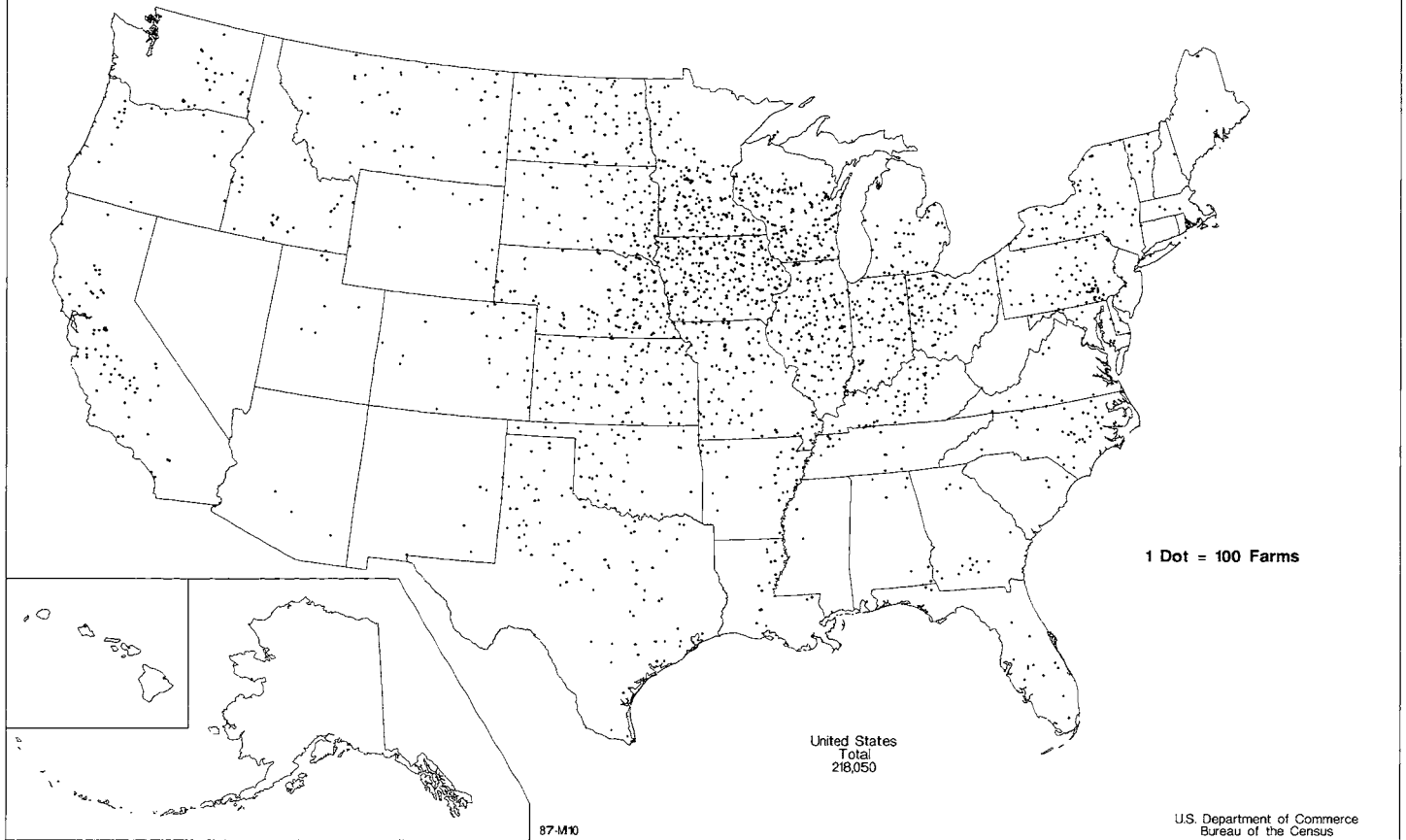
**Farms With Sales of \$10,000 to \$24,999: 1987**



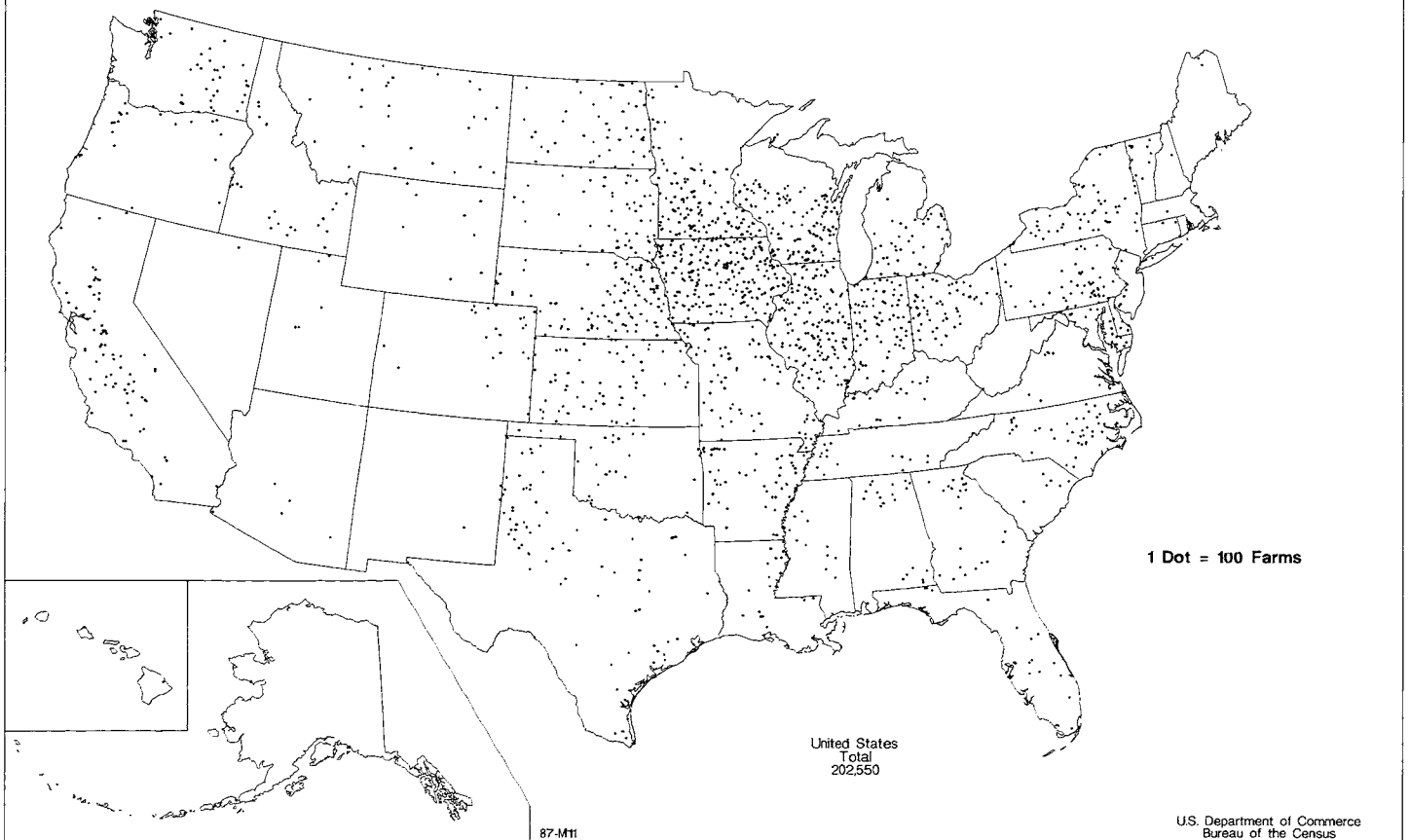
**Farms With Sales of \$25,000 to \$49,999: 1987**



**Farms With Sales of \$50,000 to \$99,999: 1987**

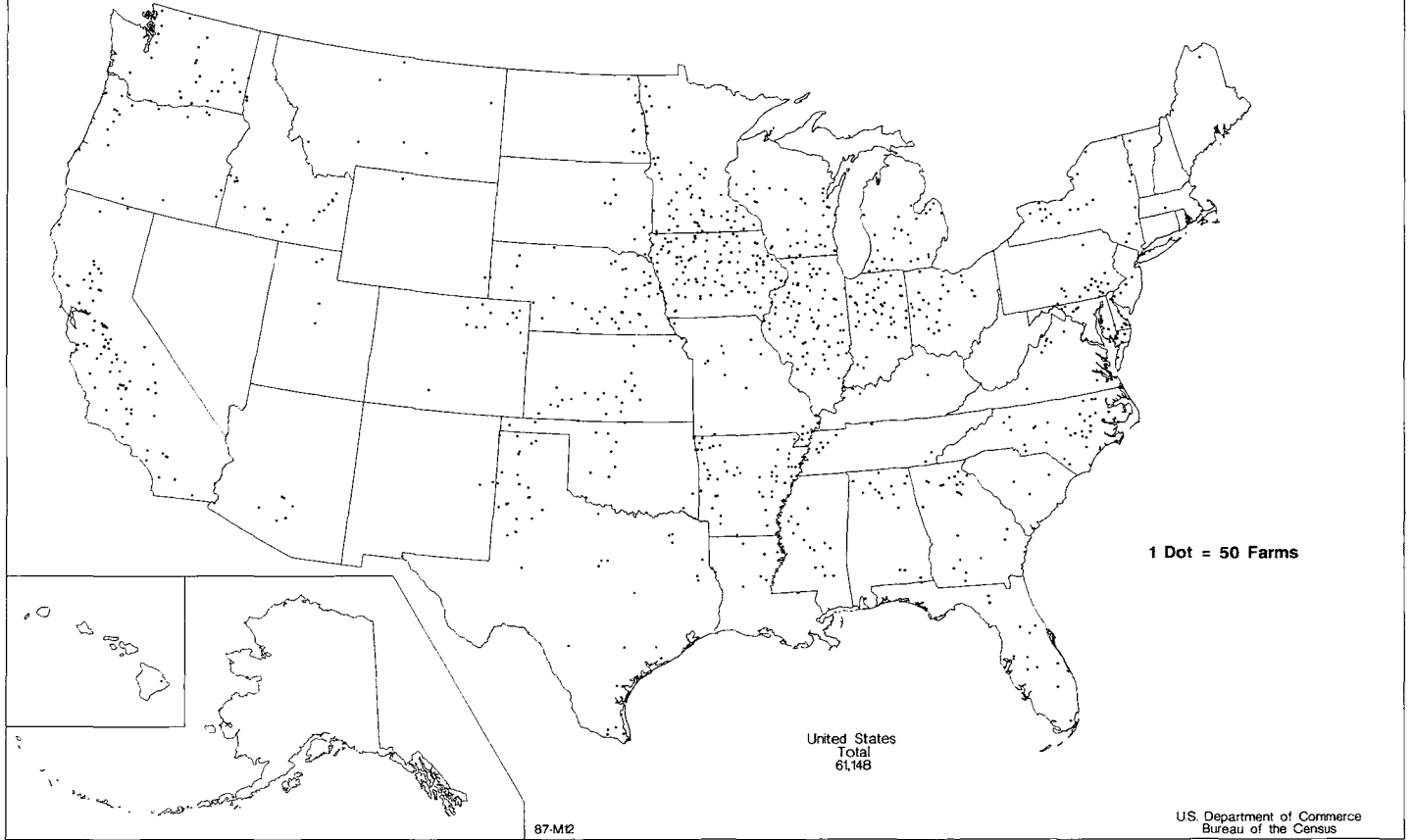


**Farms With Sales of \$100,000 to \$249,999: 1987**

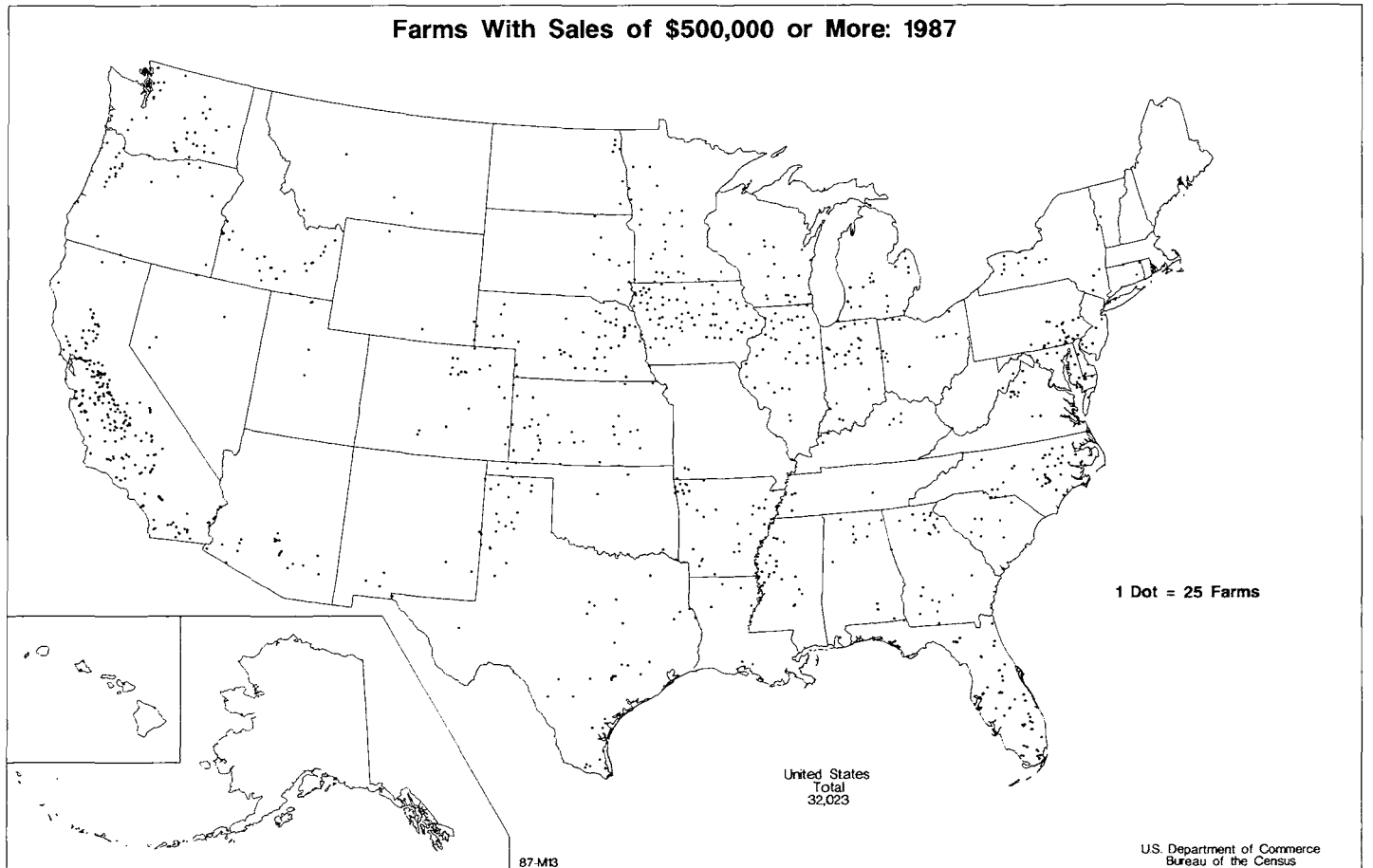




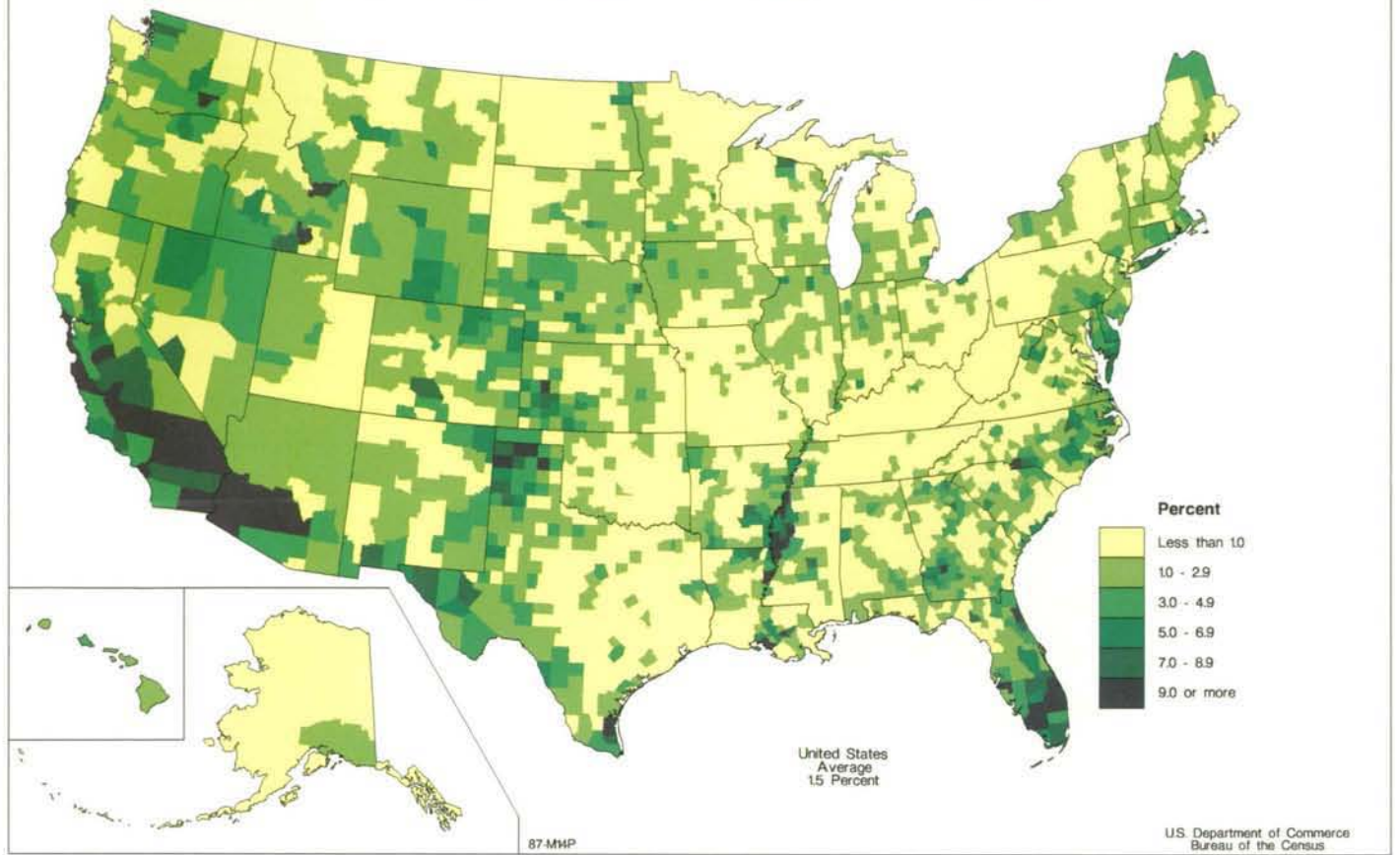
### Farms With Sales of \$250,000 to \$499,999: 1987



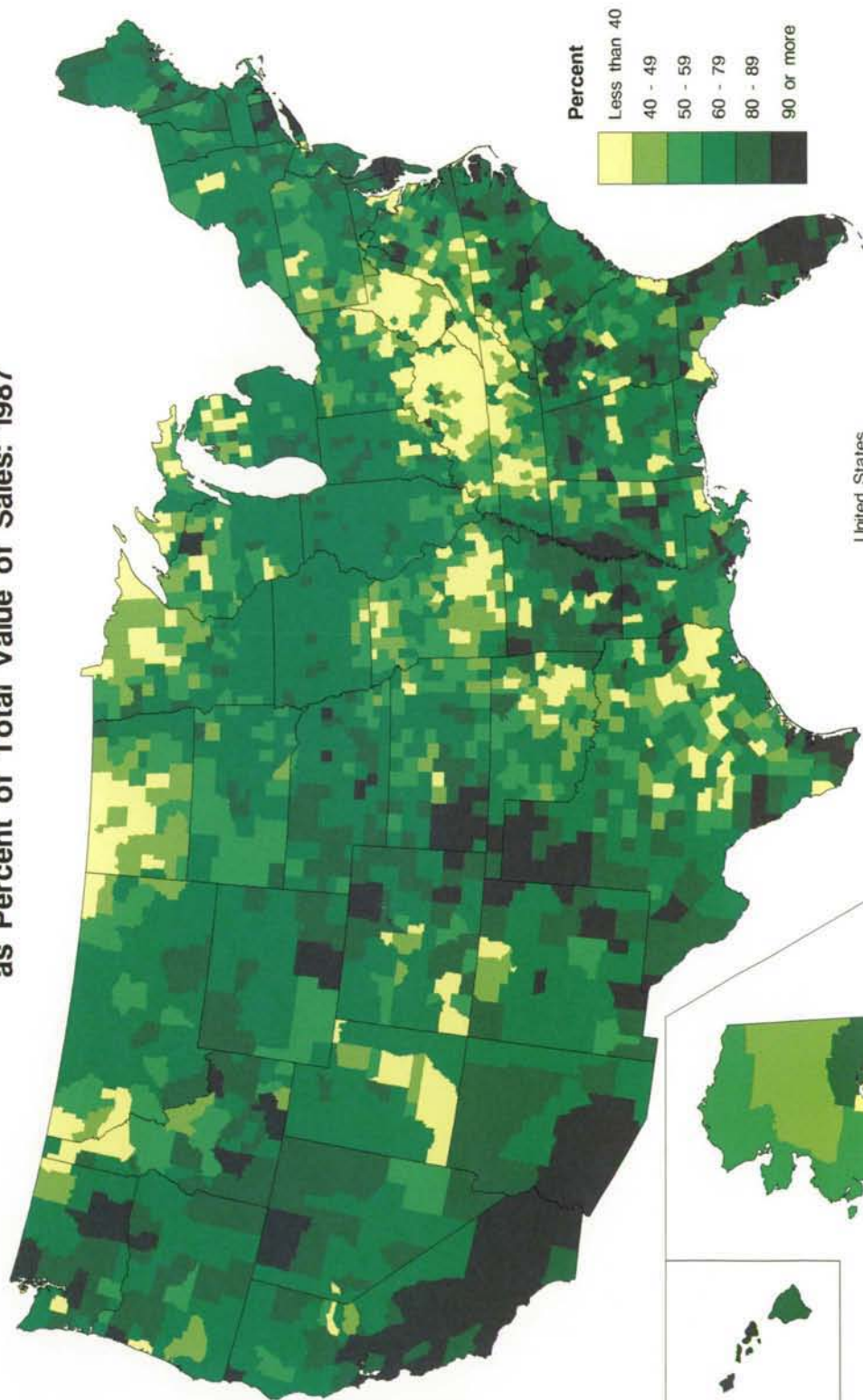
### Farms With Sales of \$500,000 or More: 1987



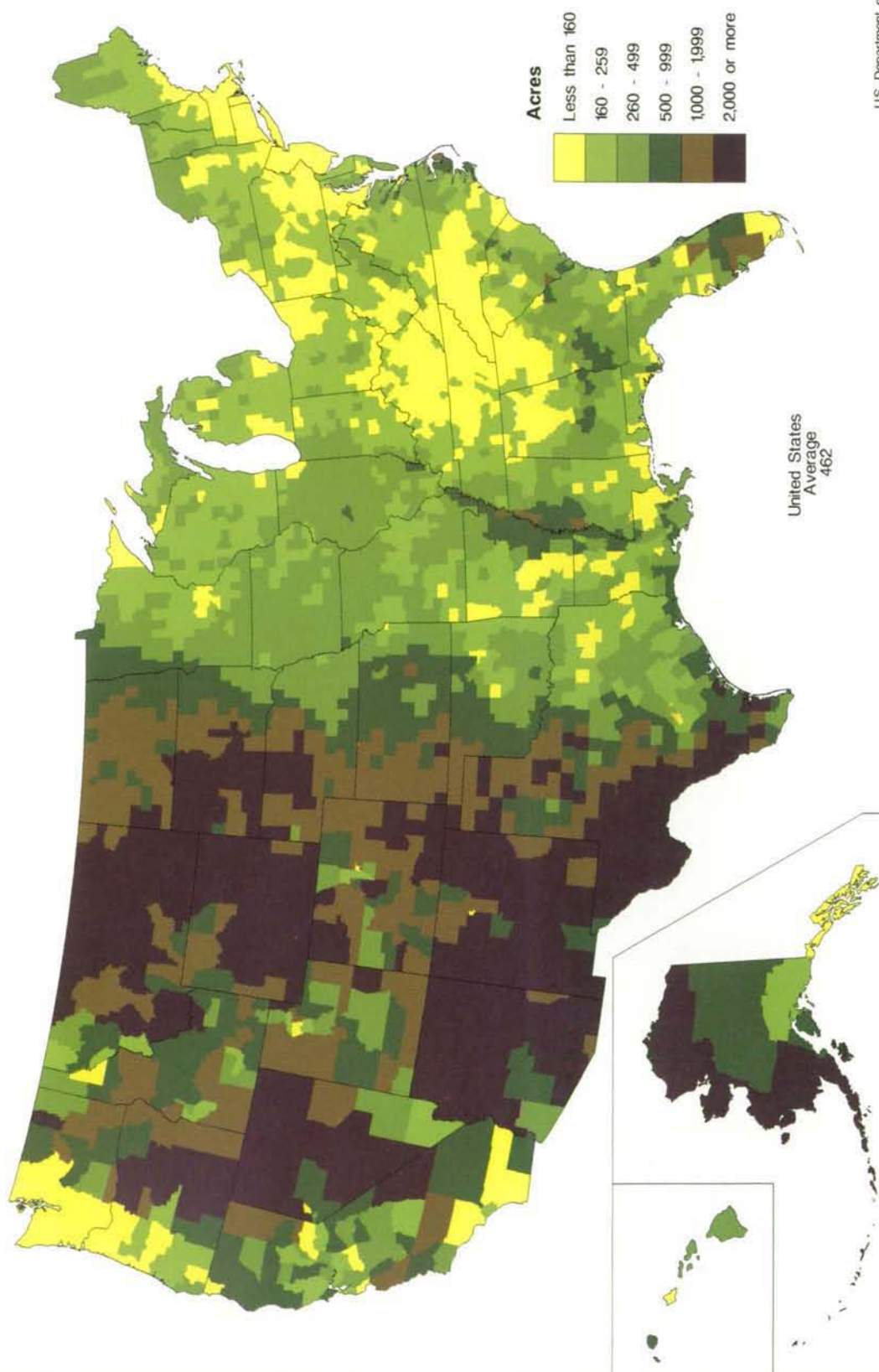
Percent of Farms With Sales of \$500,000 or More: 1987



**Value of Sales From Farms With Sales of \$100,000 or More  
as Percent of Total Value of Sales: 1987**



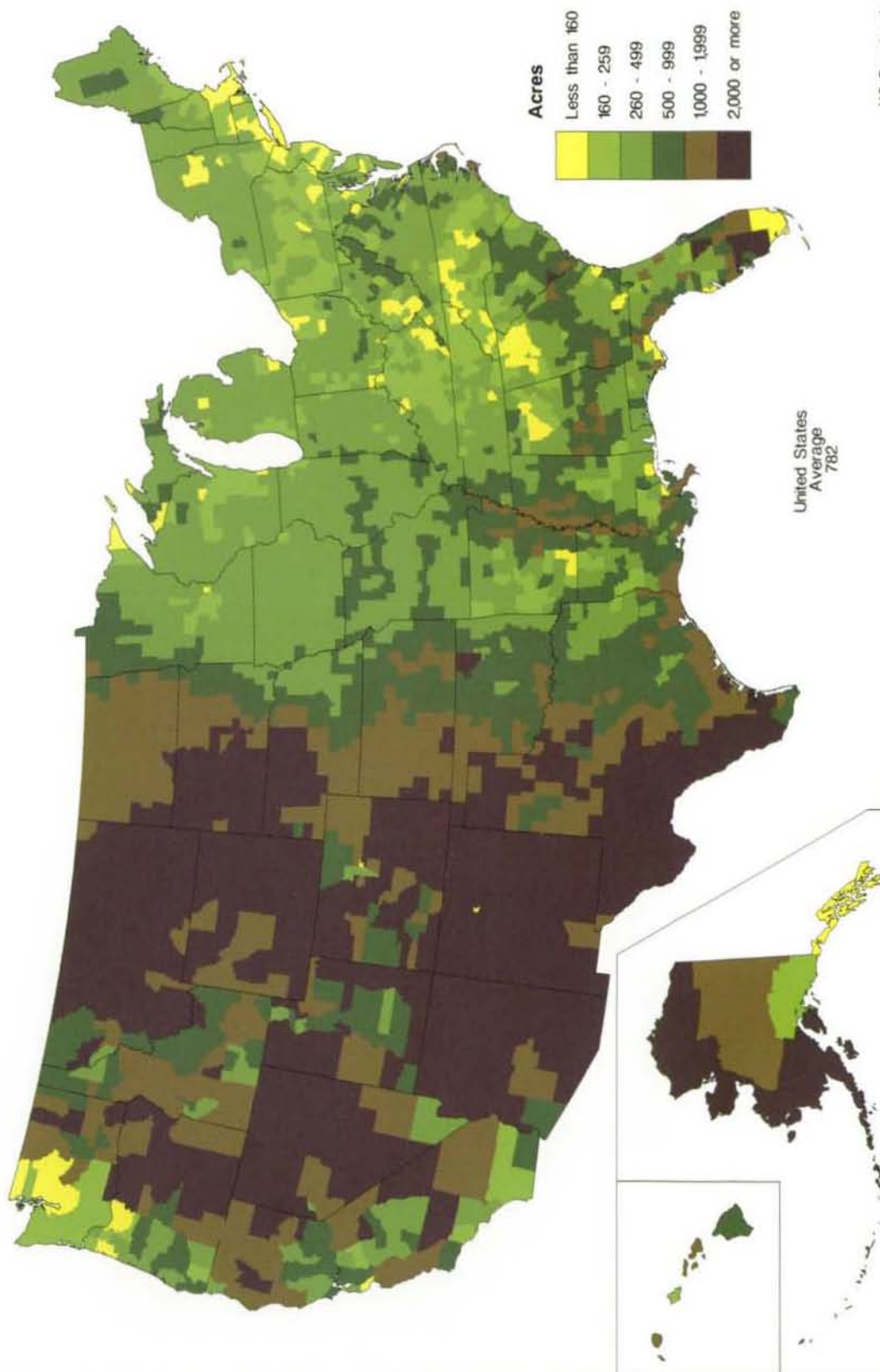
# Average Size of Farm: 1987



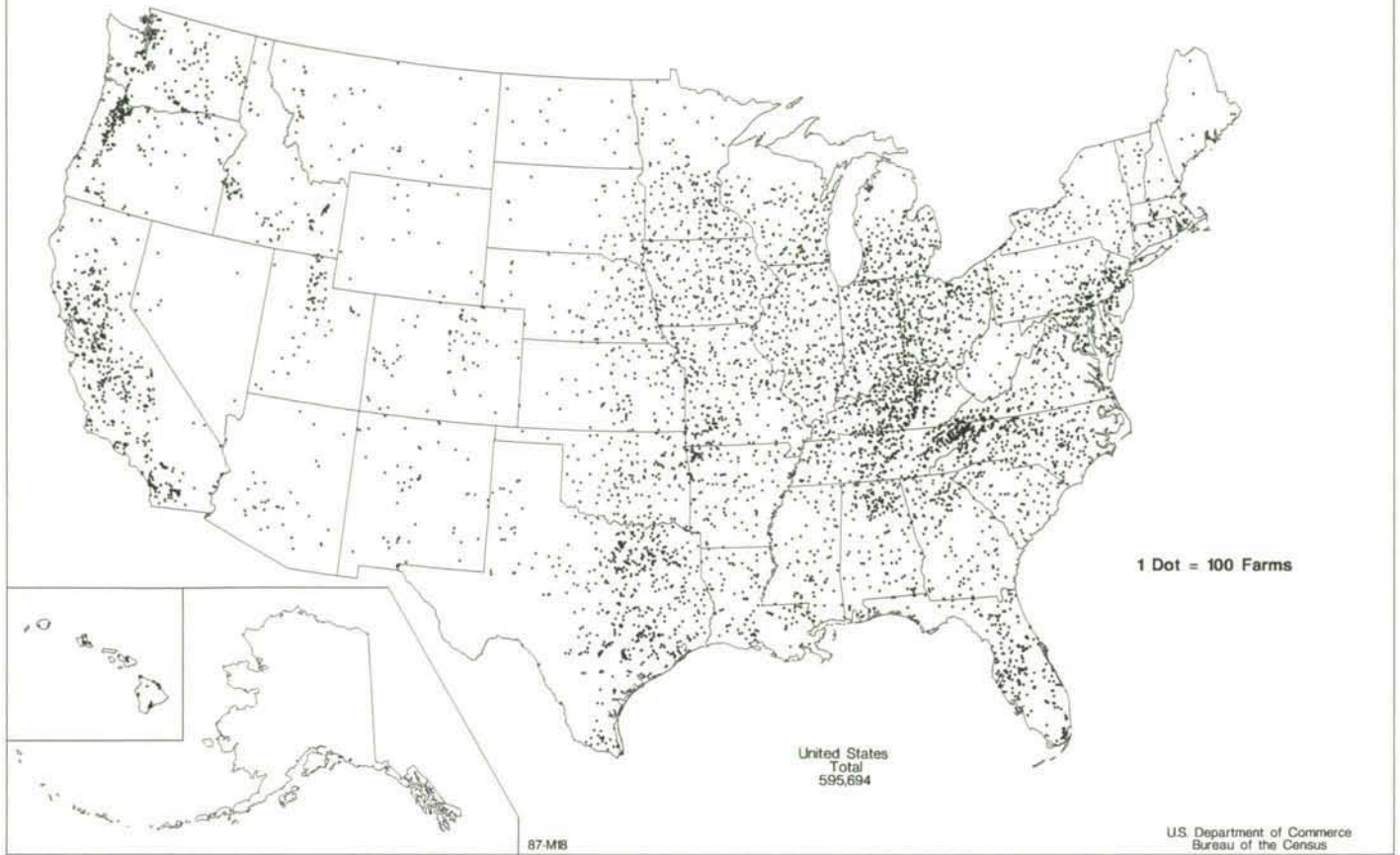
U.S. Department of Commerce  
Bureau of the Census



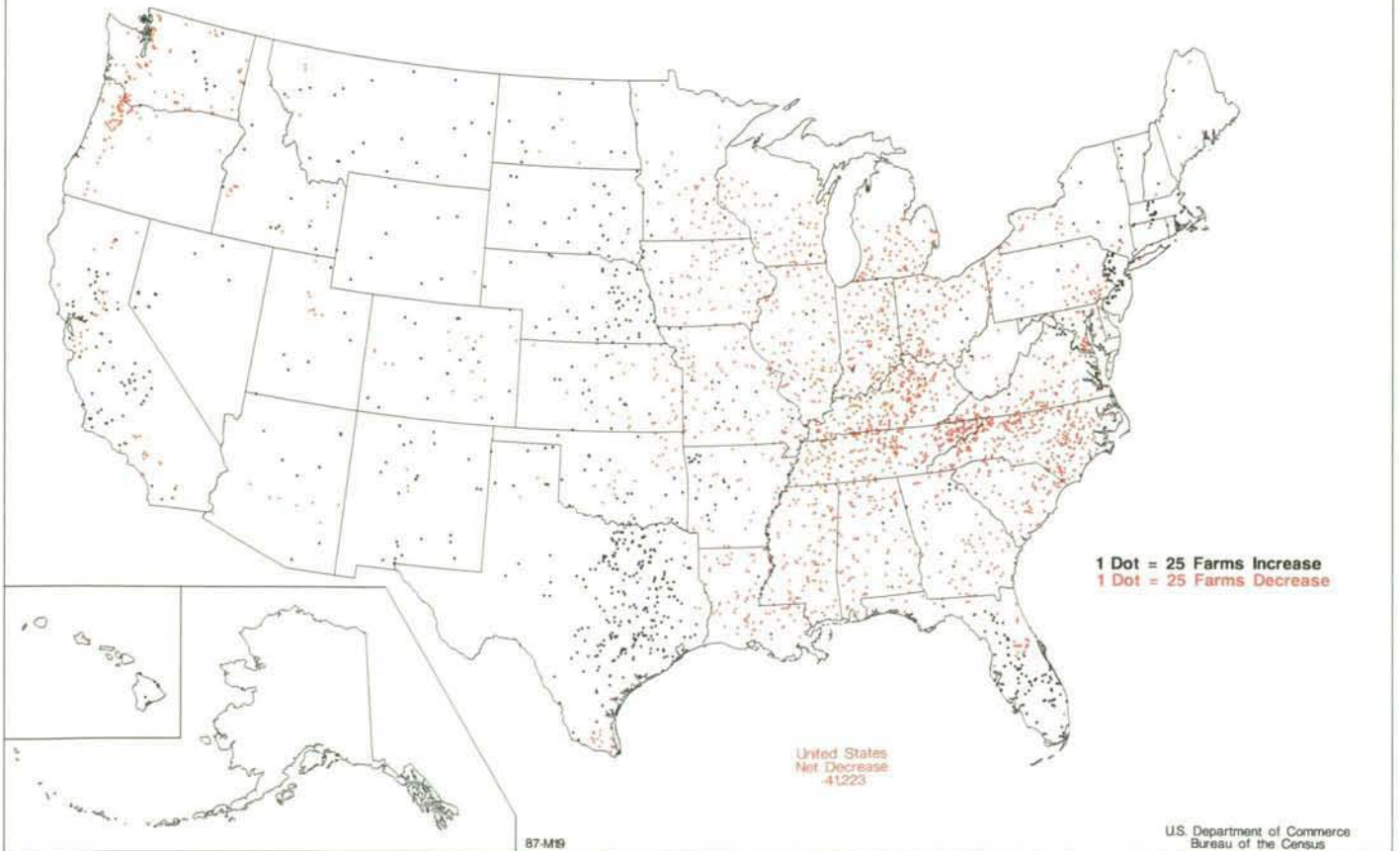
# Average Size of Farm With Sales of \$10,000 or More: 1987



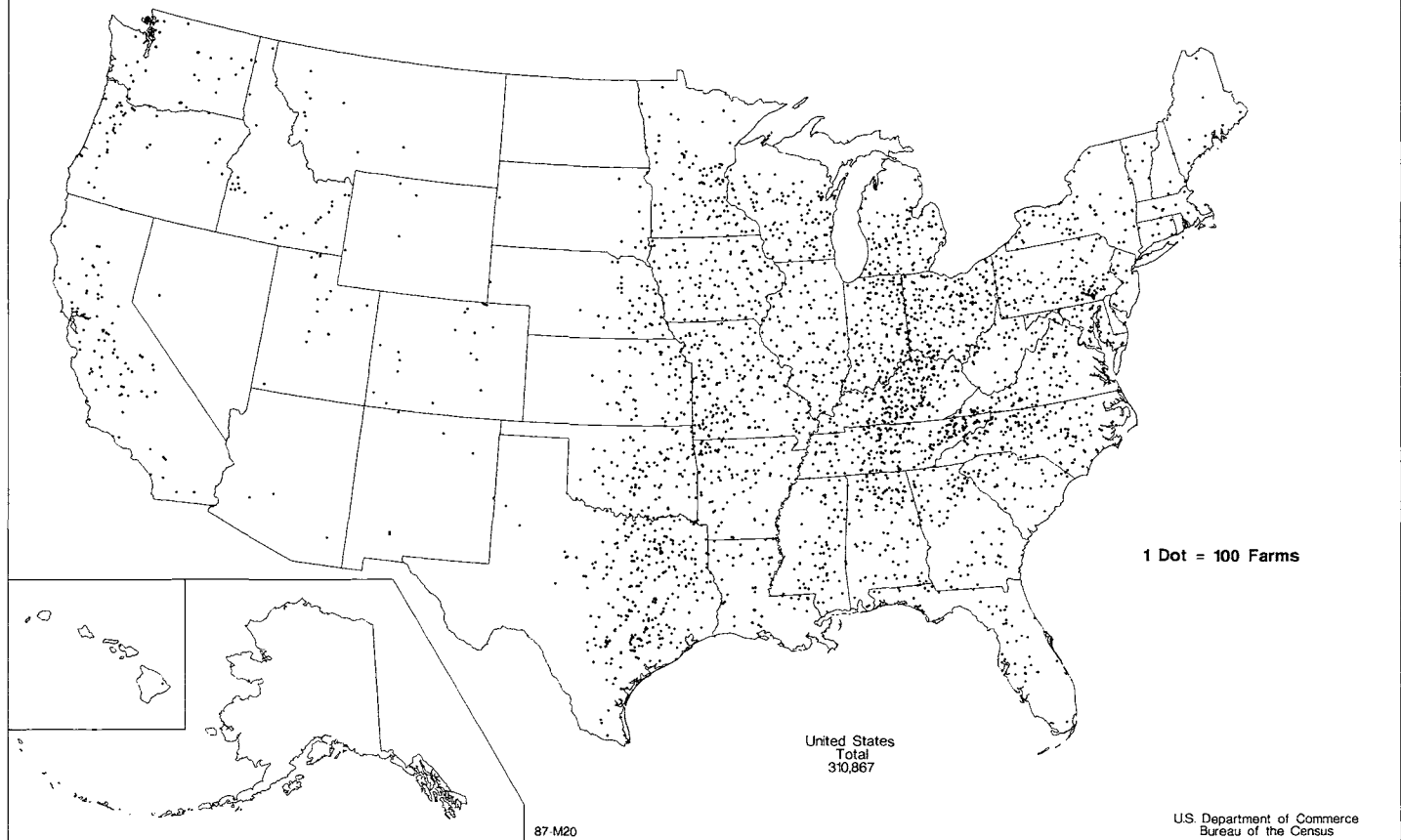
### Farms With Less Than 50 Acres: 1987



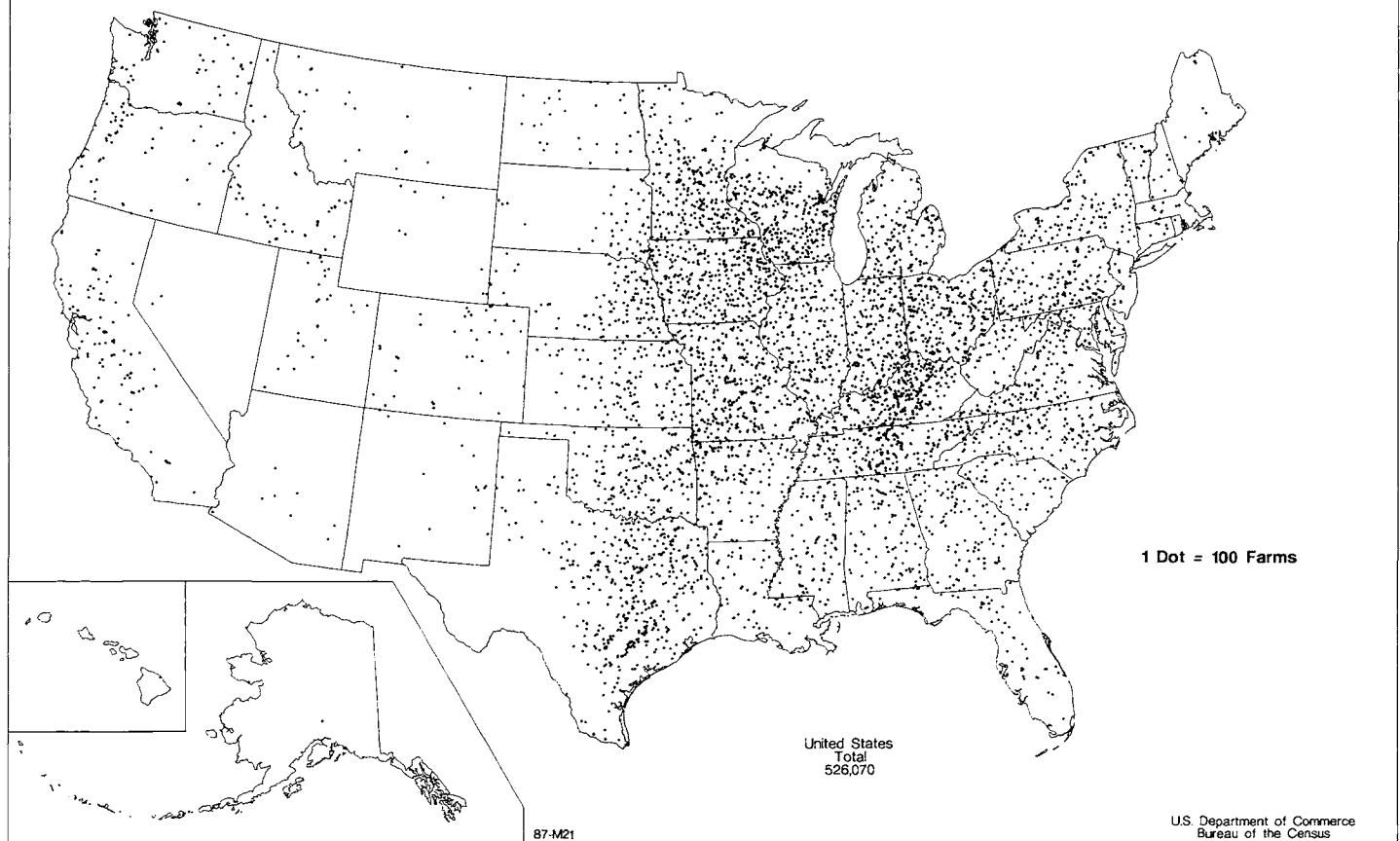
### Change in Number of Farms With Less Than 50 Acres: 1982 to 1987



### Farms With 50 to 99 Acres: 1987



### Farms With 100 to 259 Acres: 1987

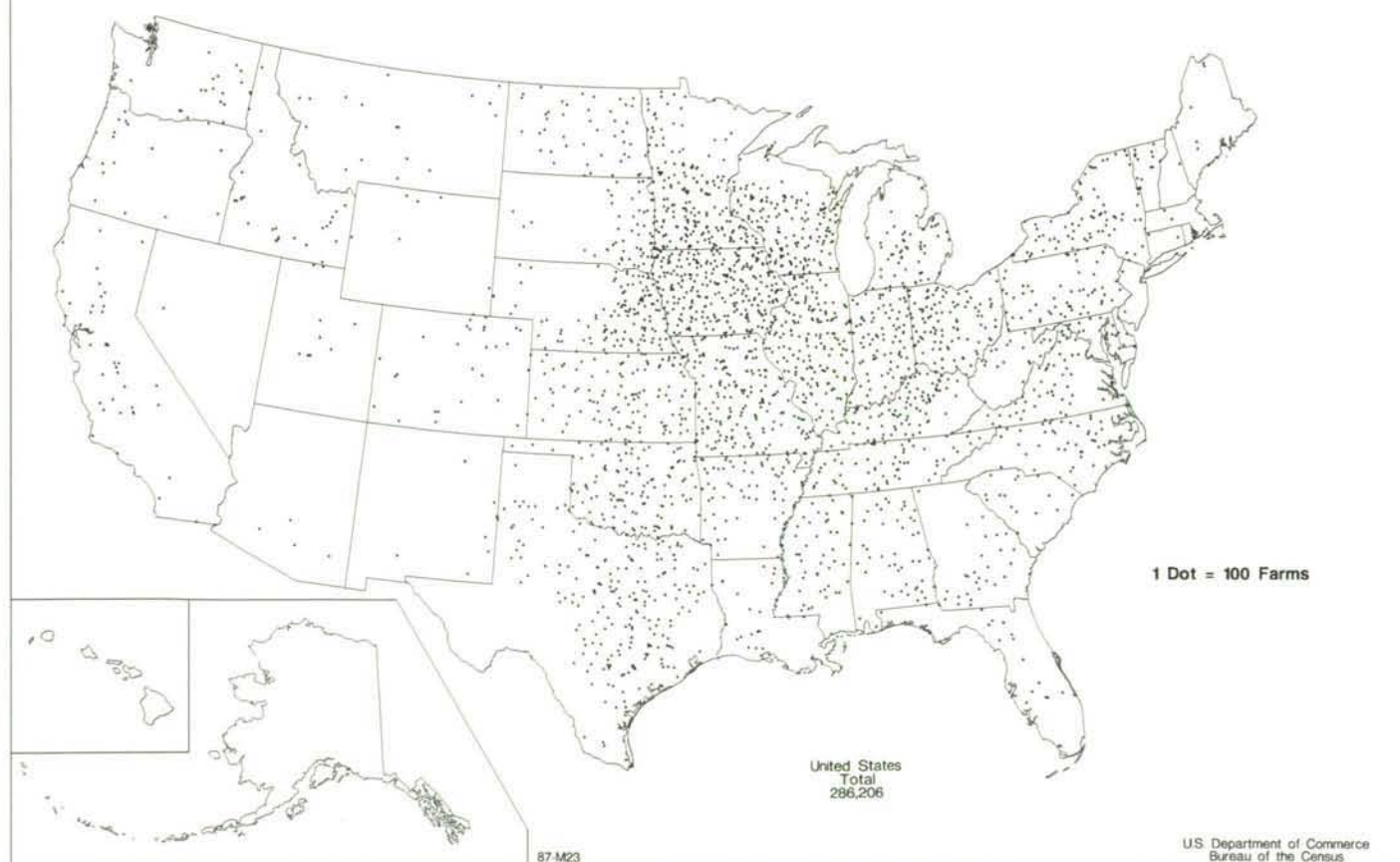




# Change in Number of Farms With 50 to 259 Acres: 1982 to 1987



# Farms With 260 to 499 Acres: 1987

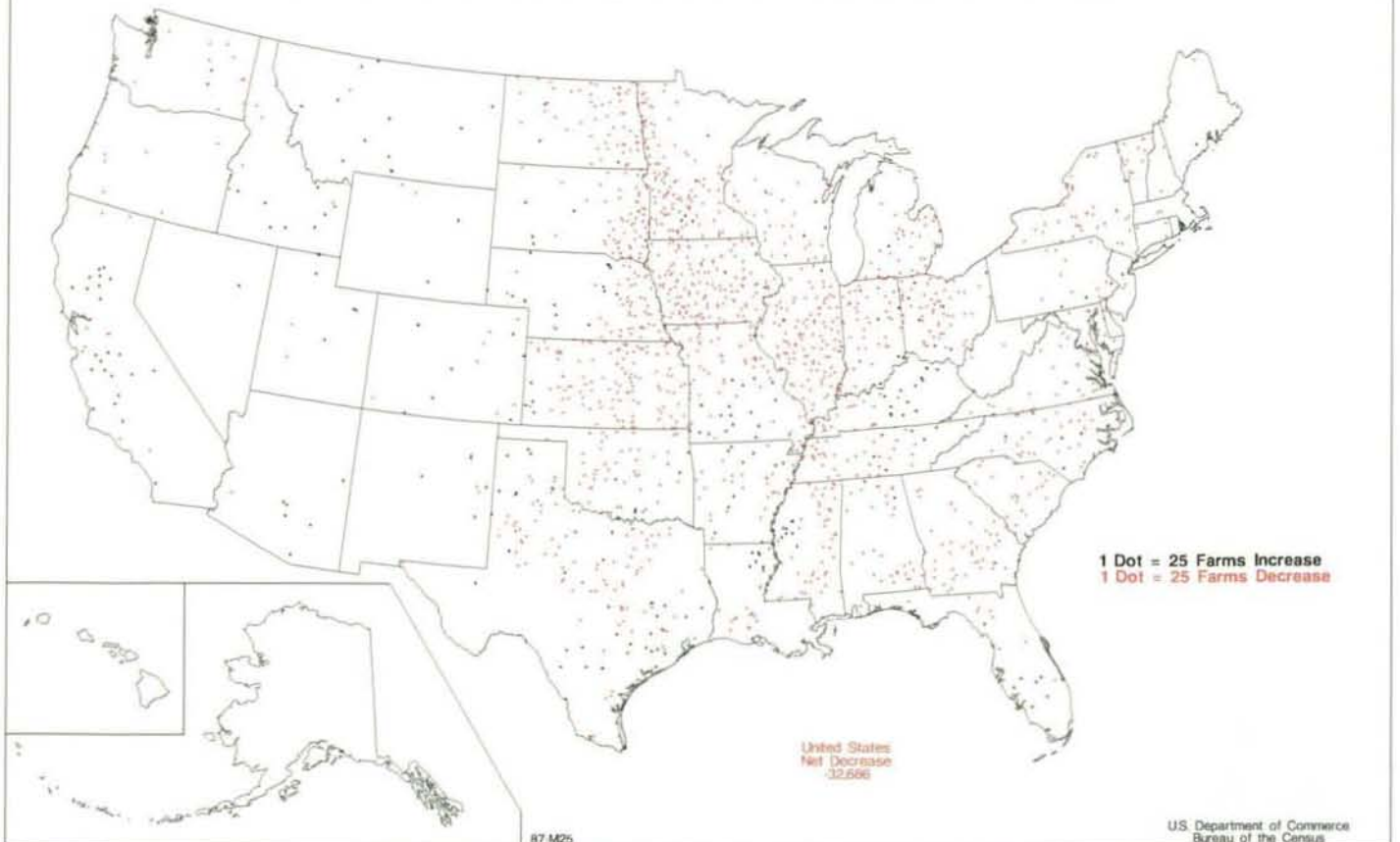




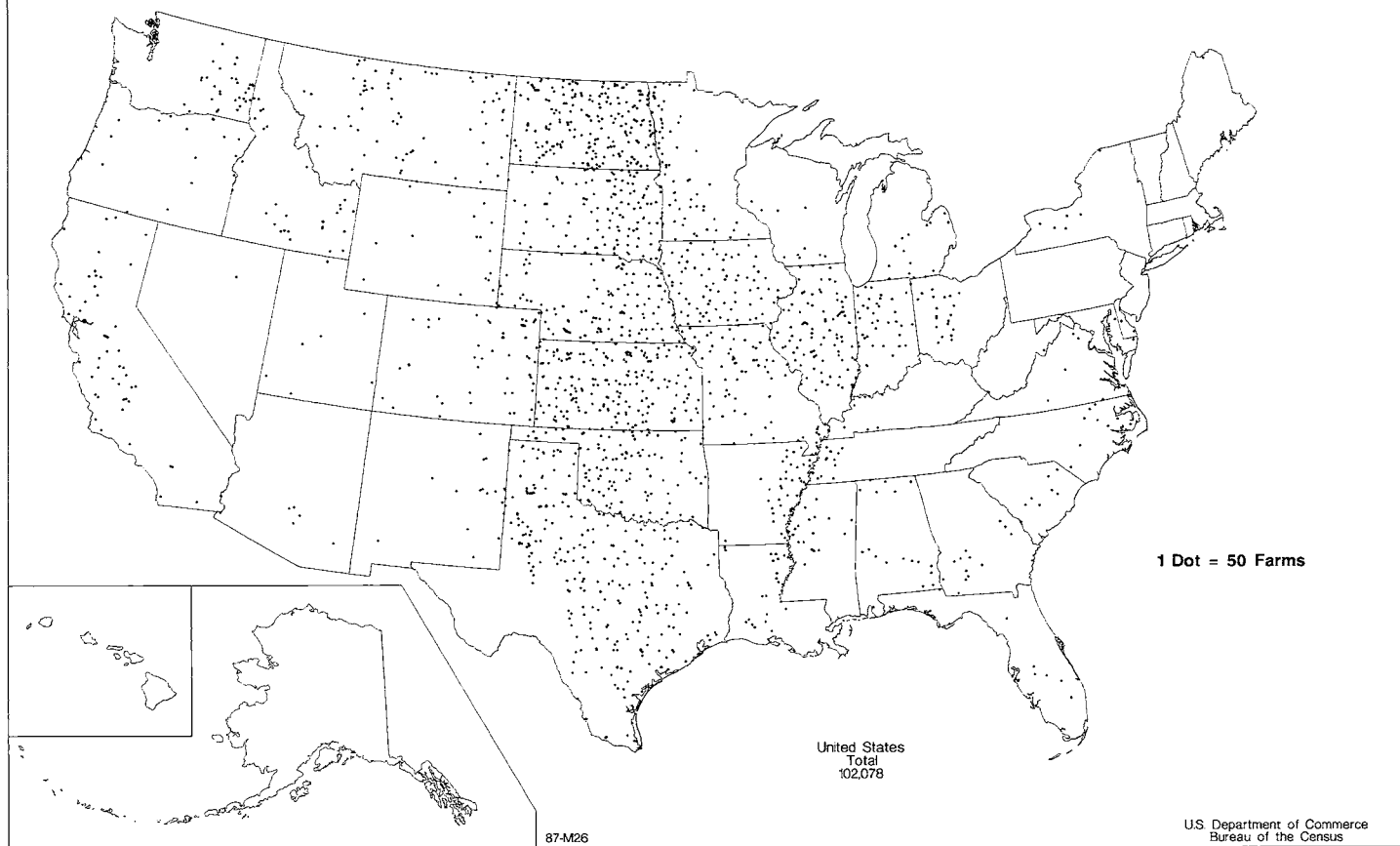
### Farms With 500 to 999 Acres: 1987



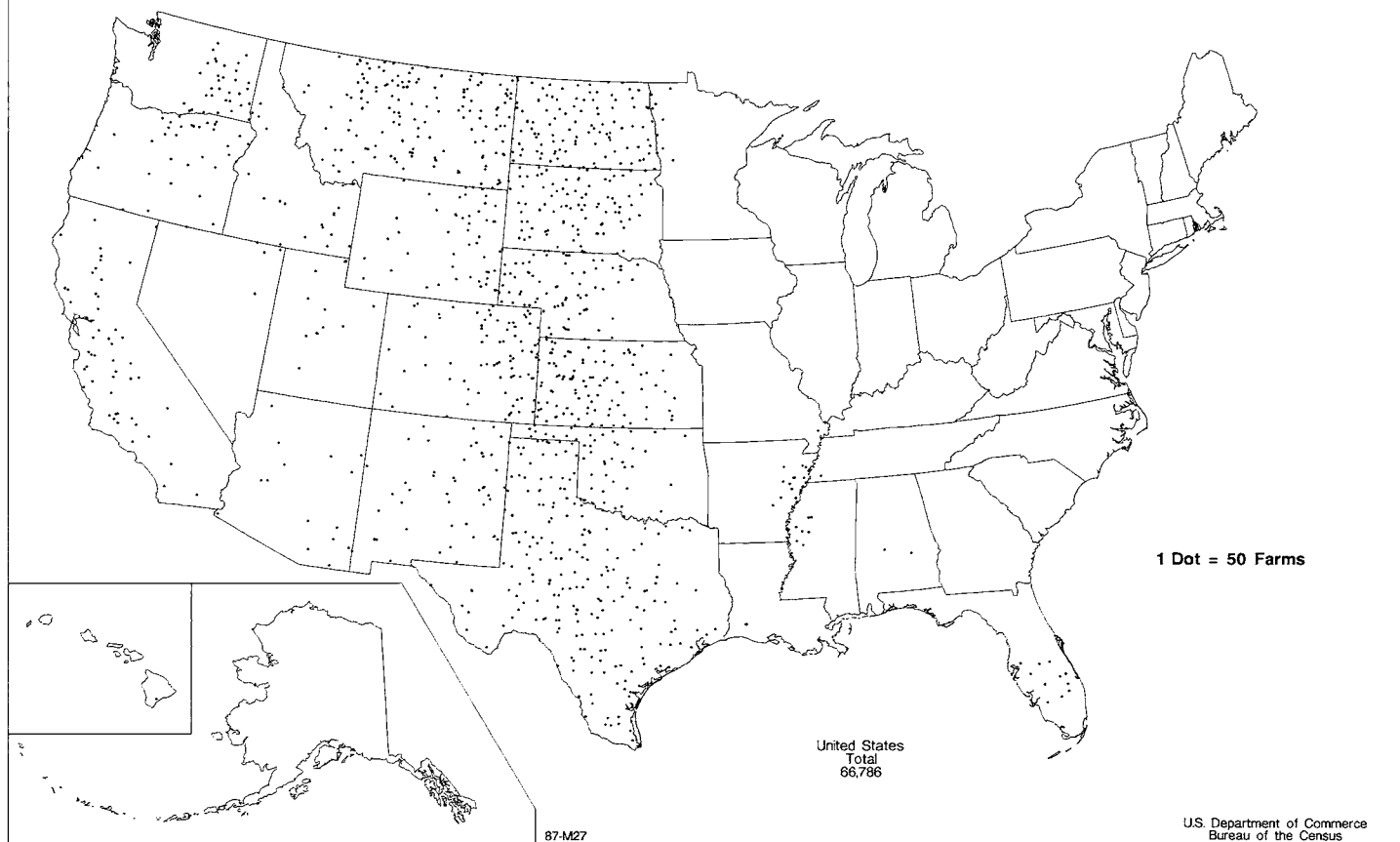
### Change in Number of Farms With 260 to 999 Acres: 1982 to 1987



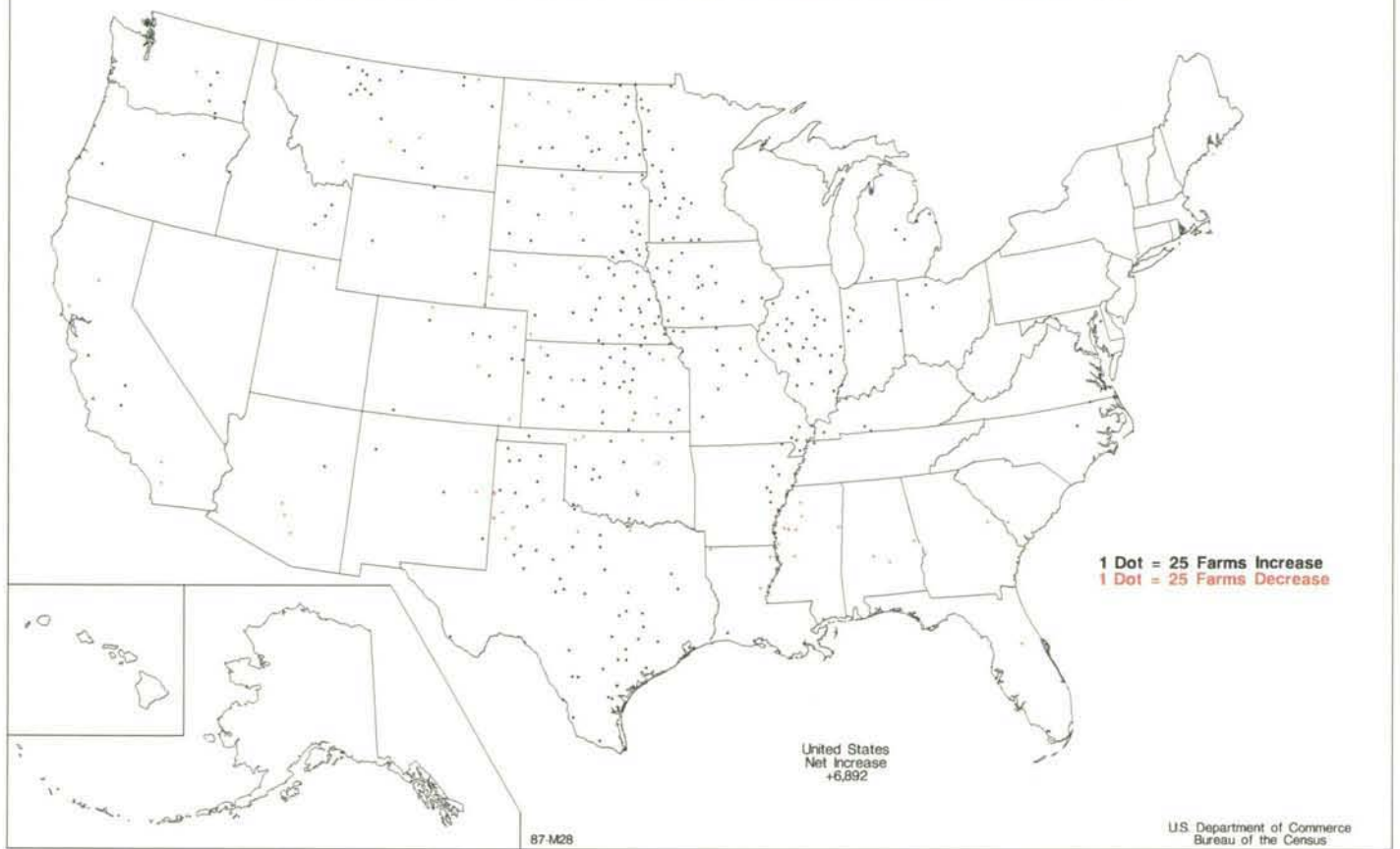
**Farms With 1,000 to 1,999 Acres: 1987**



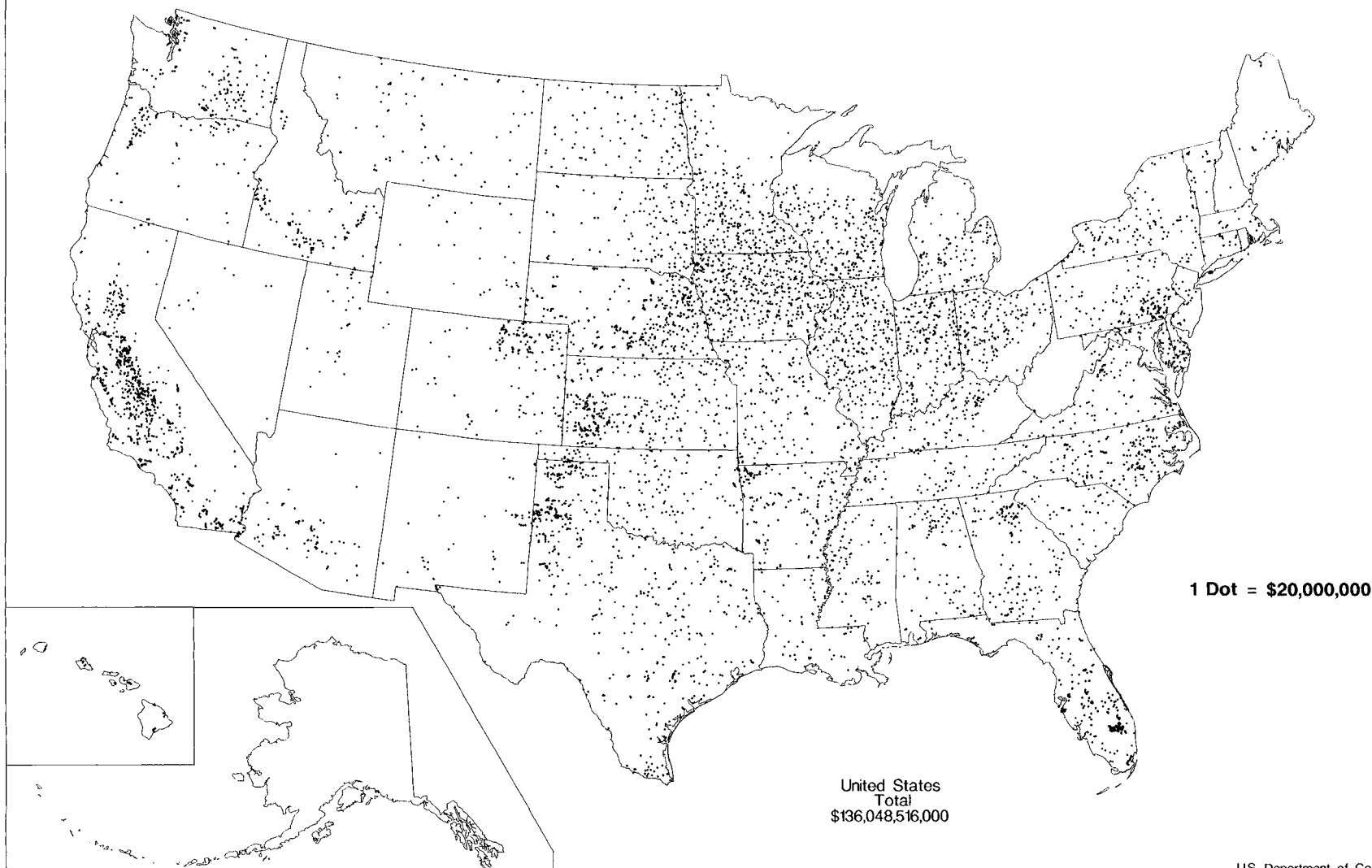
**Farms With 2,000 Acres or More: 1987**



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

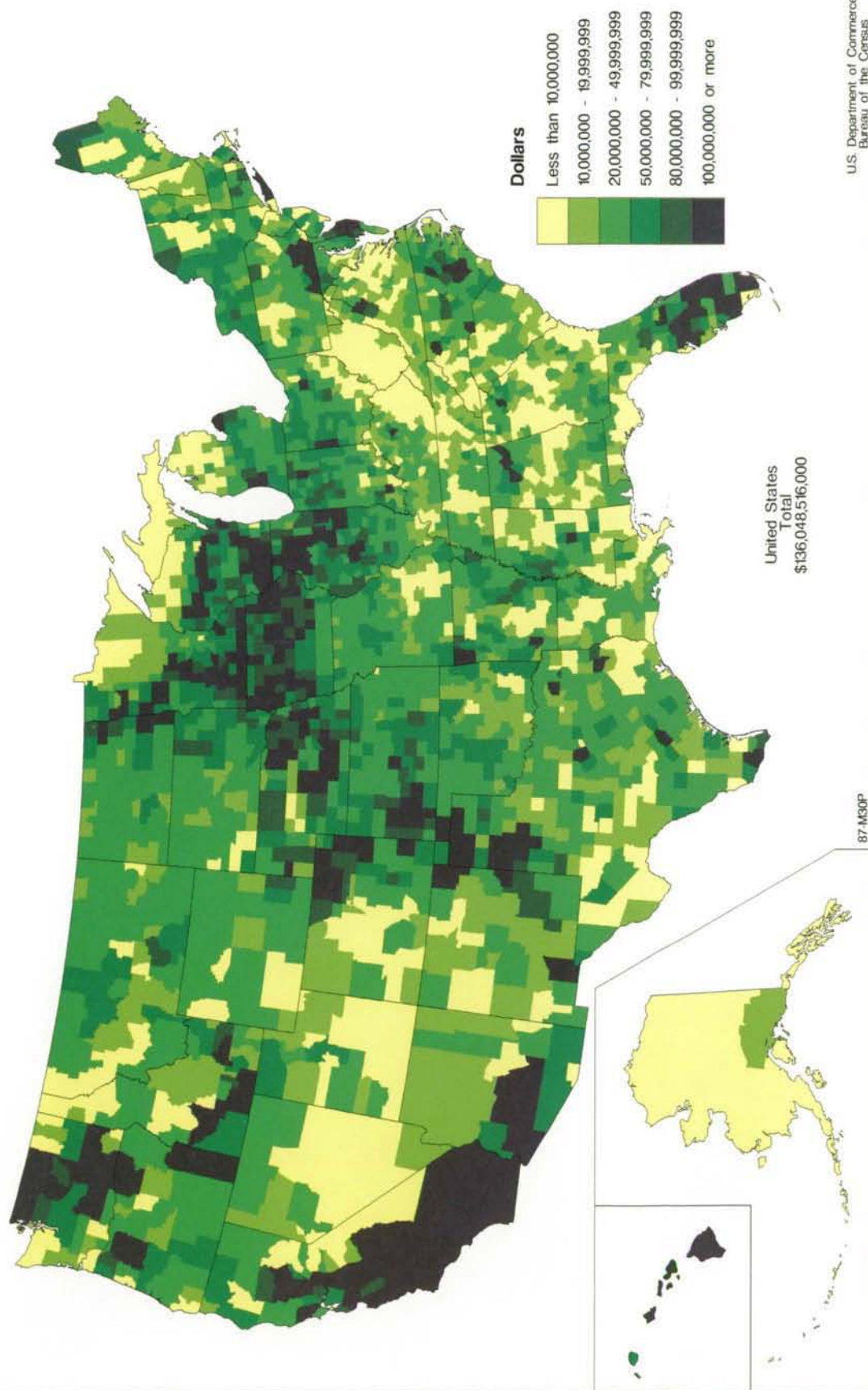


# Market Value of Agricultural Products Sold: 1987



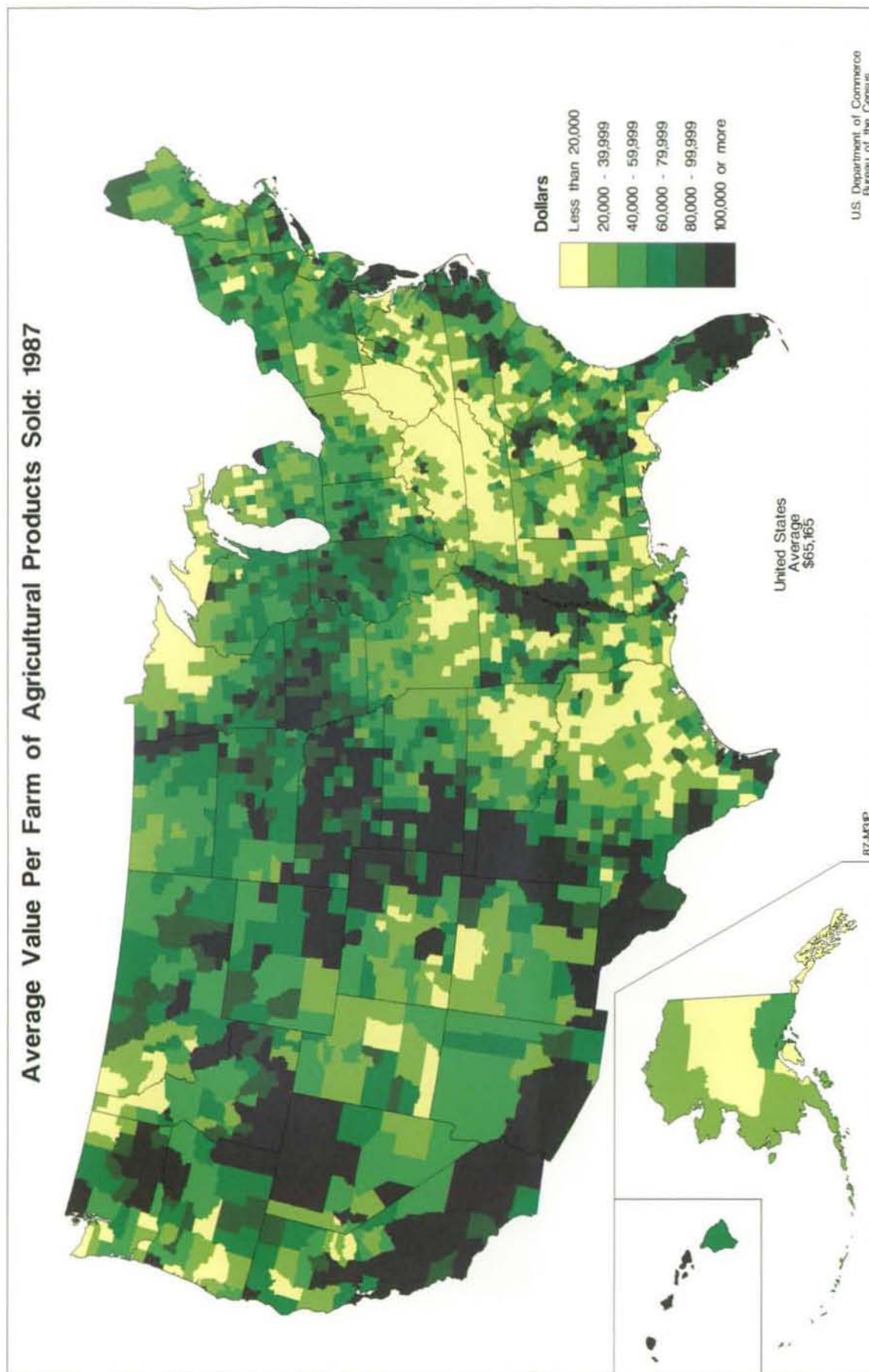
U.S. Department of Commerce  
Bureau of the Census

# Market Value of Agricultural Products Sold by County: 1987

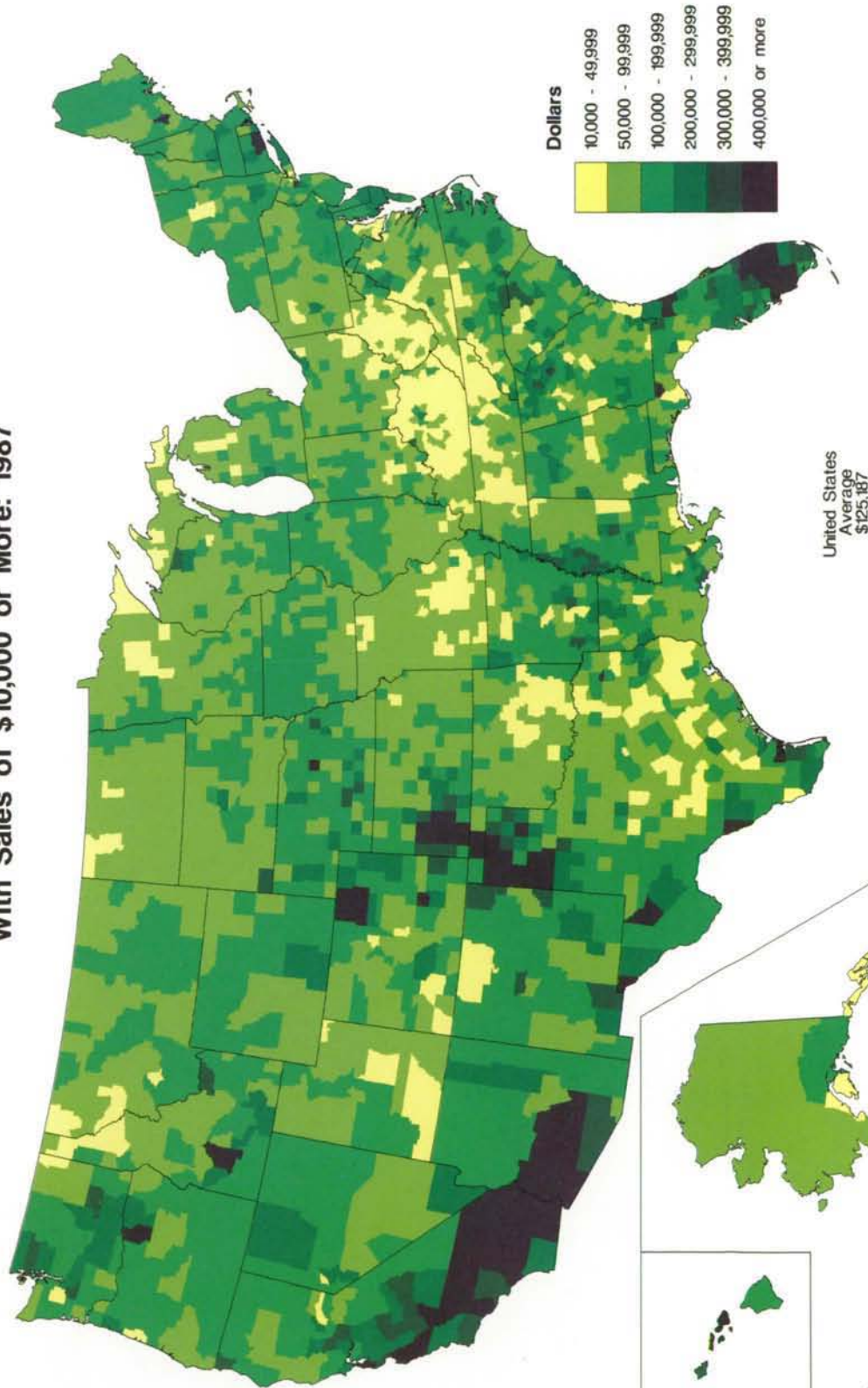




# Average Value Per Farm of Agricultural Products Sold: 1987



# Average Value Per Farm of Agricultural Products Sold With Sales of \$10,000 or More: 1987

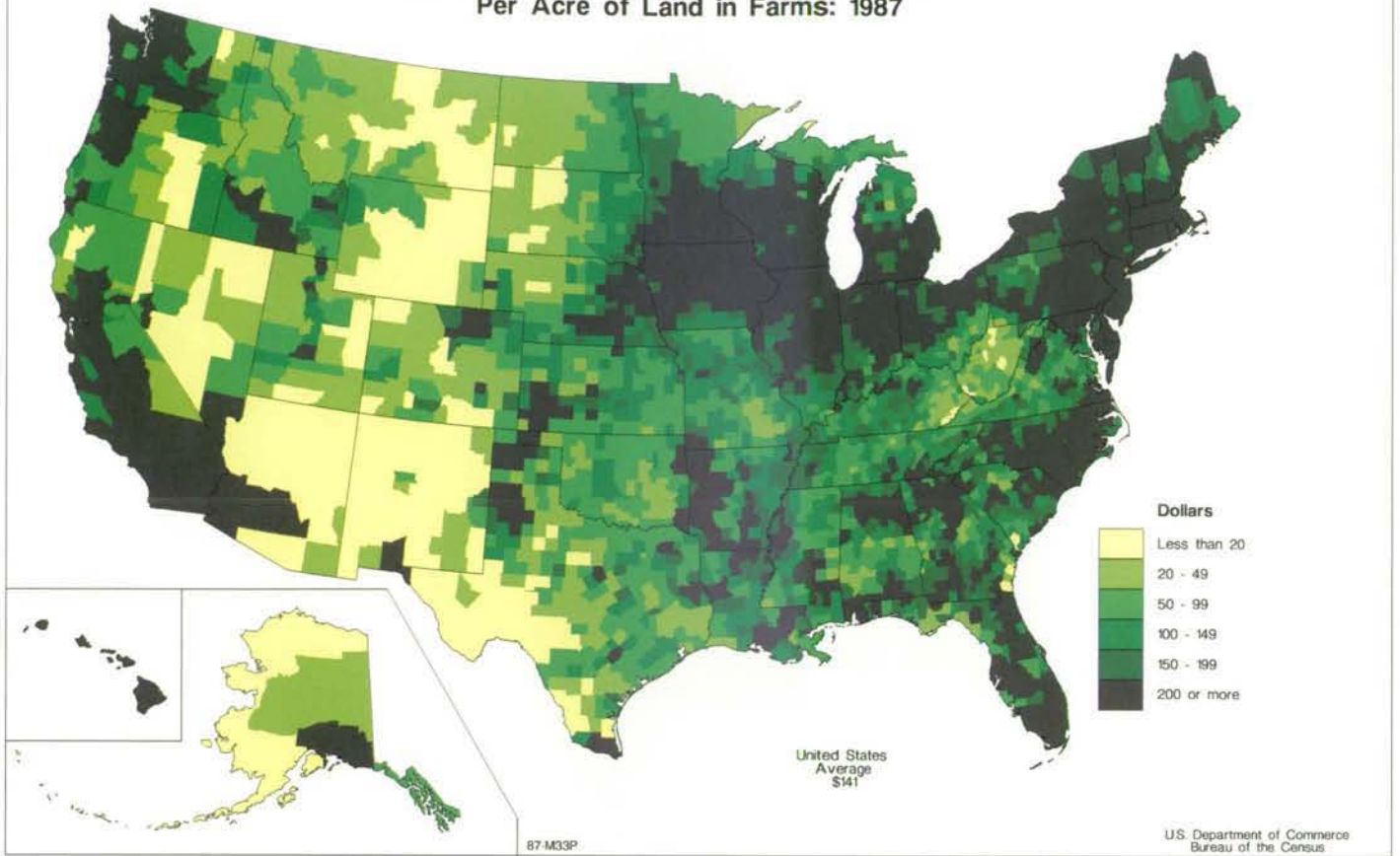


U.S. Department of Commerce  
Bureau of the Census

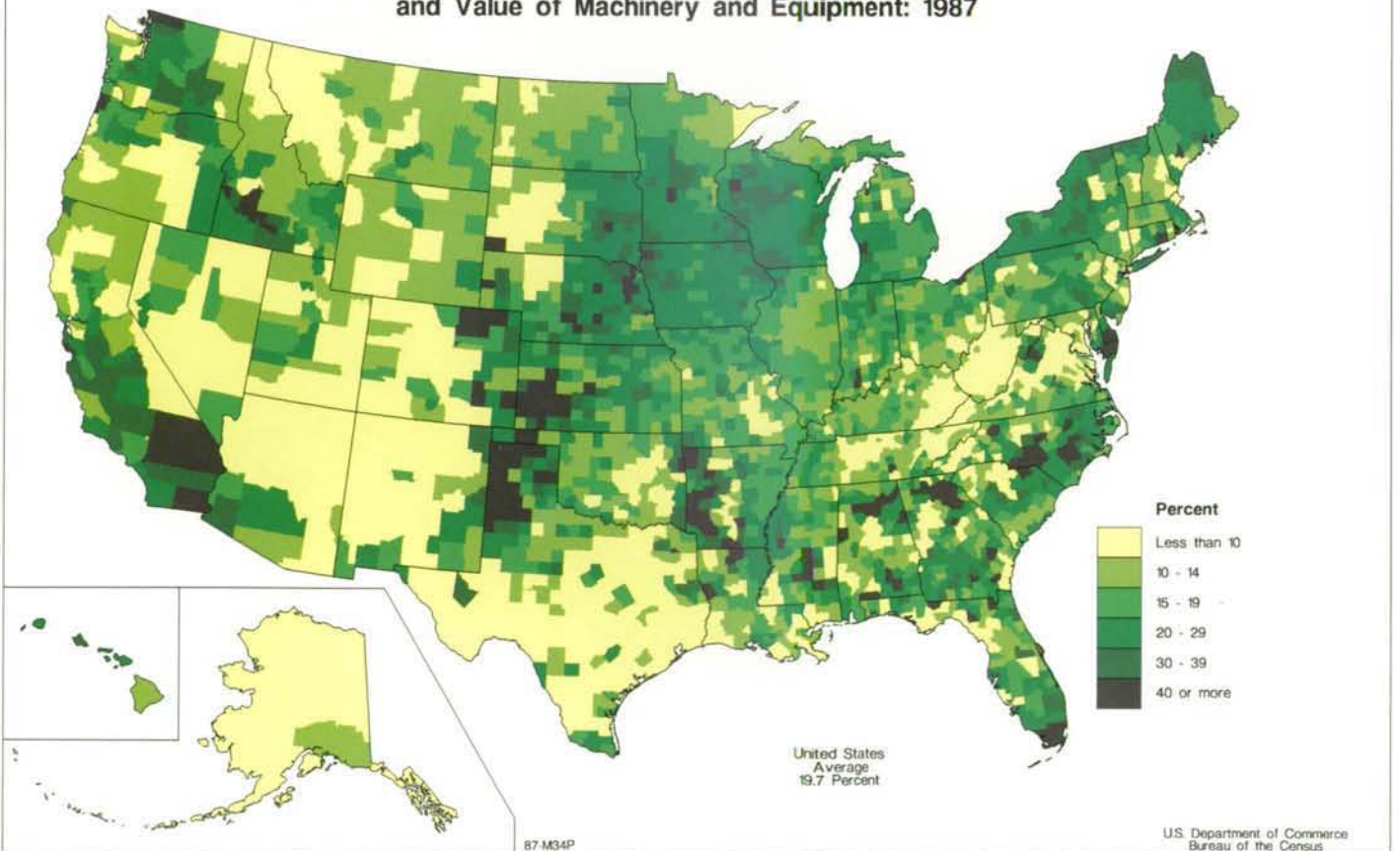
87-M32P



**Average Value of Agricultural Products Sold  
Per Acre of Land in Farms: 1987**

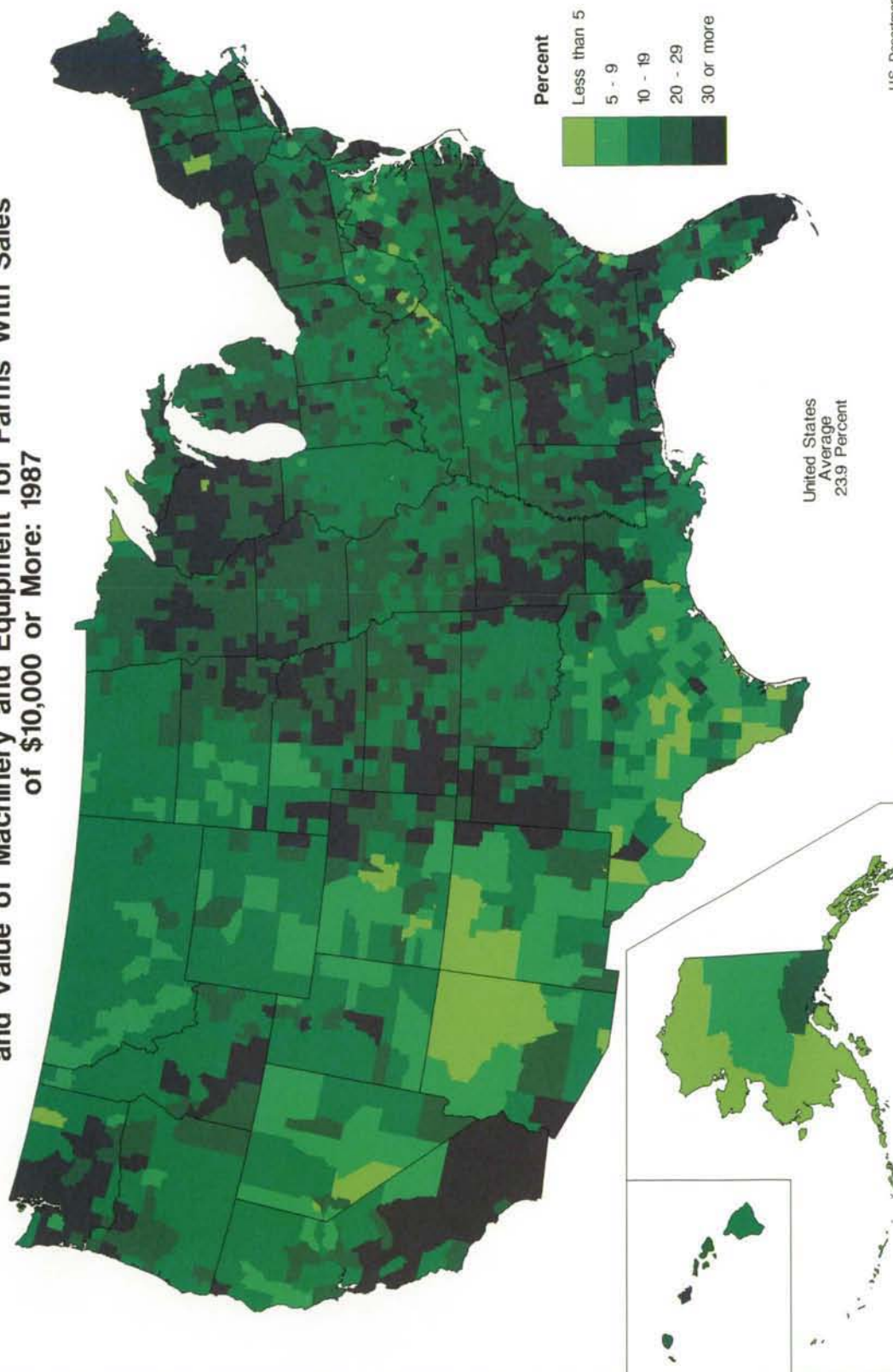


**Value of Agricultural Products Sold as Percent of Value of Land and Buildings  
and Value of Machinery and Equipment: 1987**



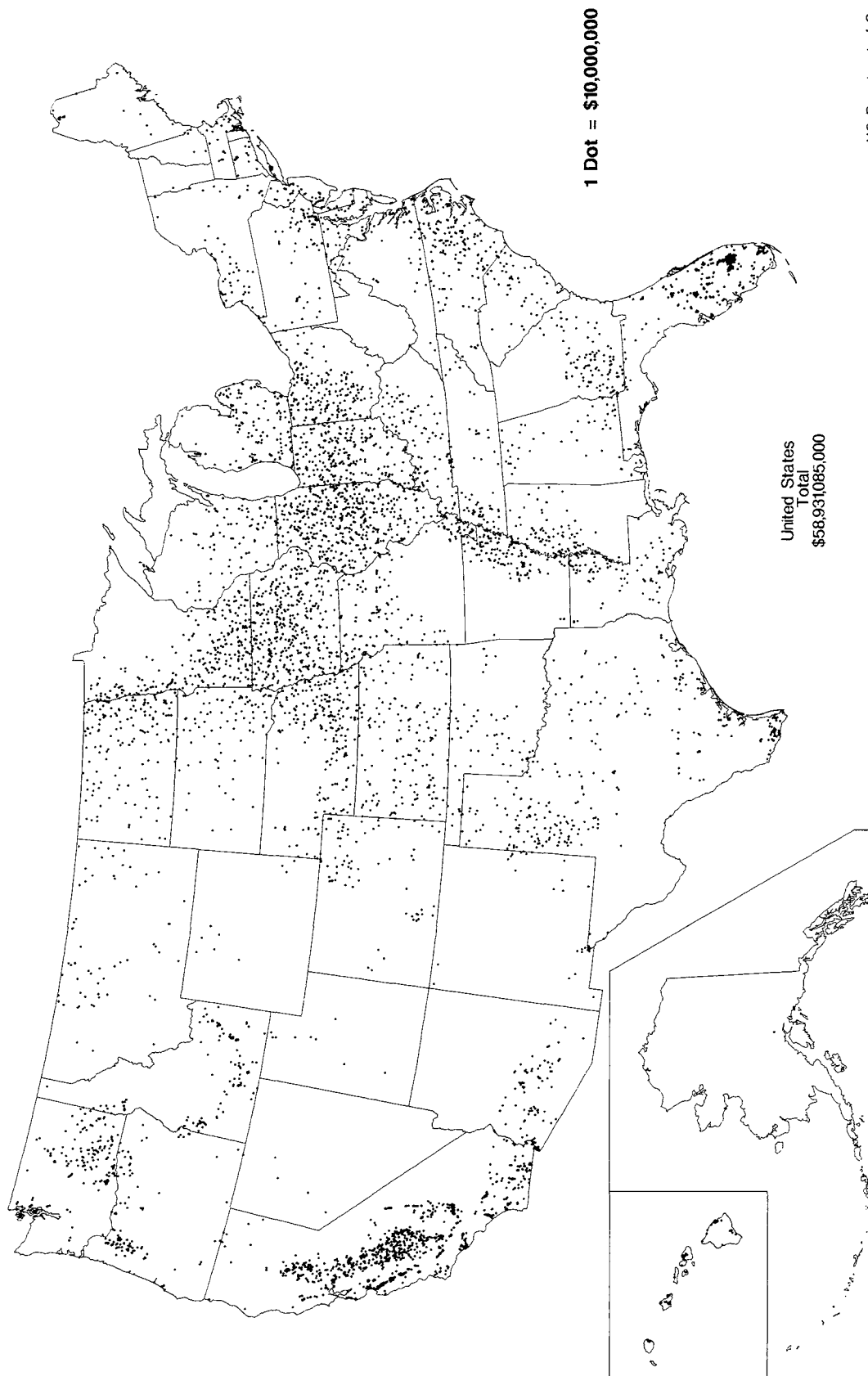


**Value of Agricultural Products Sold as Percent of Value of Land and Buildings  
and Value of Machinery and Equipment for Farms With Sales  
of \$10,000 or More: 1987**



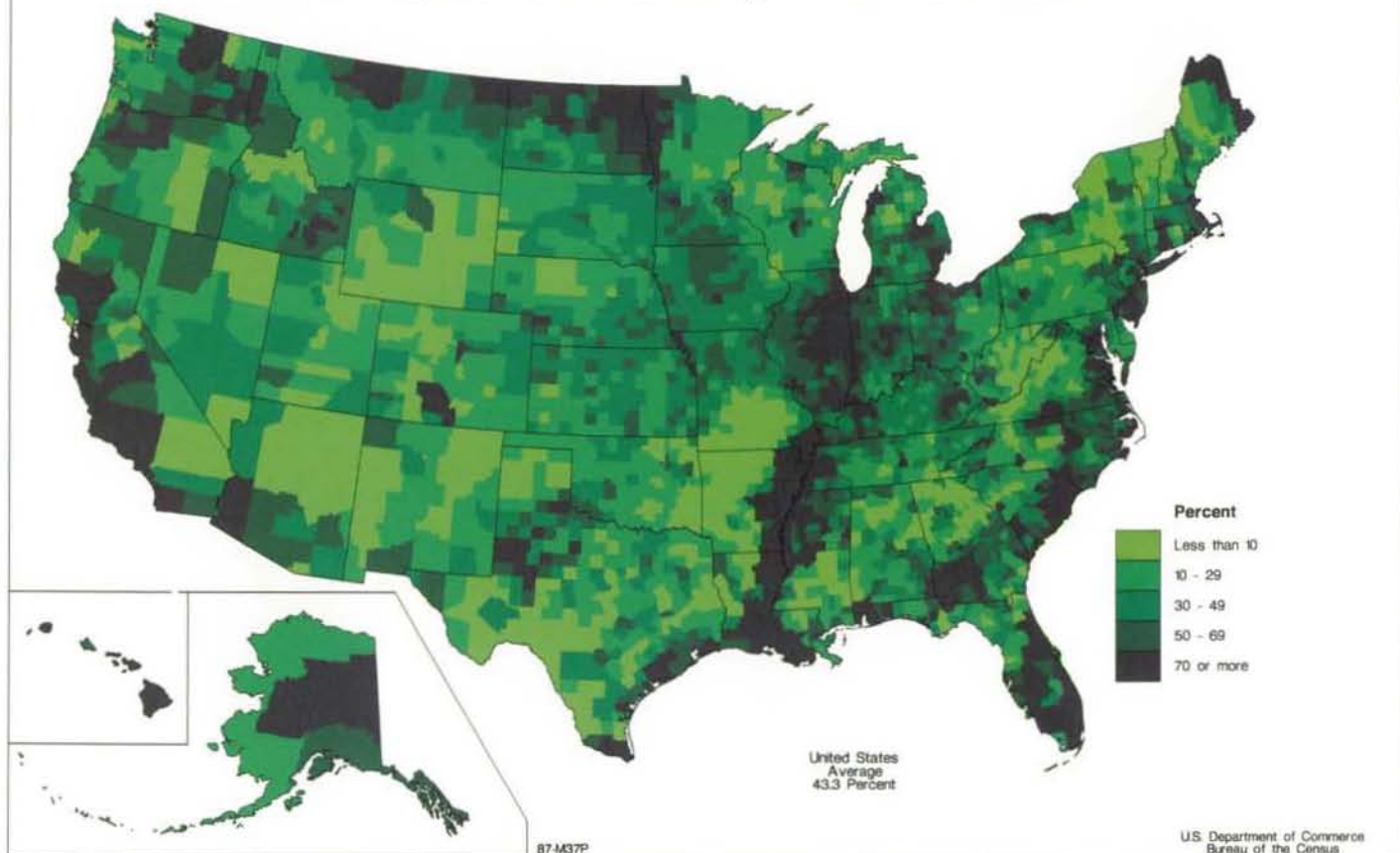
U.S. Department of Commerce  
Bureau of the Census

**Value of Crops Sold: 1987**

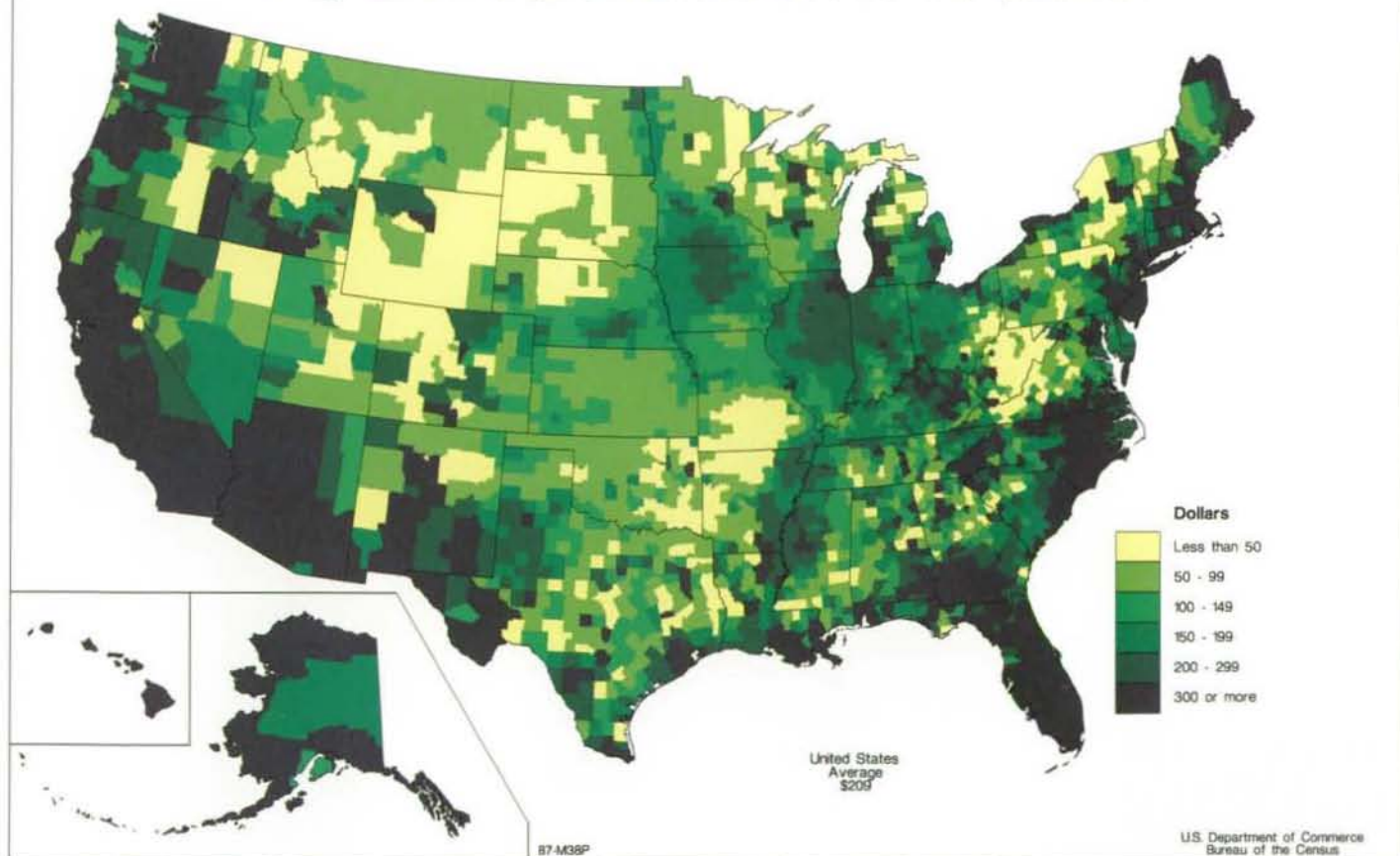


U.S. Department of Commerce  
Bureau of the Census

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

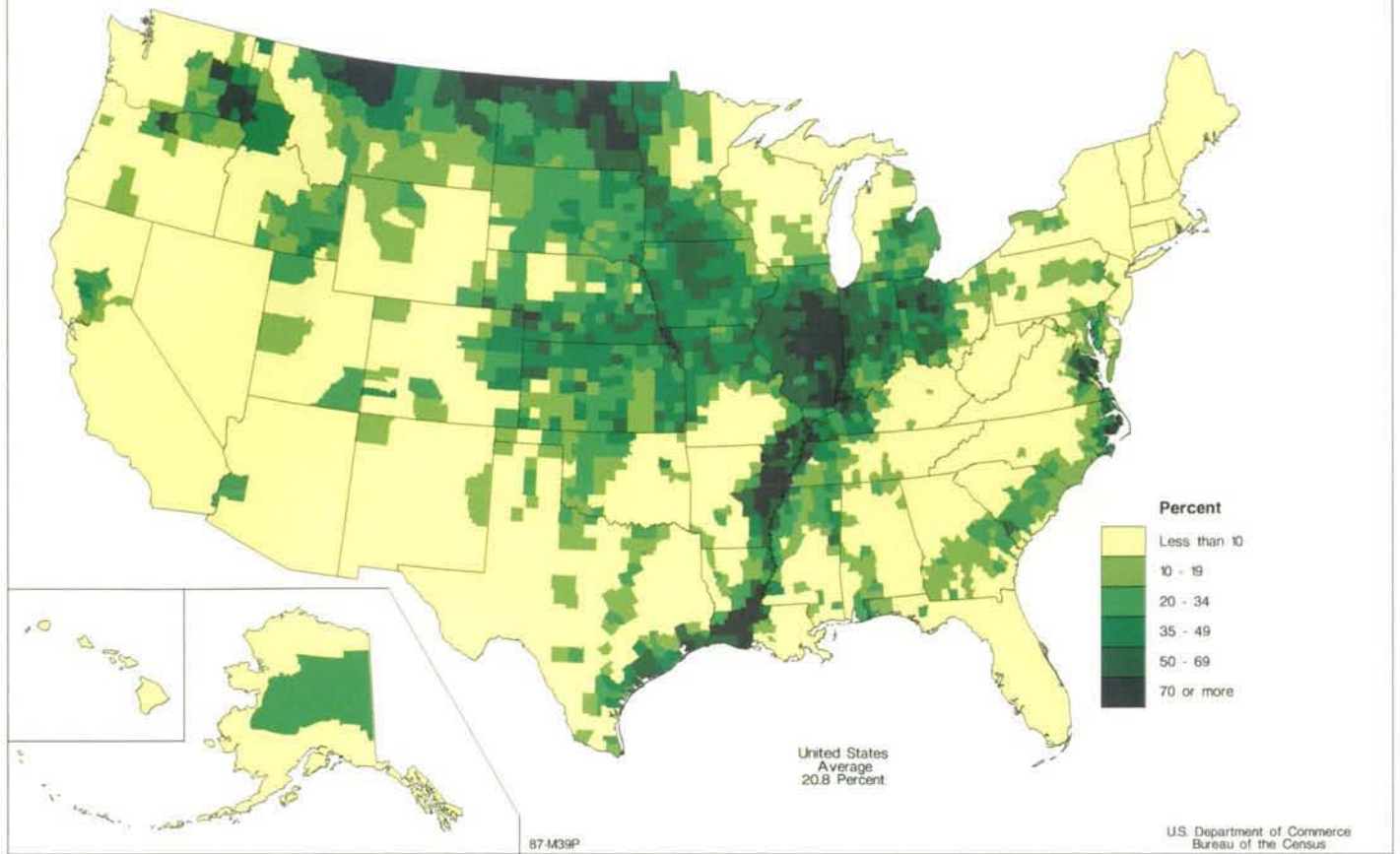


Average Value of Crops Sold Per Acre of Harvested Cropland: 1987

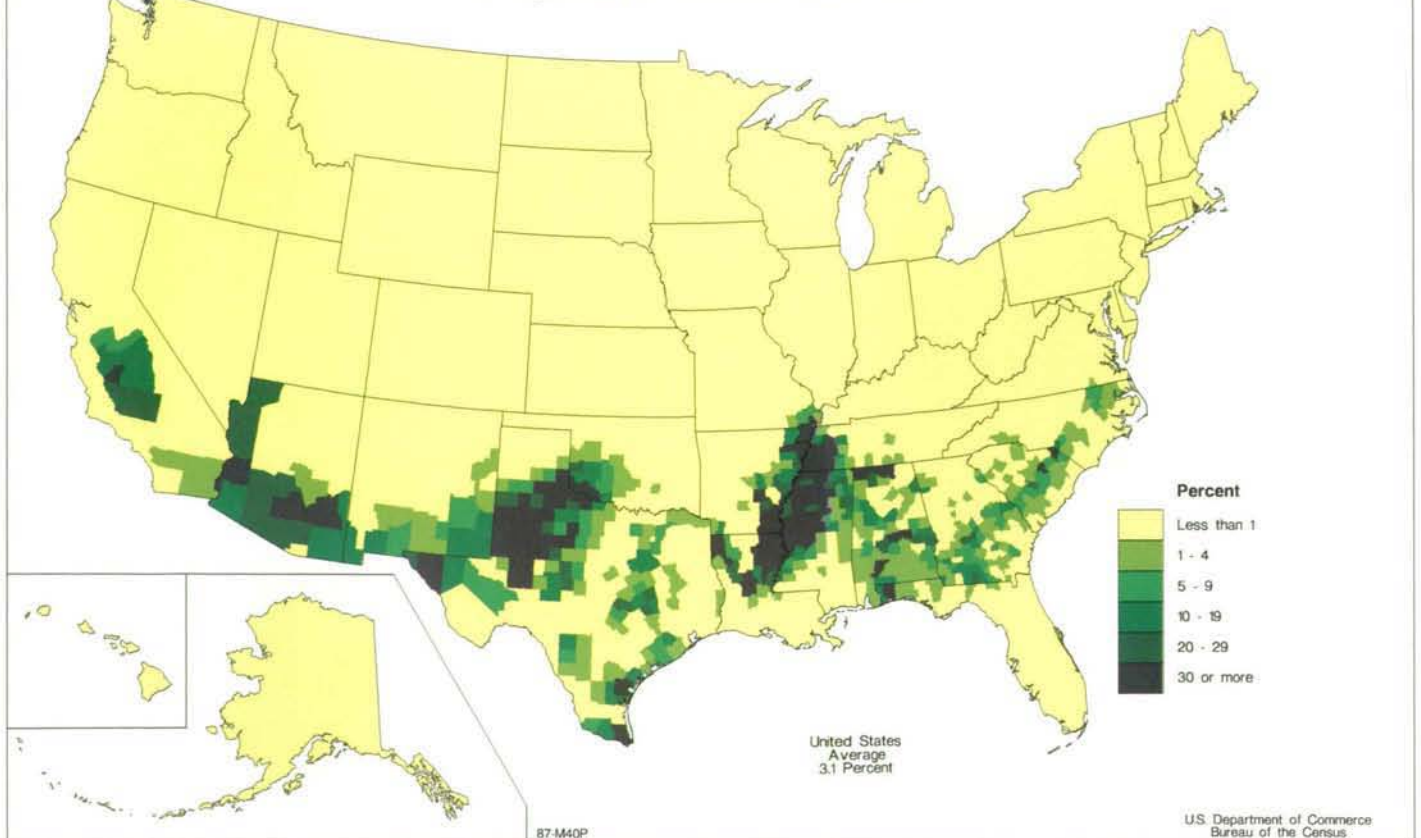




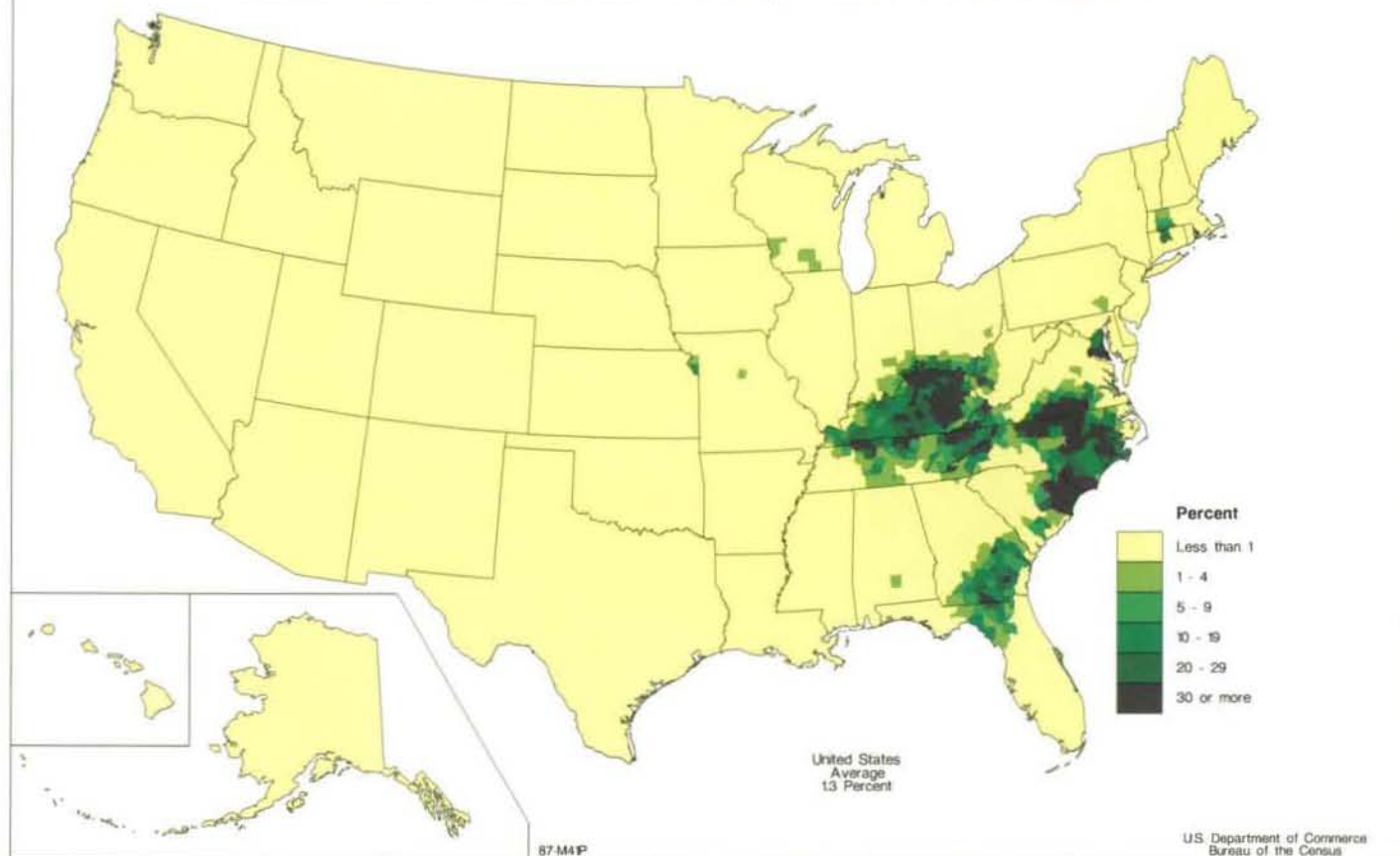
Value of Grains Sold as Percent of Agricultural Products Sold: 1987



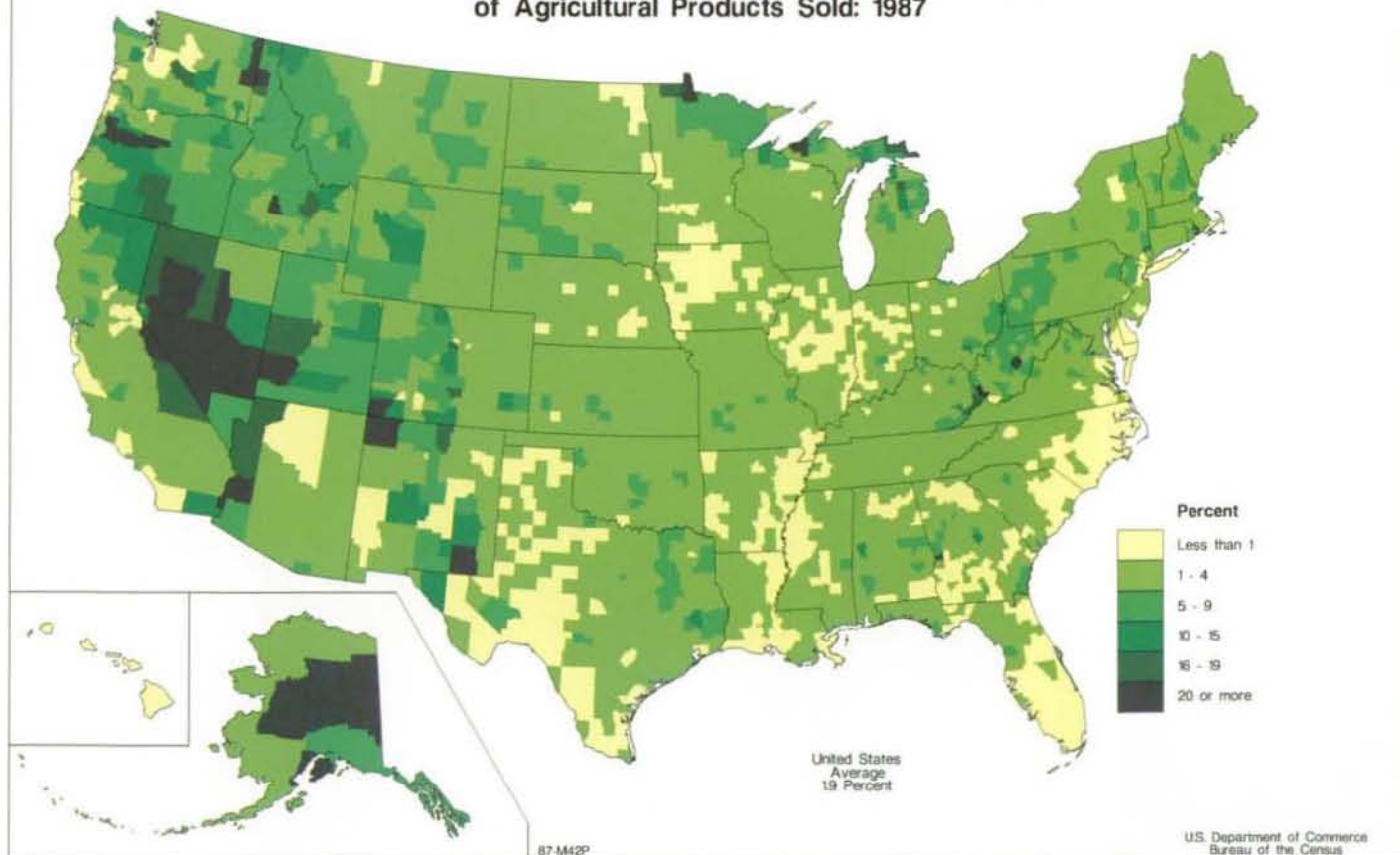
Value of Cotton and Cottonseed Sold as Percent of Agricultural Products Sold: 1987



**Value of Tobacco Sold as Percent of Agricultural Products Sold: 1987**

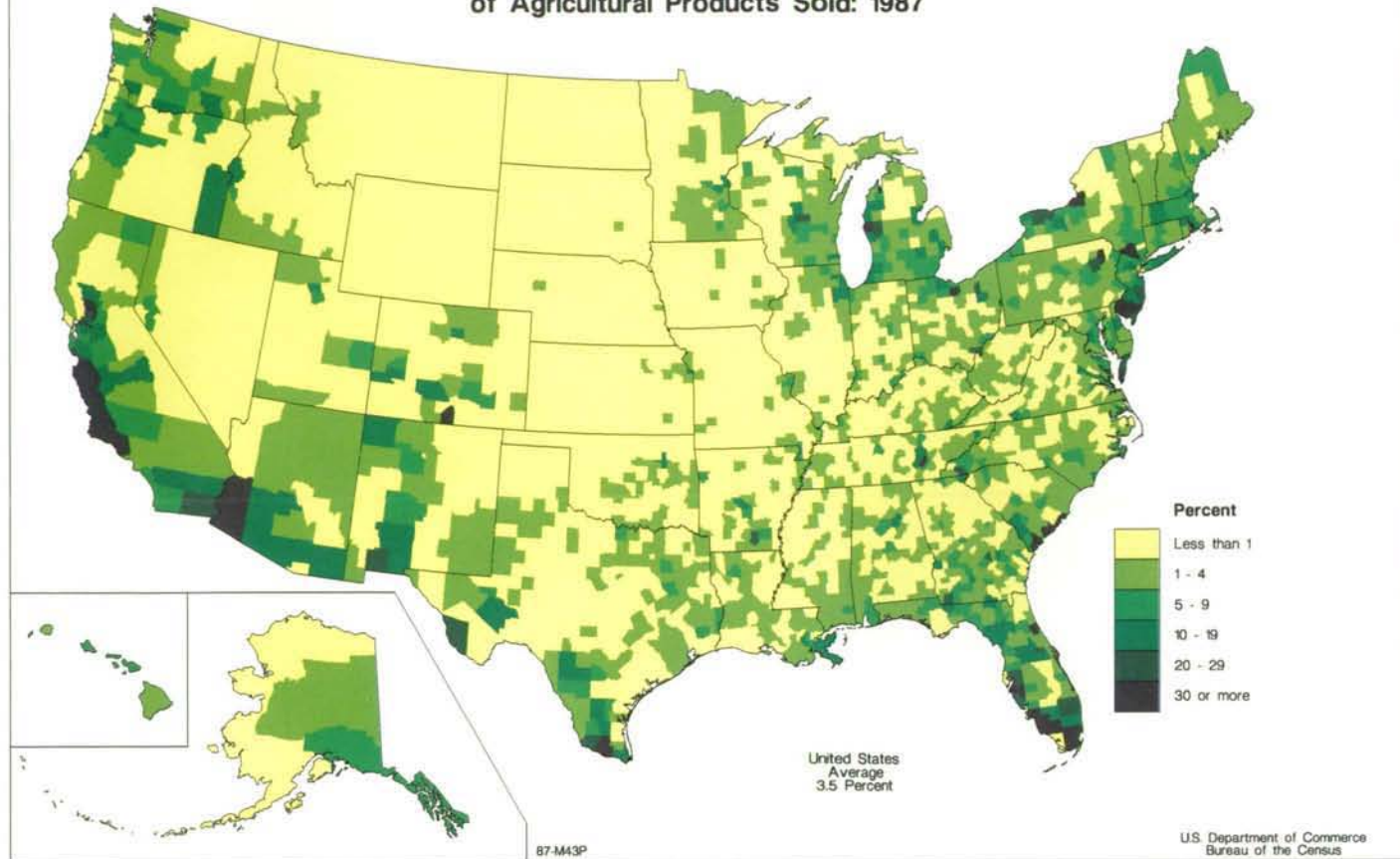


**Value of Hay, Silage, and Field Seeds Sold as Percent of Agricultural Products Sold: 1987**

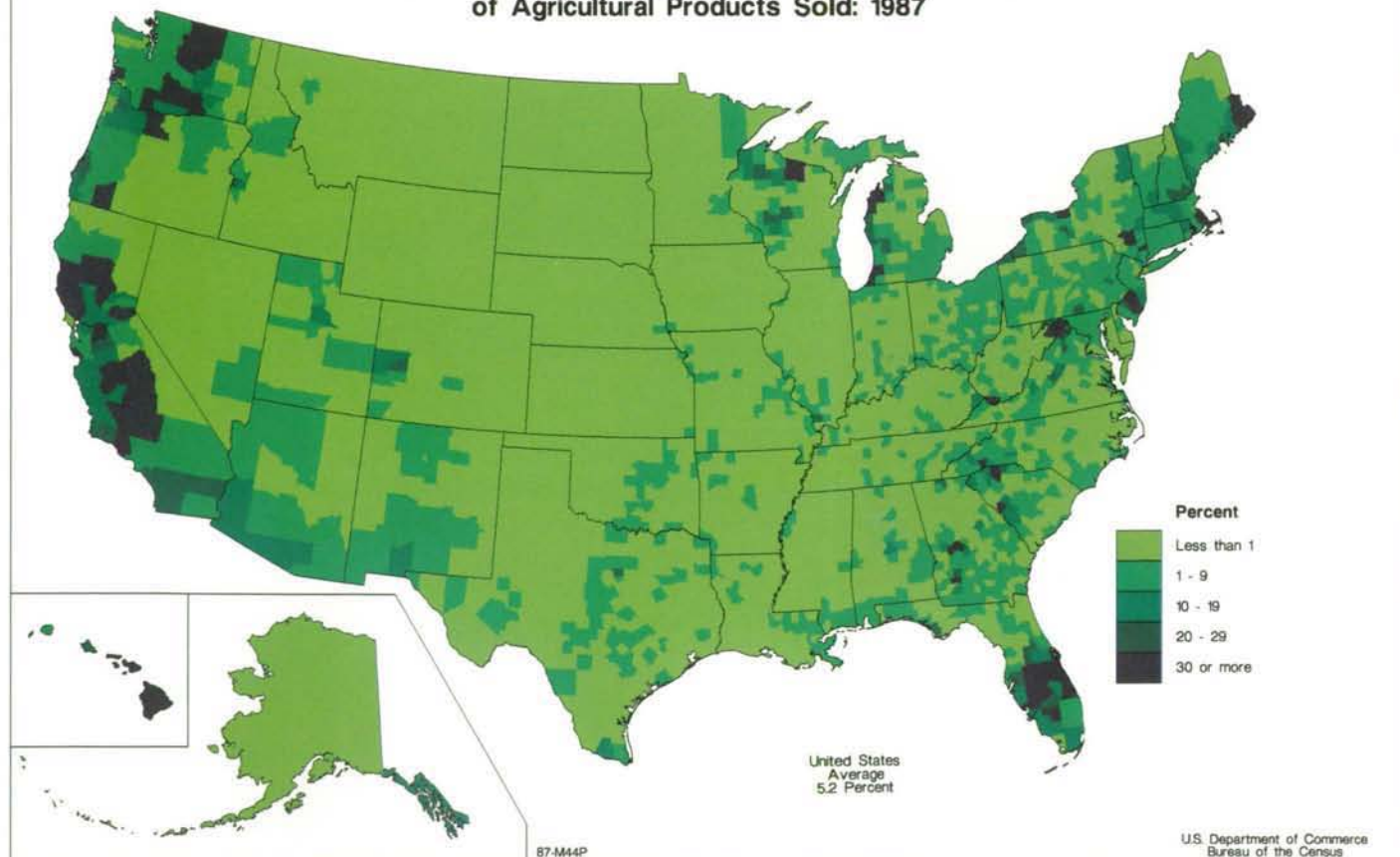




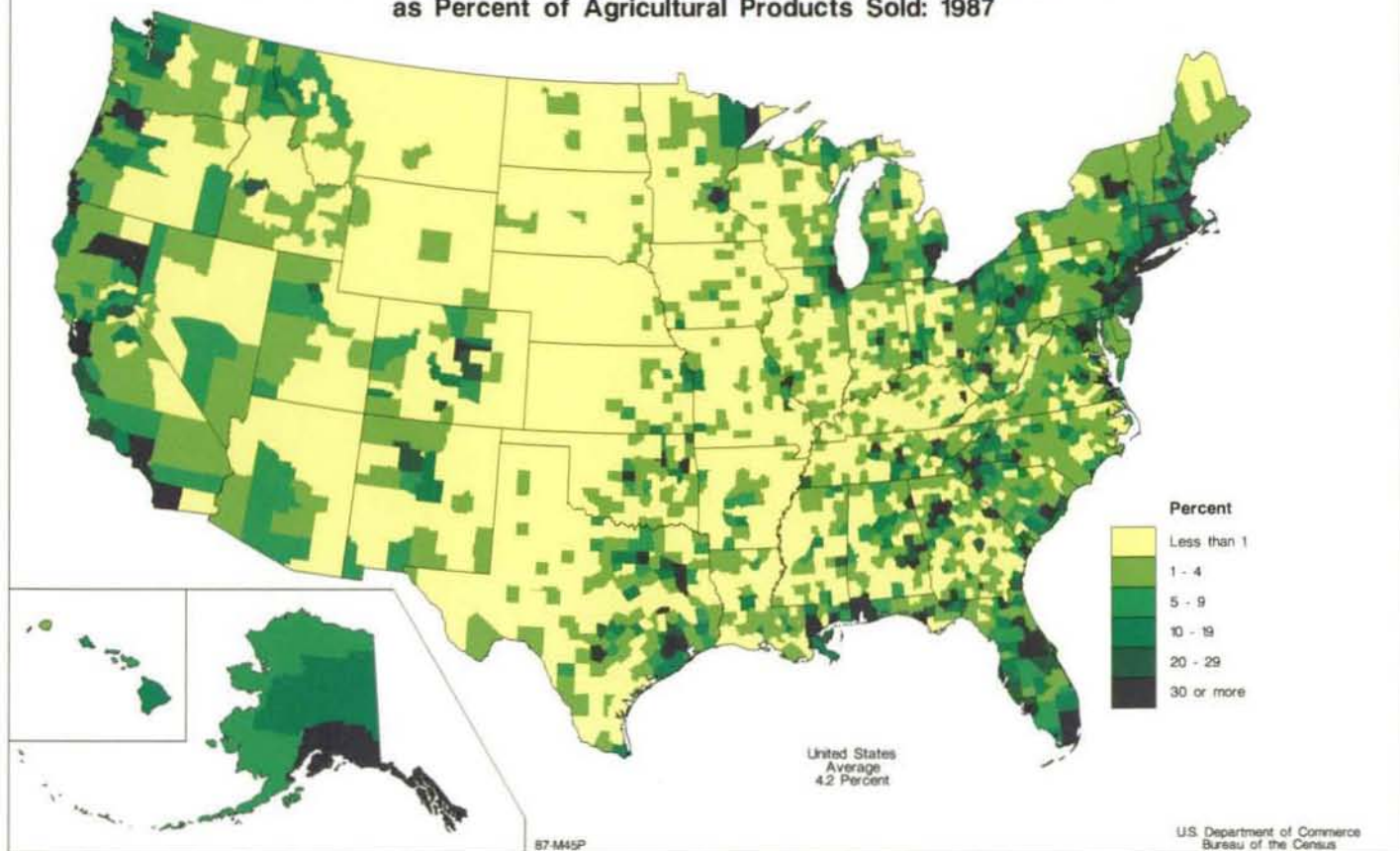
**Value of Vegetables, Sweet Corn, and Melons Sold as Percent of Agricultural Products Sold: 1987**



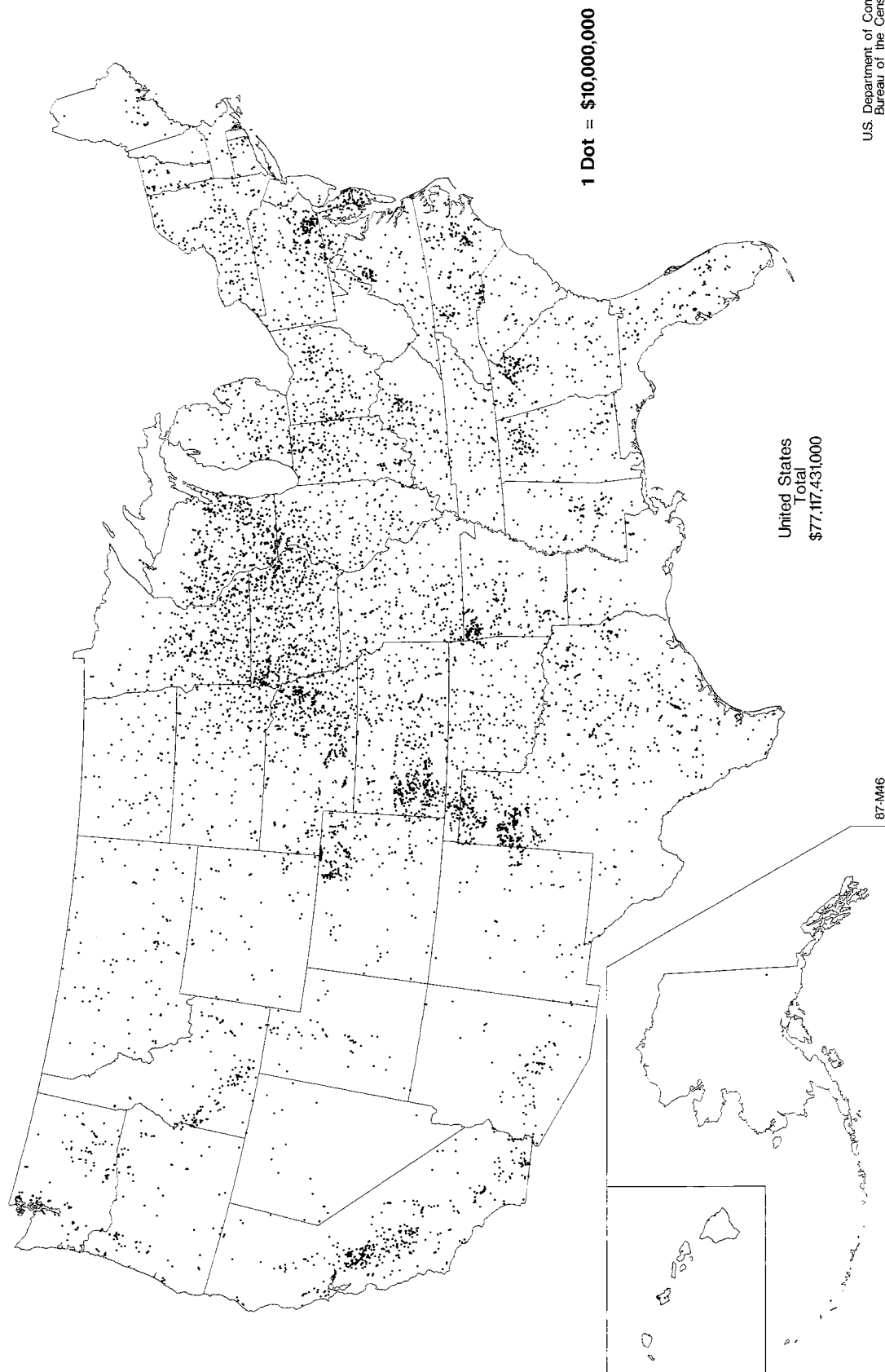
**Value of Fruits, Nuts, and Berries Sold as Percent of Agricultural Products Sold: 1987**



**Value of Nursery and Greenhouse Crops, Mushrooms, and Sod Sold  
as Percent of Agricultural Products Sold: 1987**

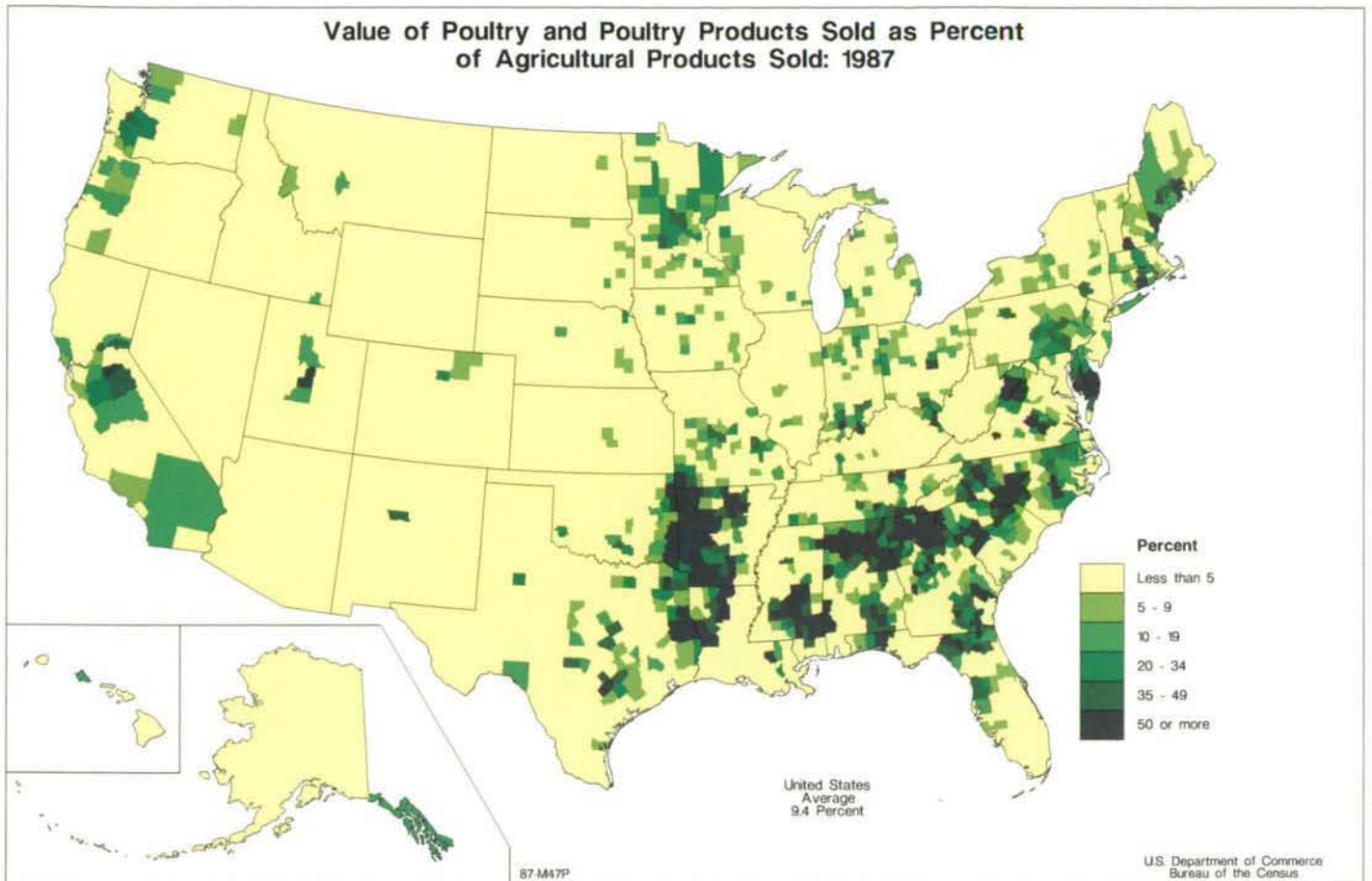


# Value of Livestock, Poultry, and Their Products Sold: 1987

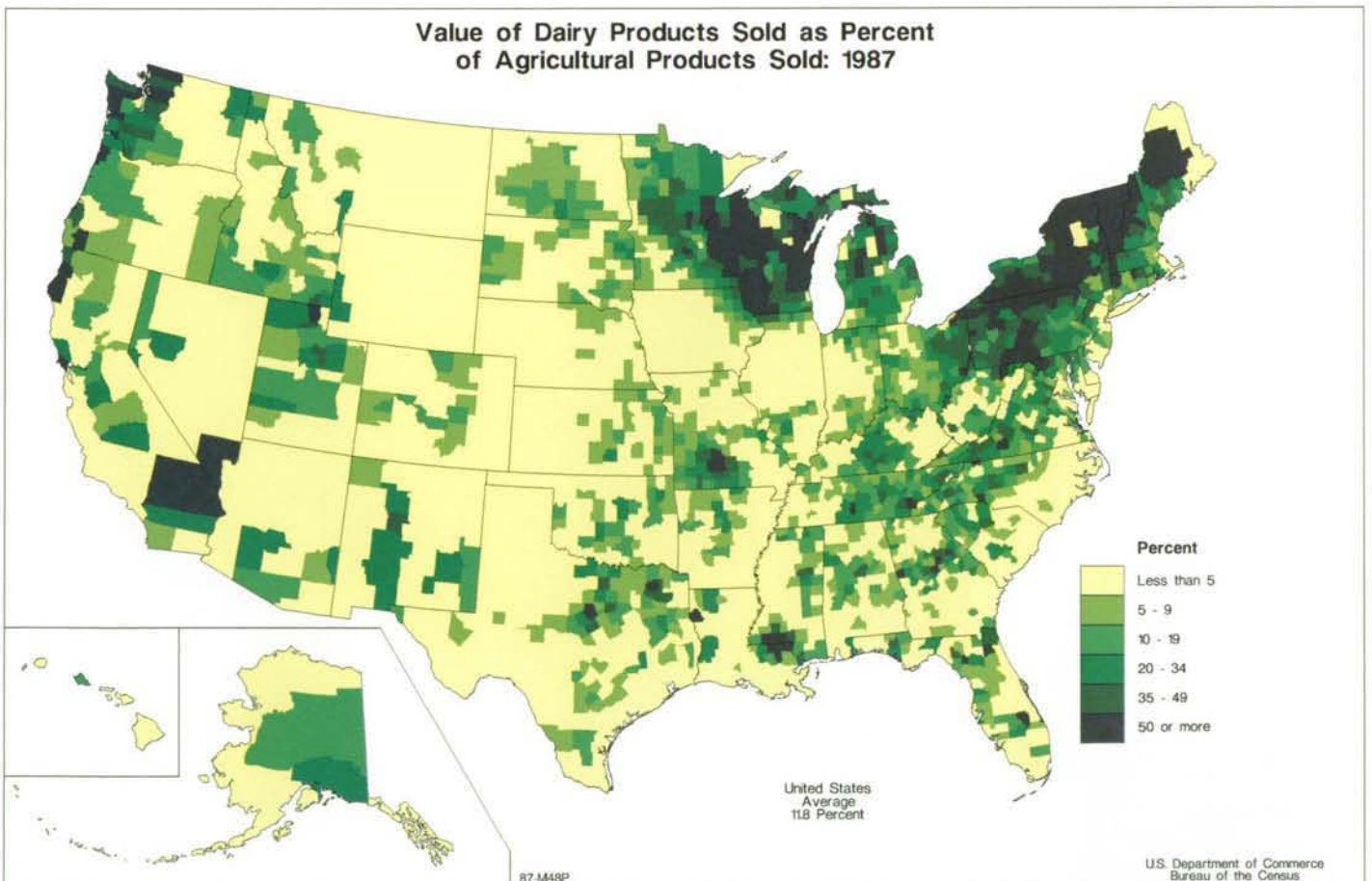




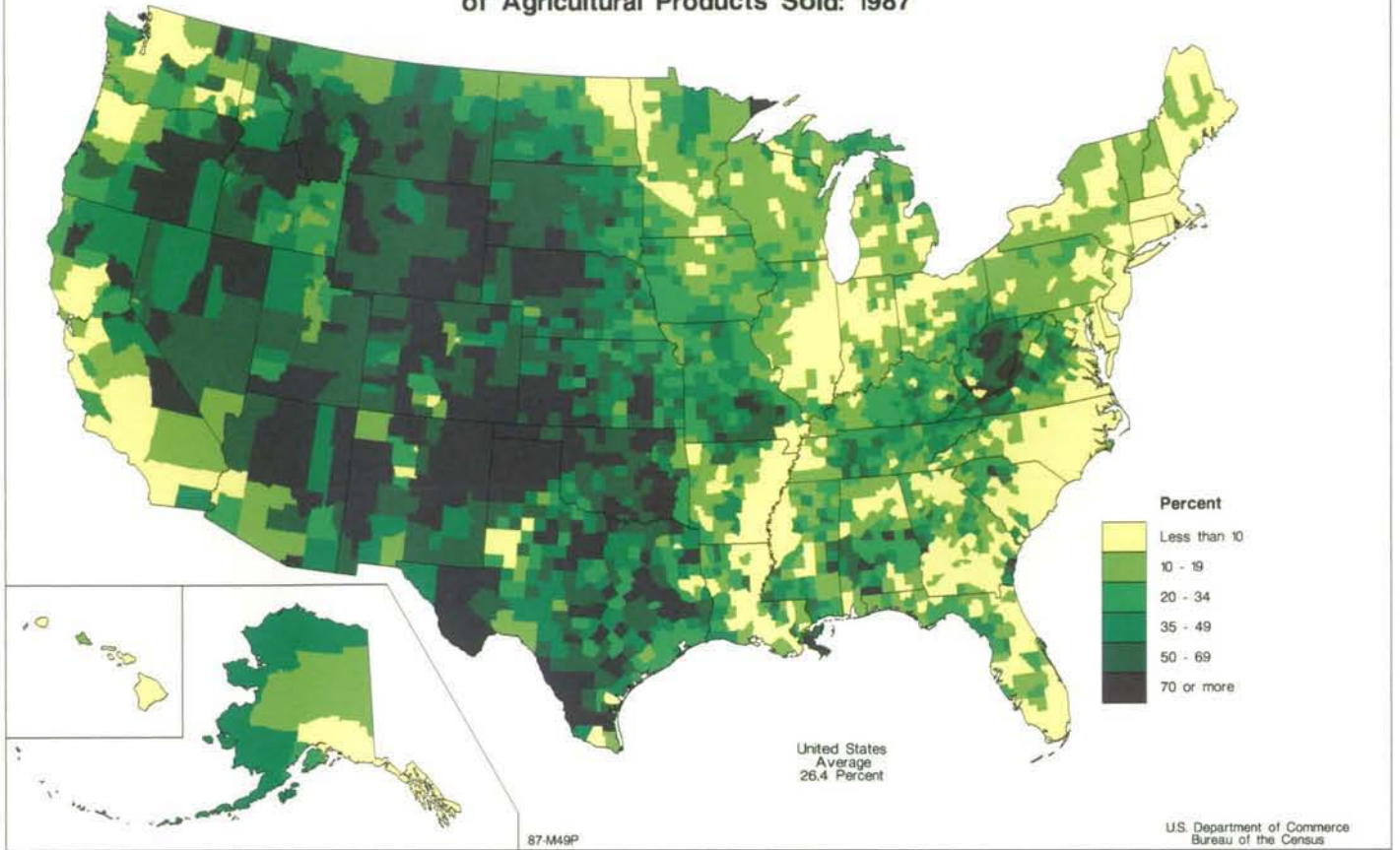
**Value of Poultry and Poultry Products Sold as Percent  
of Agricultural Products Sold: 1987**



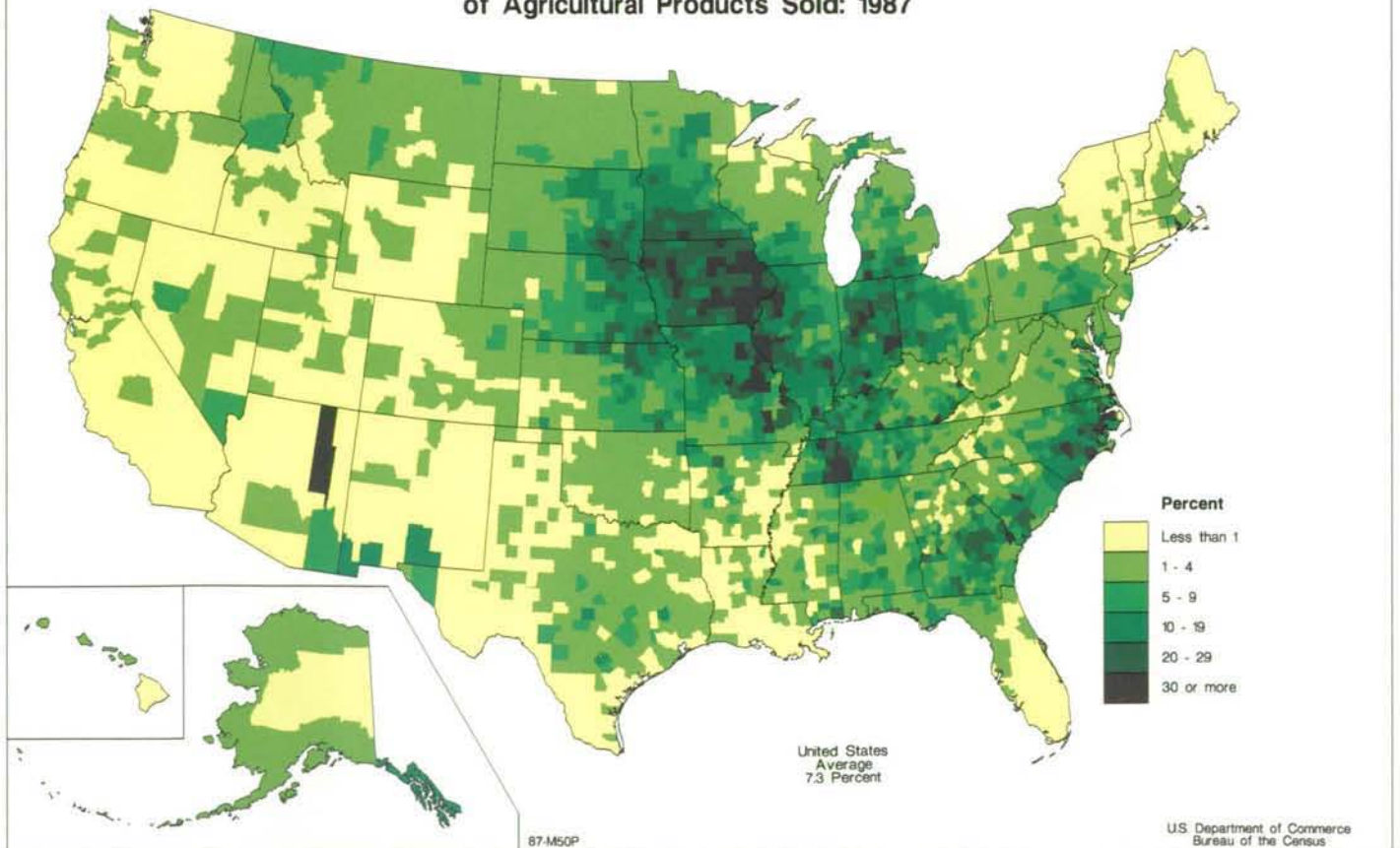
**Value of Dairy Products Sold as Percent  
of Agricultural Products Sold: 1987**



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

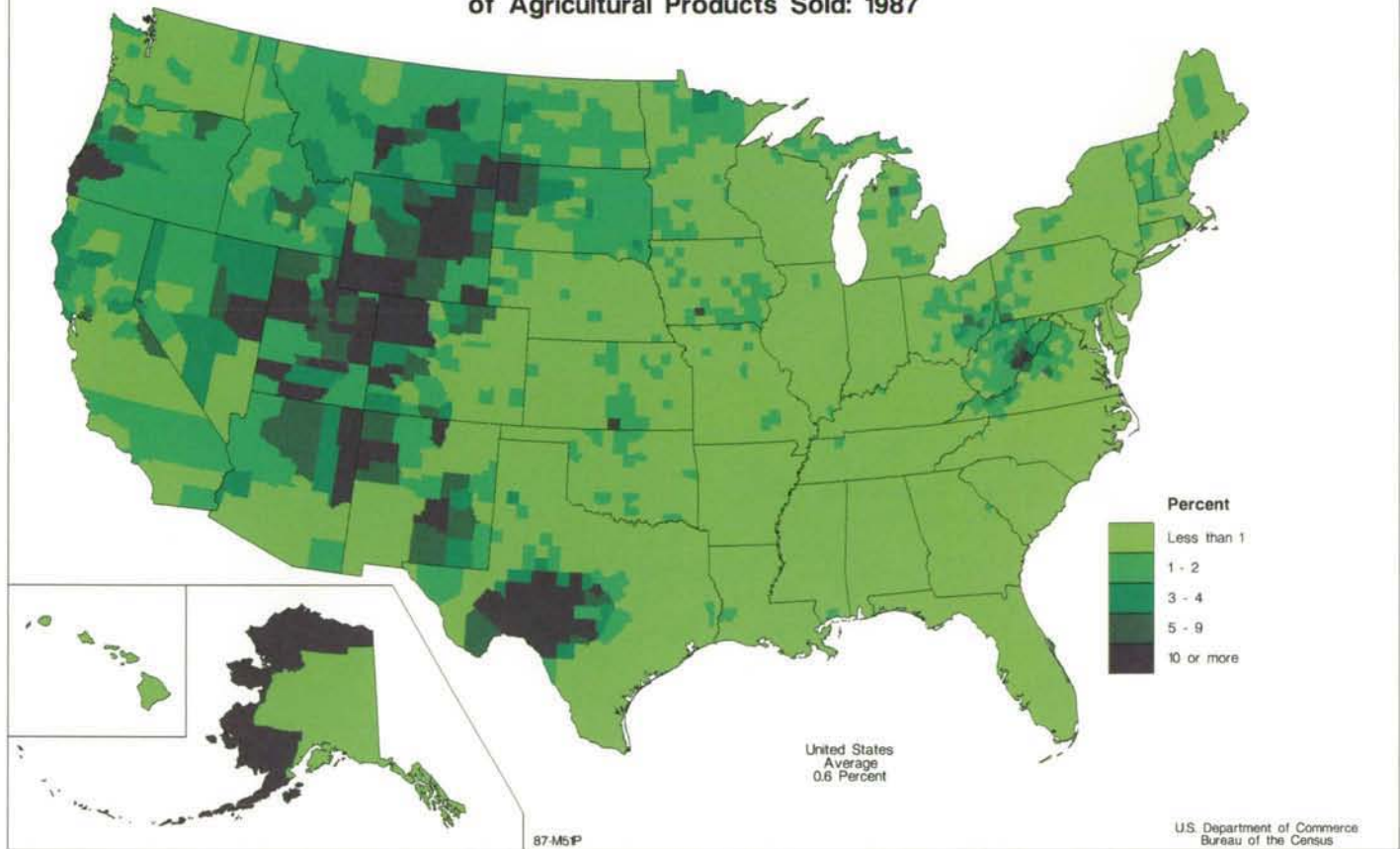


Value of Hogs and Pigs Sold as Percent  
of Agricultural Products Sold: 1987

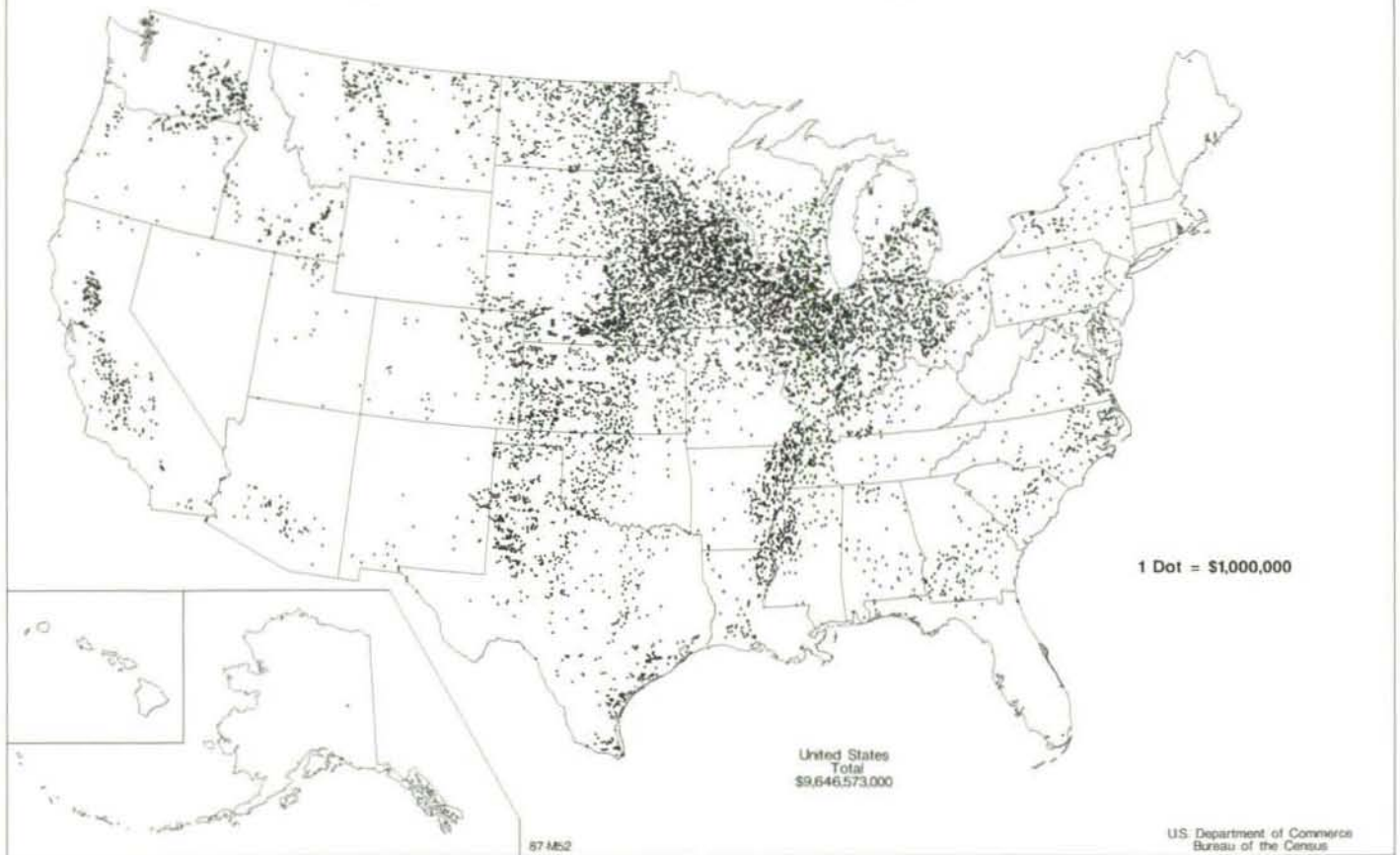




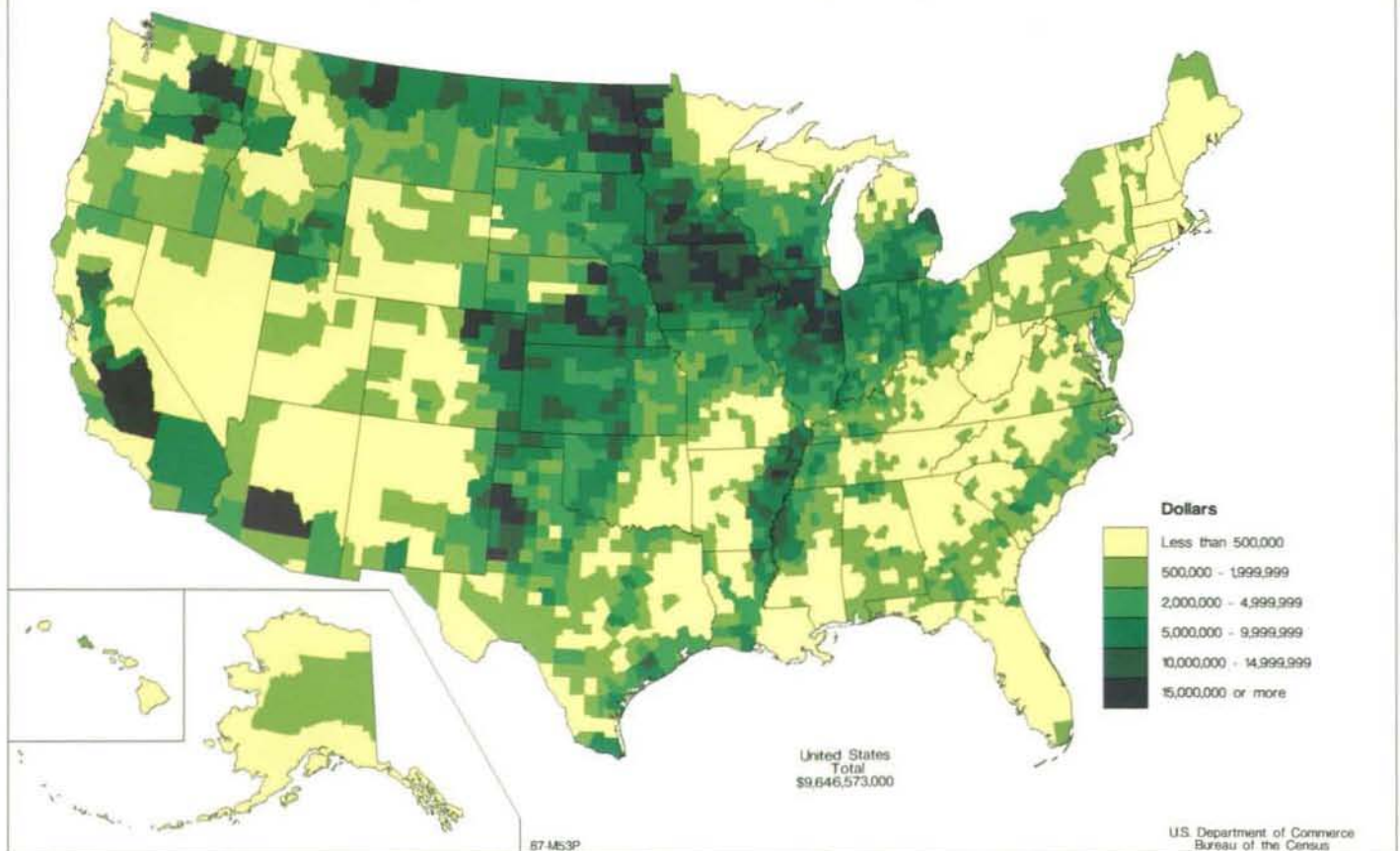
**Value of Sheep, Lambs, and Wool Sold as Percent  
of Agricultural Products Sold: 1987**



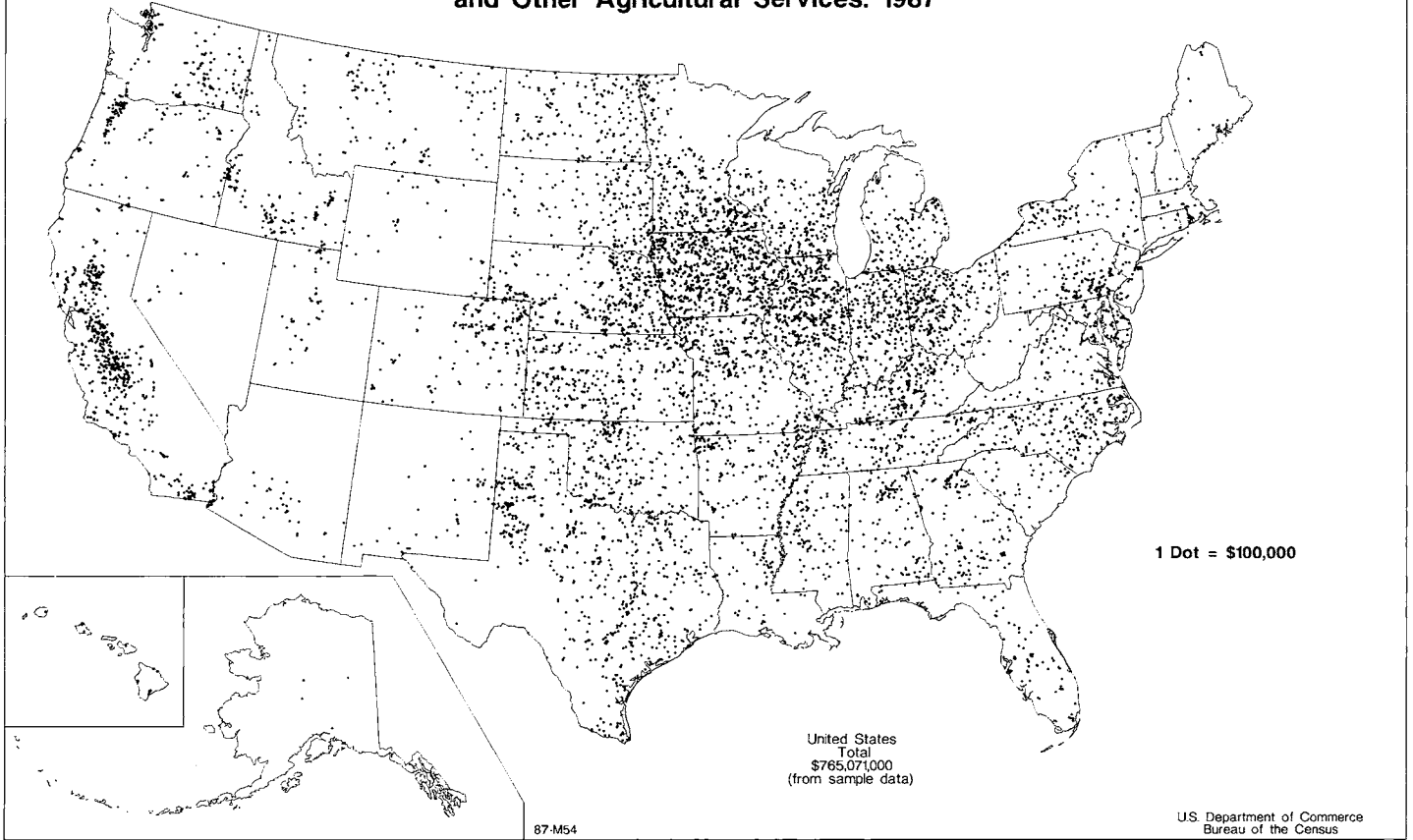
# Payments Received From Federal Farm Programs: 1987



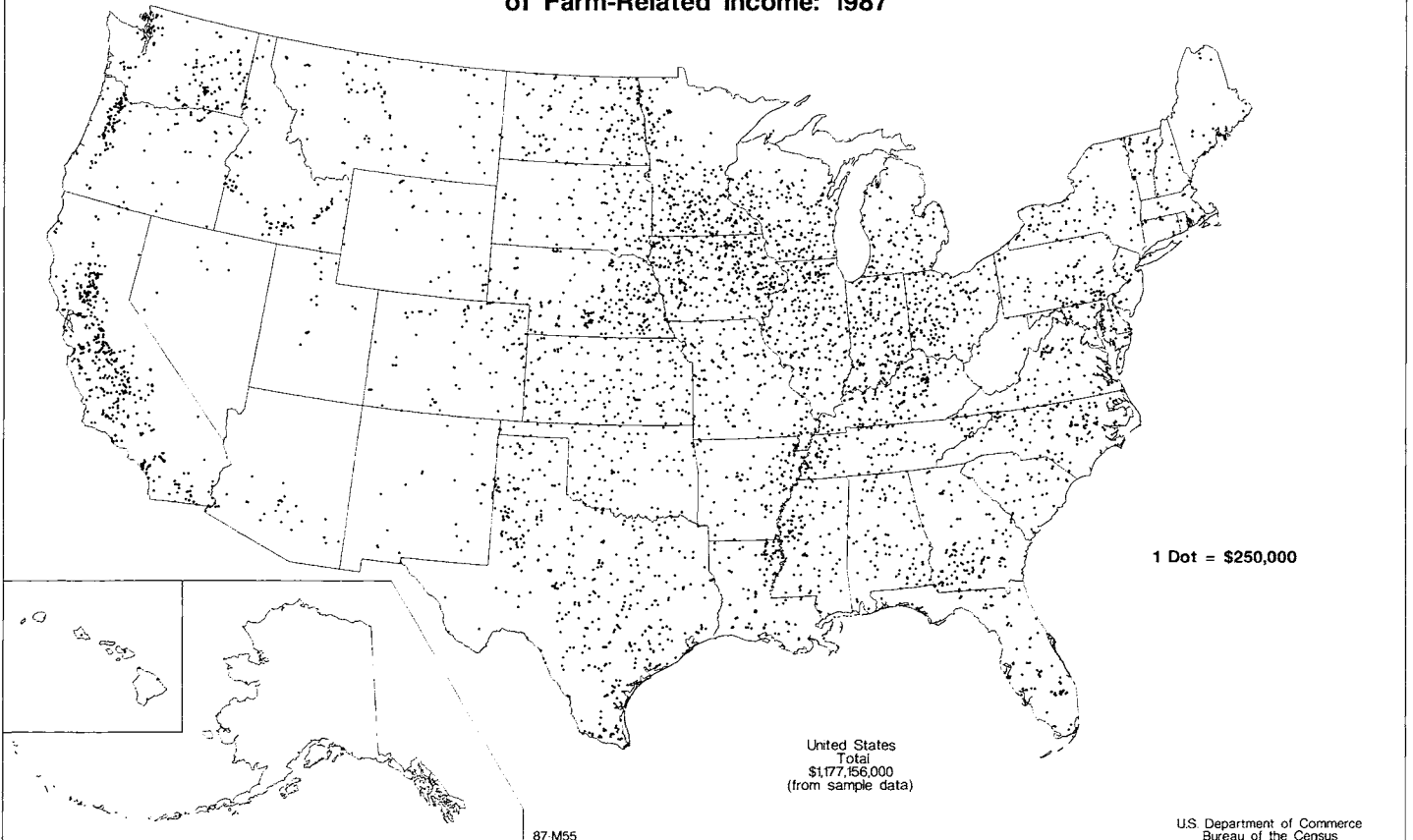
# Payments Received From Federal Farm Programs by County: 1987



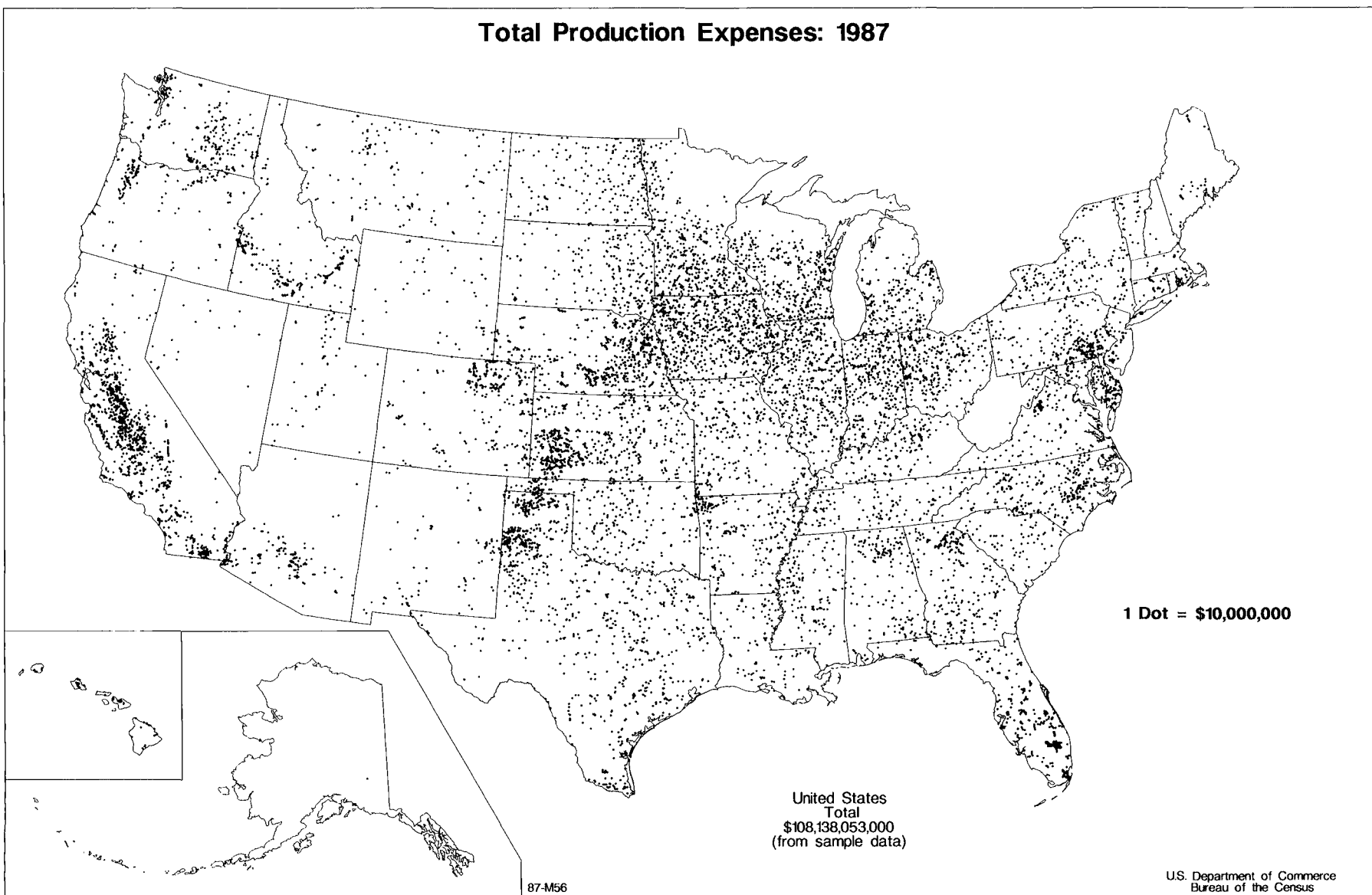
**Income From Machine Work, Customwork,  
and Other Agricultural Services: 1987**



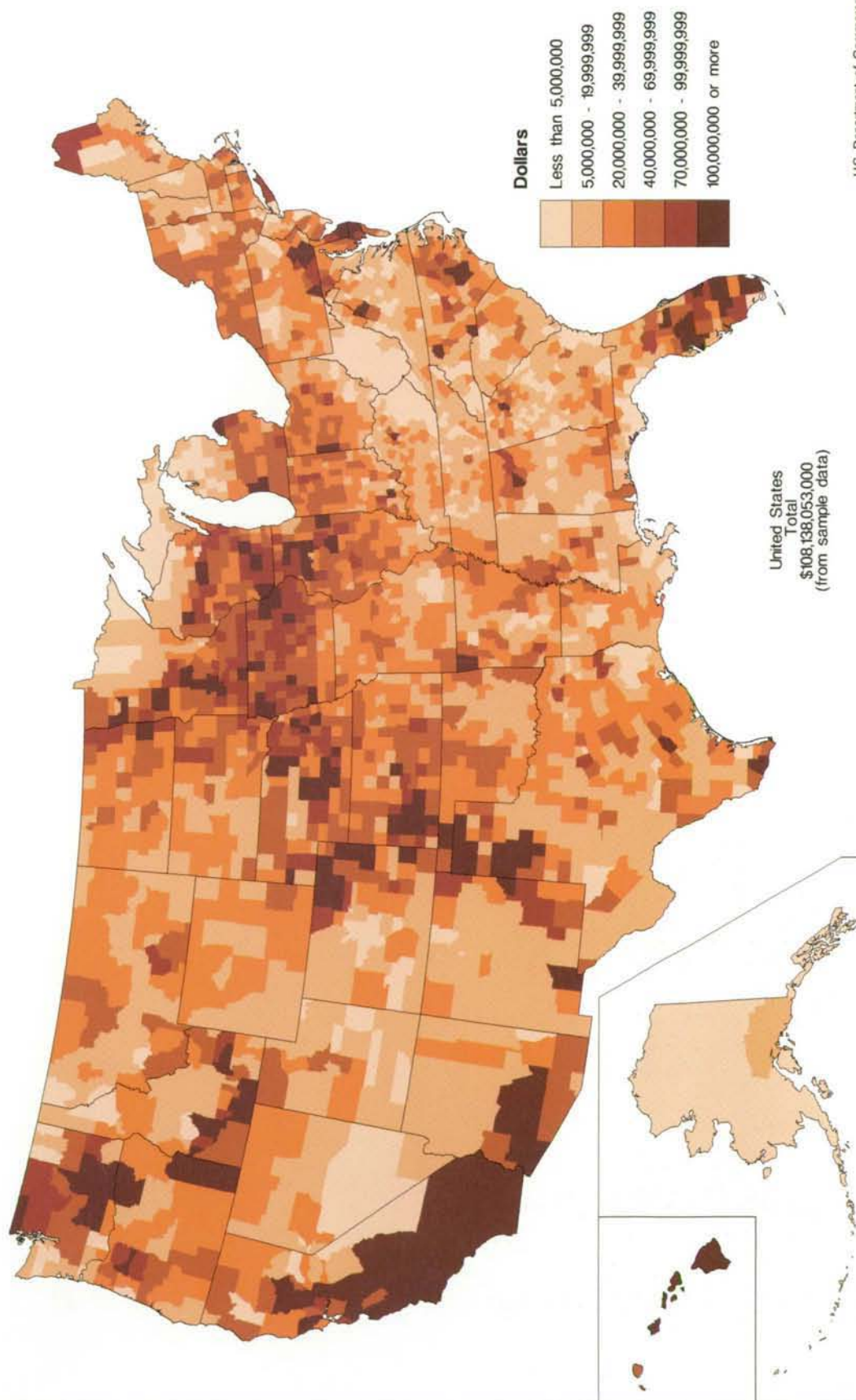
**Income From Rental of Farmland, Forest Products, and Other Sources  
of Farm-Related Income: 1987**



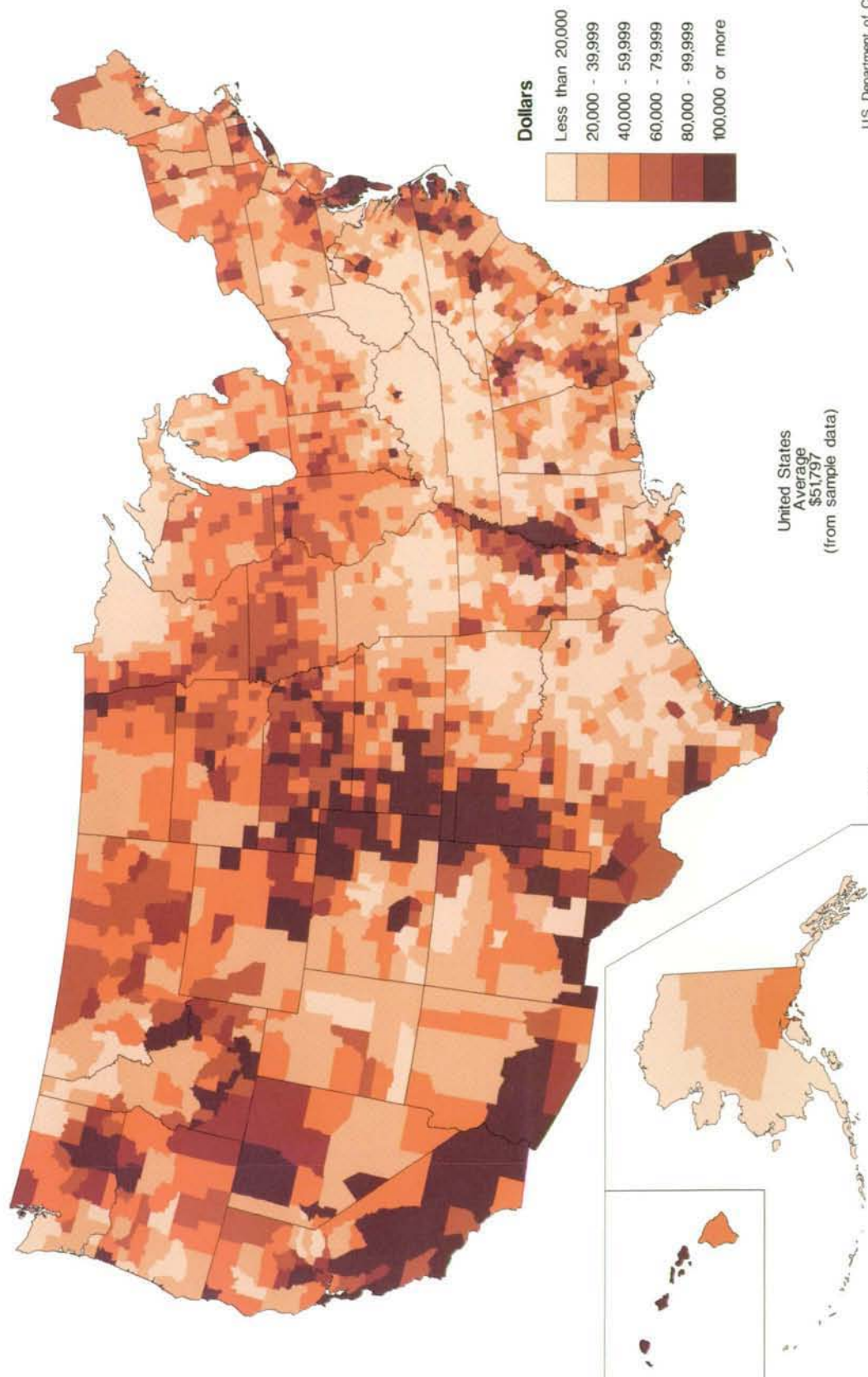




# Total Production Expenses by County: 1987

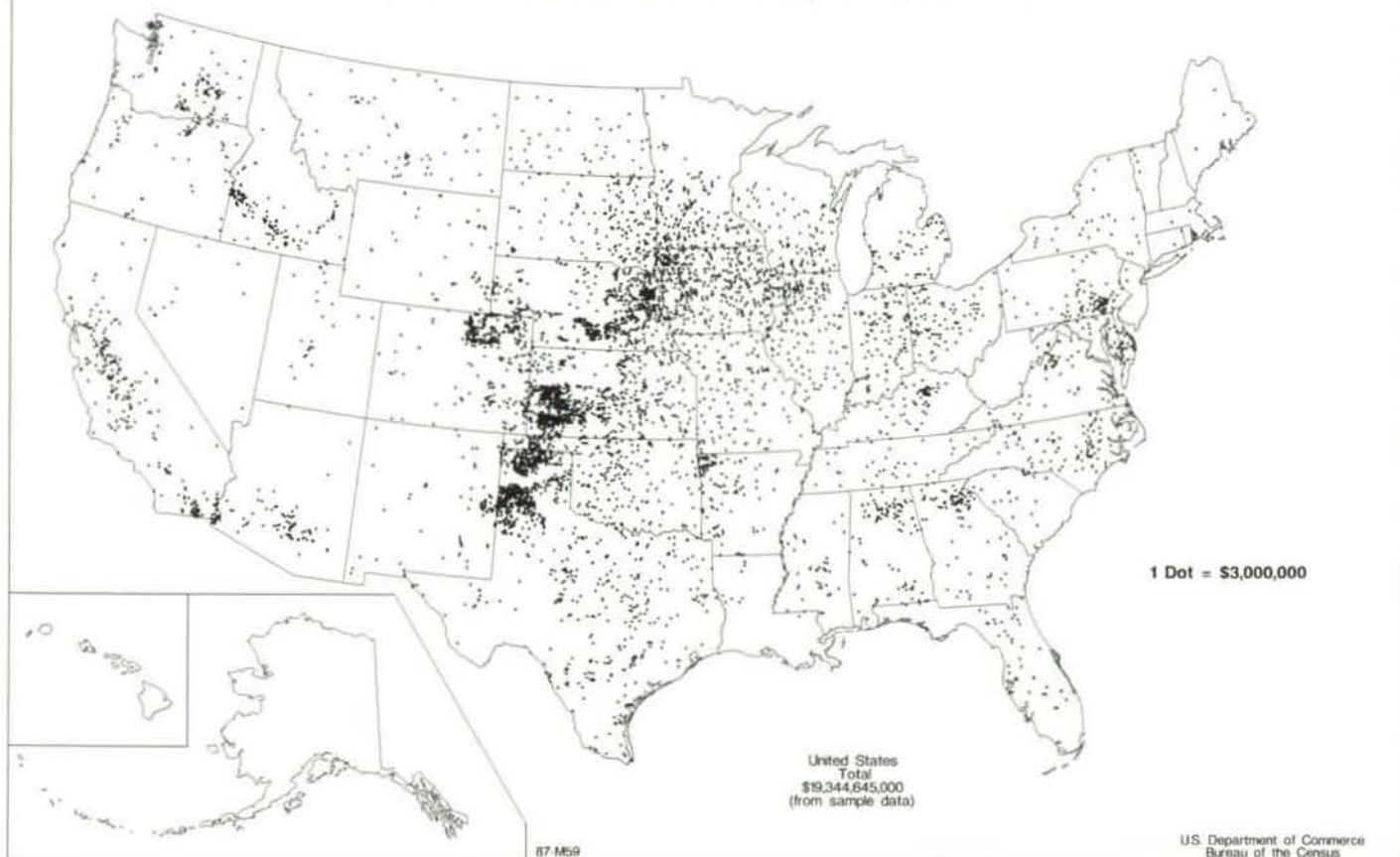


# Average Production Expenses Per Farm by County: 1987

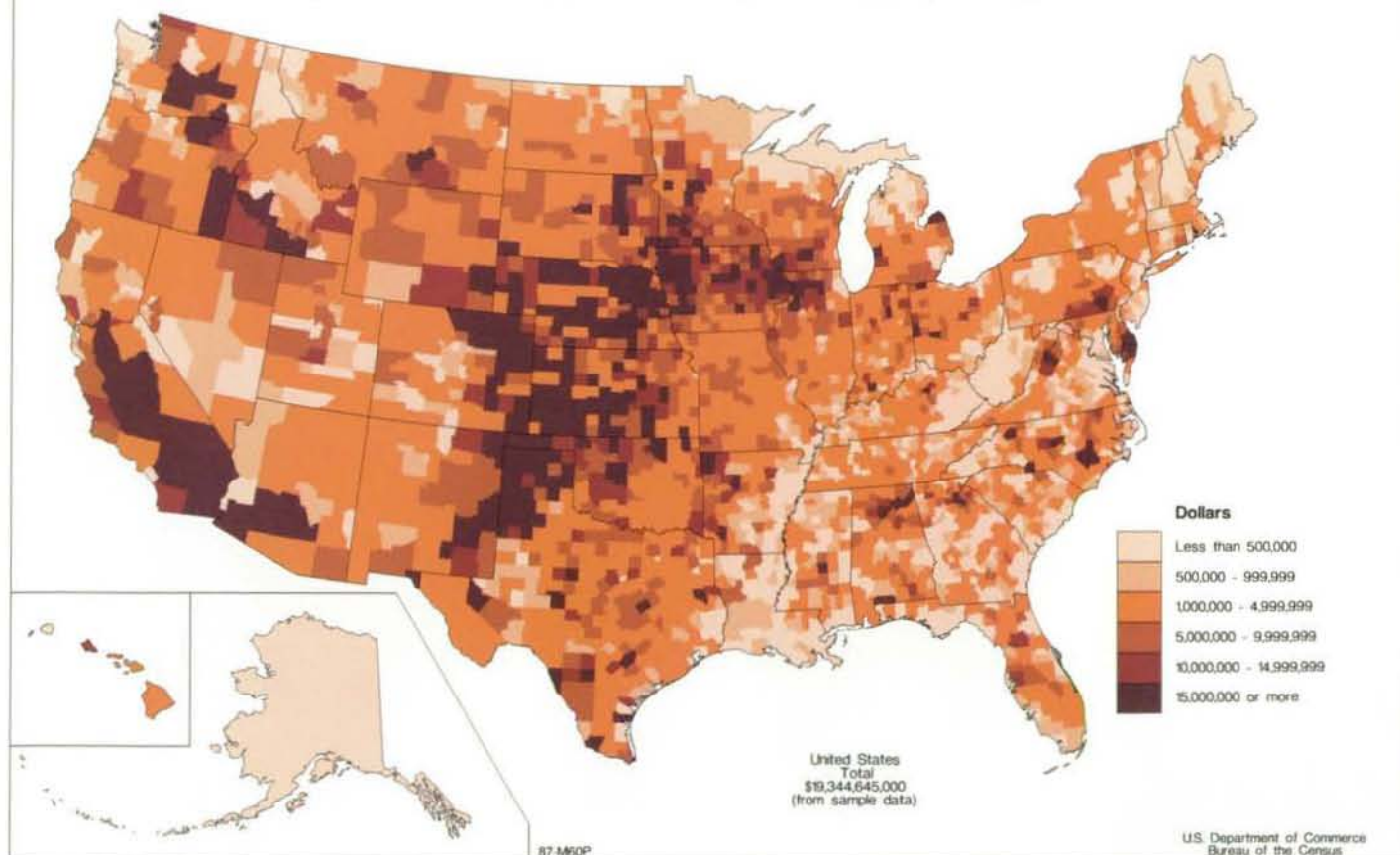




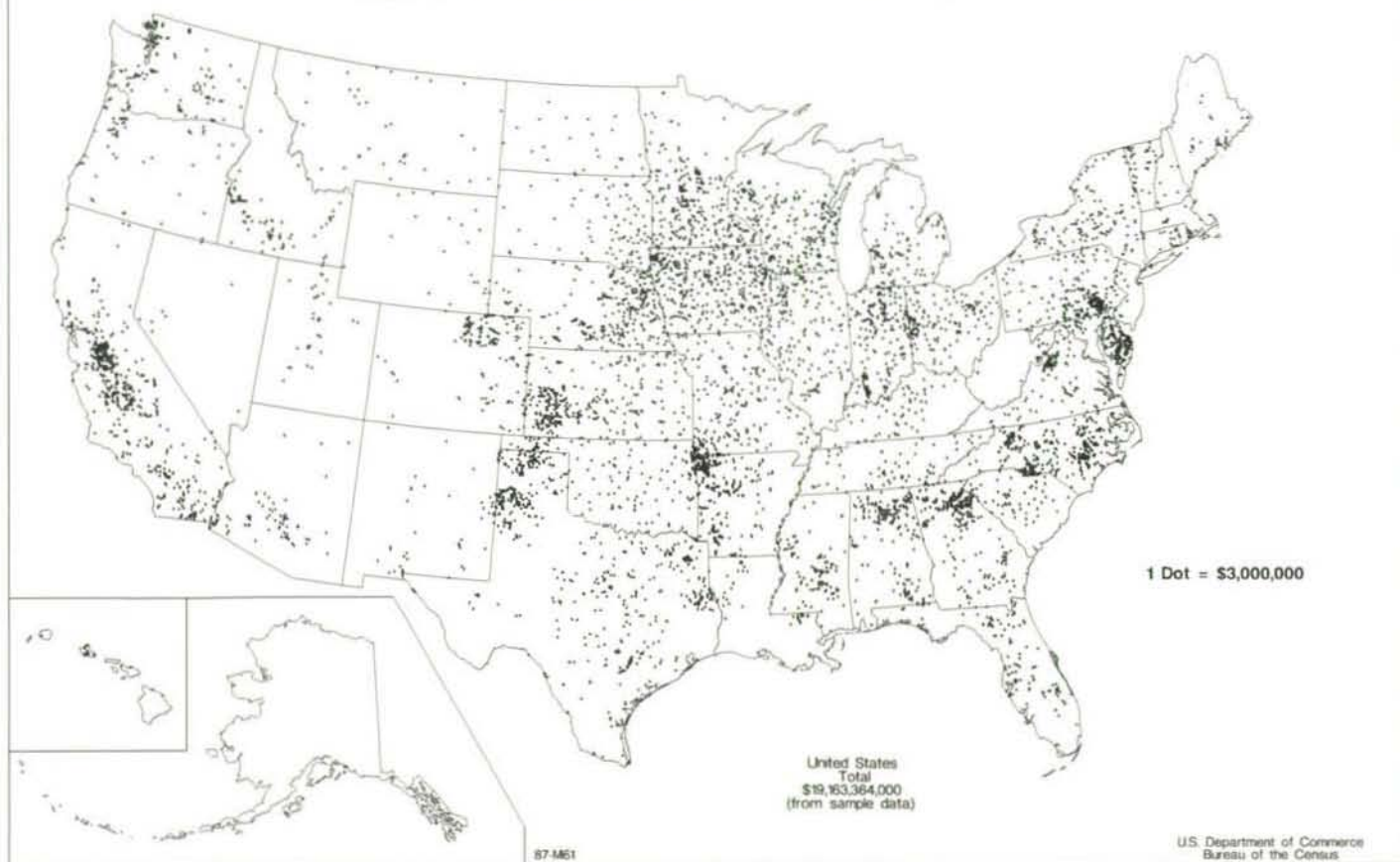
# Expenses for Livestock and Poultry Purchased: 1987



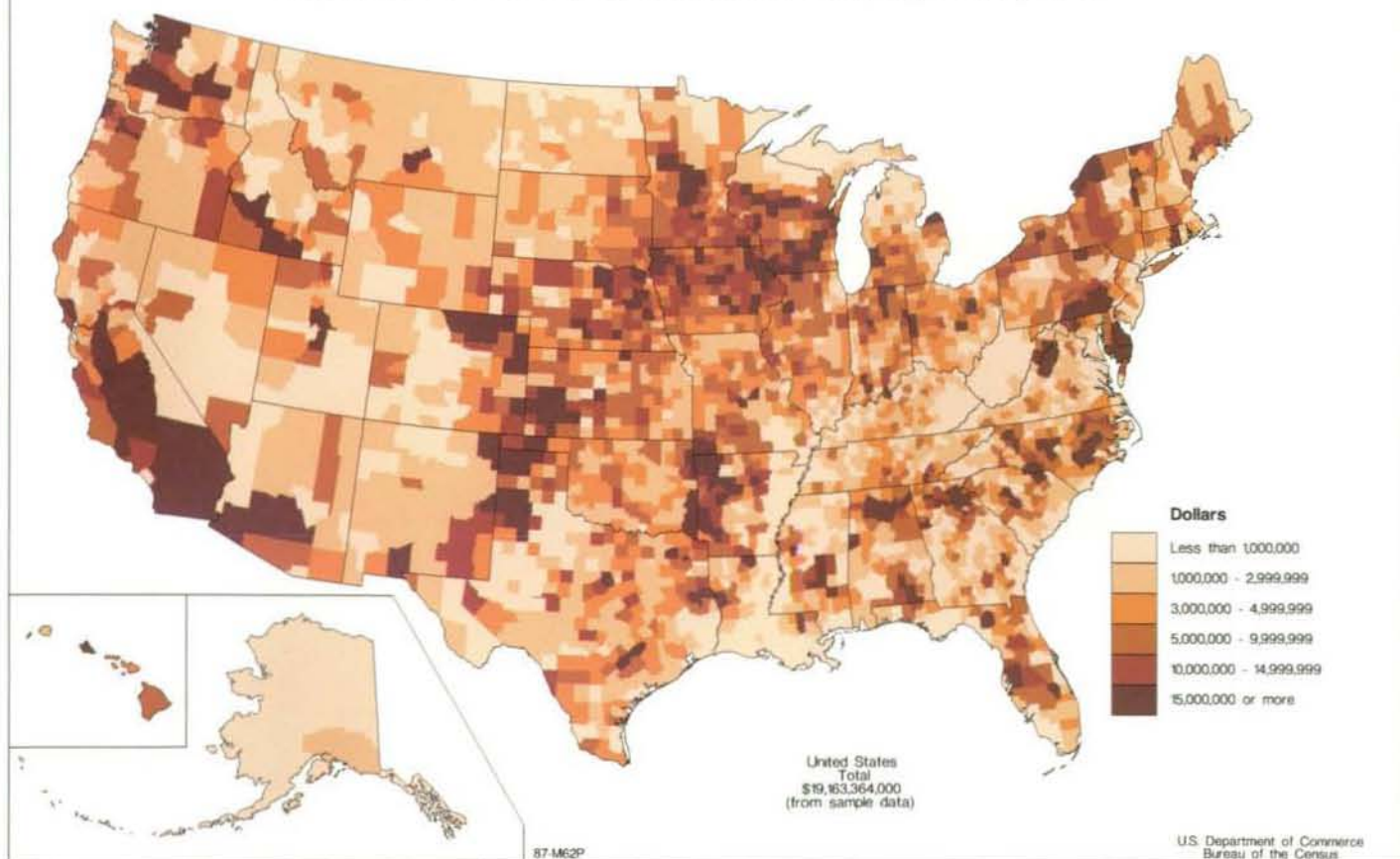
# Expenses for Livestock and Poultry Purchased by County: 1987



**Expenses for Feed for Livestock and Poultry: 1987**

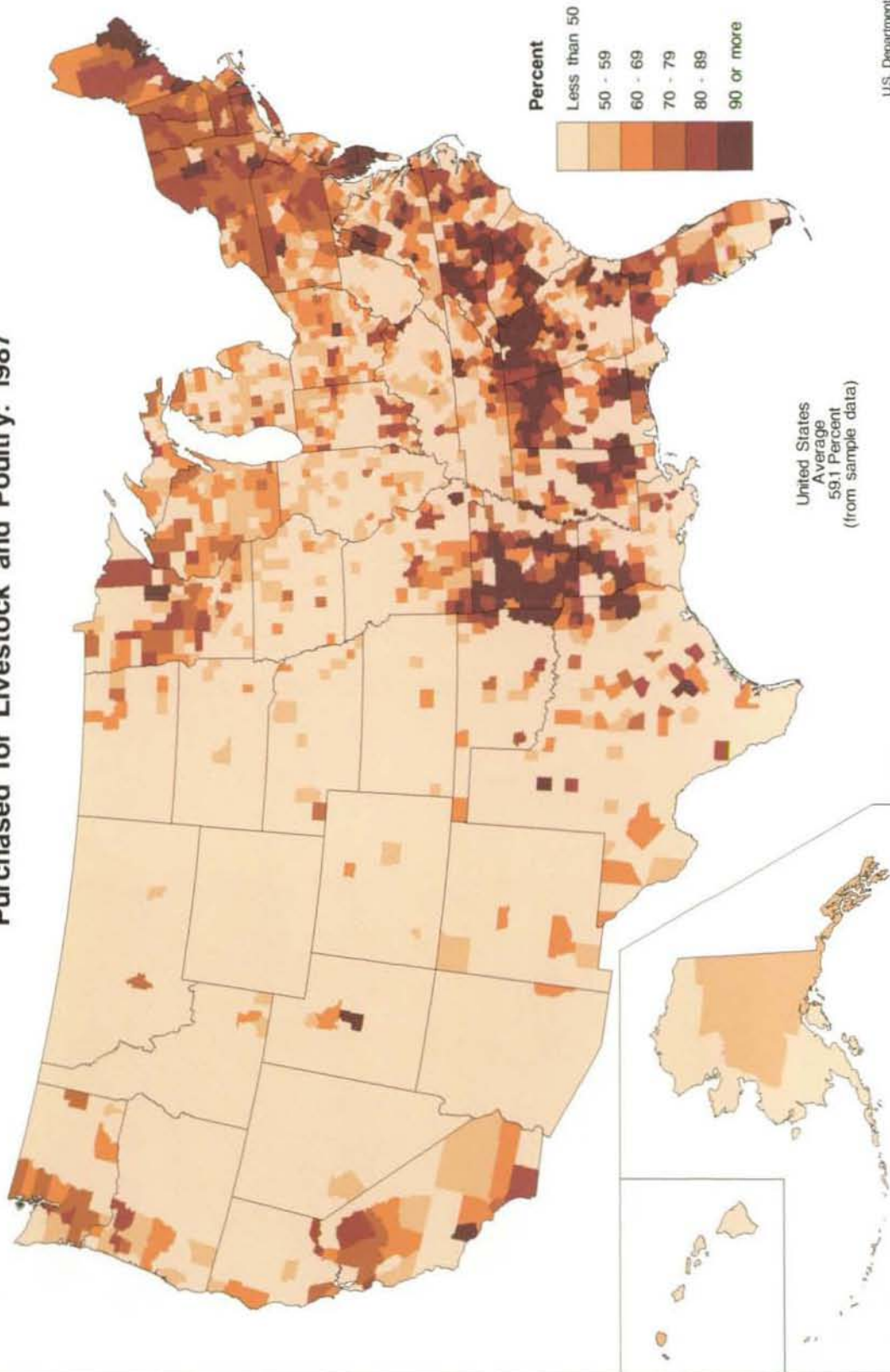


**Expenses for Feed for Livestock and Poultry by County: 1987**

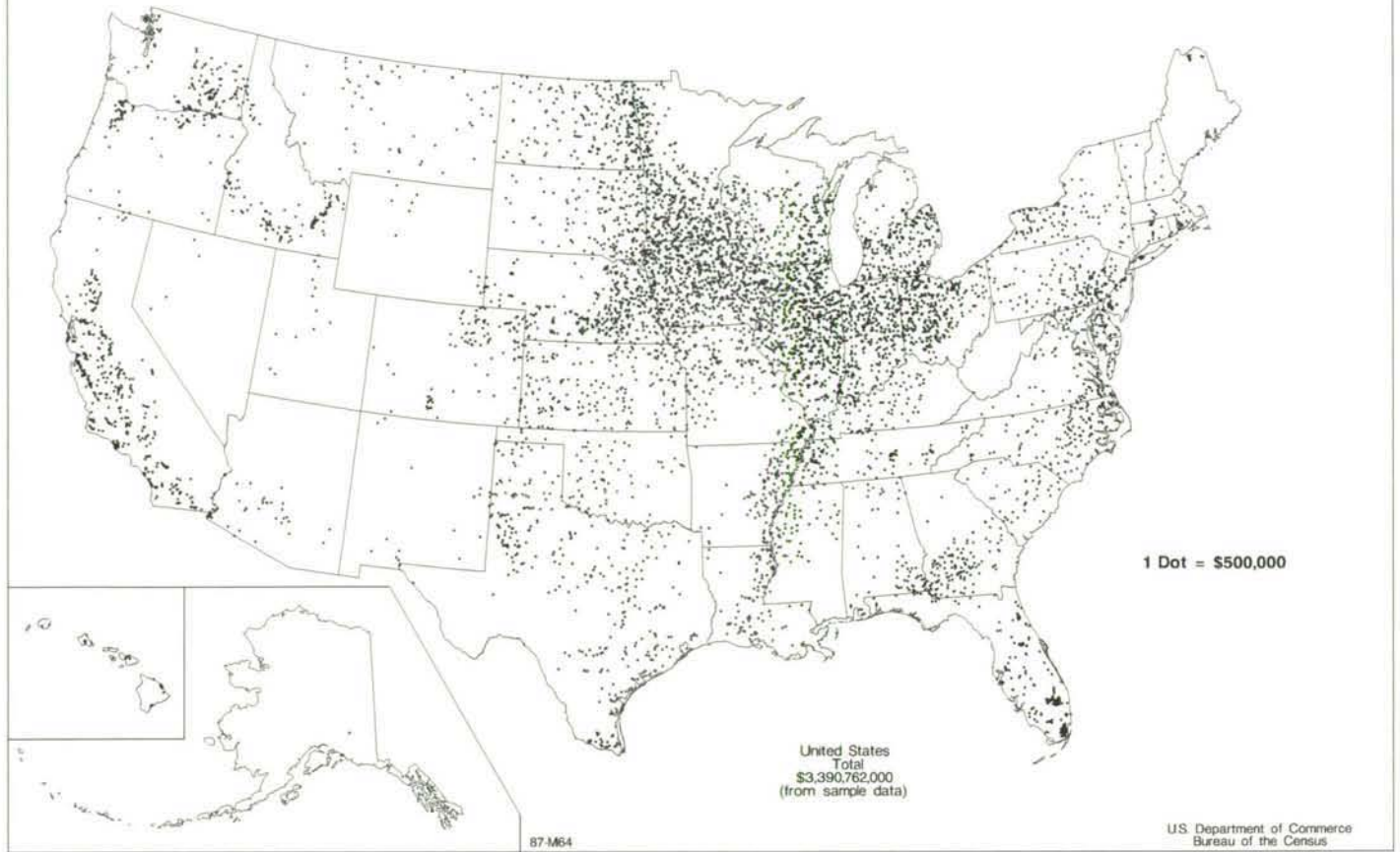




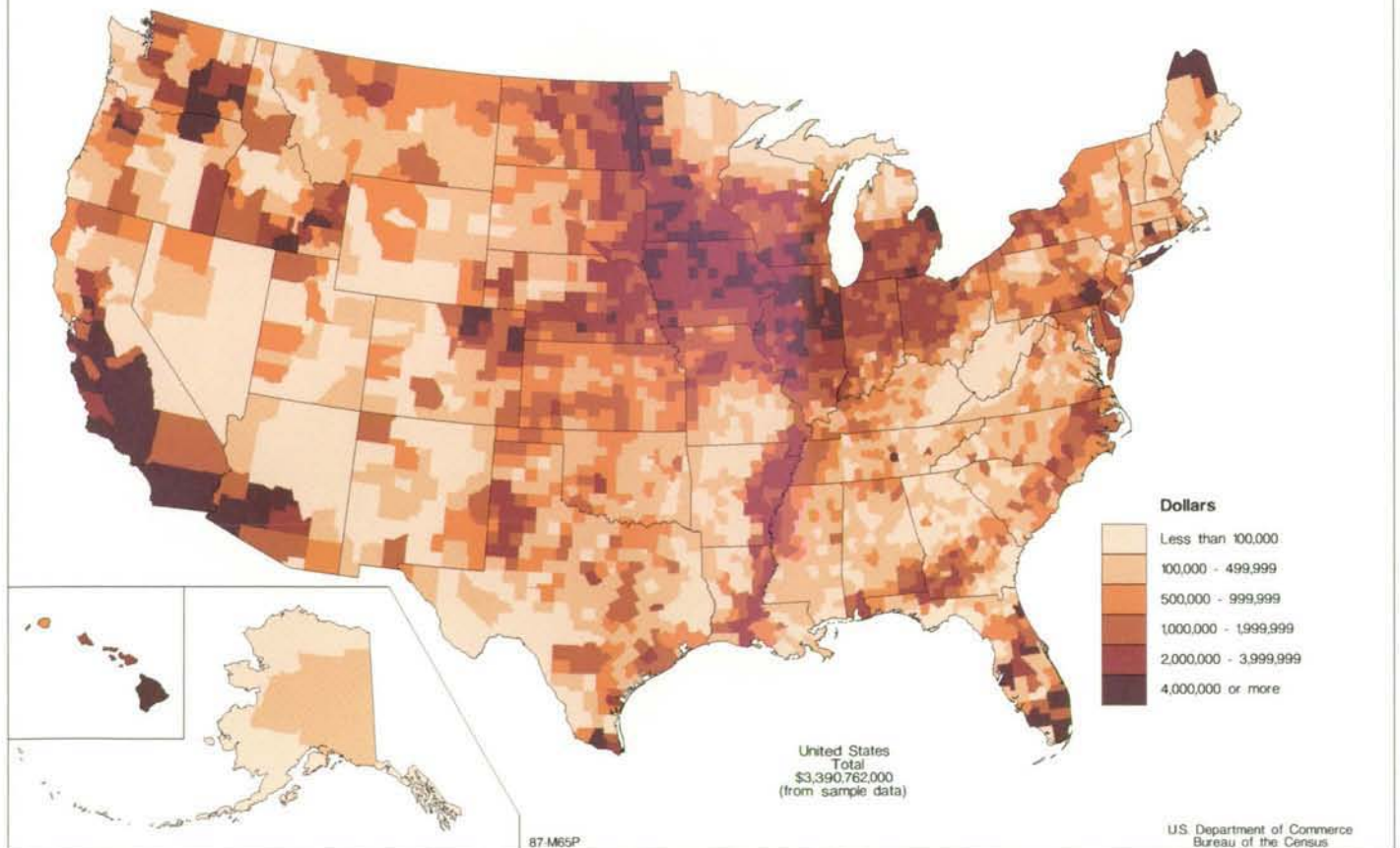
# Expenses for Commercially Mixed Formula Feeds as Percent of Feed Purchased for Livestock and Poultry: 1987



### Expenses for Seeds, Bulbs, Plants, and Trees: 1987

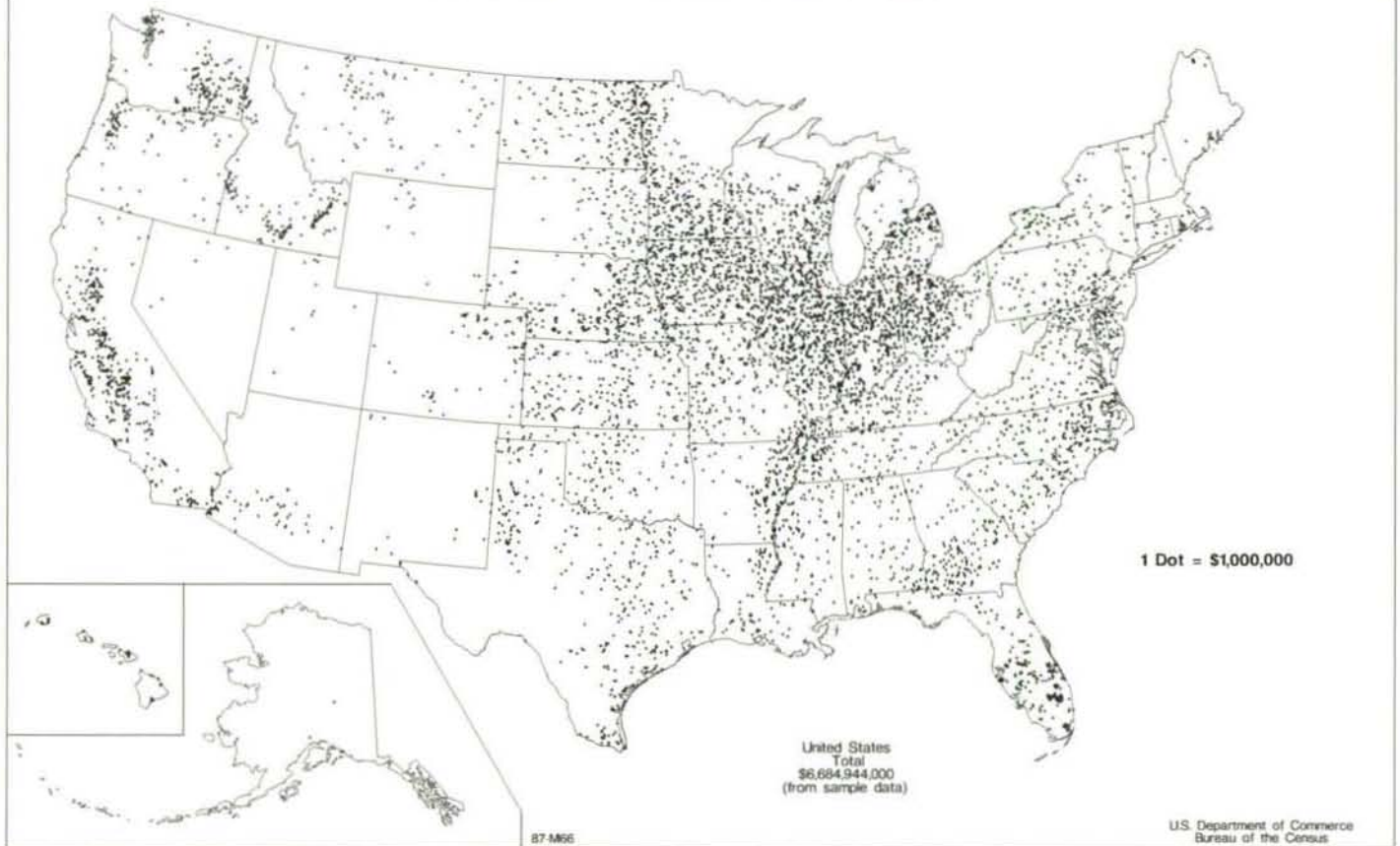


### Expenses for Seeds, Bulbs, Plants, and Trees by County: 1987

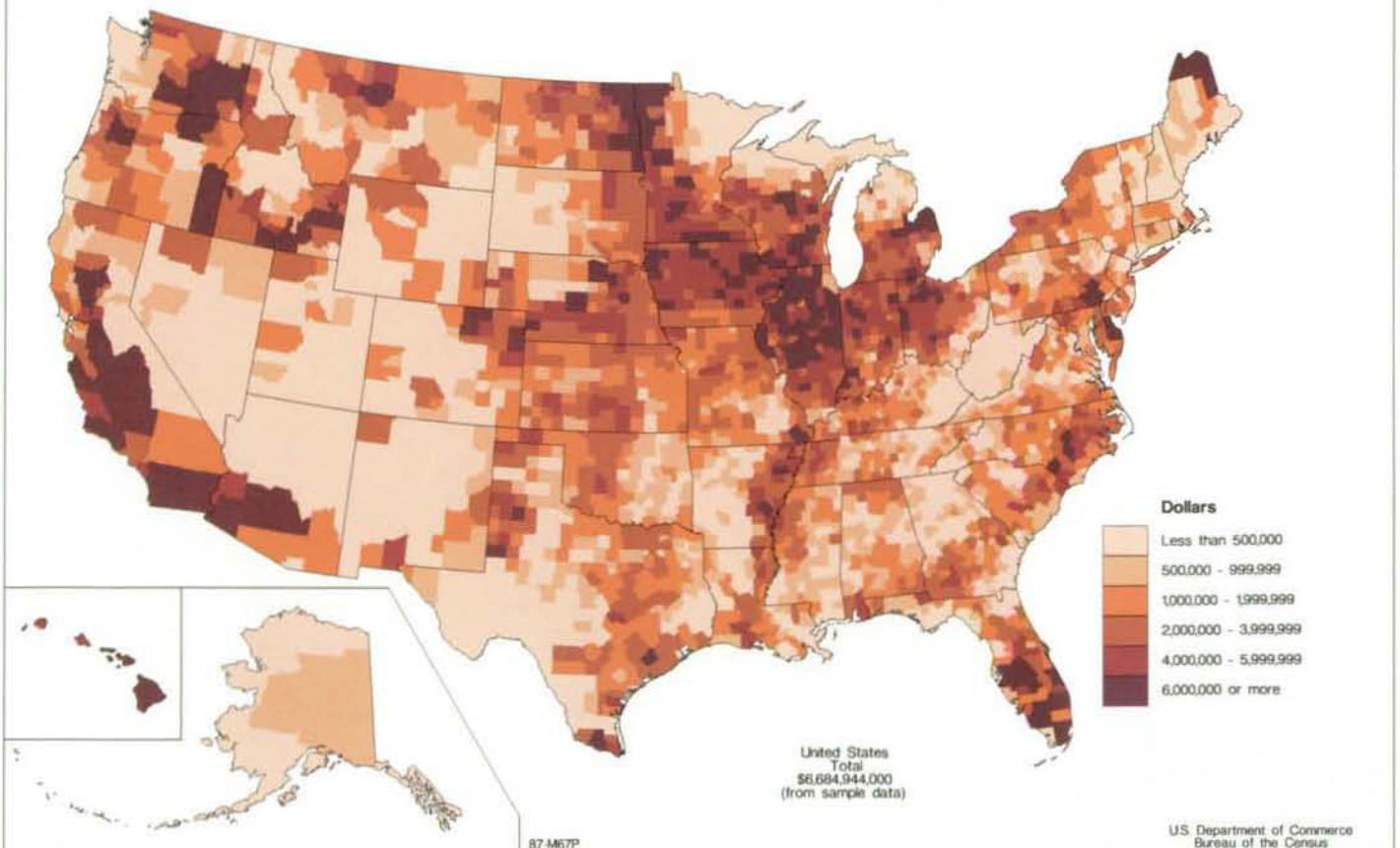




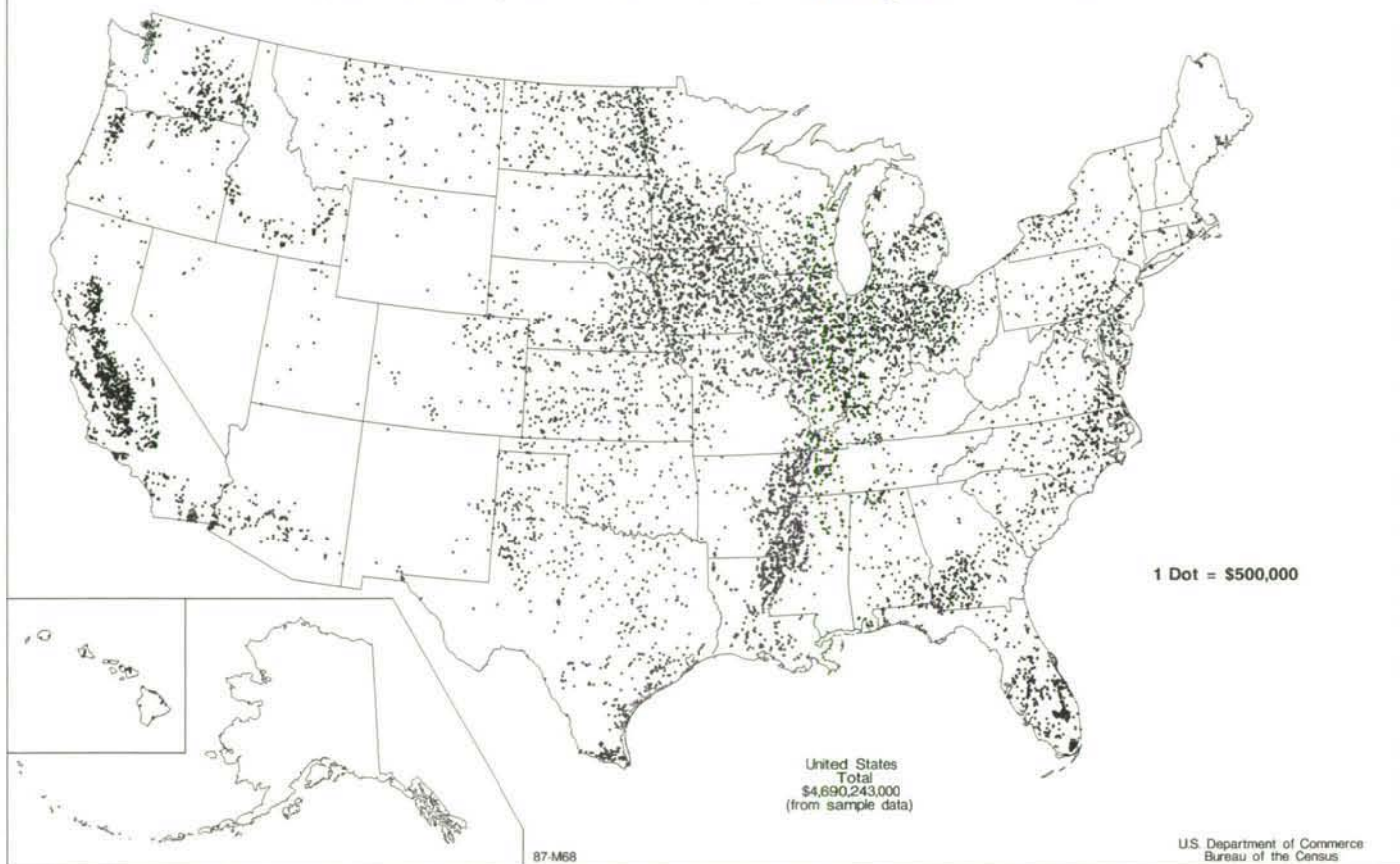
### Expenses for Commercial Fertilizer: 1987



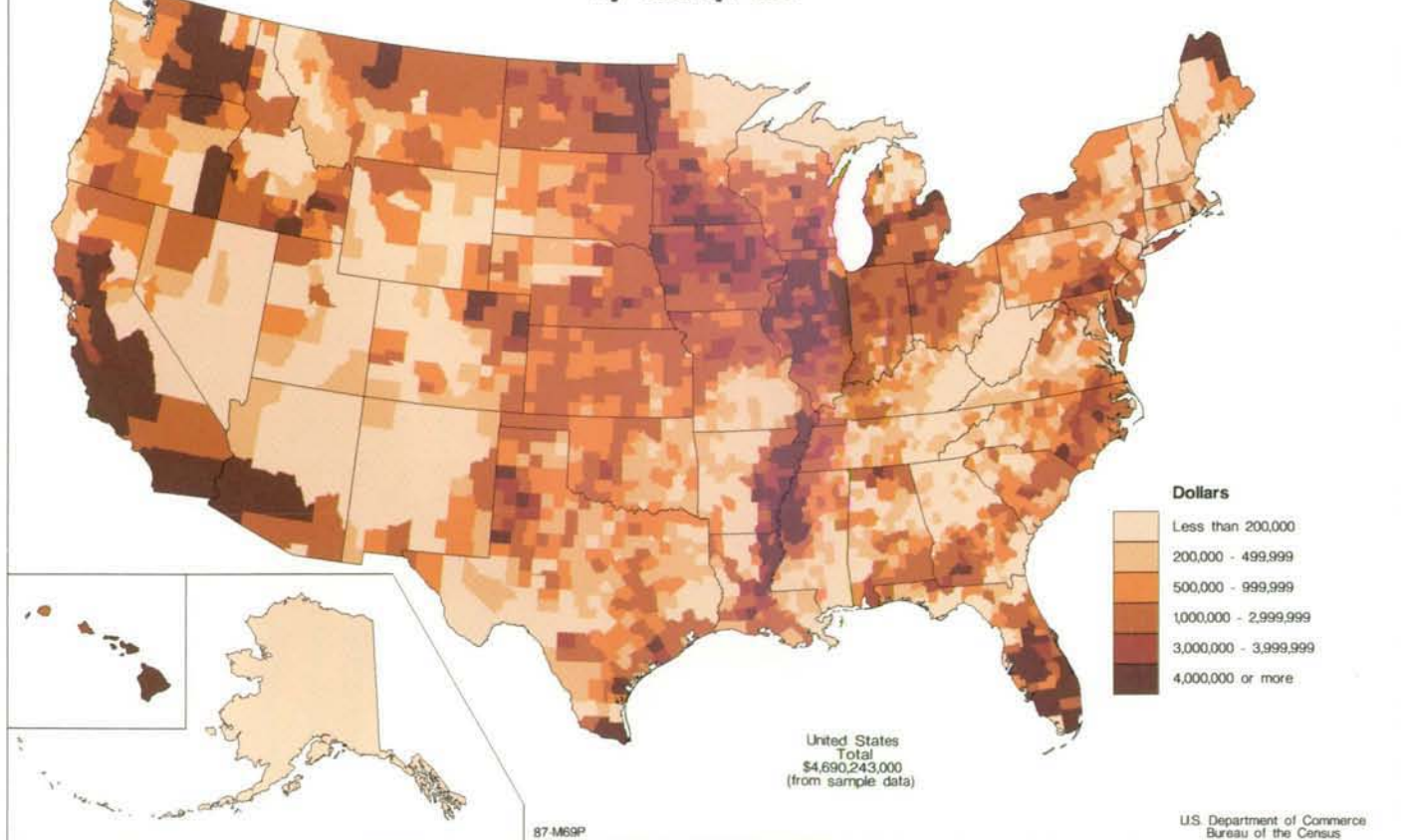
### Expenses for Commercial Fertilizer by County: 1987

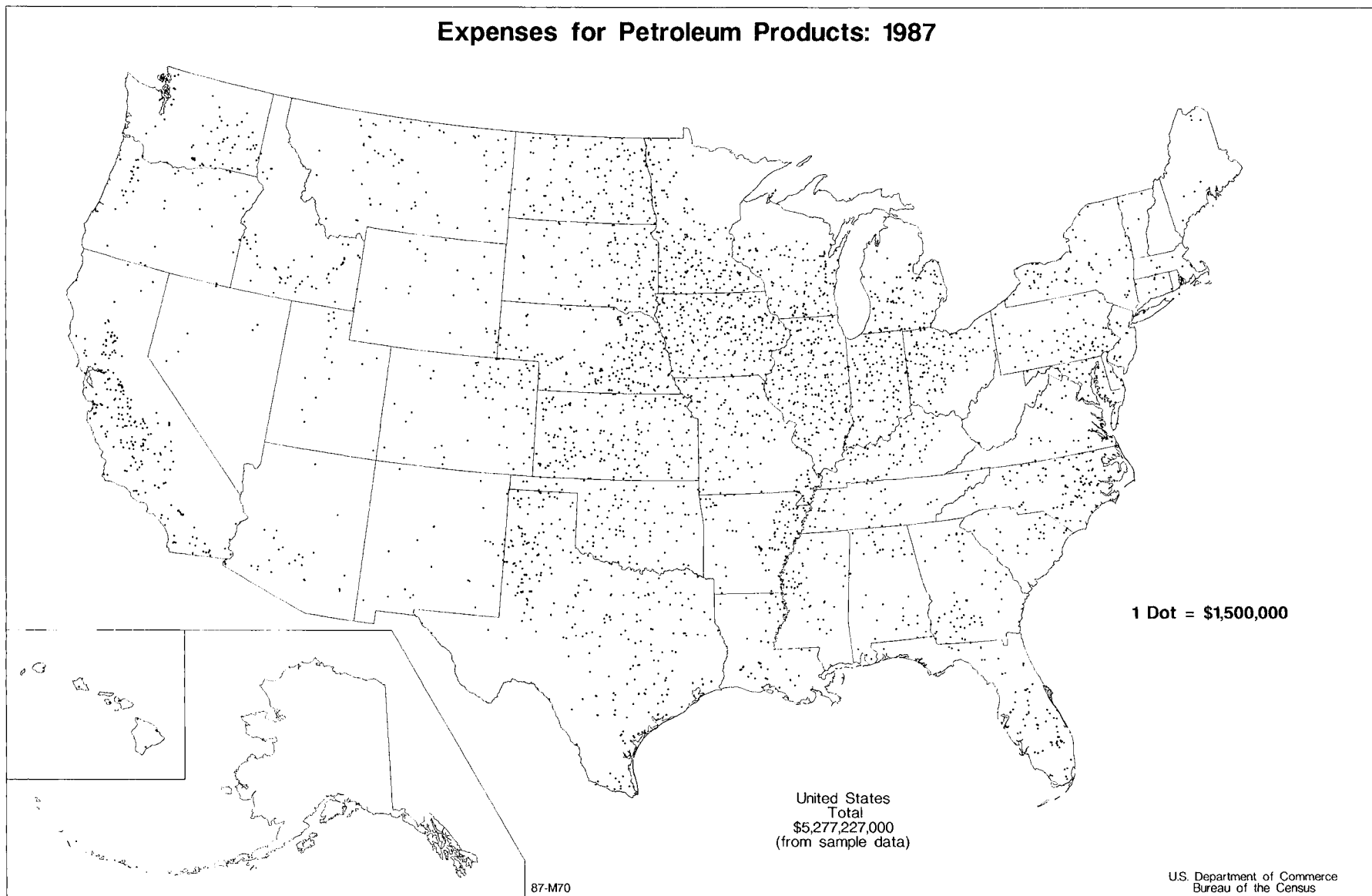


# Expenses for Agricultural Chemicals, Excluding Fertilizer: 1987



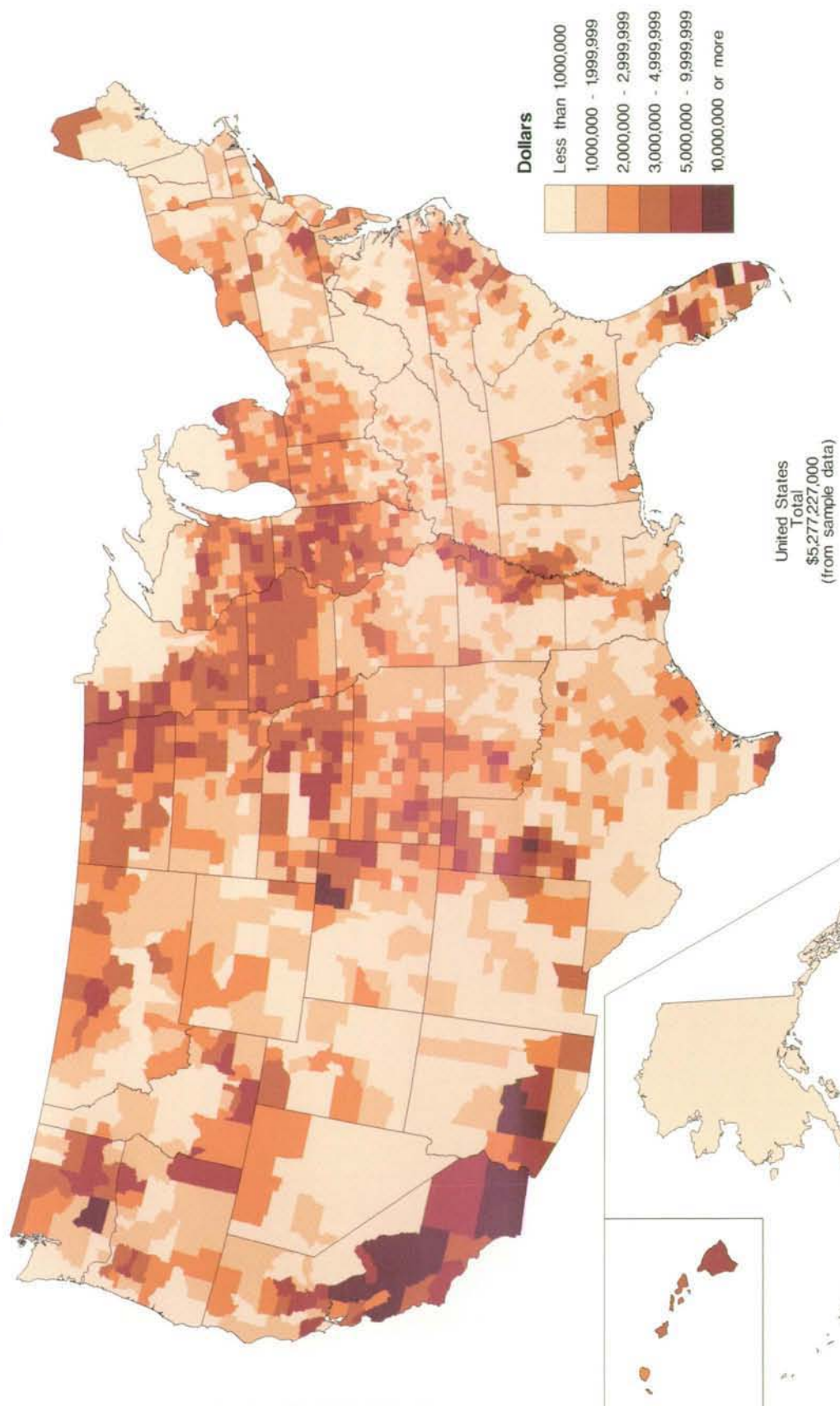
## Expenses for Agricultural Chemicals, Excluding Fertilizer, by County: 1987





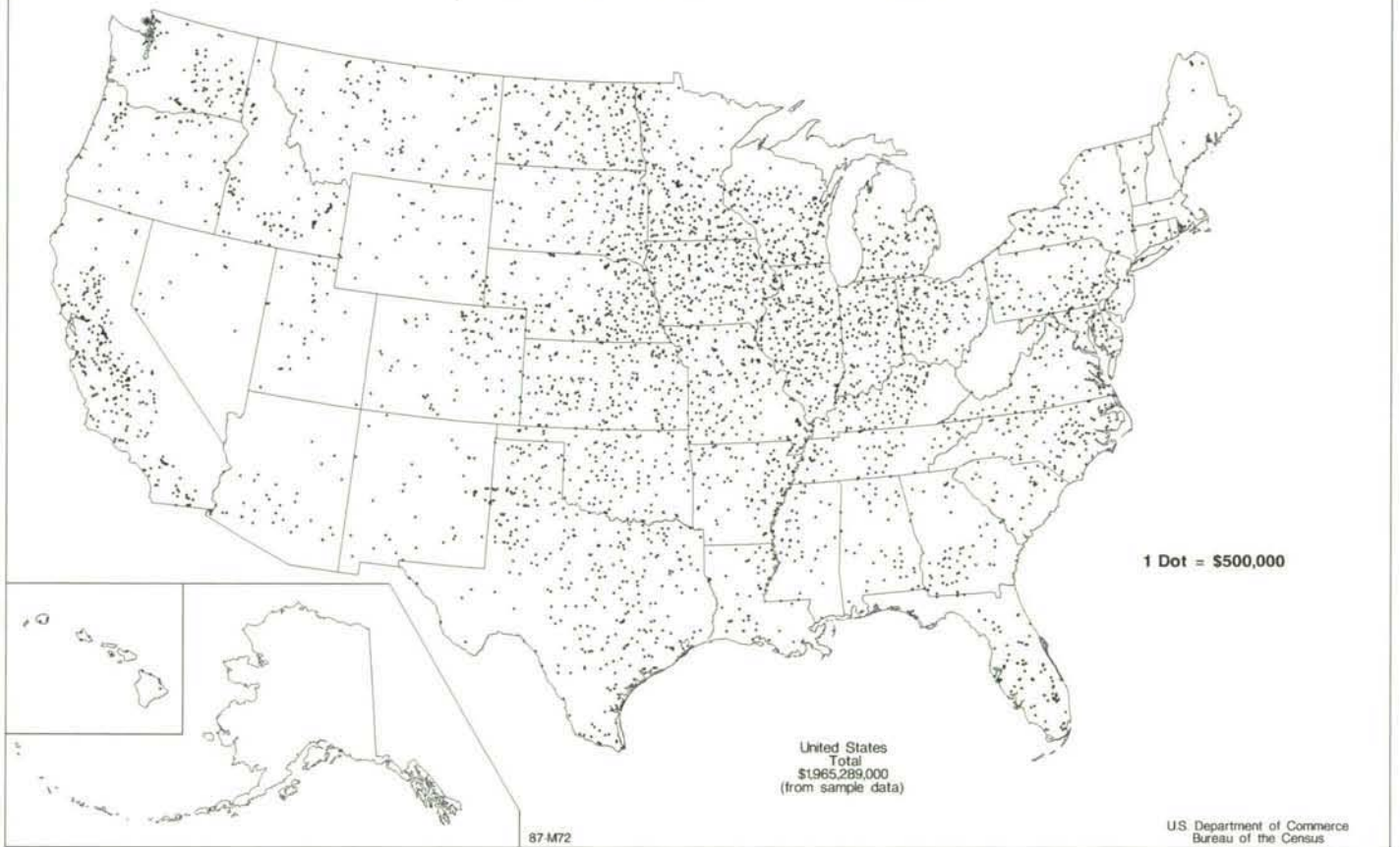


# Expenses for Petroleum Products by County: 1987

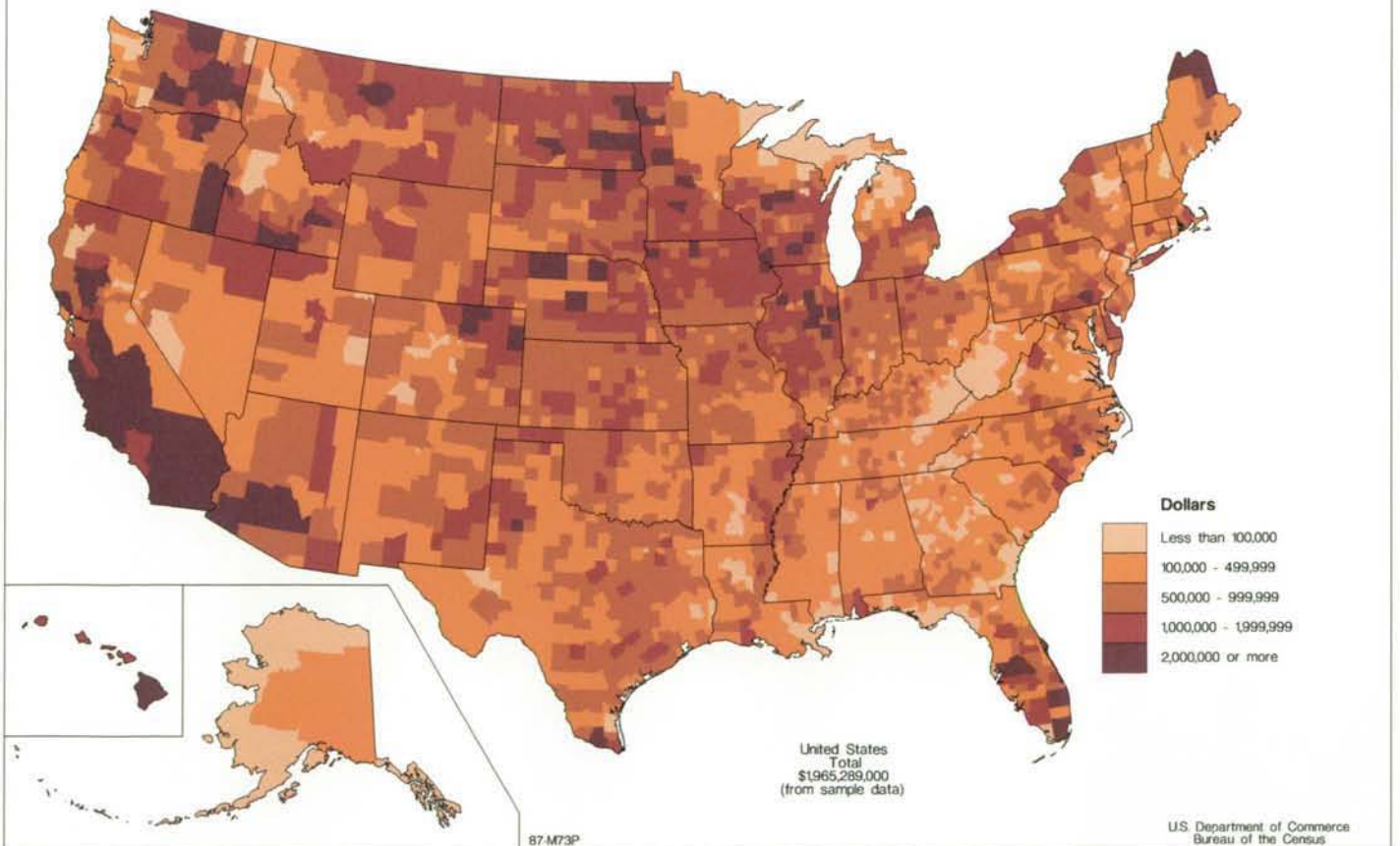


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### Expenses for Gasoline and Gasohol: 1987

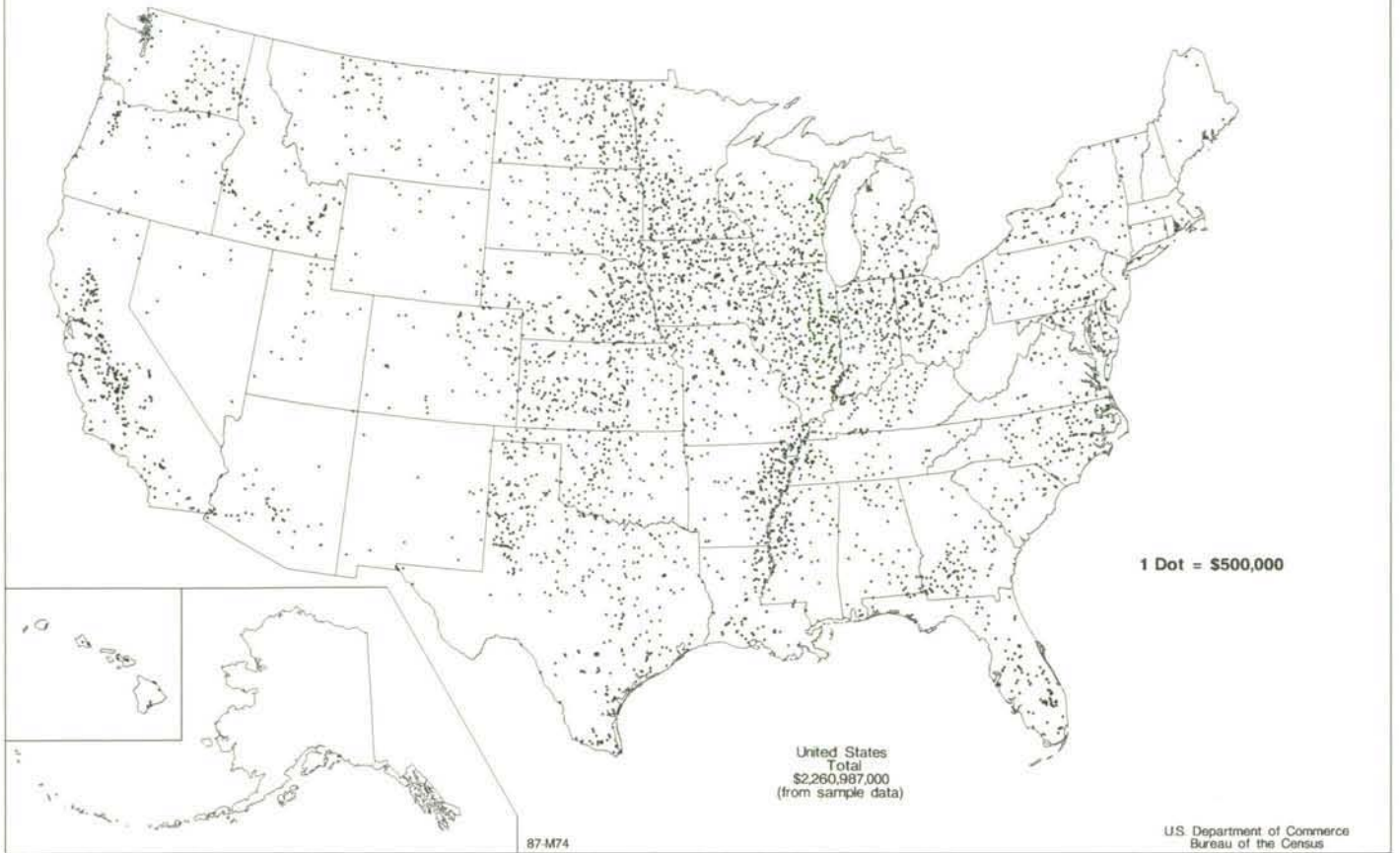


### Expenses for Gasoline and Gasohol by County: 1987

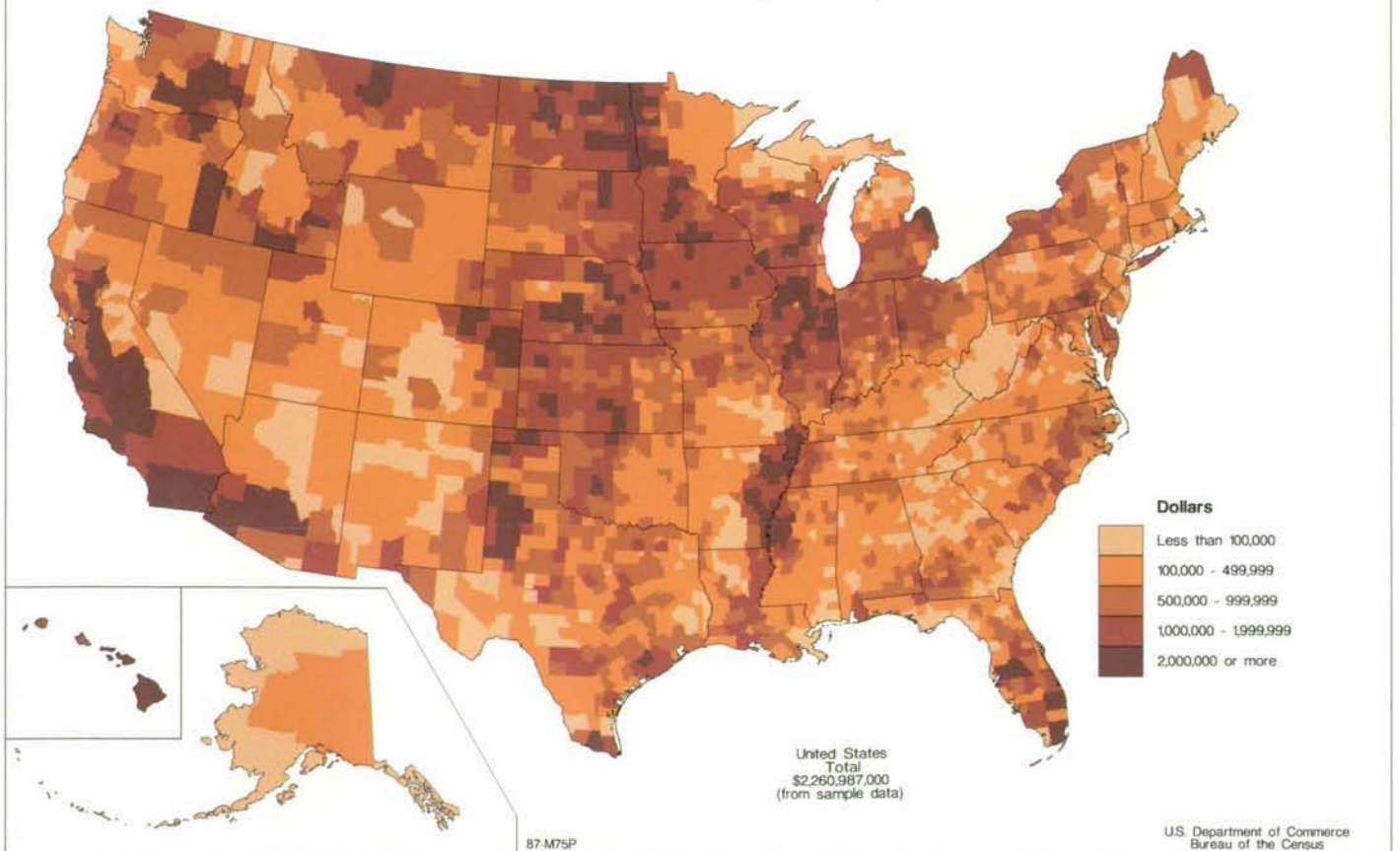




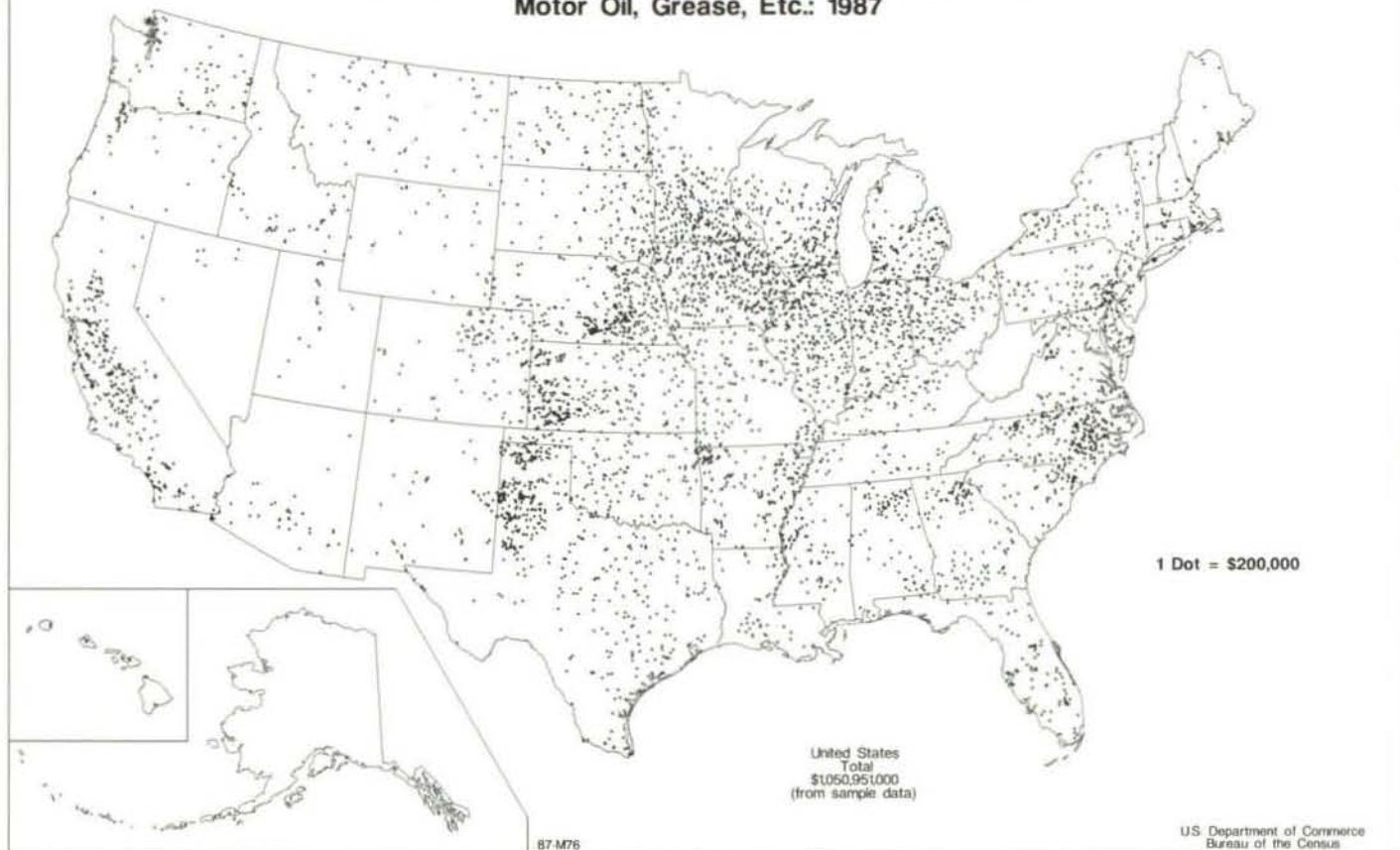
### Expenses for Diesel Fuel: 1987



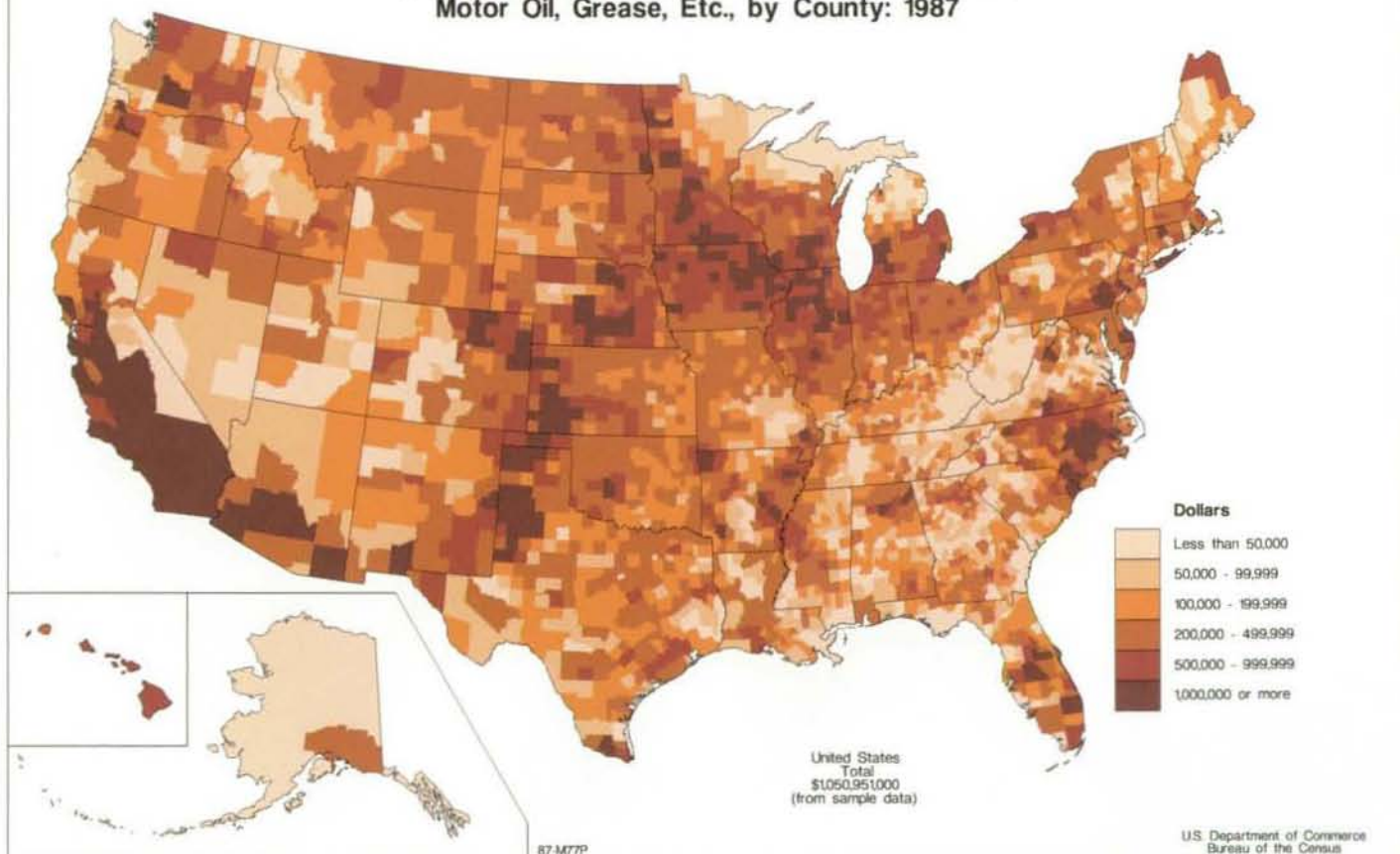
### Expenses for Diesel Fuel by County: 1987



**Expenses for Natural Gas, LP, Fuel Oil, Kerosene,  
Motor Oil, Grease, Etc.: 1987**

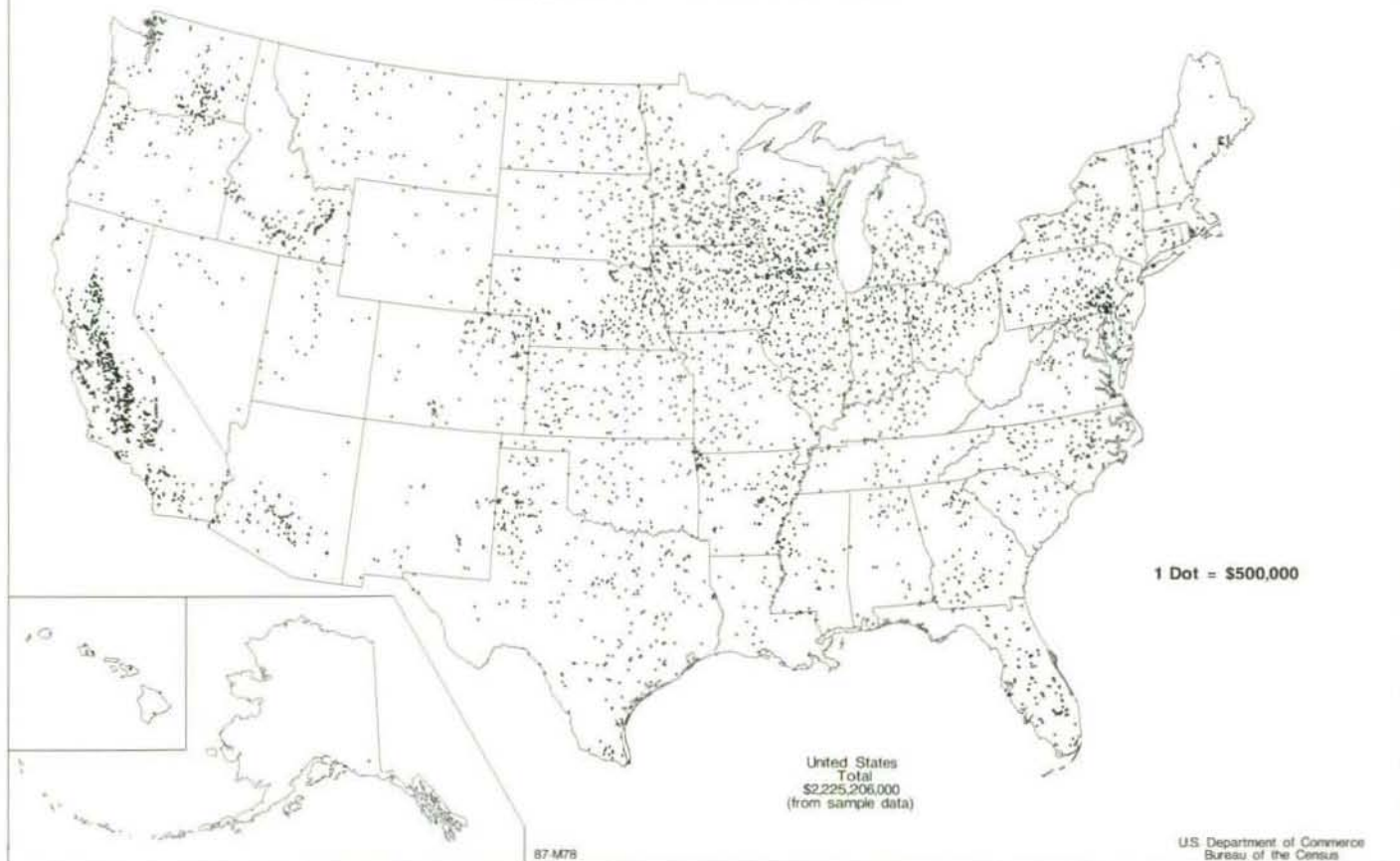


**Expenses for Natural Gas, LP, Fuel Oil, Kerosene,  
Motor Oil, Grease, Etc., by County: 1987**

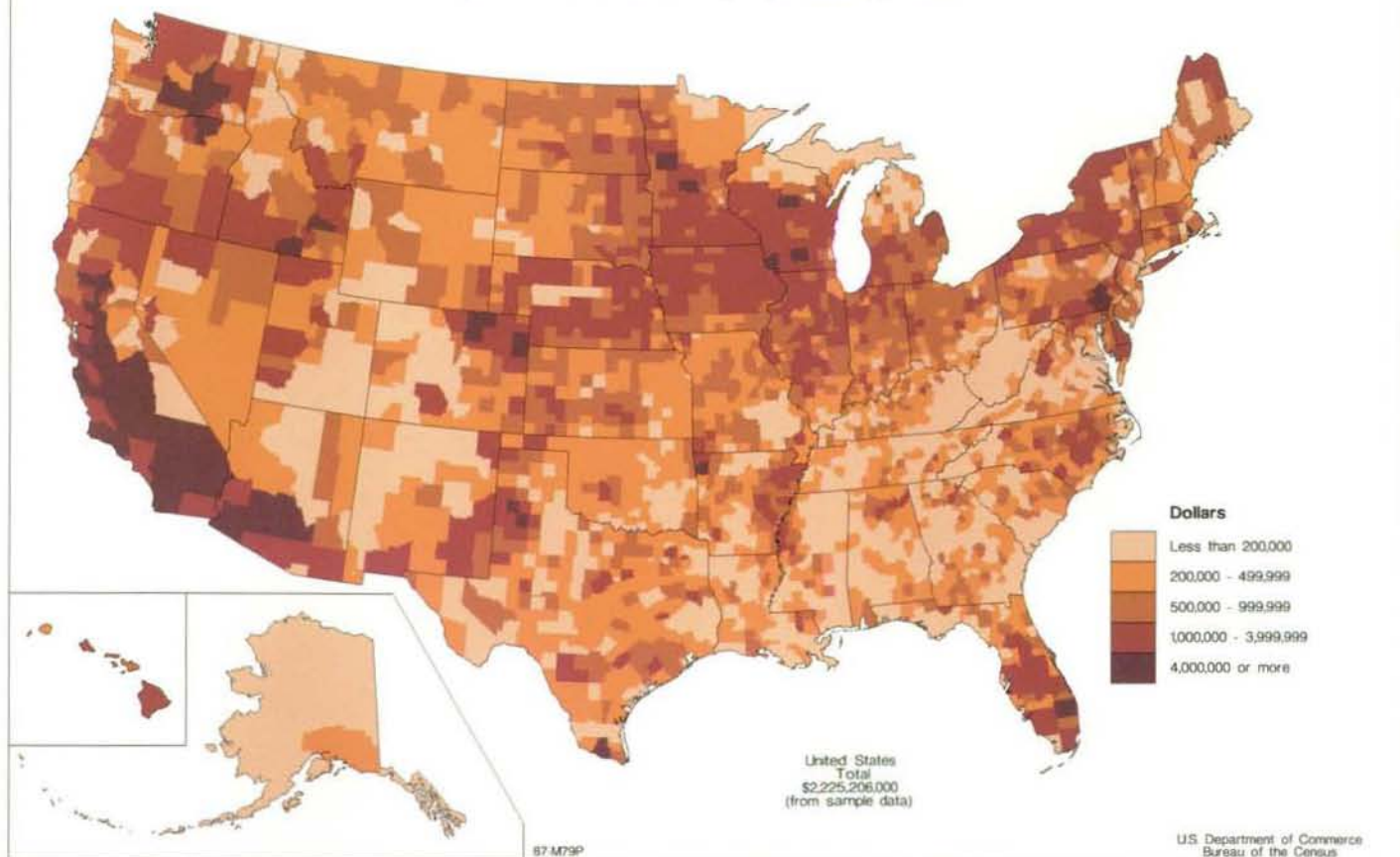




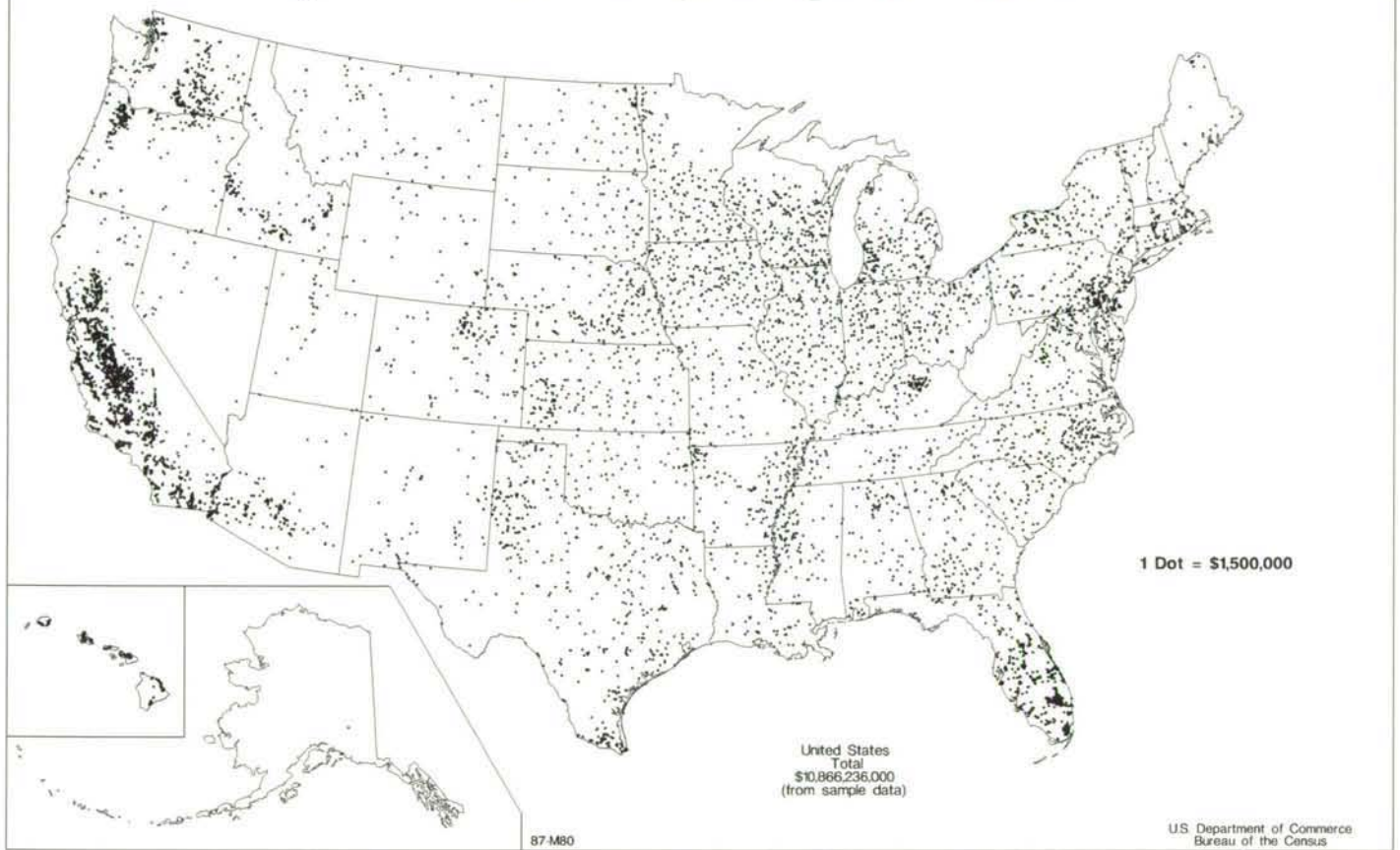
### Expenses for Electricity: 1987



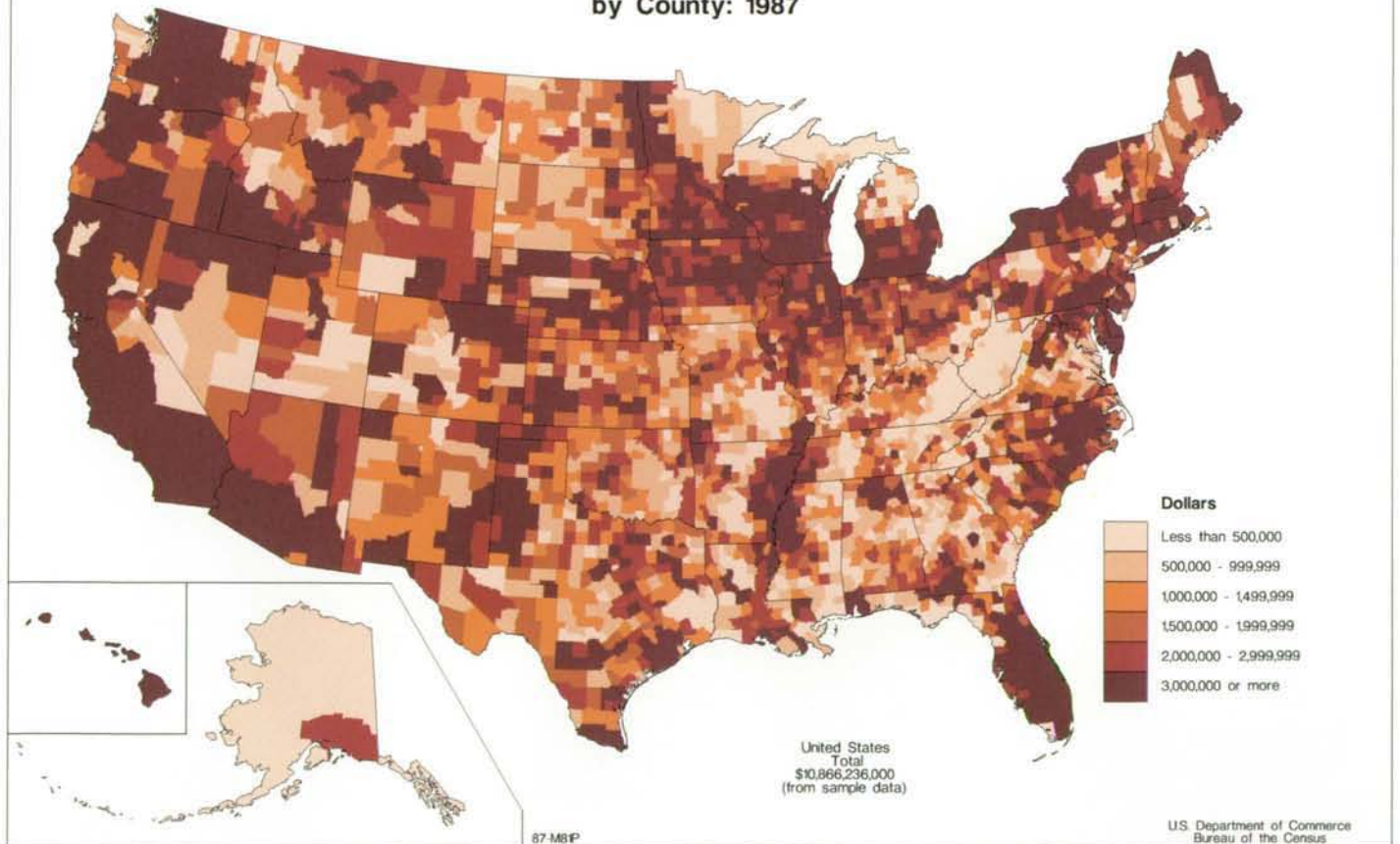
### Expenses for Electricity by County: 1987



# Expenses for Hired Farm Labor, Excluding Contract Labor: 1987

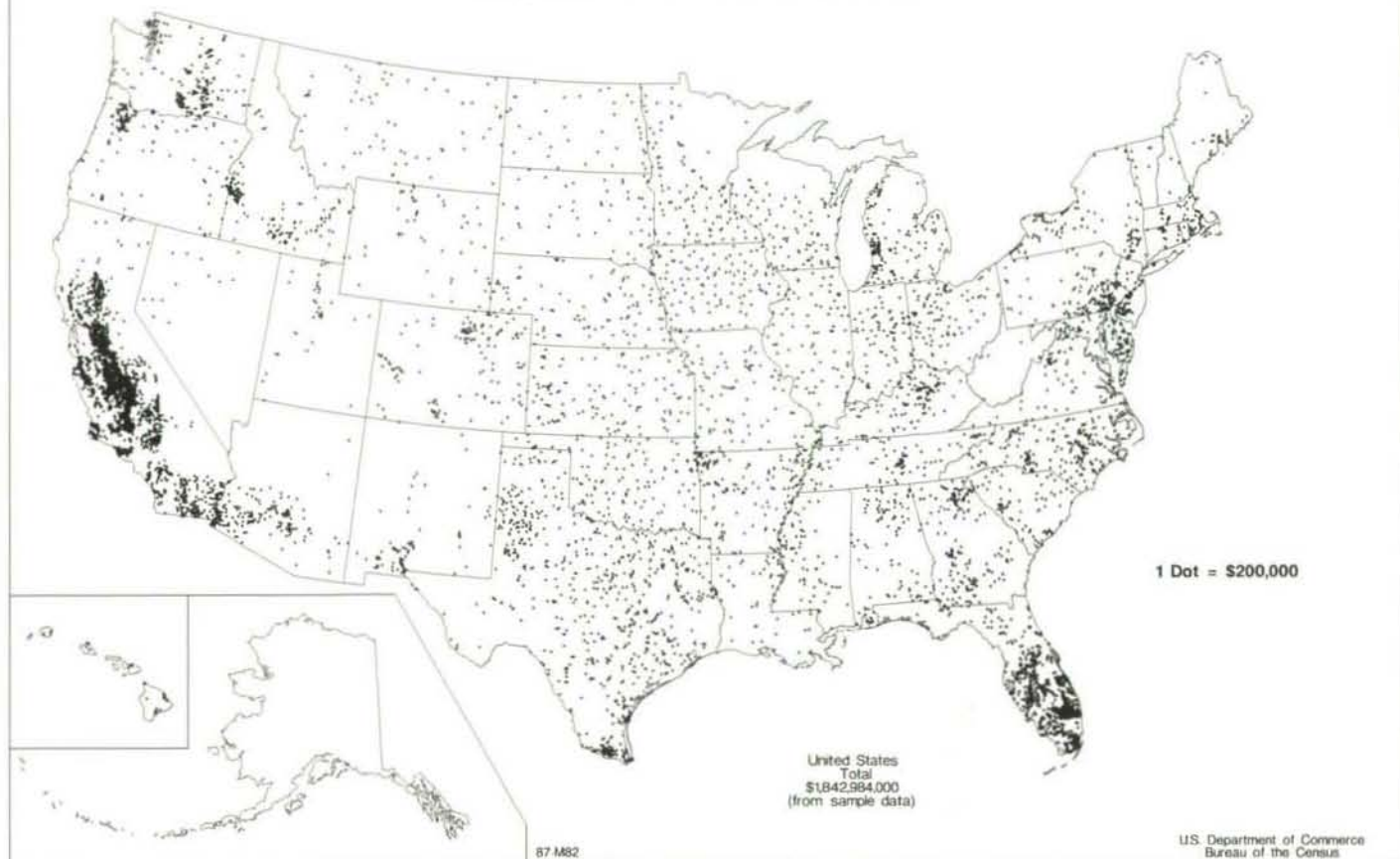


# Expenses for Hired Farm Labor, Excluding Contract Labor, by County: 1987

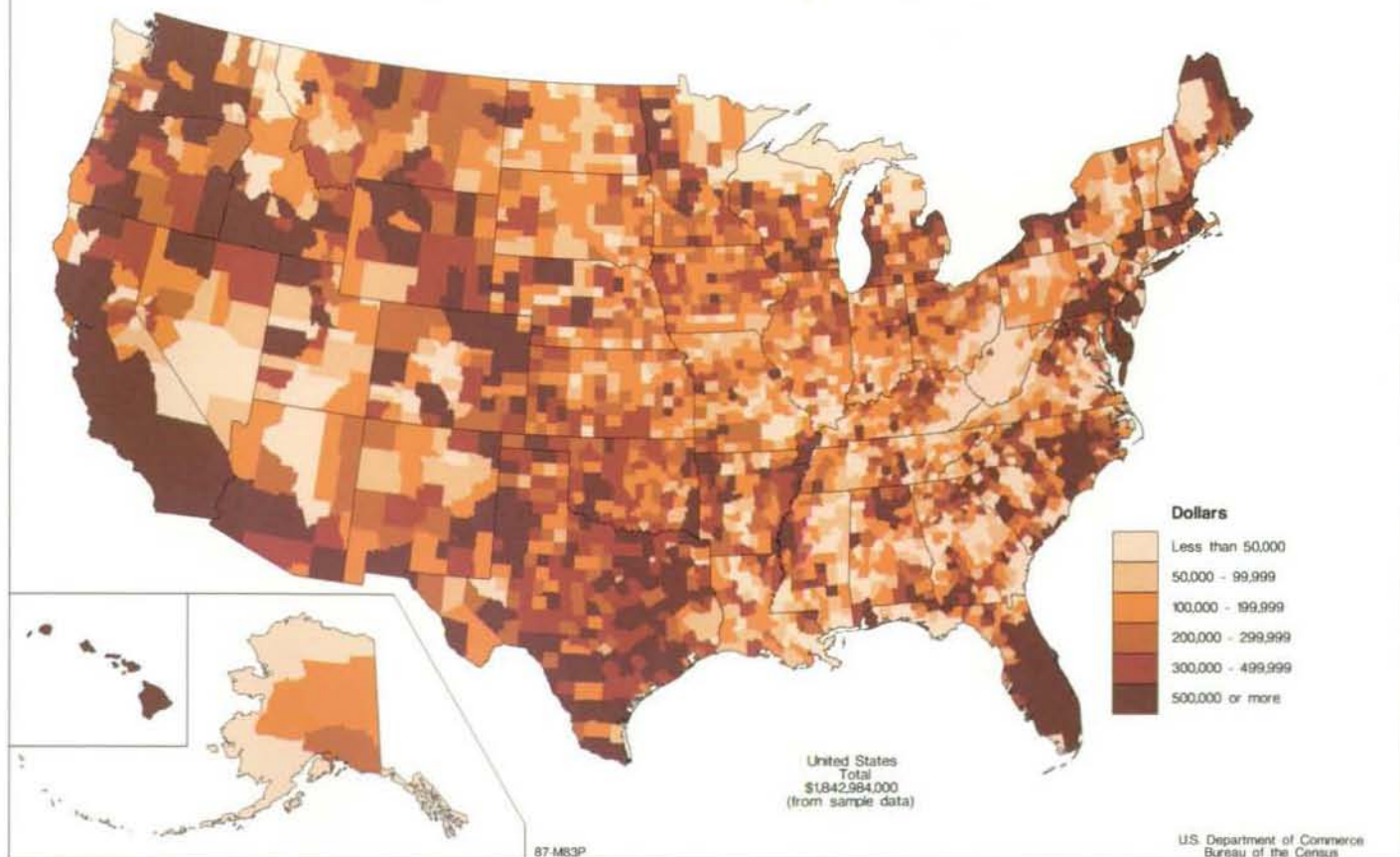




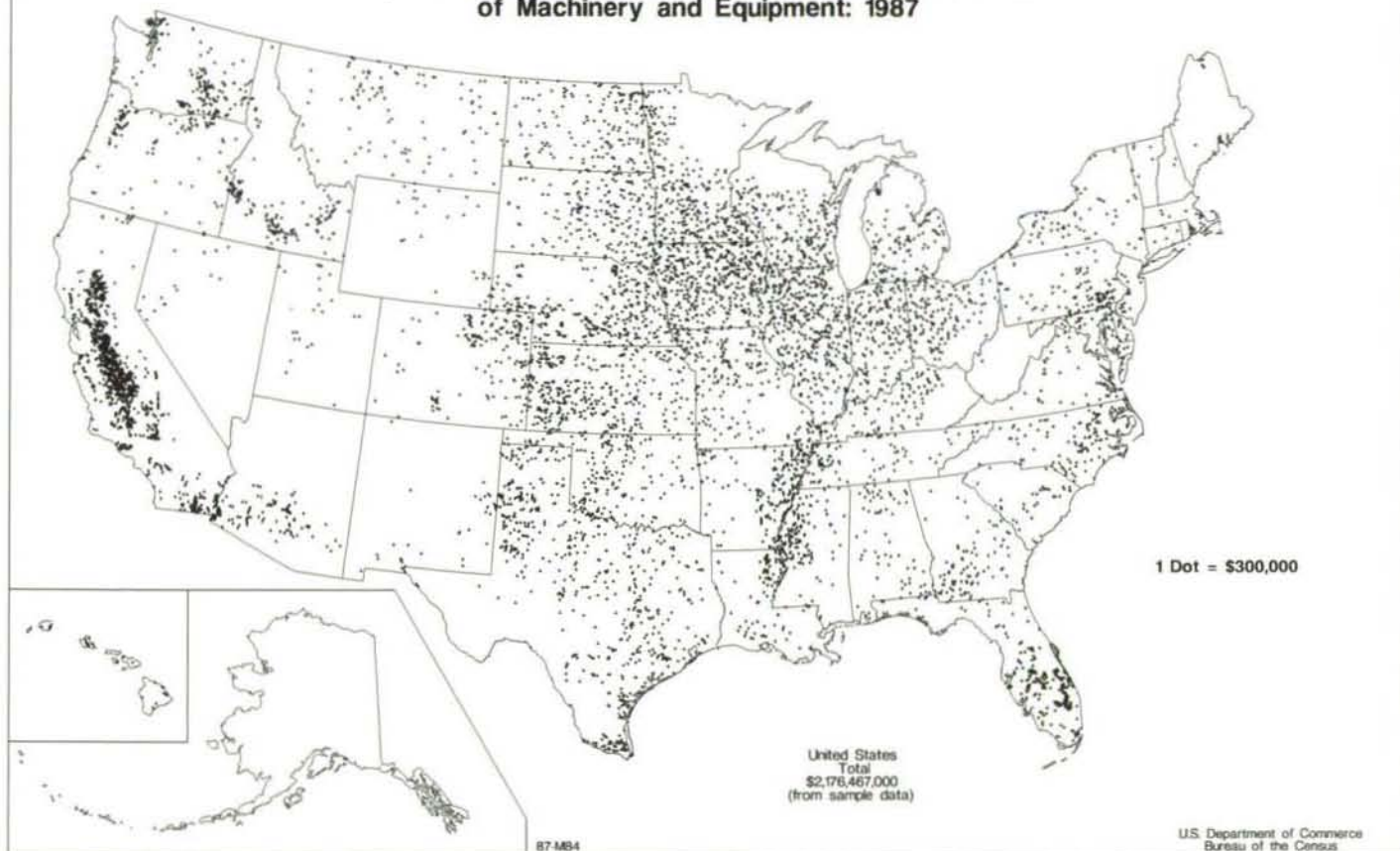
### Expenses for Contract Labor: 1987



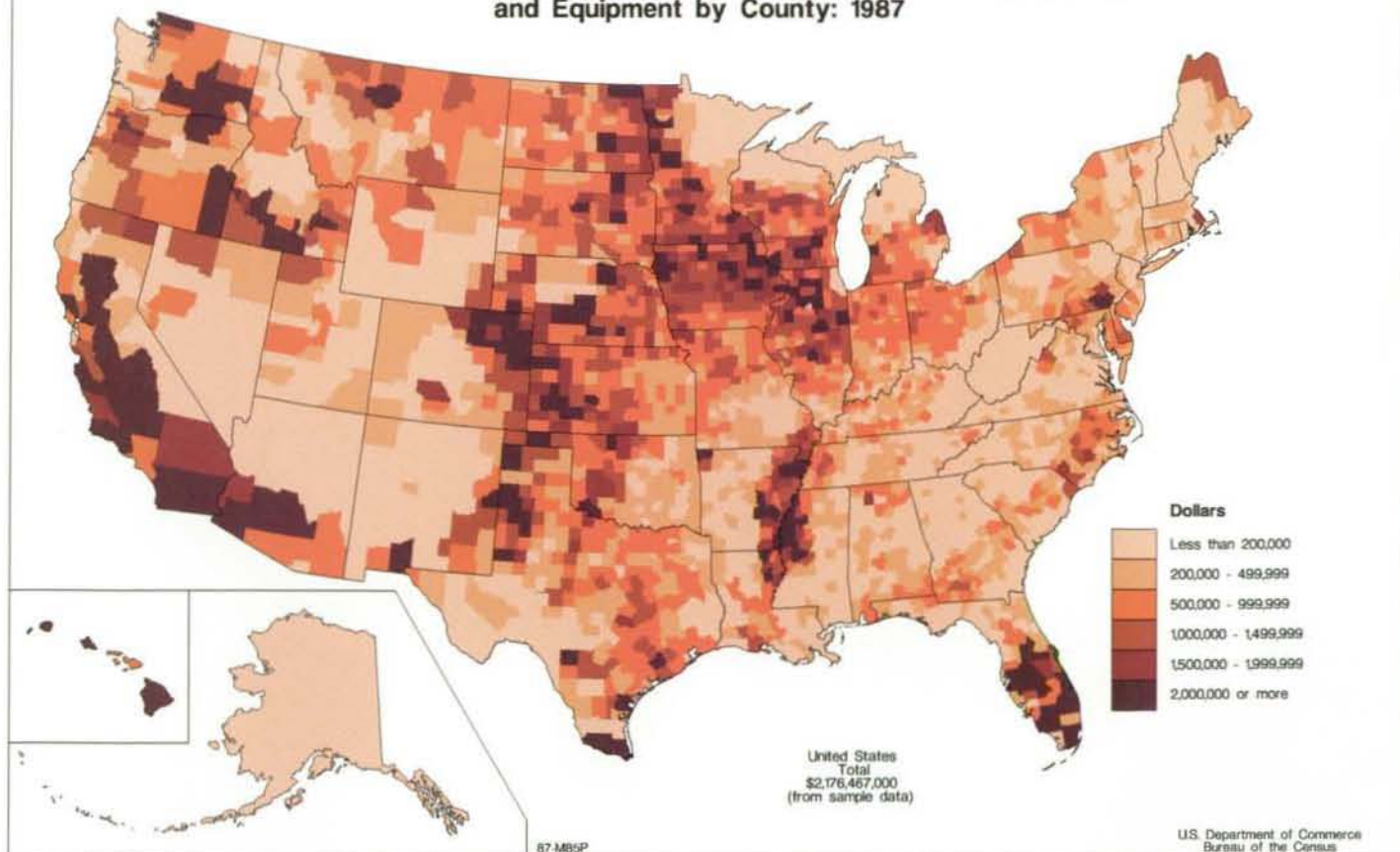
### Expenses for Contract Labor by County: 1987



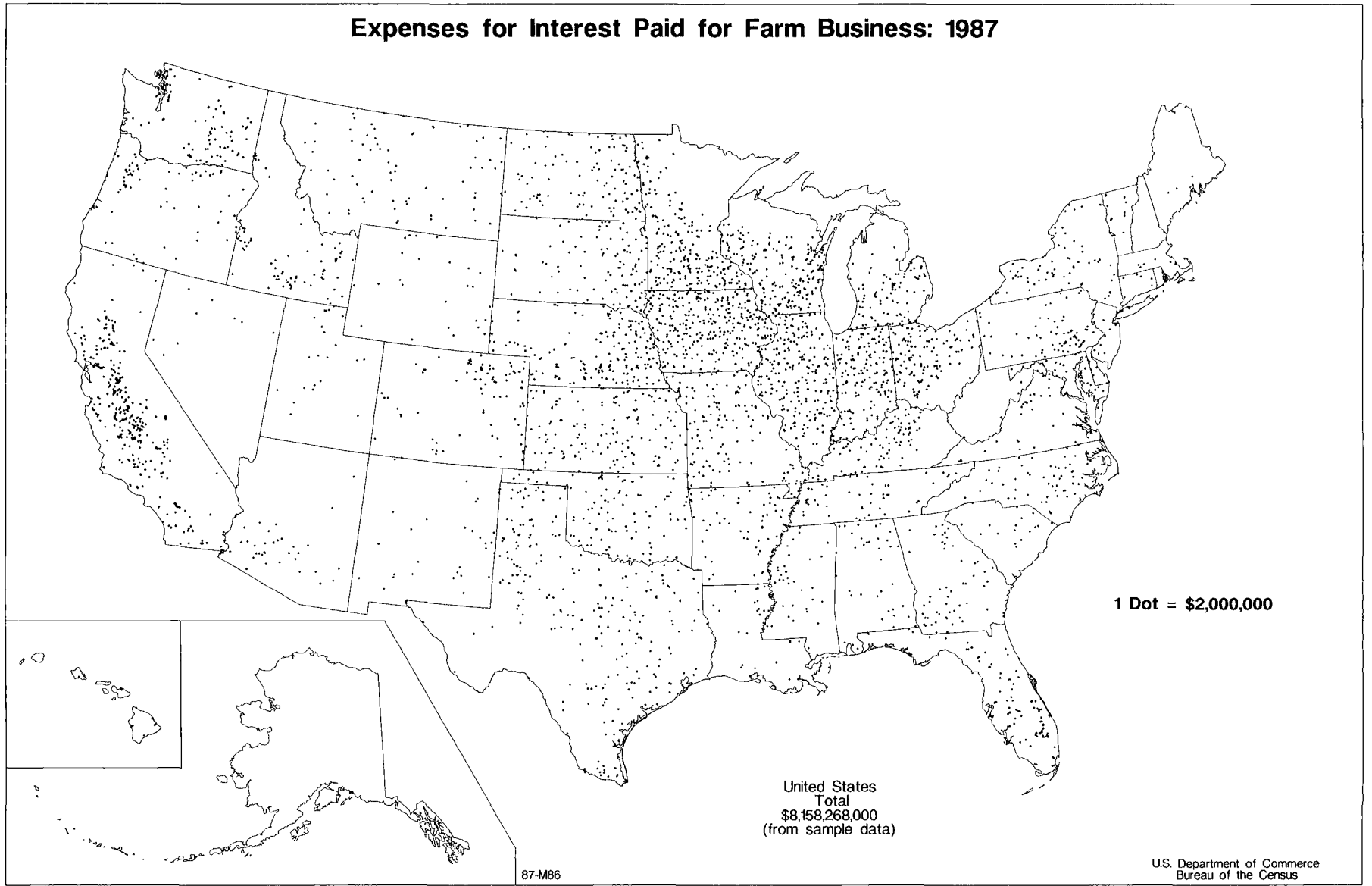
# Expenses for Customwork, Machine Hire, and Rental of Machinery and Equipment: 1987



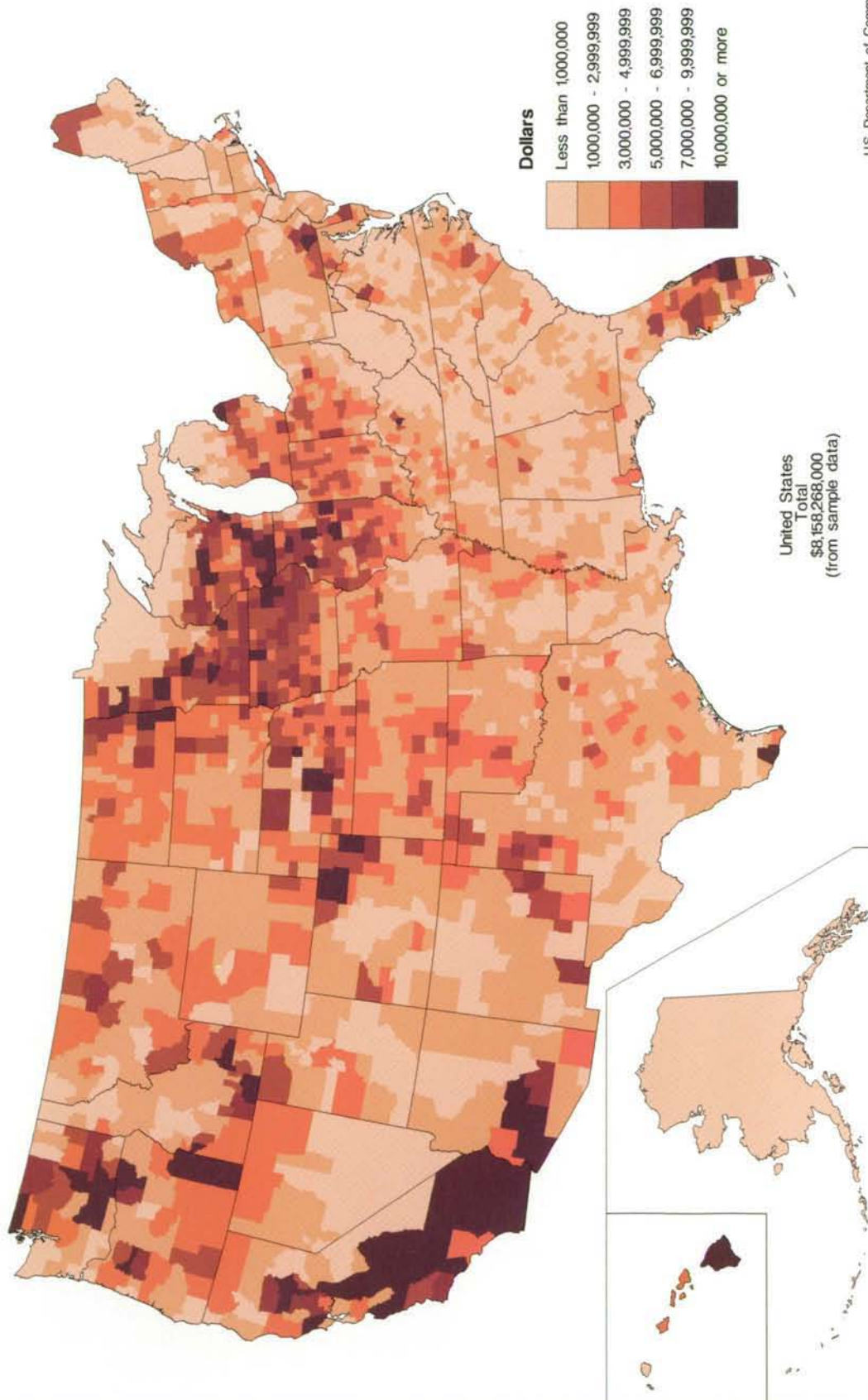
# Expenses for Customwork, Machine Hire, and Rental of Machinery and Equipment by County: 1987



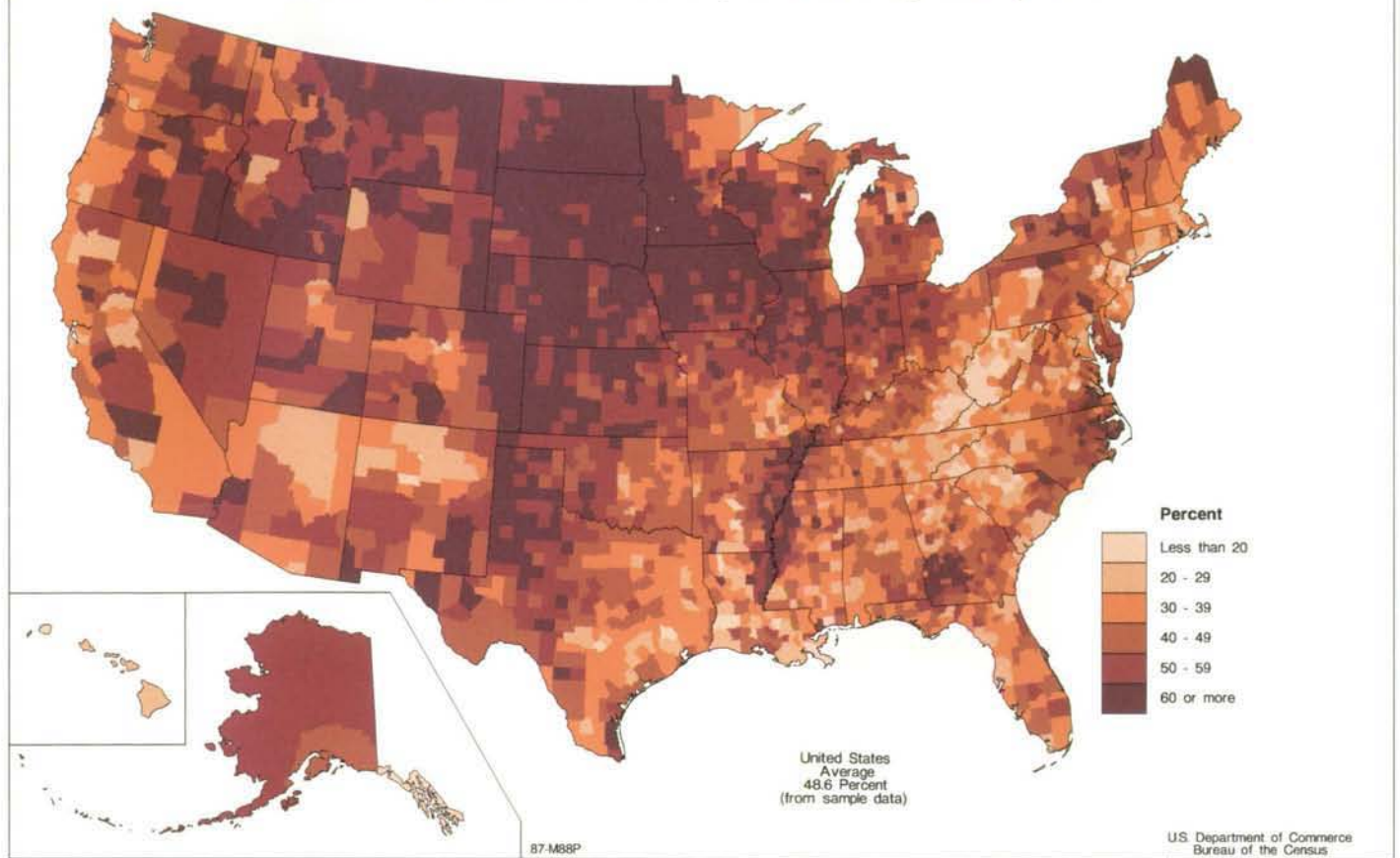




# Expenses for Interest Paid for Farm Business by County: 1987

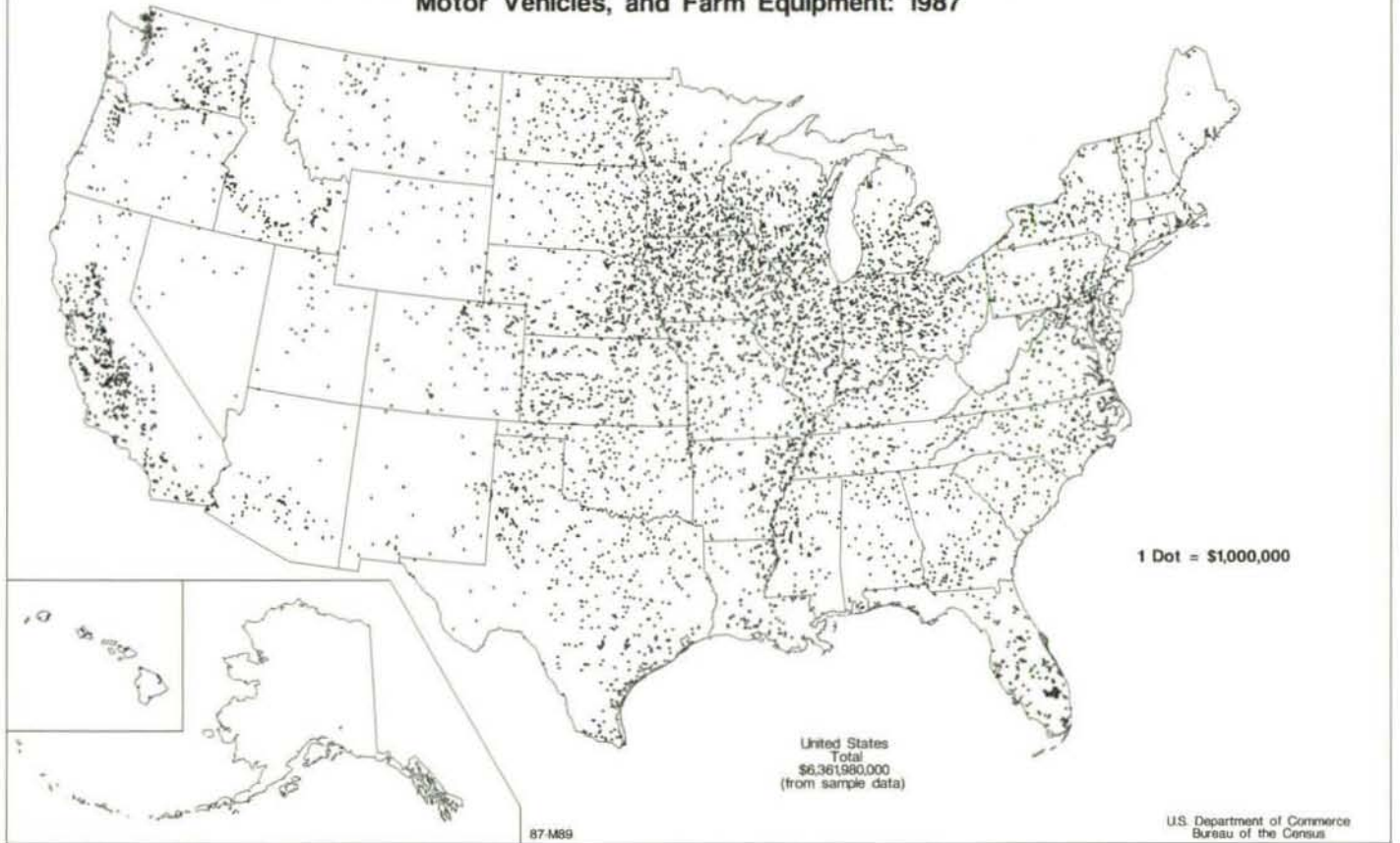


Percent of Farms With Interest Expenses Paid by County: 1987

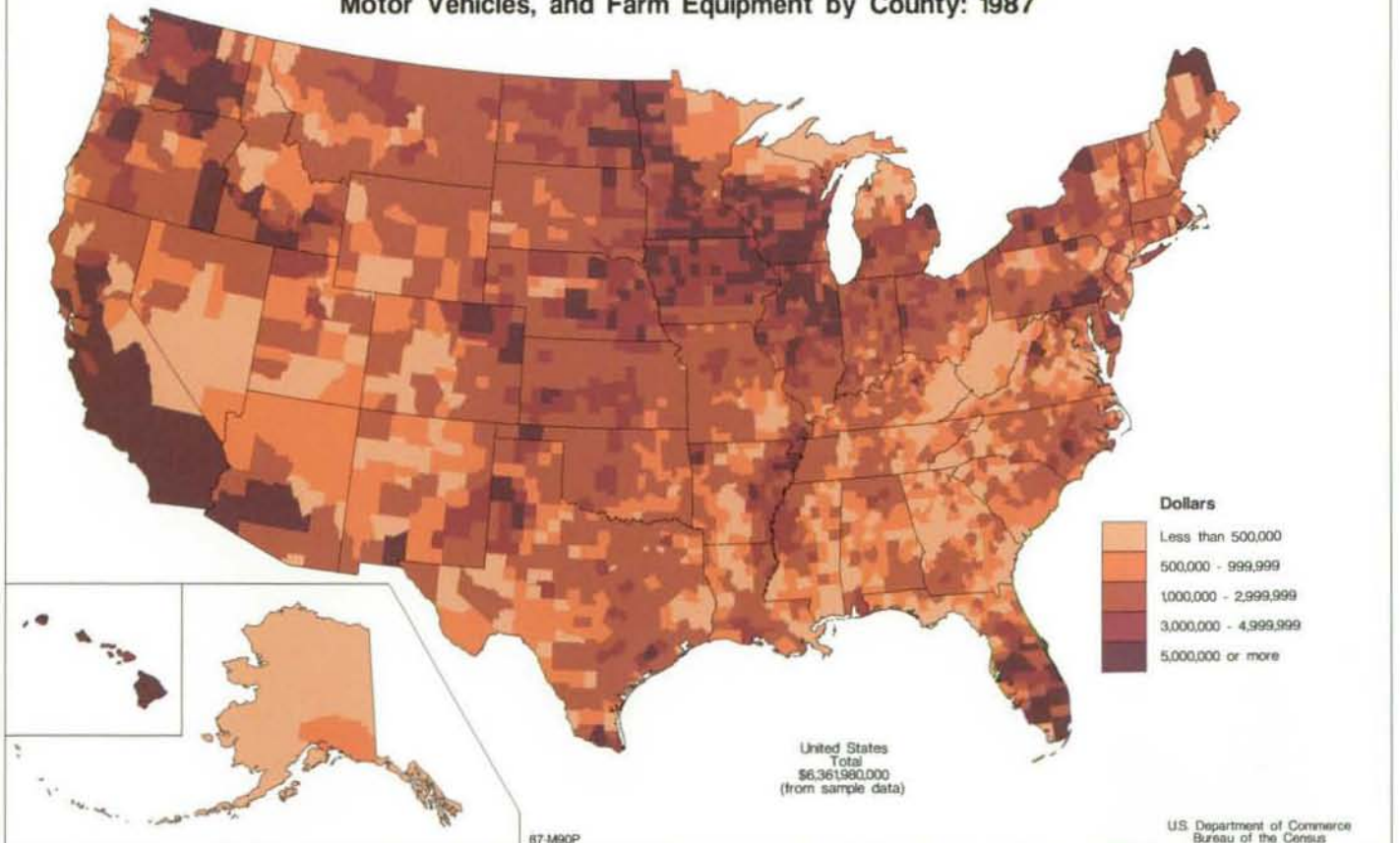




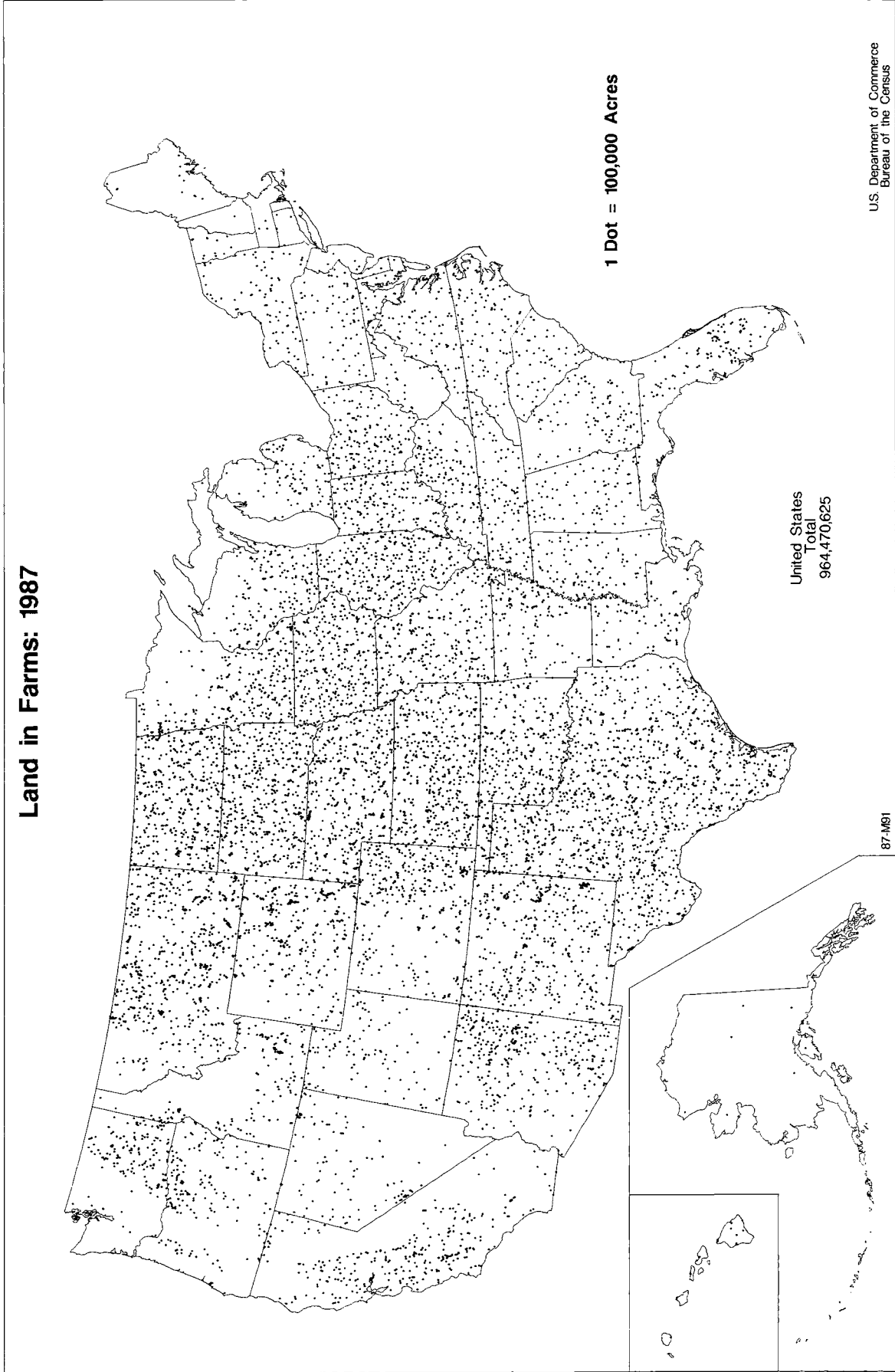
**Expenses for Repairs and Maintenance for Upkeep of Buildings,  
Motor Vehicles, and Farm Equipment: 1987**



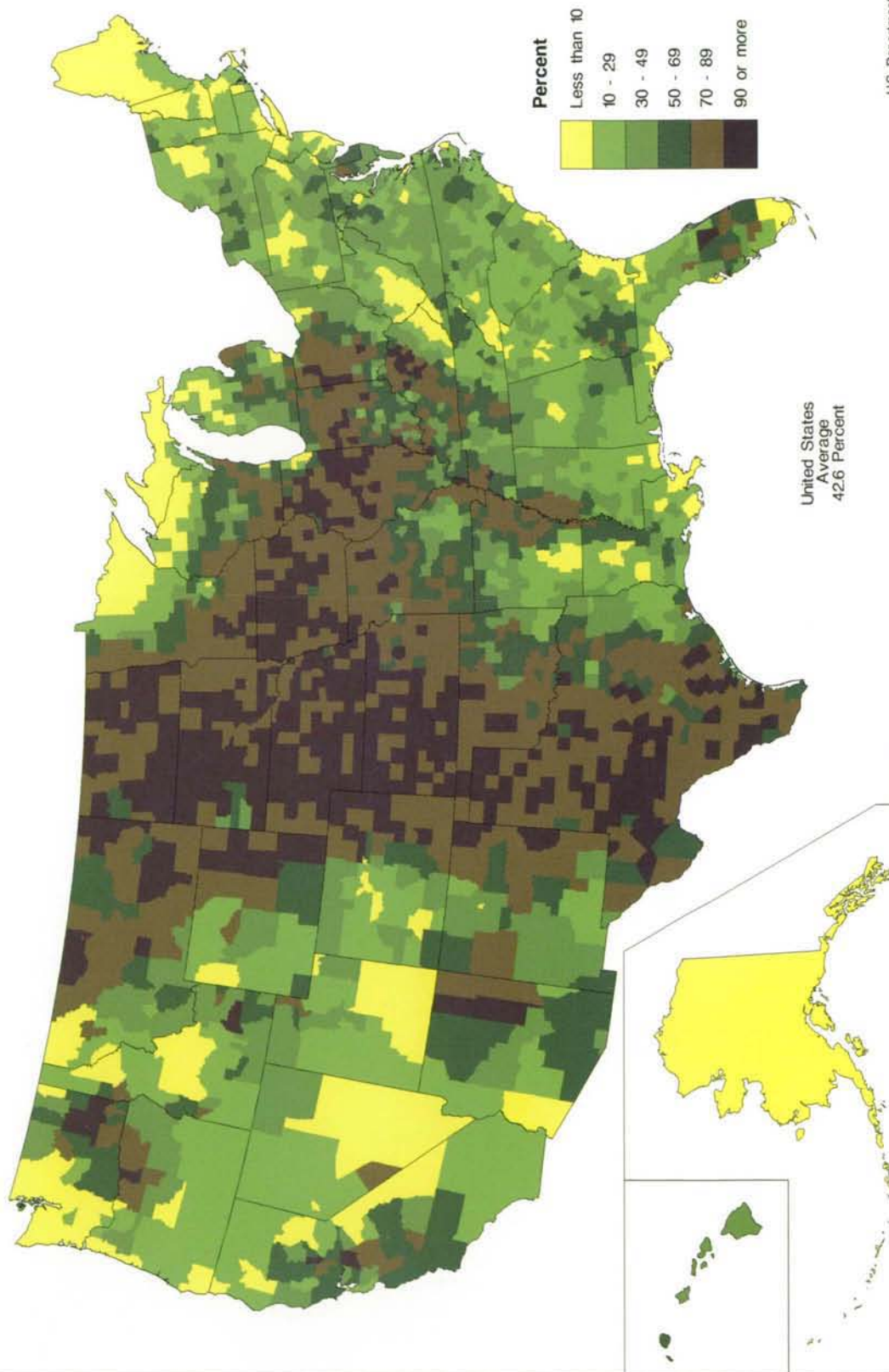
**Expenses for Repairs and Maintenance for Upkeep of Buildings,  
Motor Vehicles, and Farm Equipment by County: 1987**



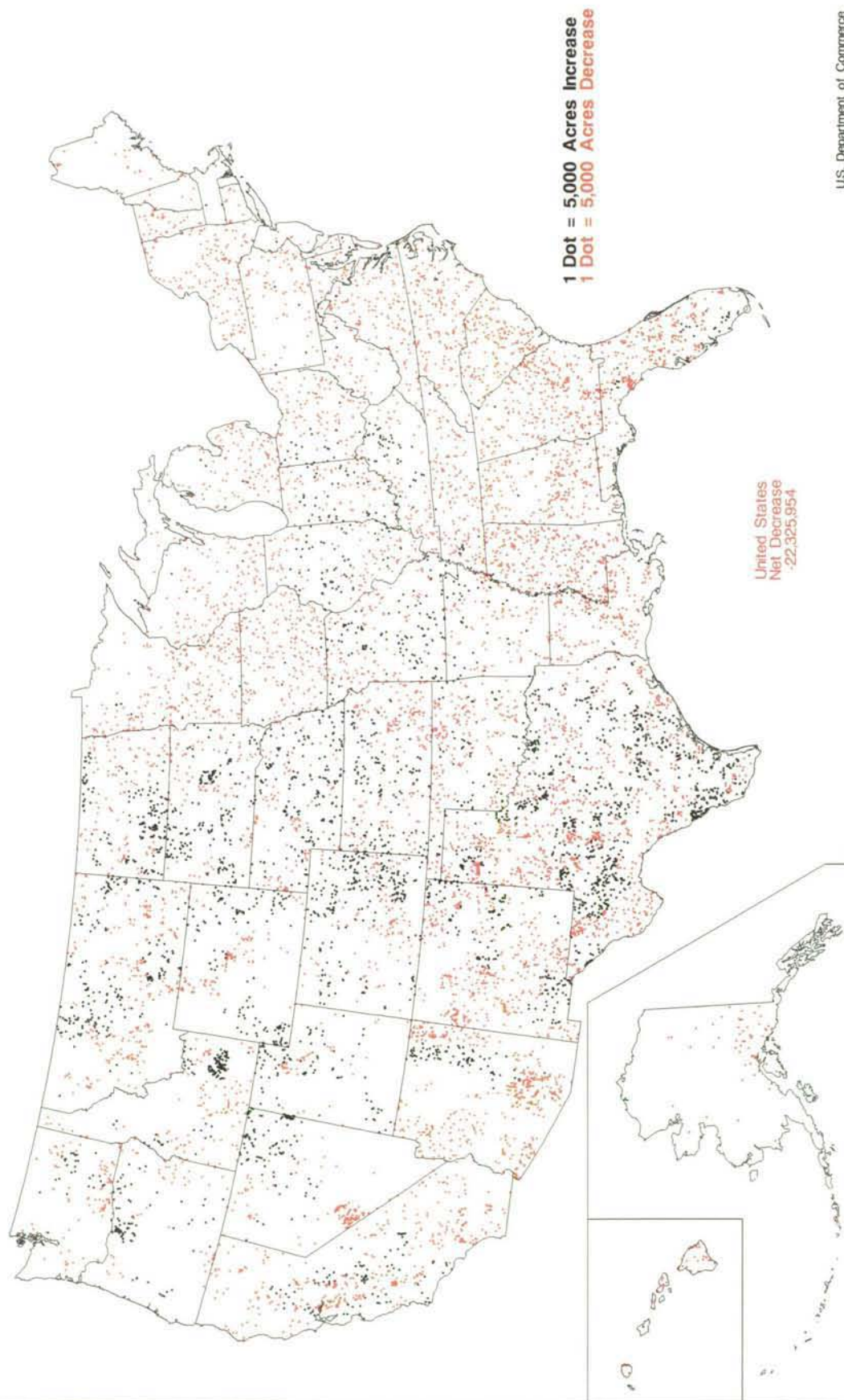


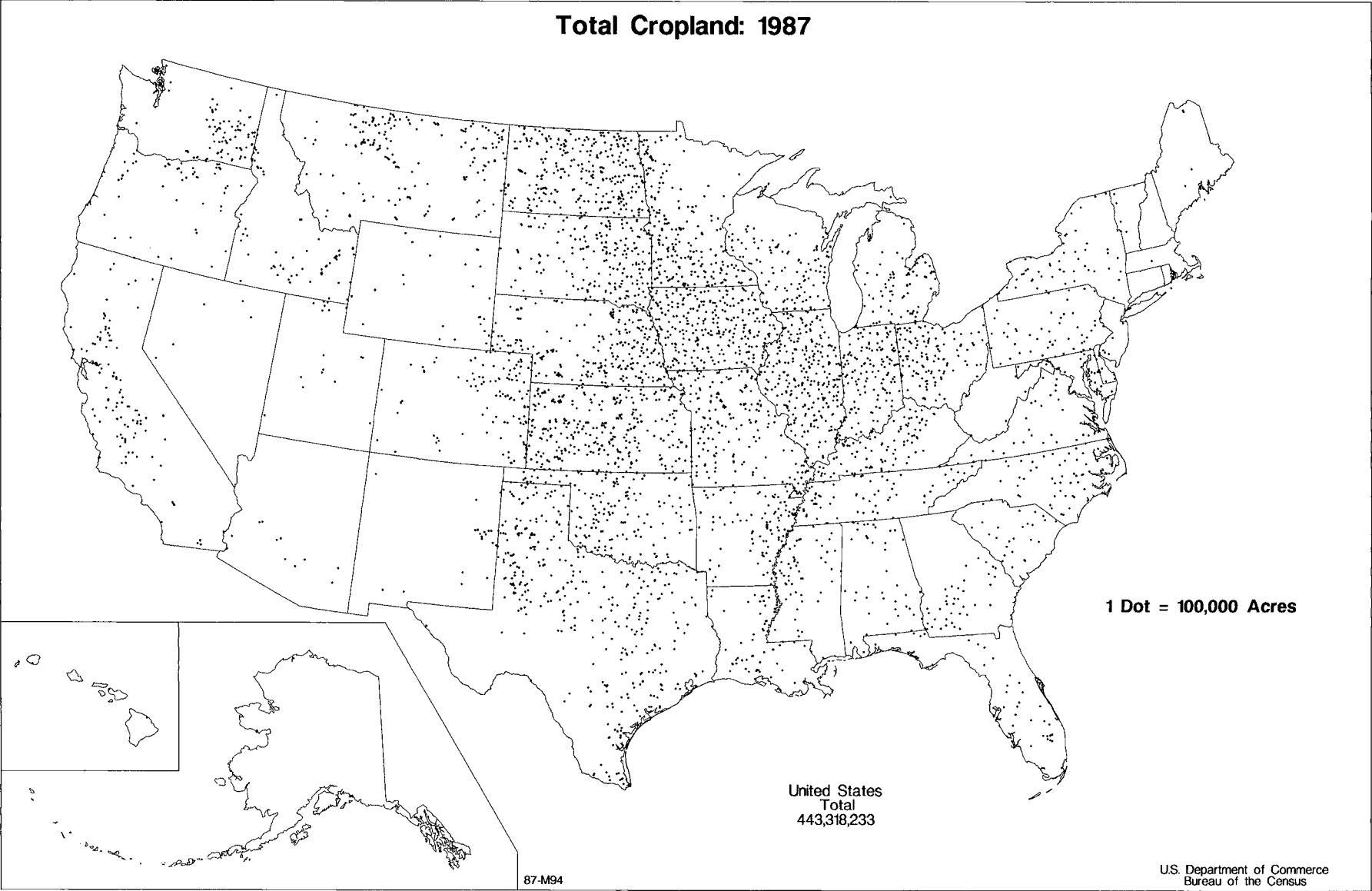


# Land in Farms as Percent of Land Area: 1987



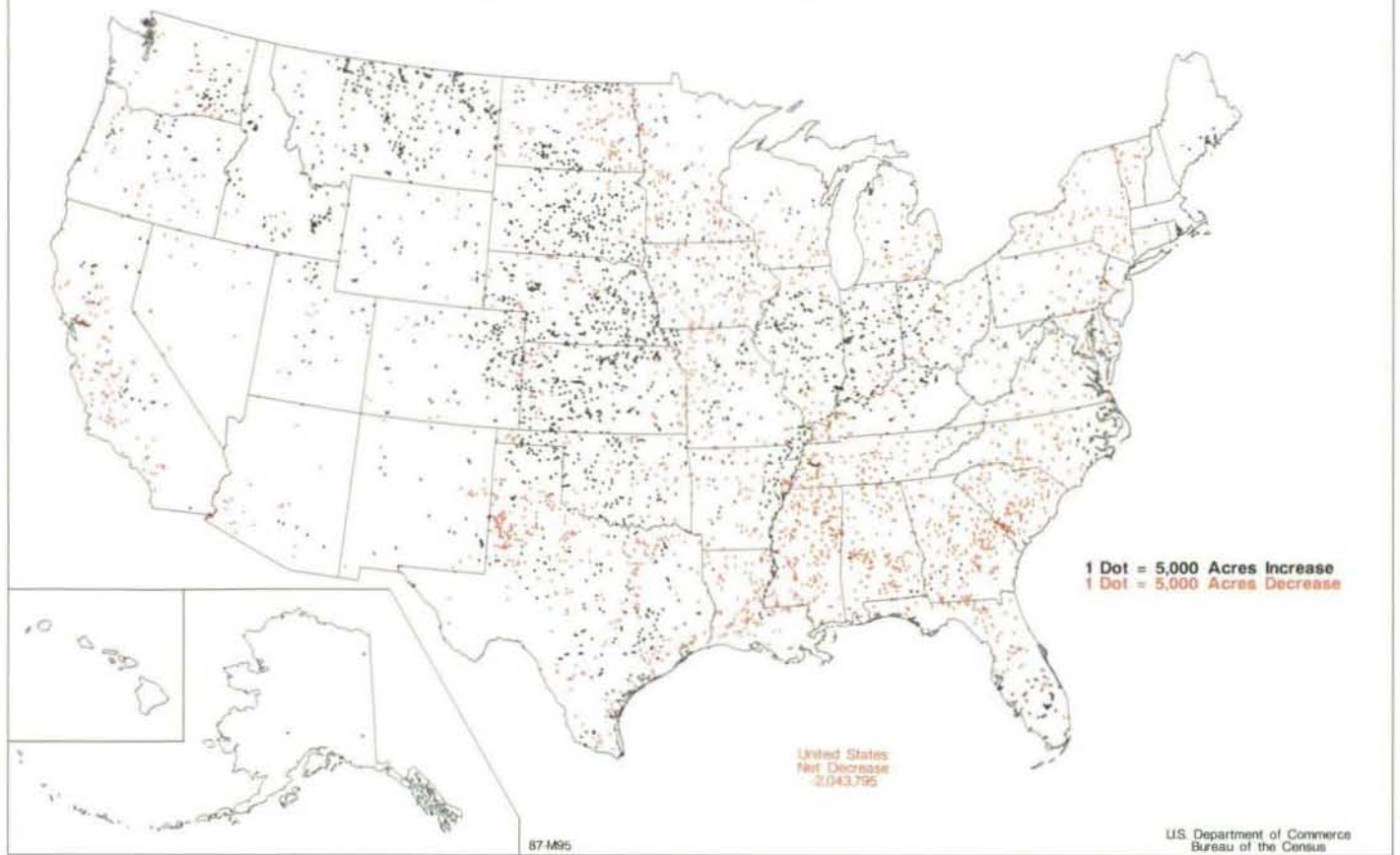
# Land in Farms - Change in Acreage: 1982 to 1987



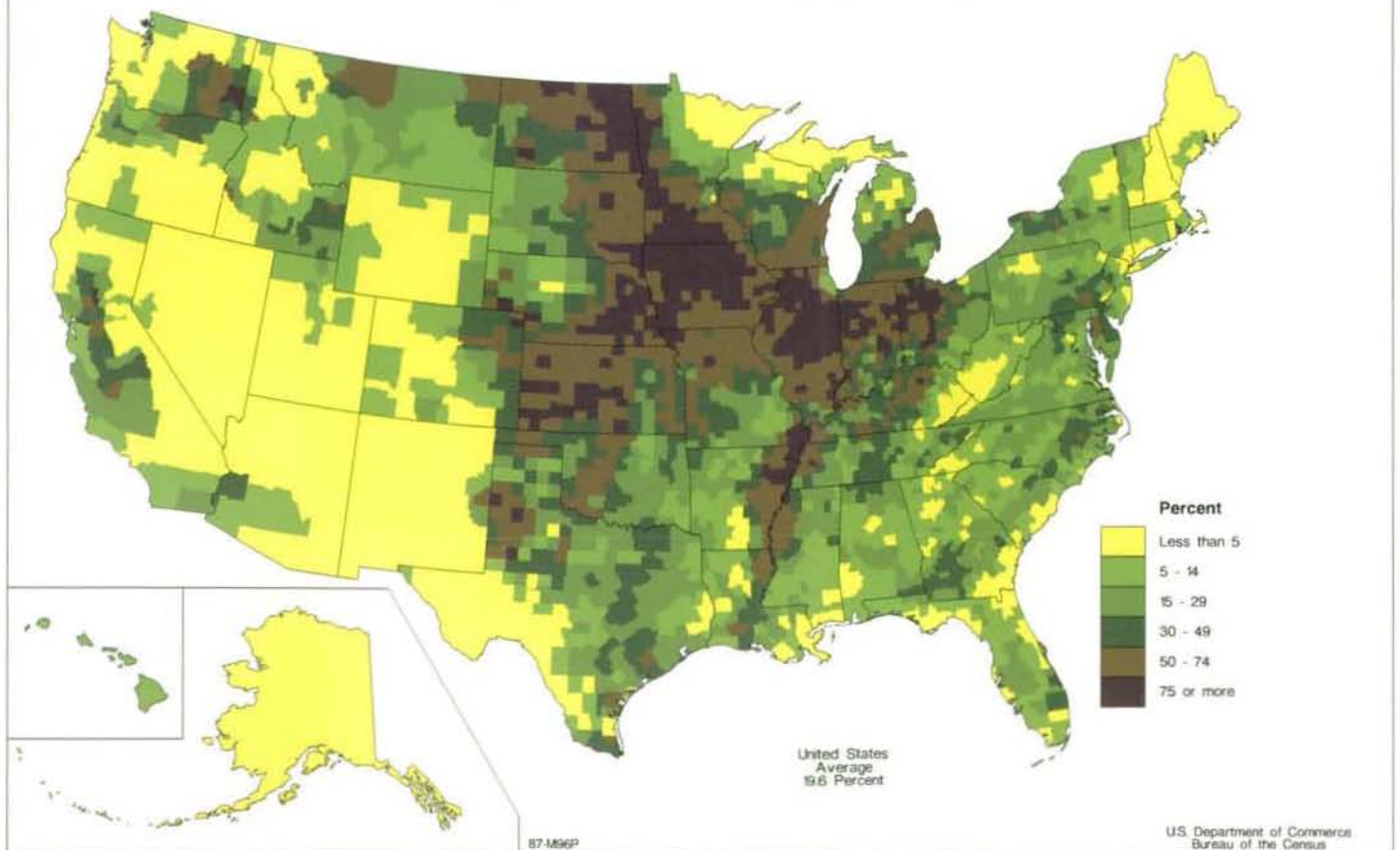




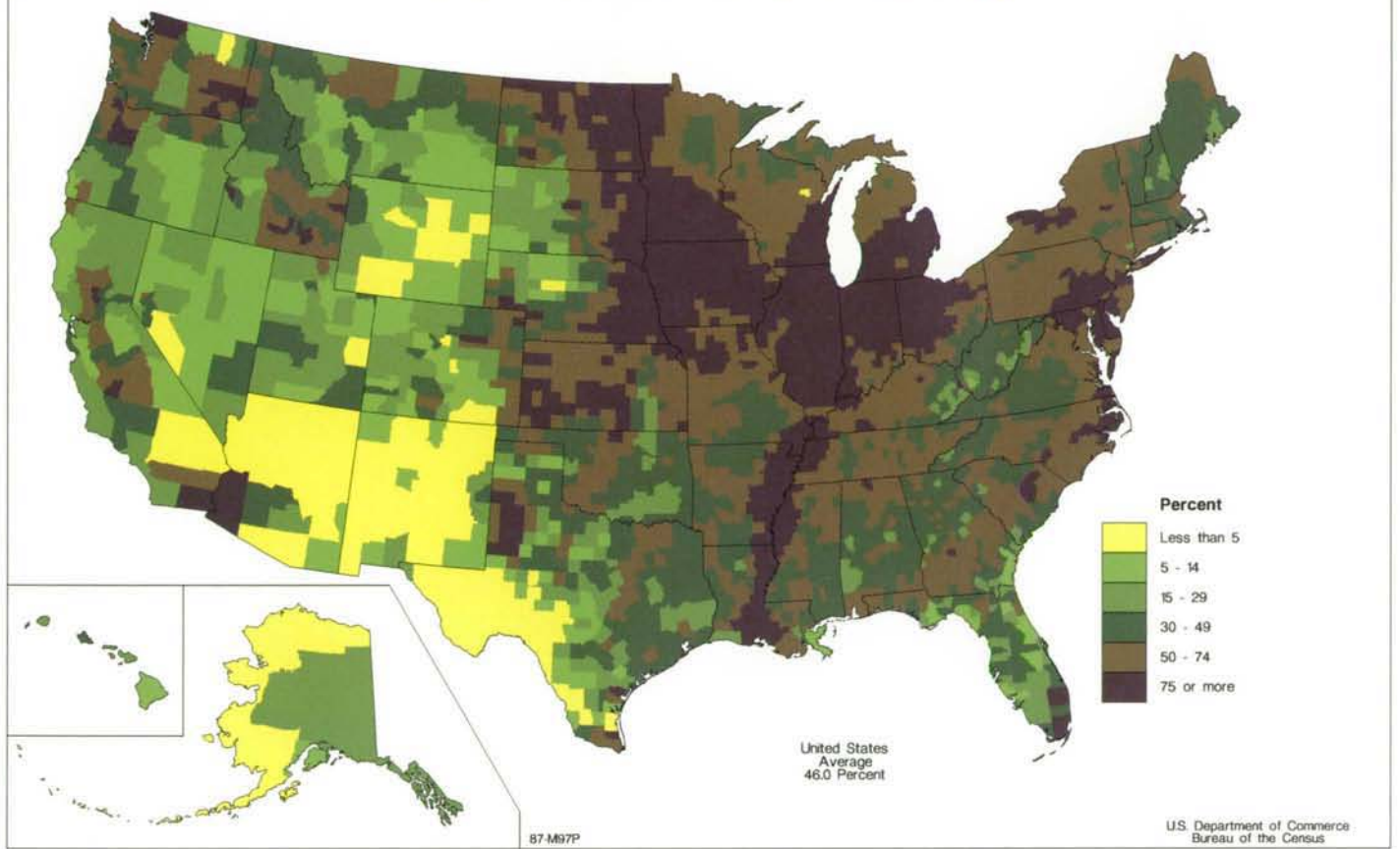
**Total Cropland - Change in Acreage: 1982 to 1987**



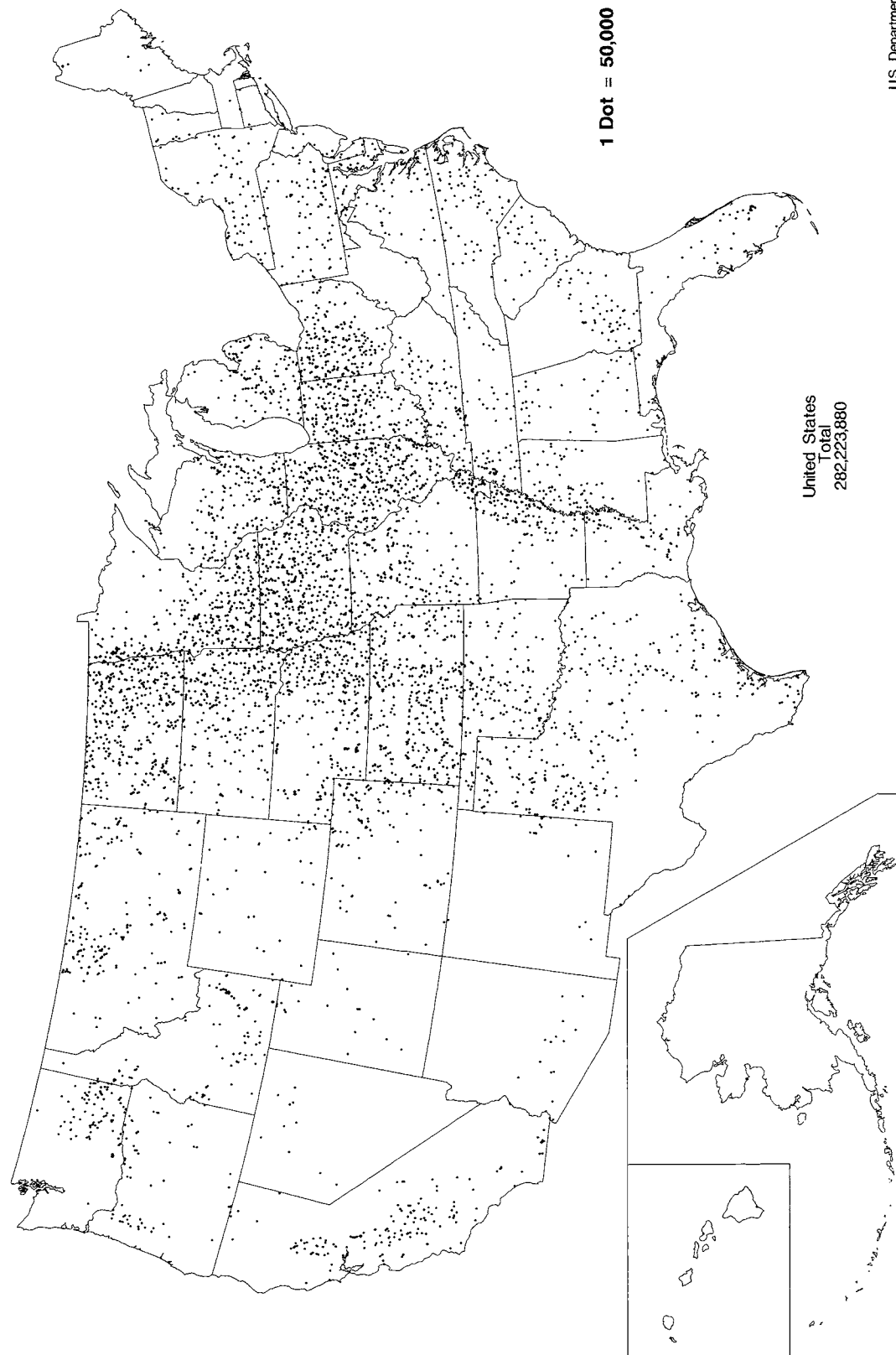
**Total Cropland as Percent of Land Area: 1987**



# Total Cropland as Percent of Land in Farms: 1987



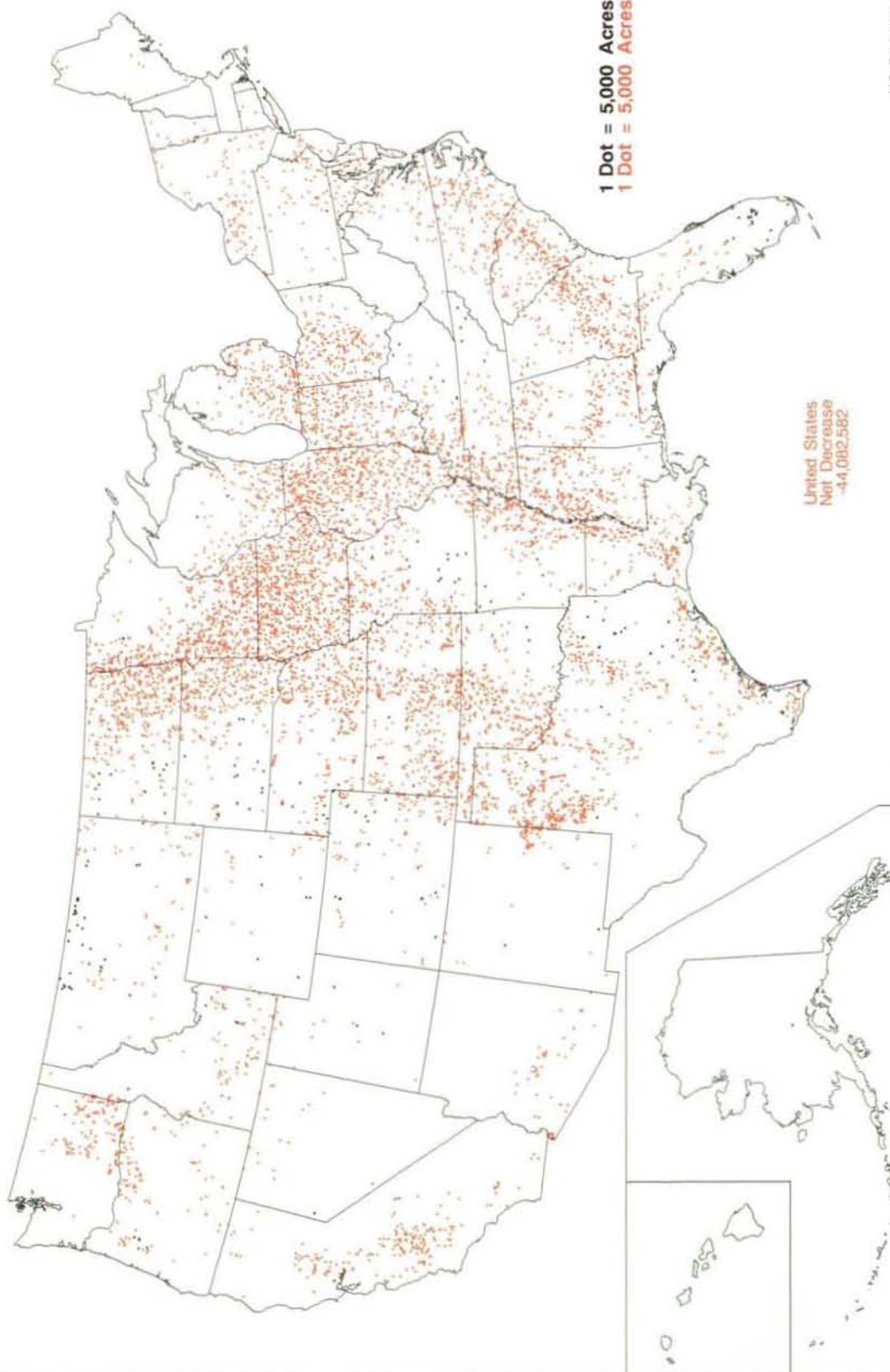
# Harvested Cropland: 1987



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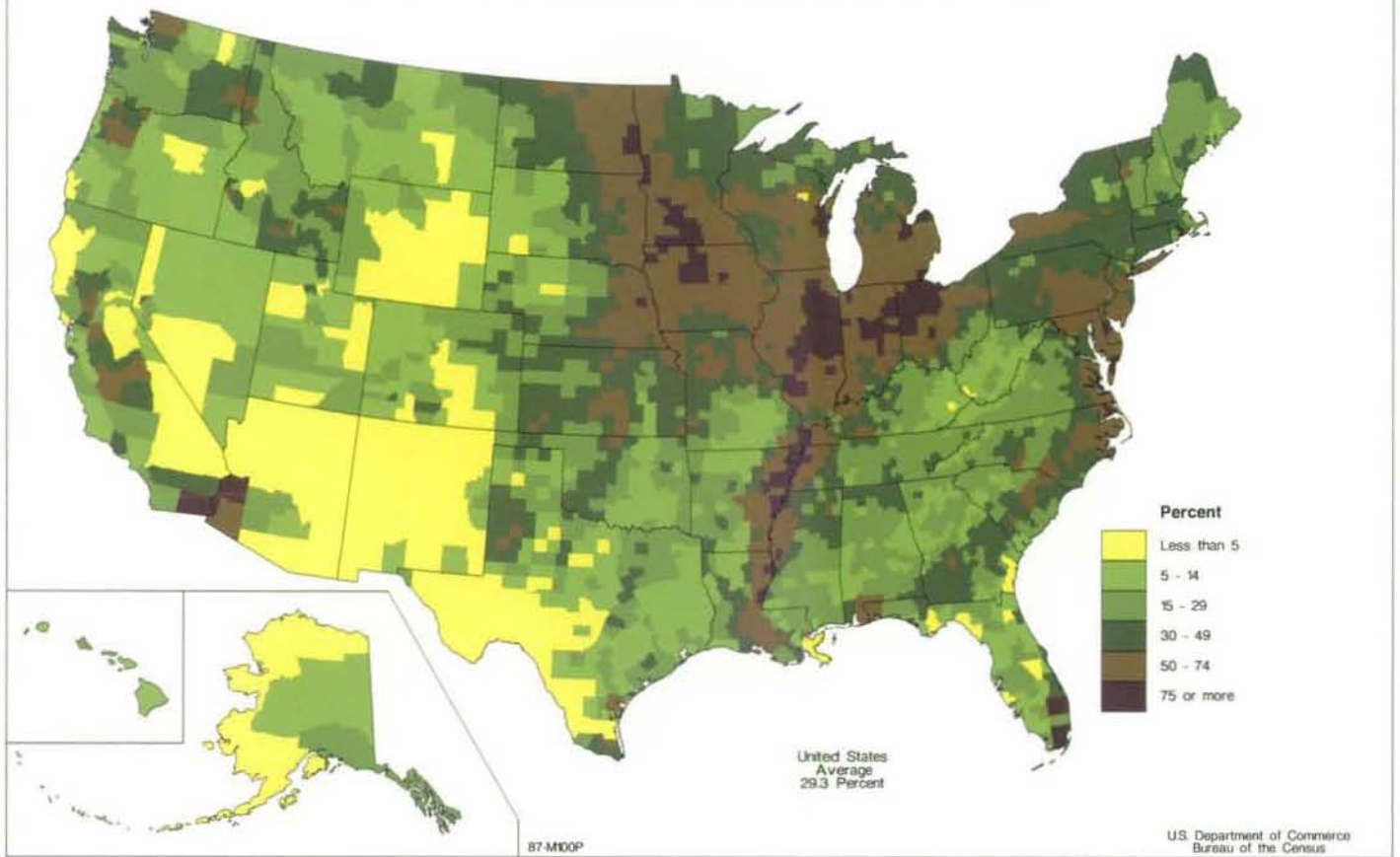


# Harvested Cropland - Change in Acreage: 1982 to 1987

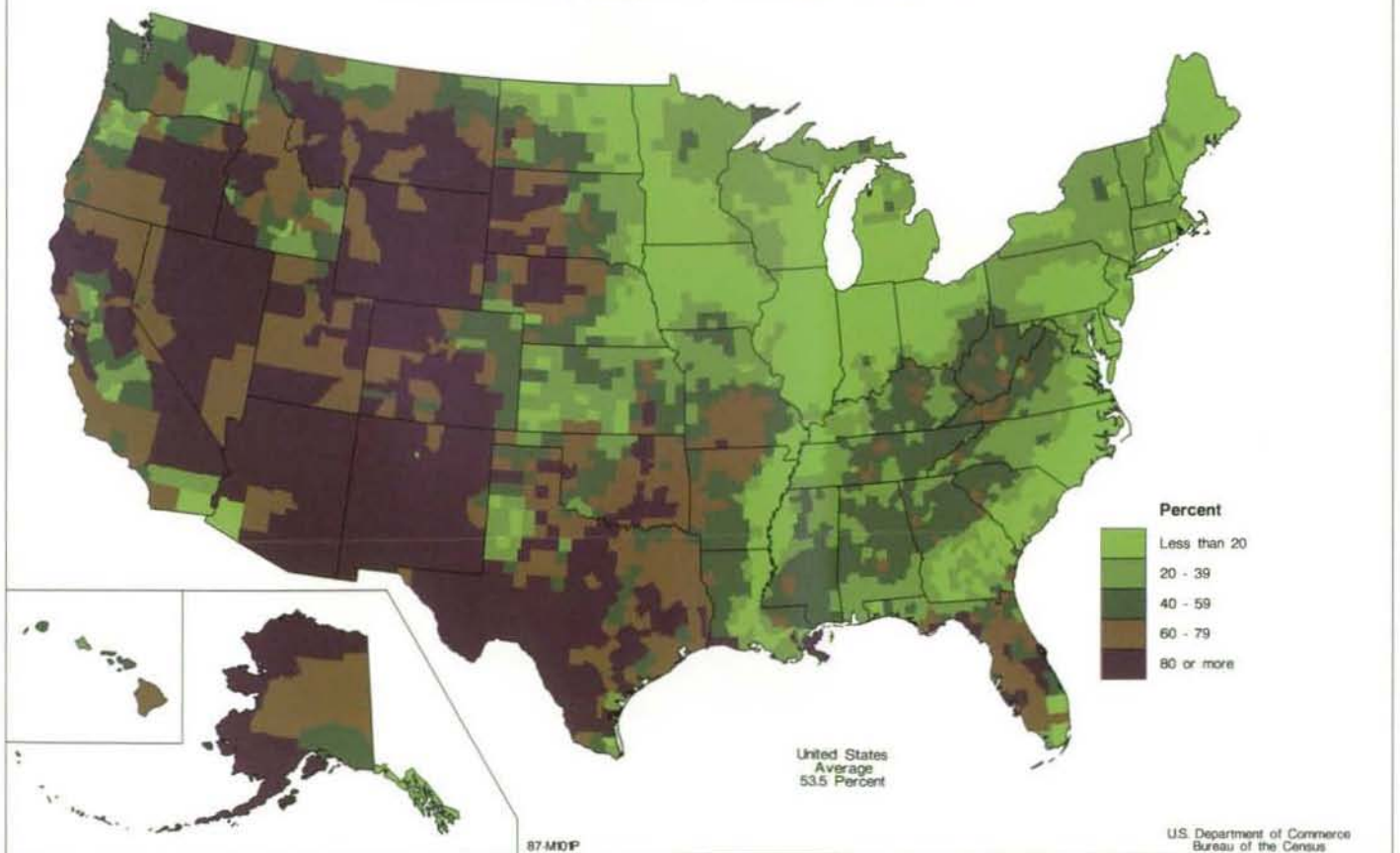


U.S. Department of Commerce  
Bureau of the Census

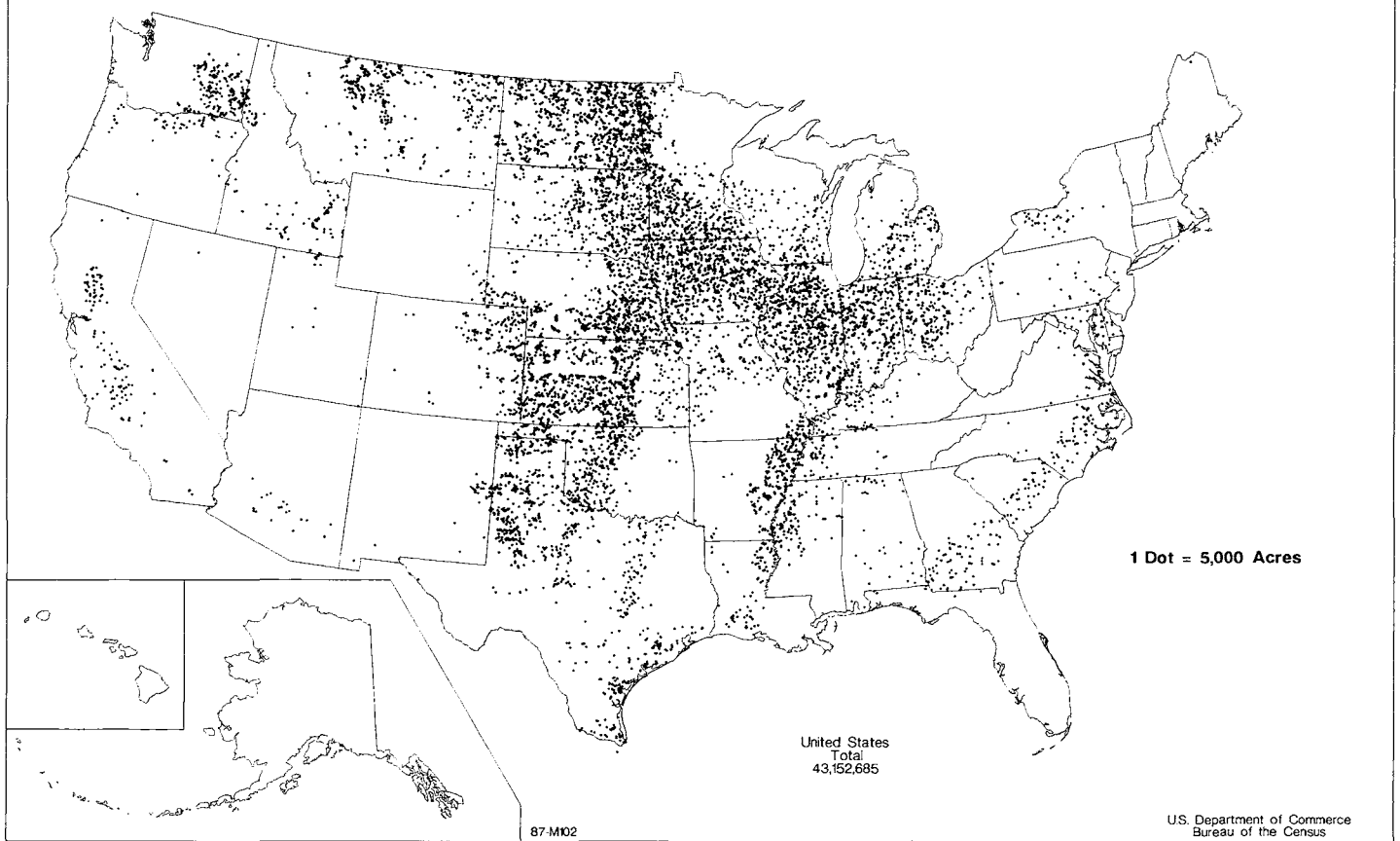
Harvested Cropland as Percent of Land in Farms: 1987



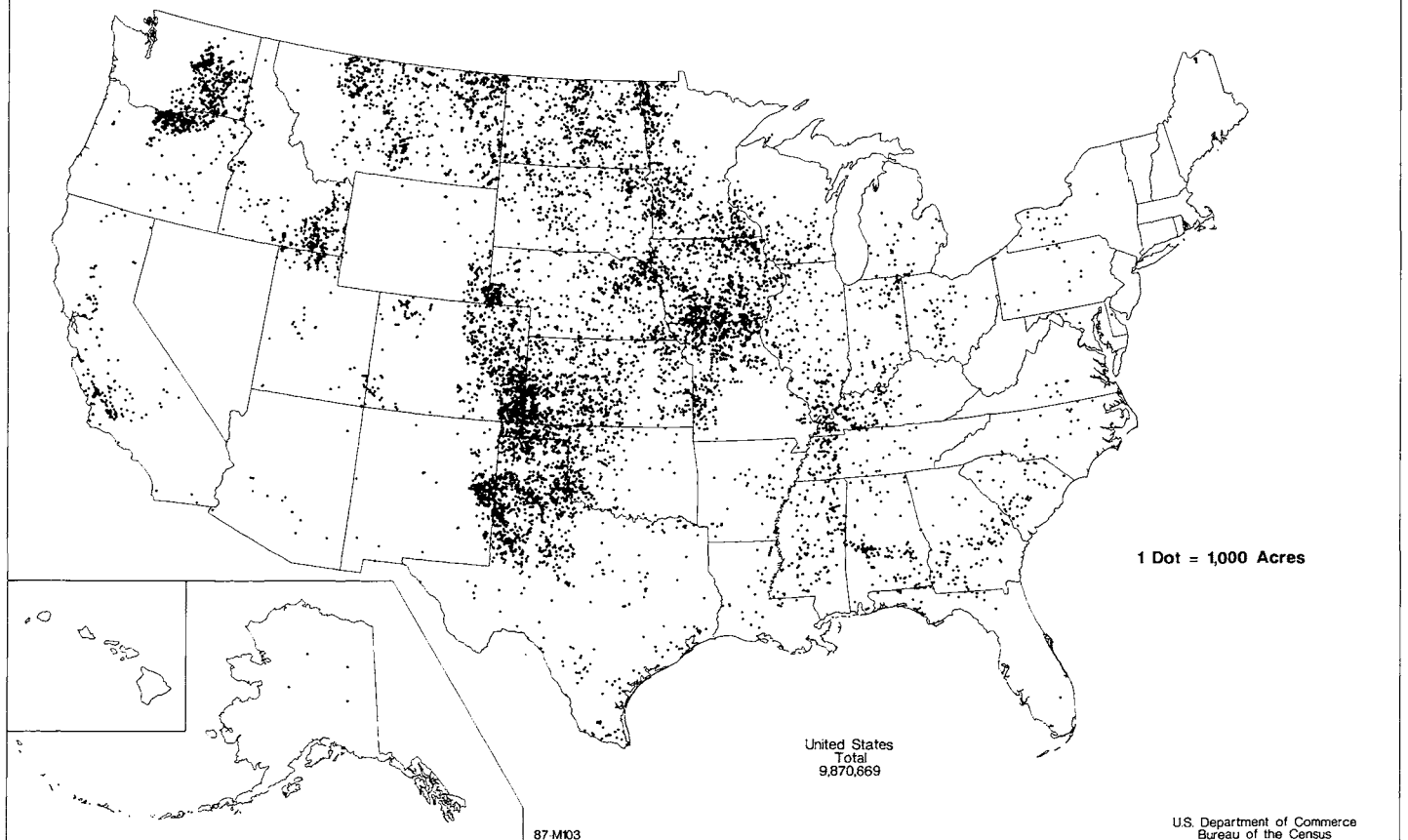
Pastureland as Percent of Land in Farms: 1987



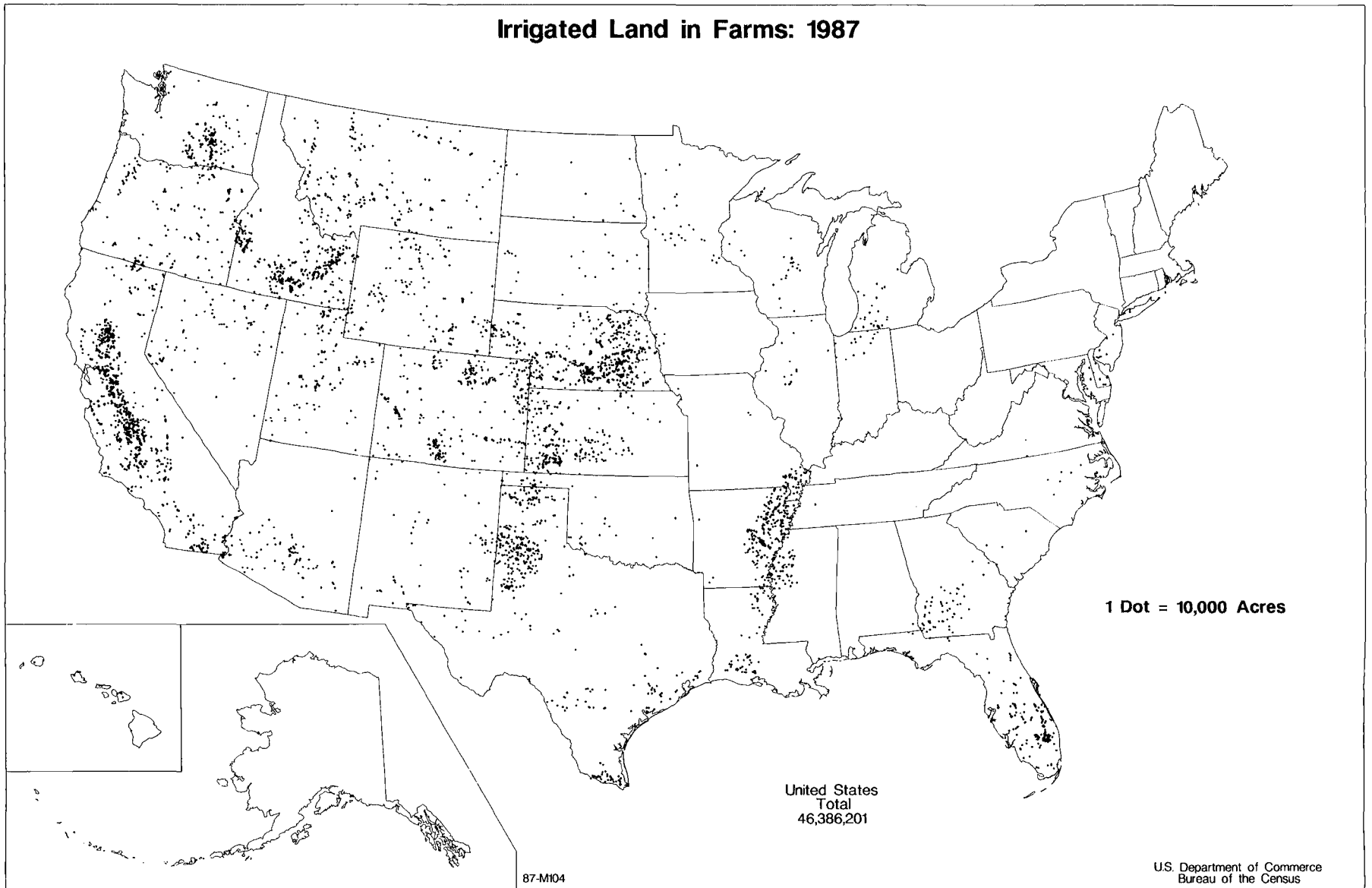
# Acres Idled Under Annual Commodity Acreage Adjustment Program: 1987



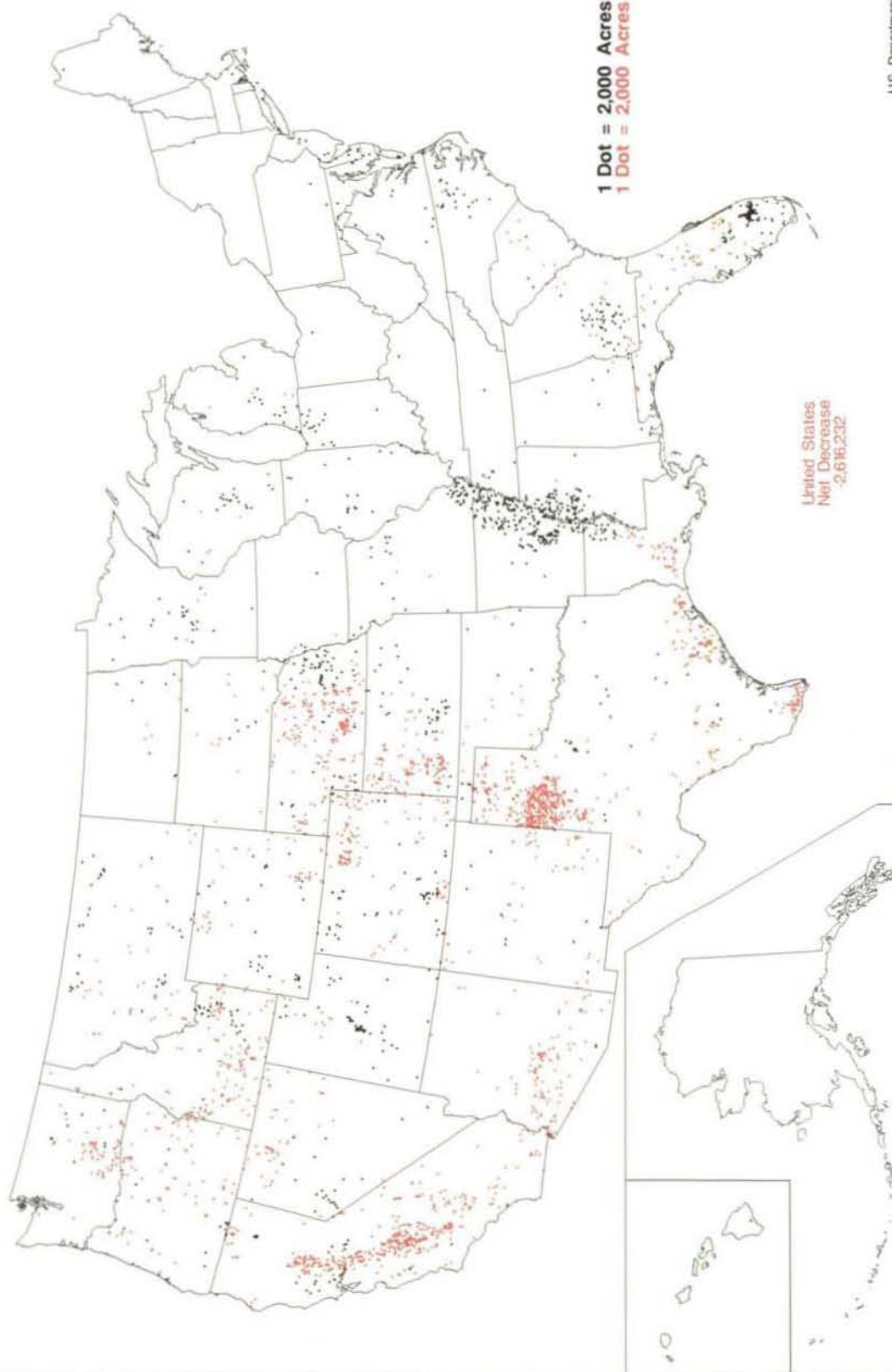
# Acres in Conservation Reserve Program: 1987





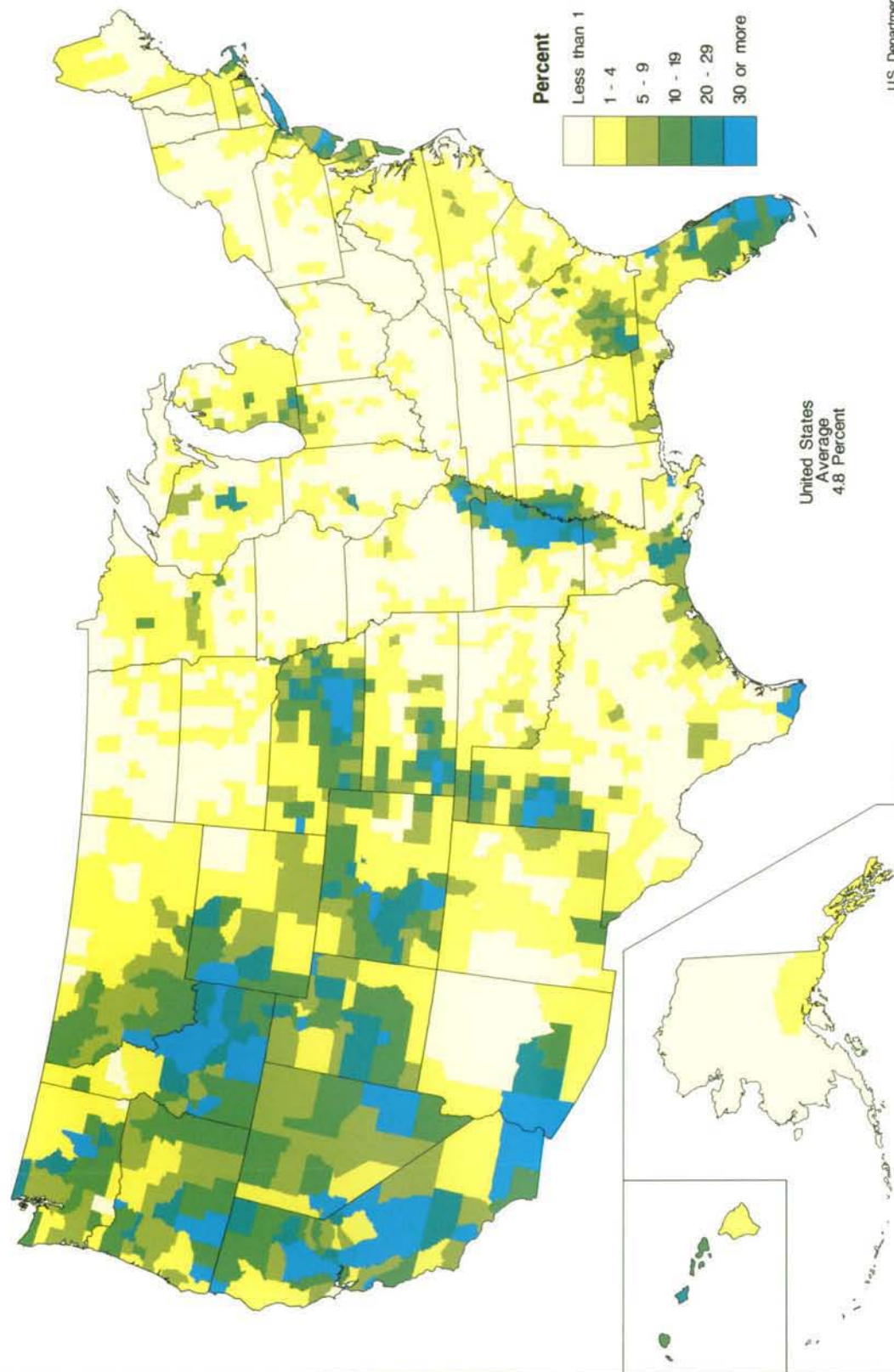


# Irrigated Land - Change in Acreage: 1982 to 1987



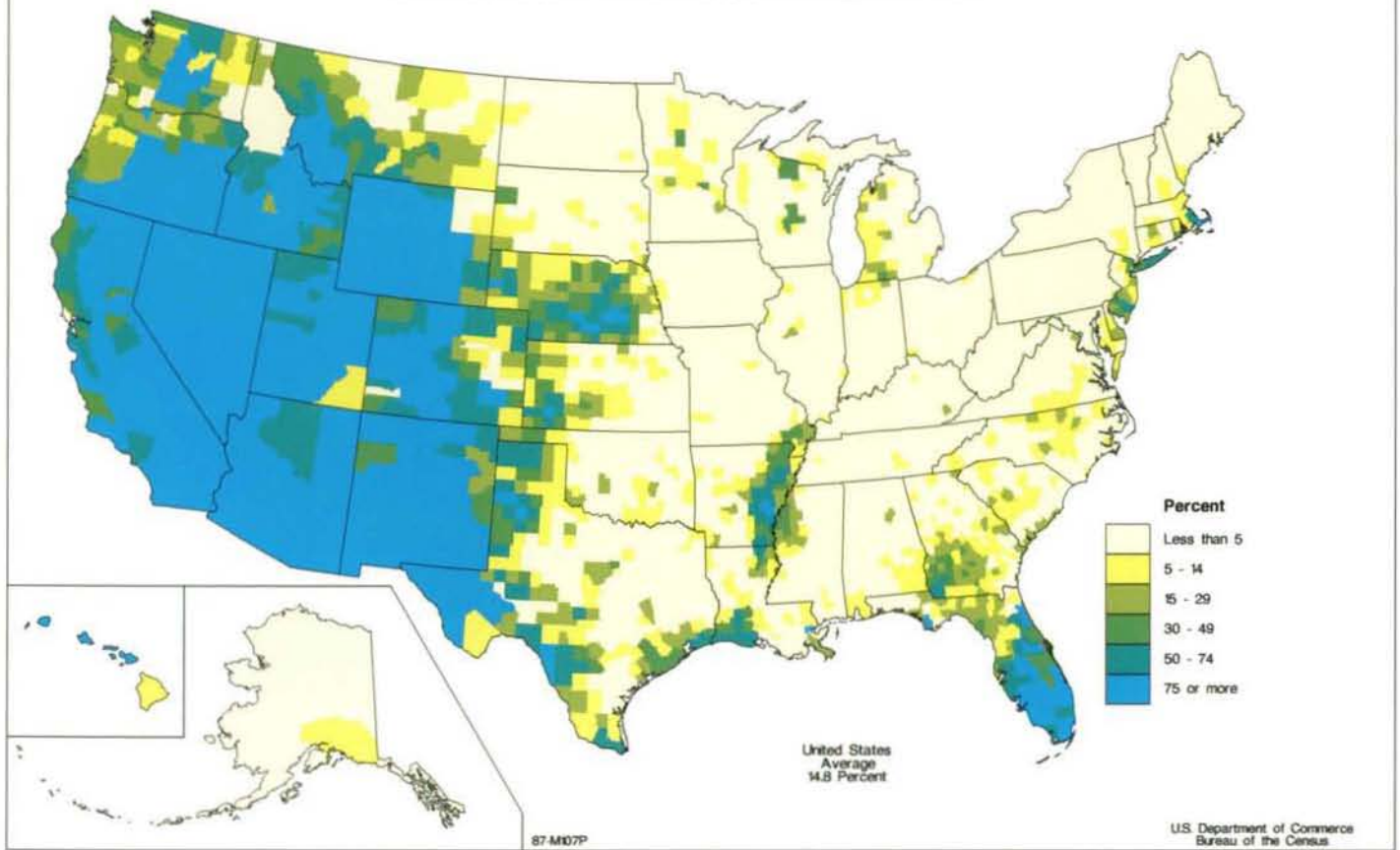
U.S. Department of Commerce  
Bureau of the Census

# Percent of Land in Farms Irrigated: 1987

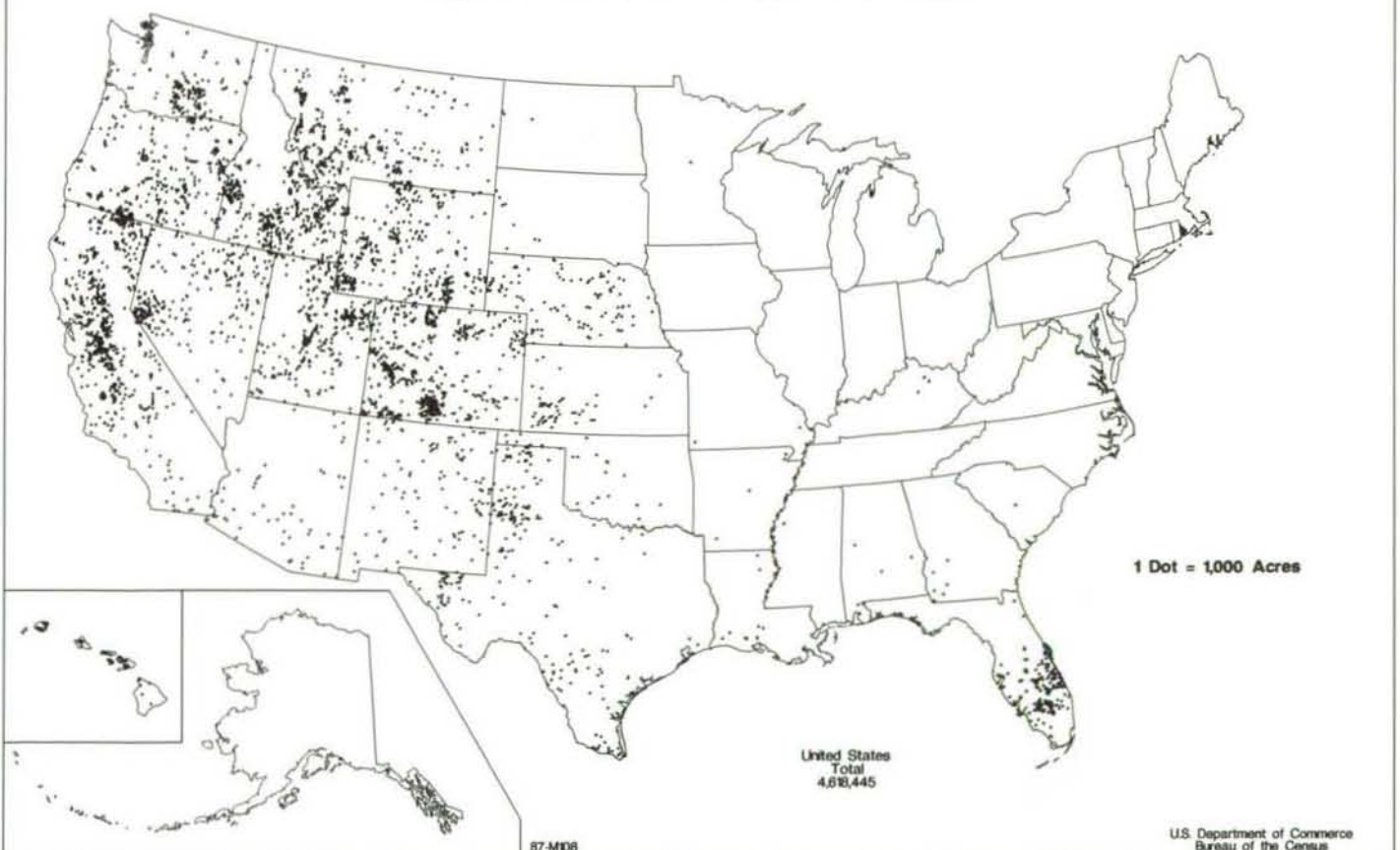




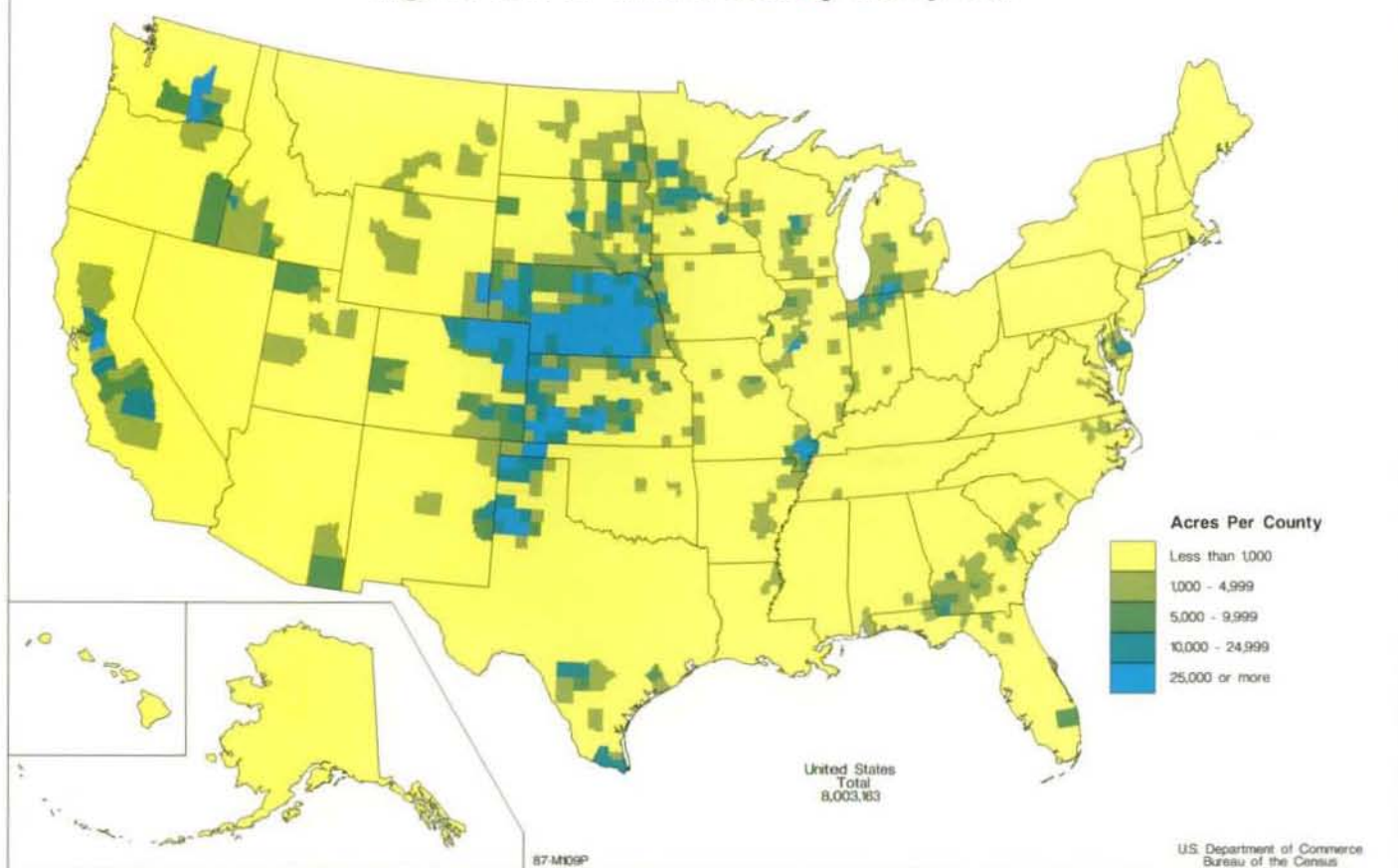
**Percent of Harvested Cropland Irrigated: 1987**



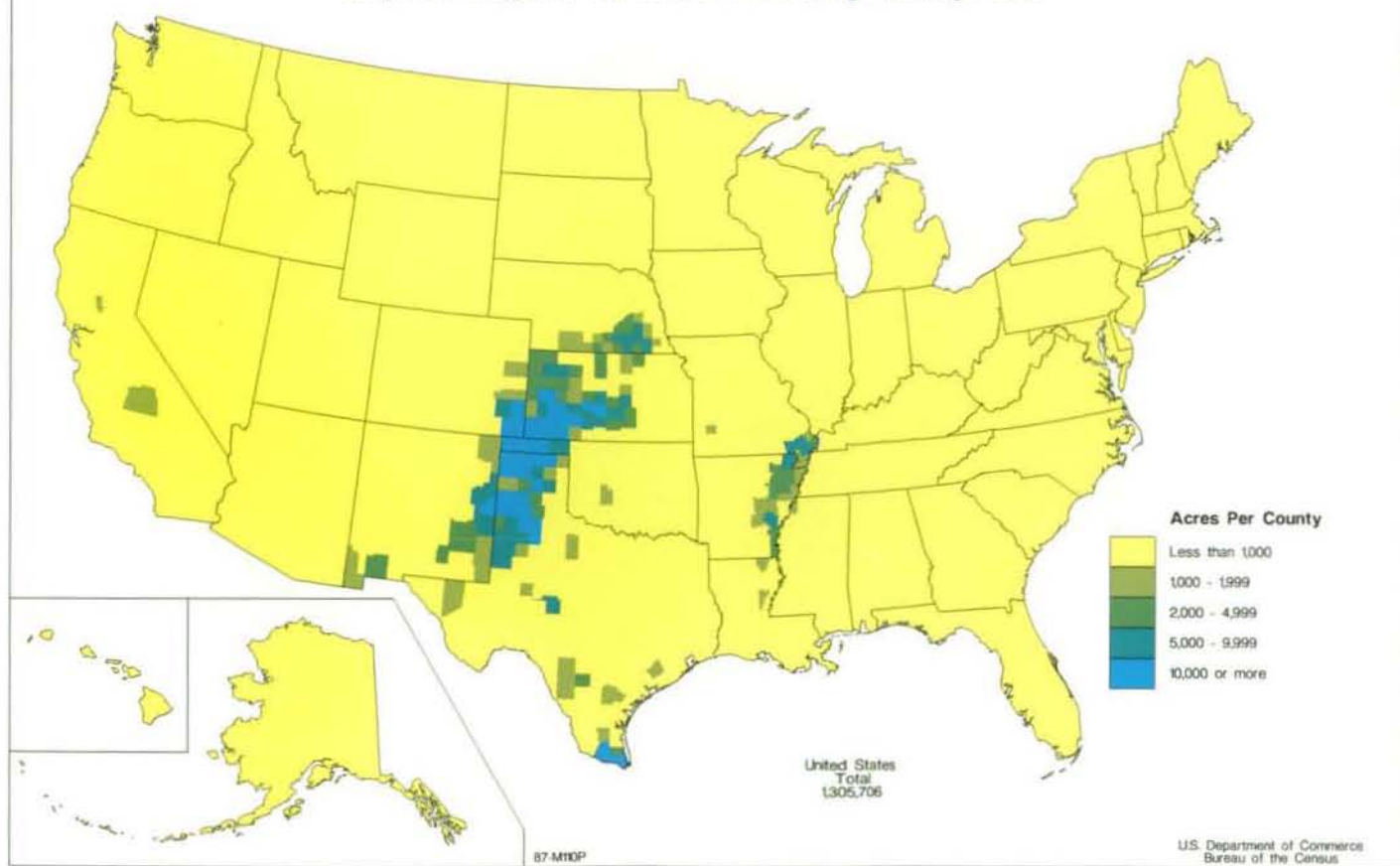
**Irrigated Pastureland and Other Land: 1987**



Irrigated Corn for Grain or Seed by County: 1987

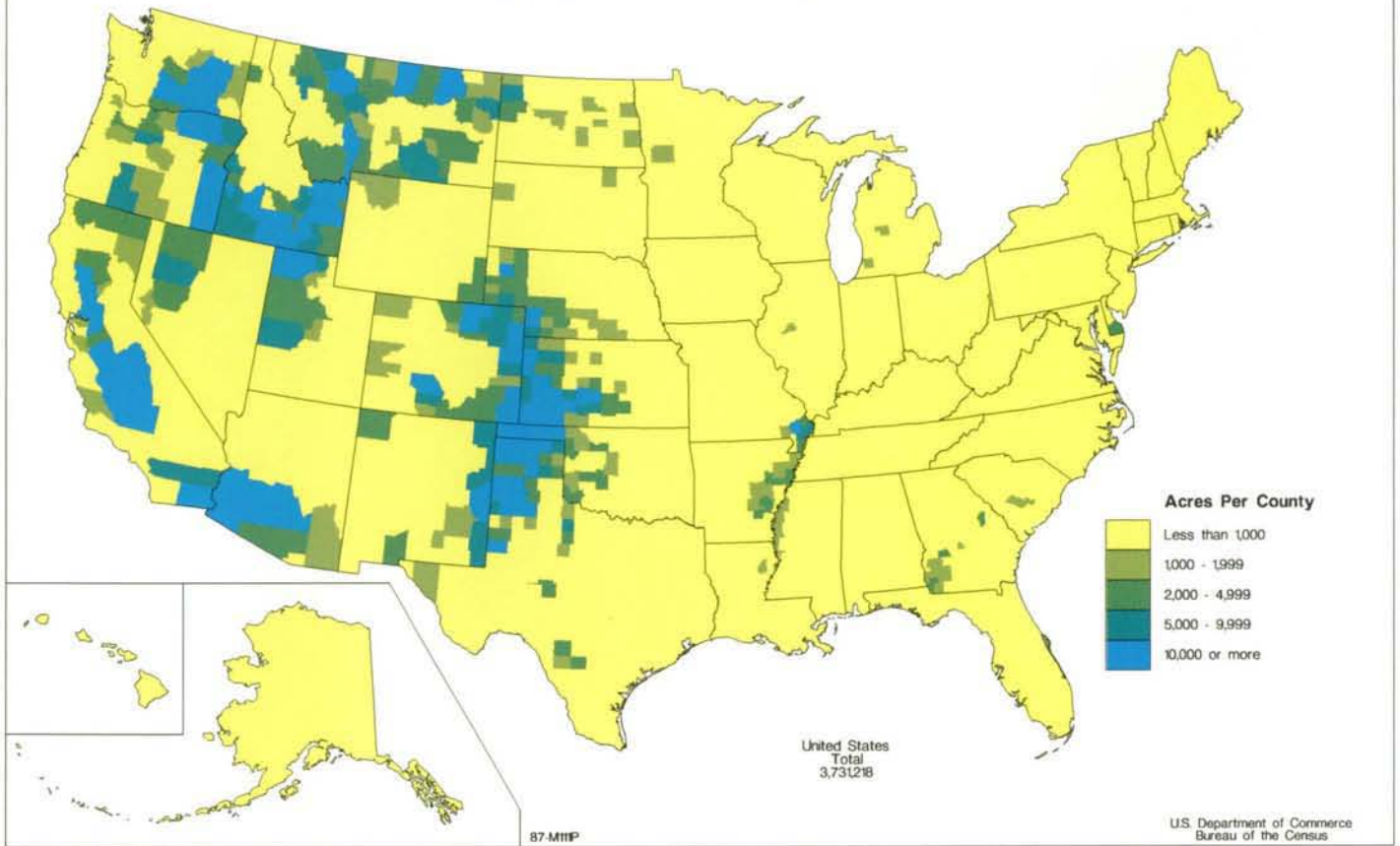


Irrigated Sorghum for Grain or Seed by County: 1987

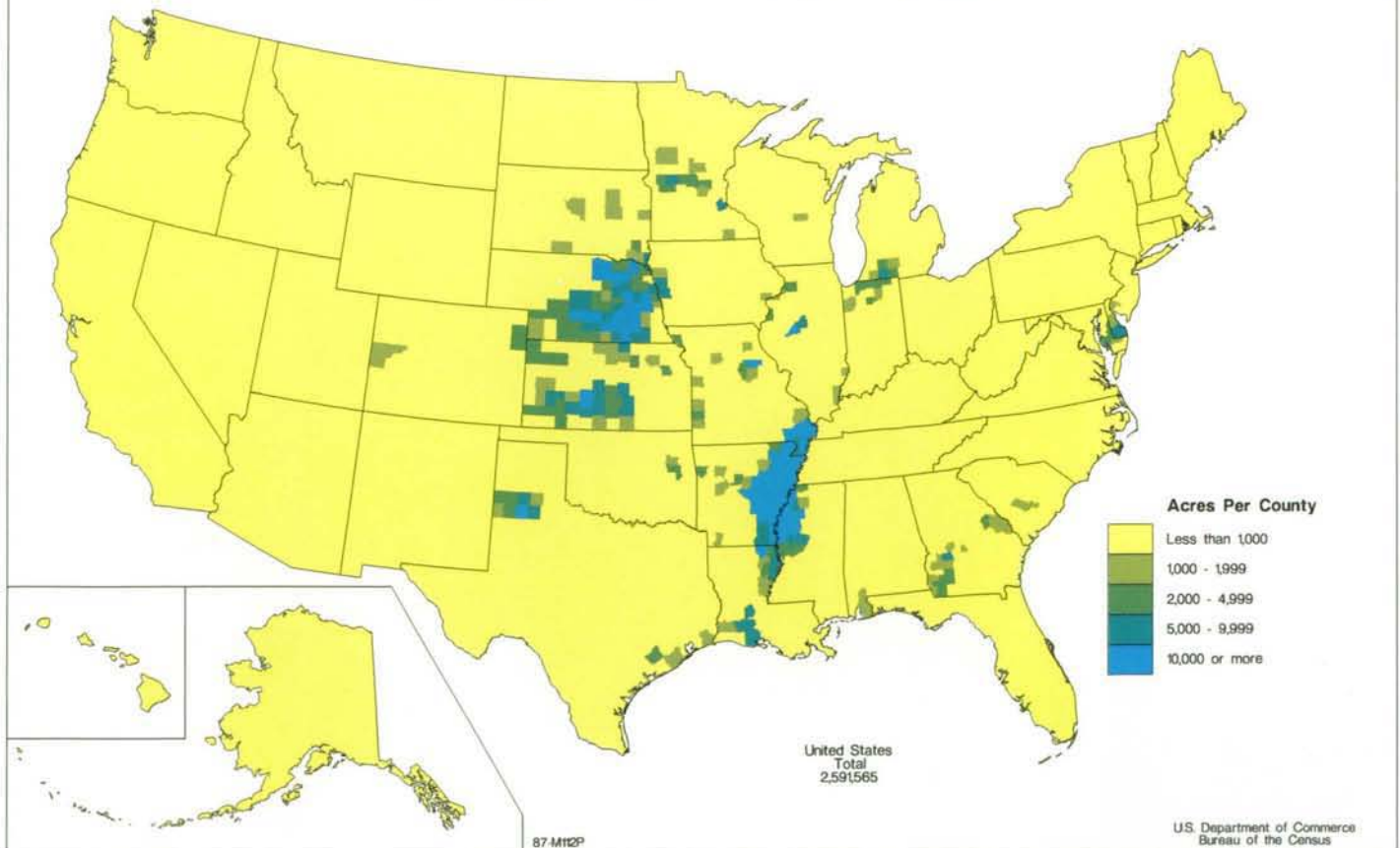




### Irrigated Wheat by County: 1987

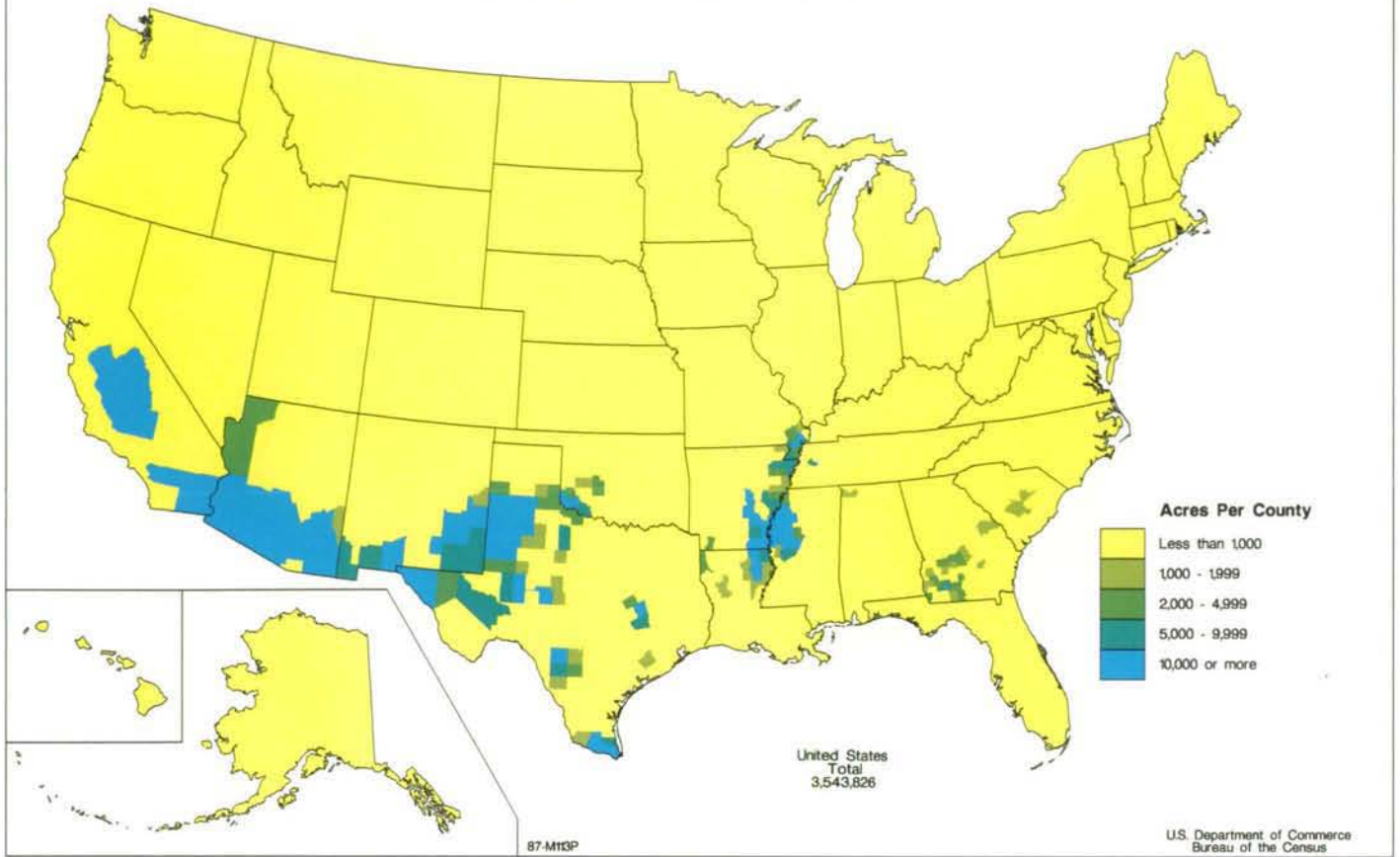


### Irrigated Soybeans for Beans by County: 1987

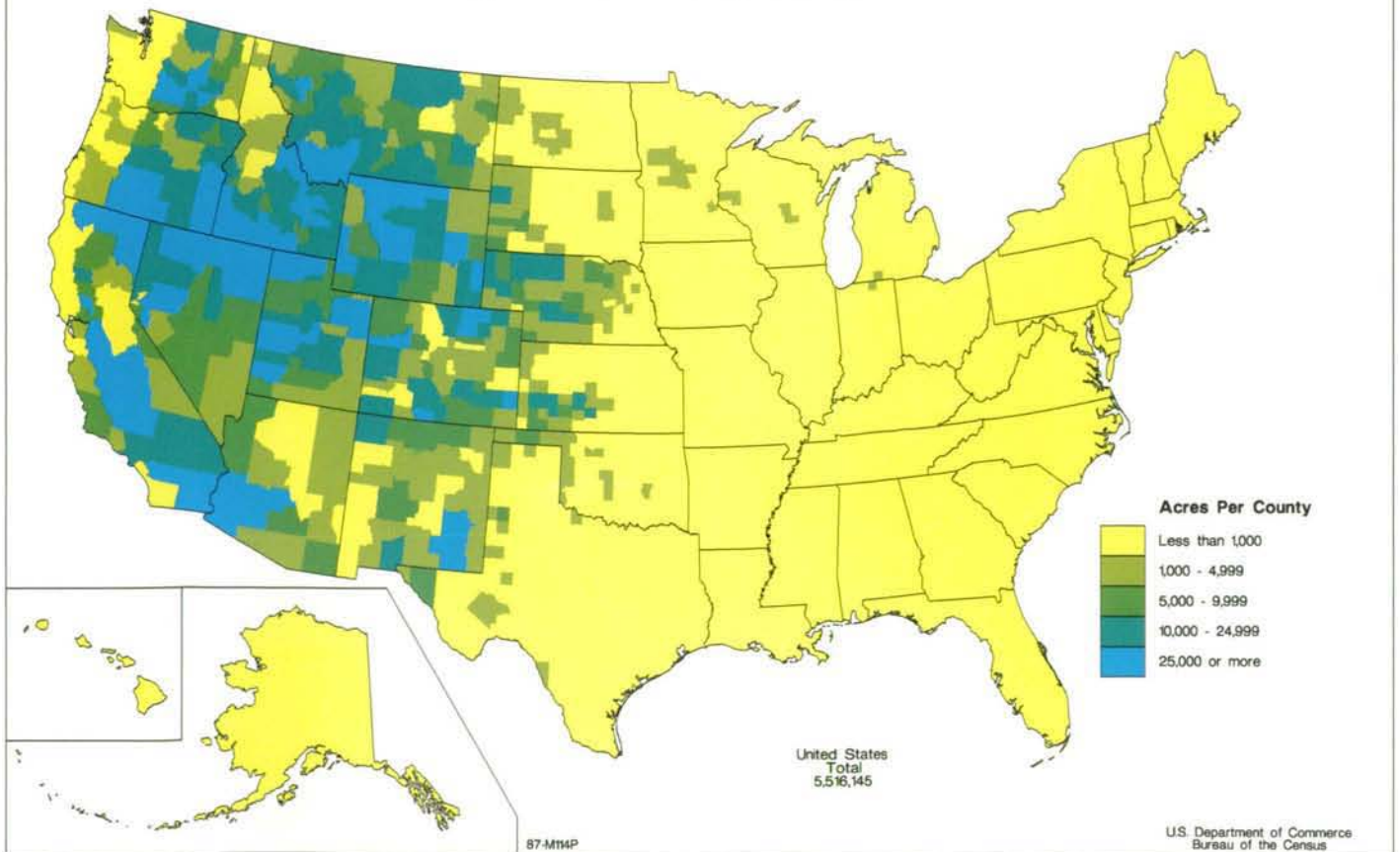




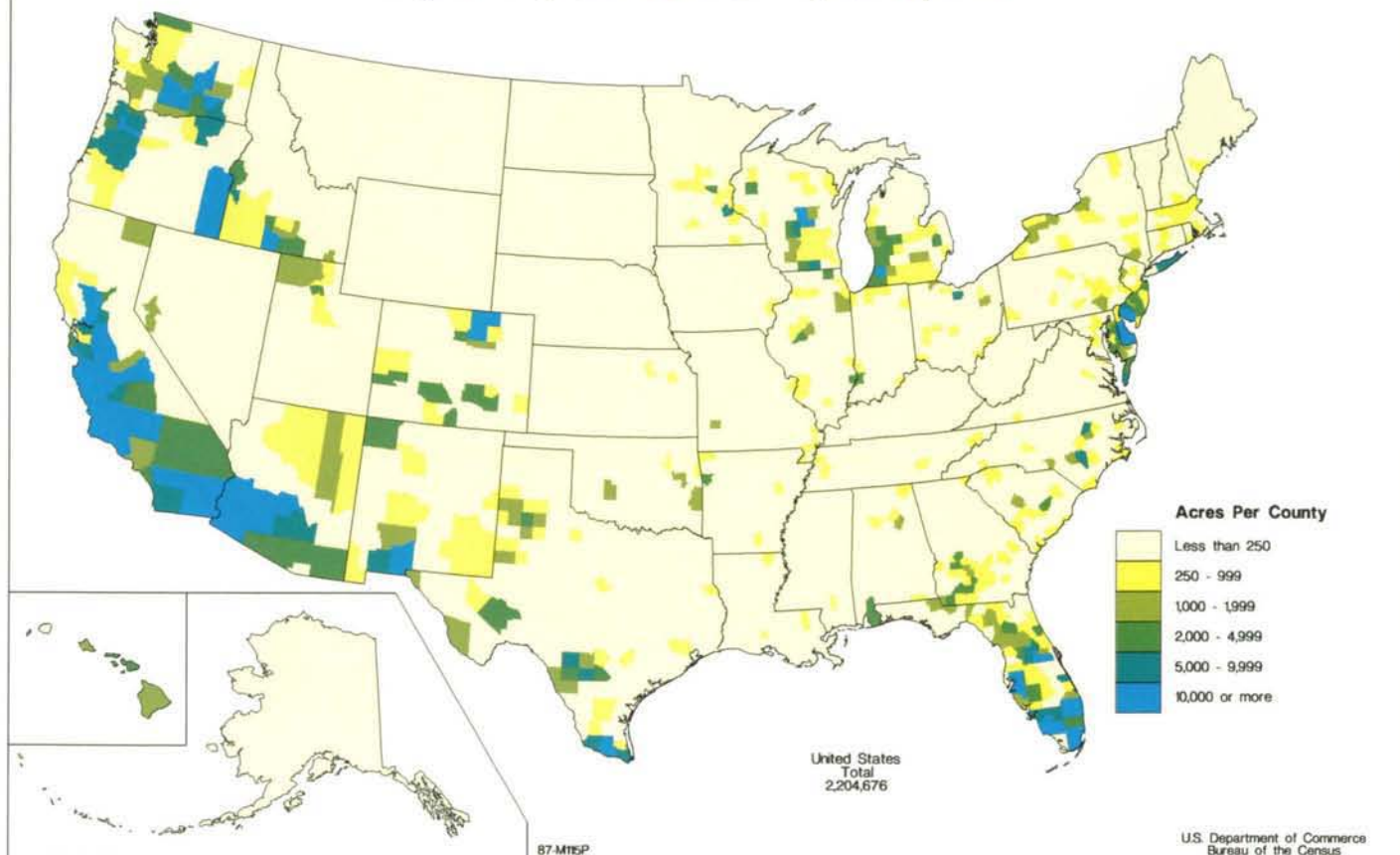
**Irrigated Cotton by County: 1987**



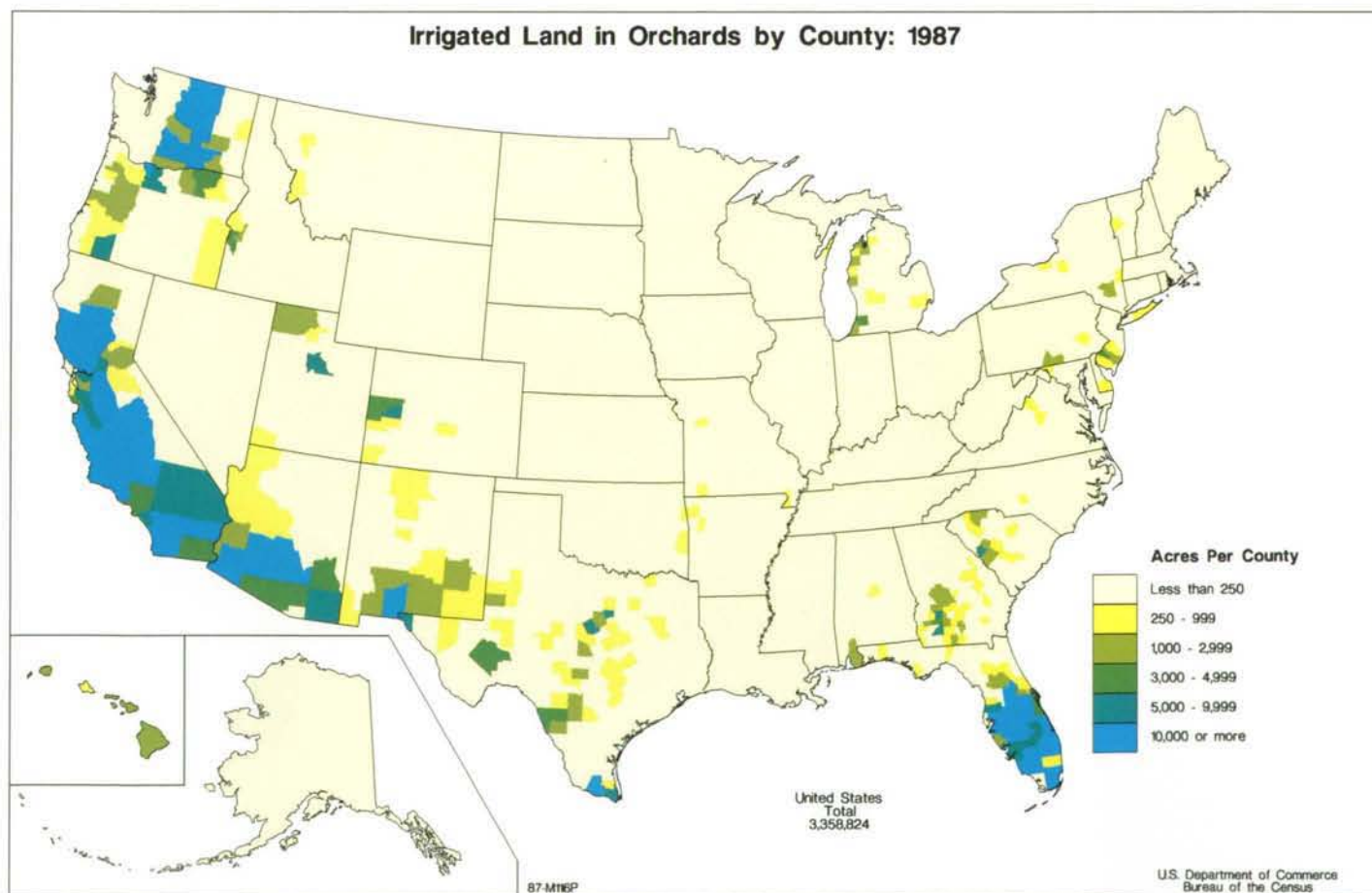
**Irrigated Alfalfa Hay by County: 1987**



### Irrigated Vegetables Harvested by County: 1987

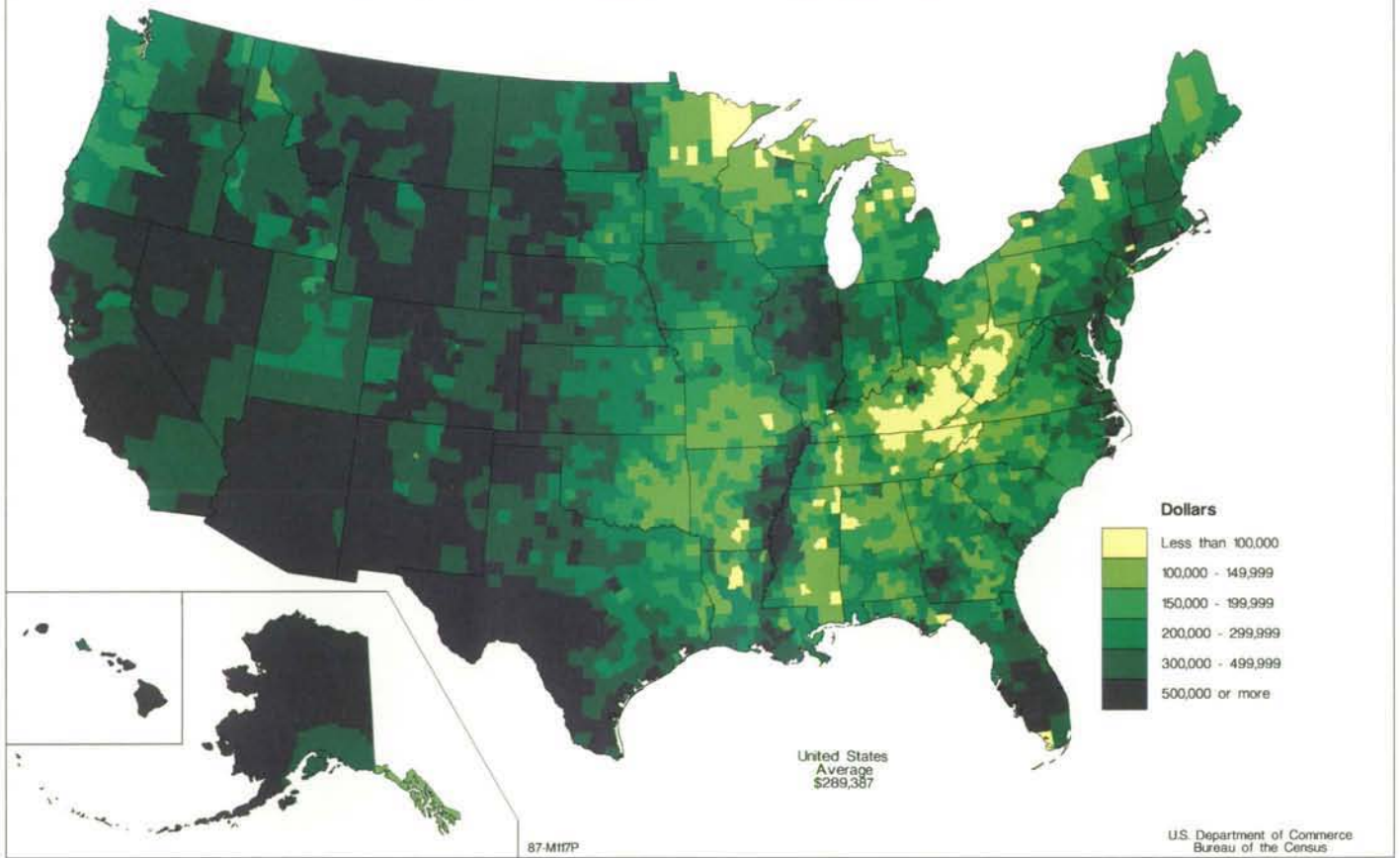


### Irrigated Land in Orchards by County: 1987

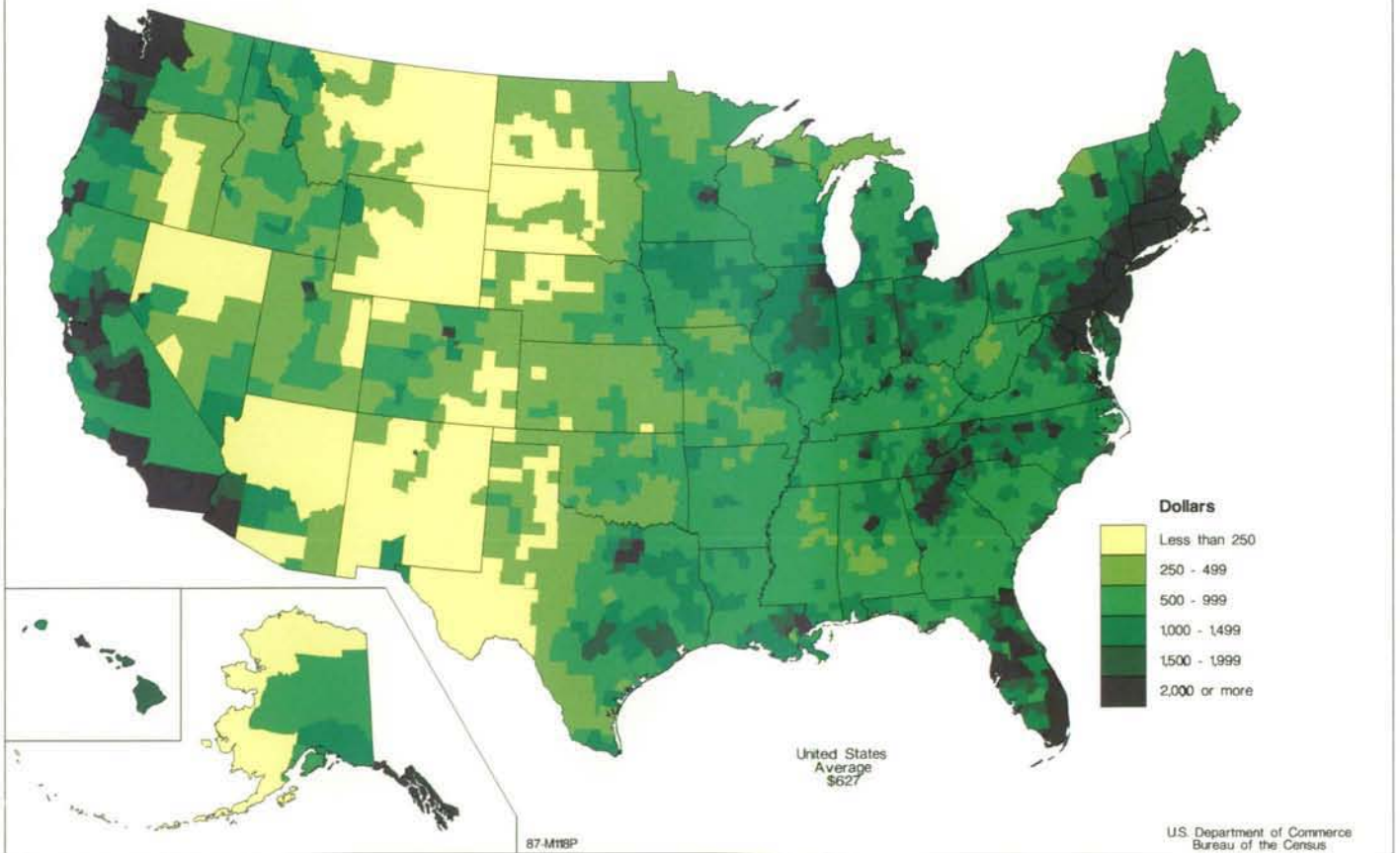




Average Value of Land and Buildings Per Farm: 1987

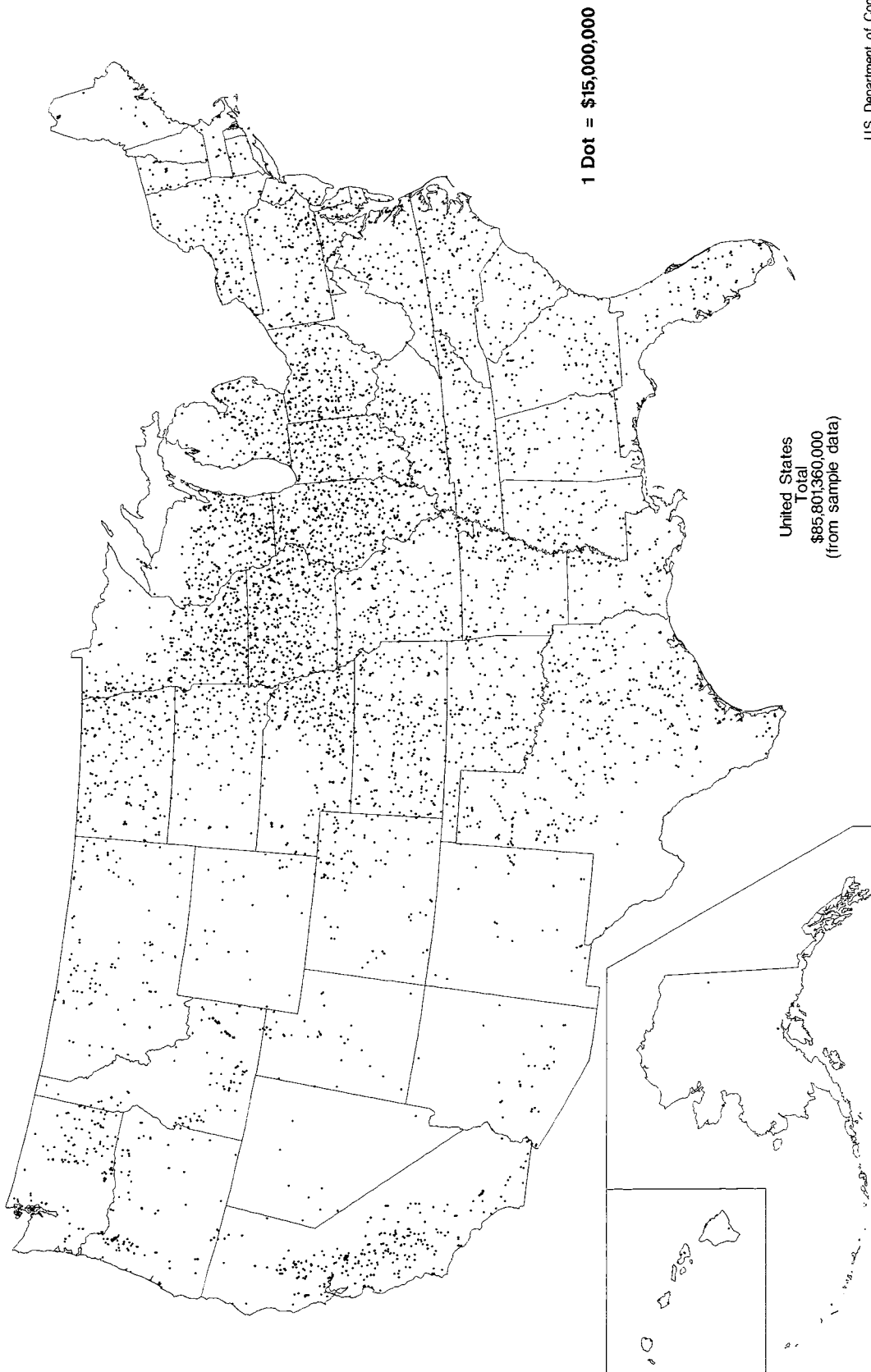


Average Value of Land and Buildings Per Acre of Land in Farms: 1987



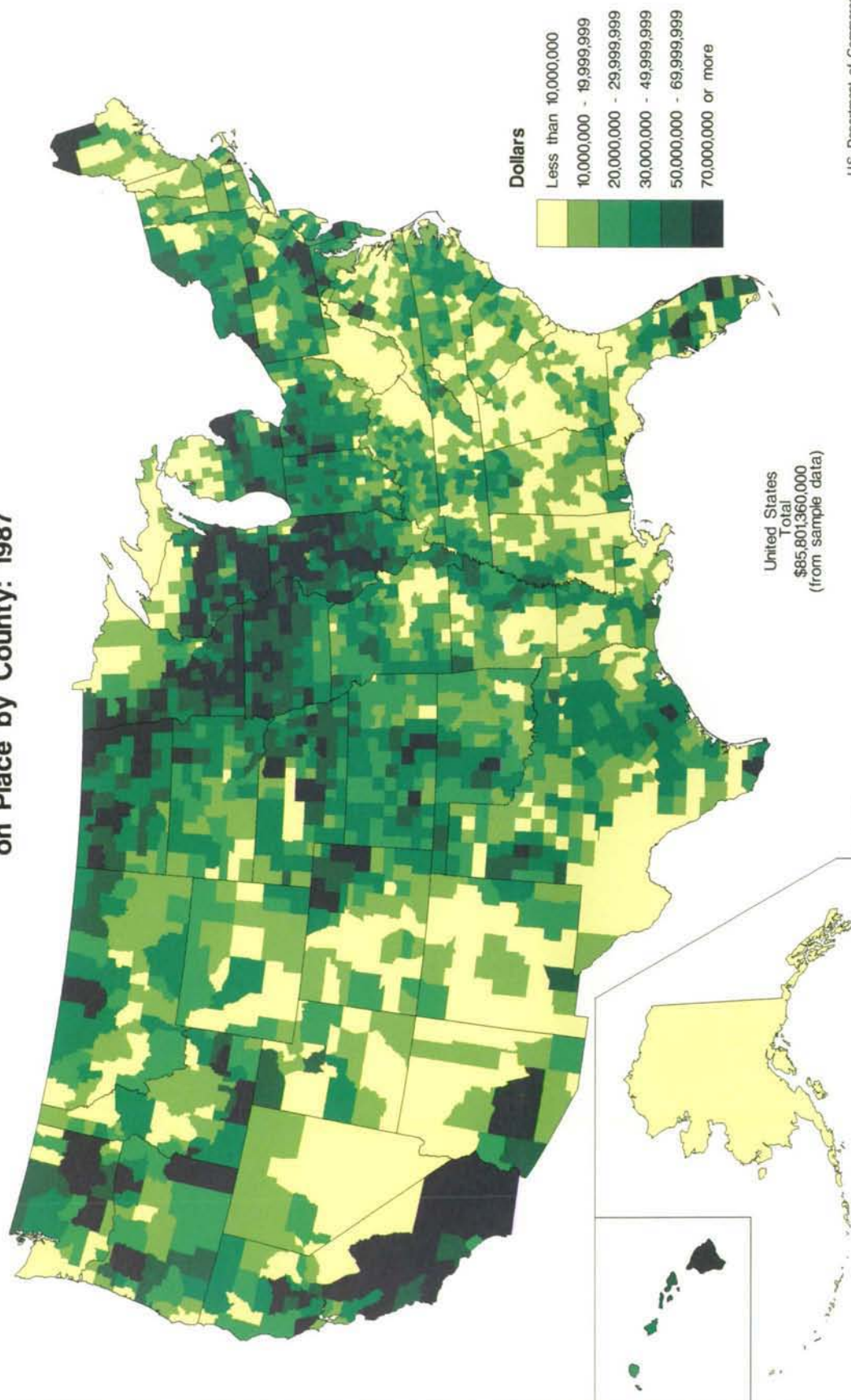


# **Estimated Market Value of All Machinery and Equipment on Place: 1987**

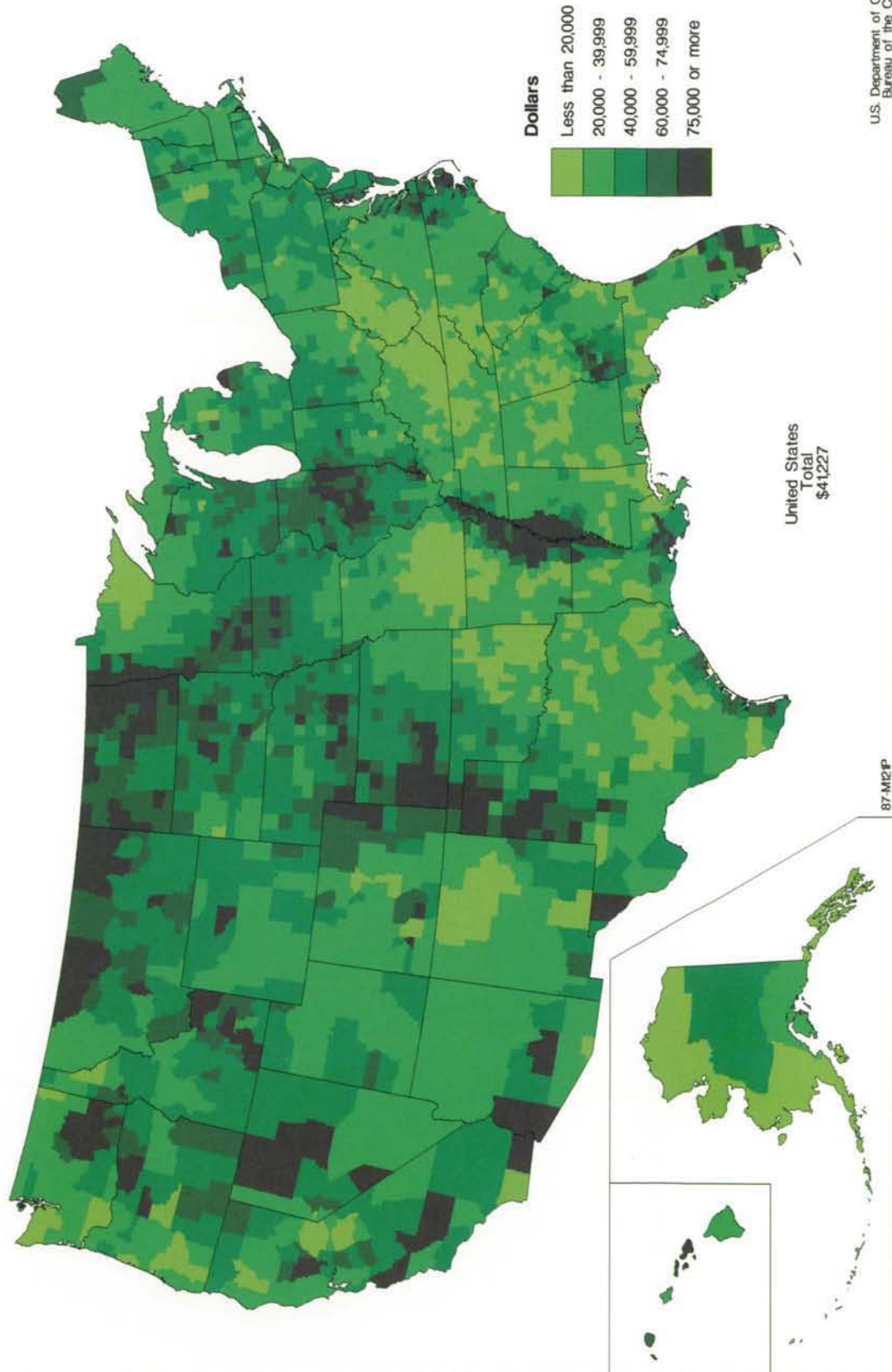


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# **Estimated Market Value of All Machinery and Equipment on Place by County: 1987**

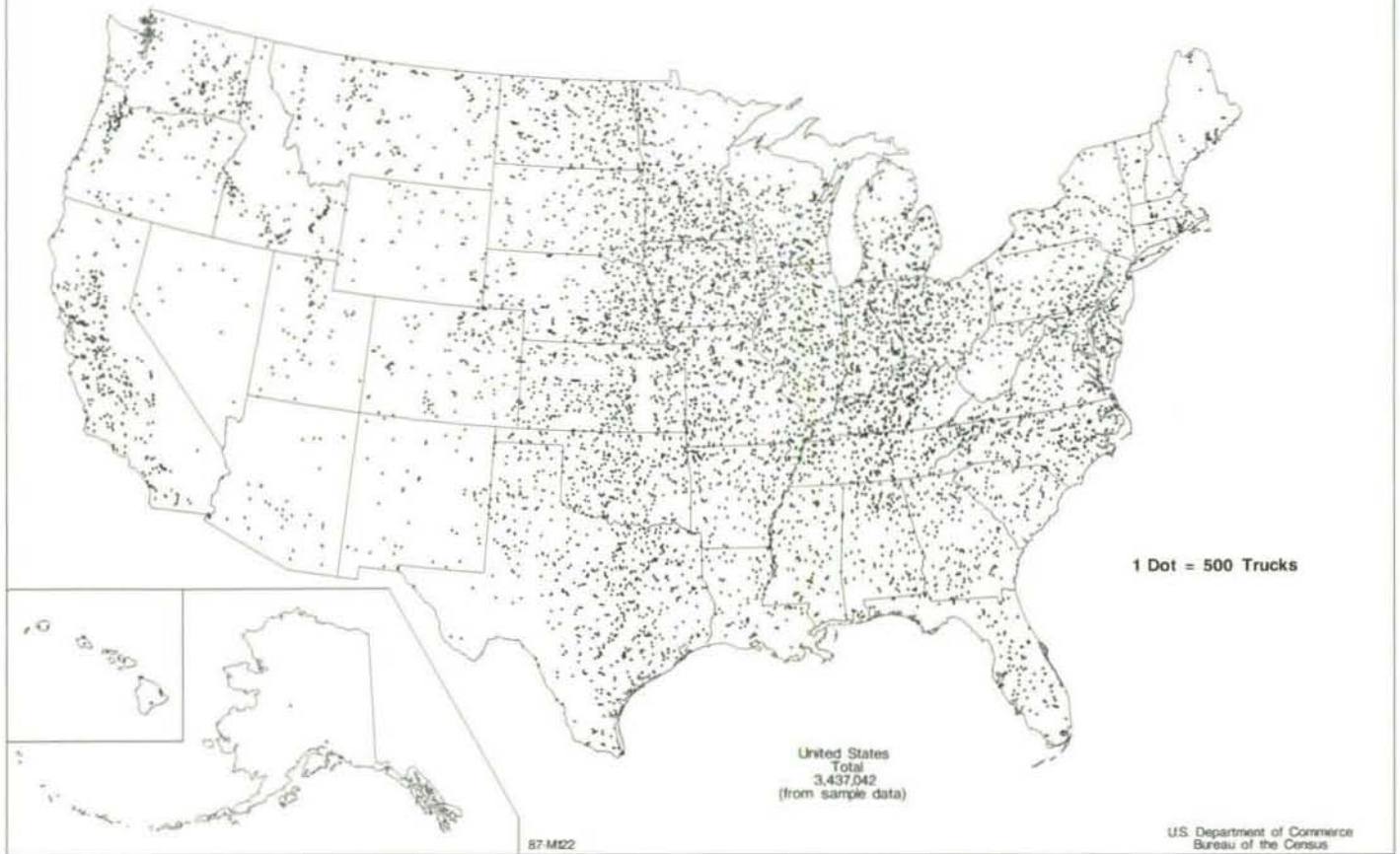


# Average Market Value of All Machinery and Equipment Per Farm: 1987

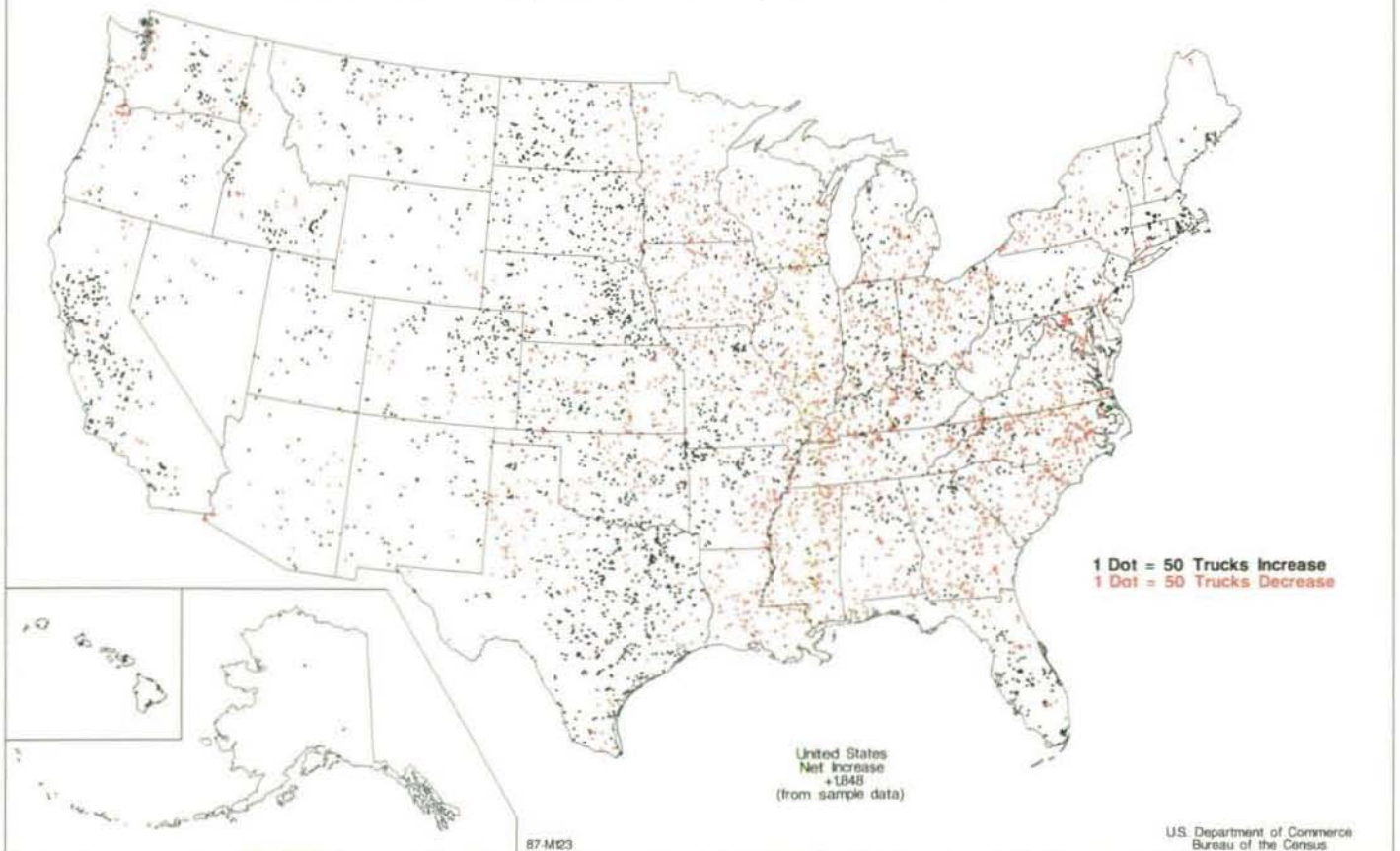




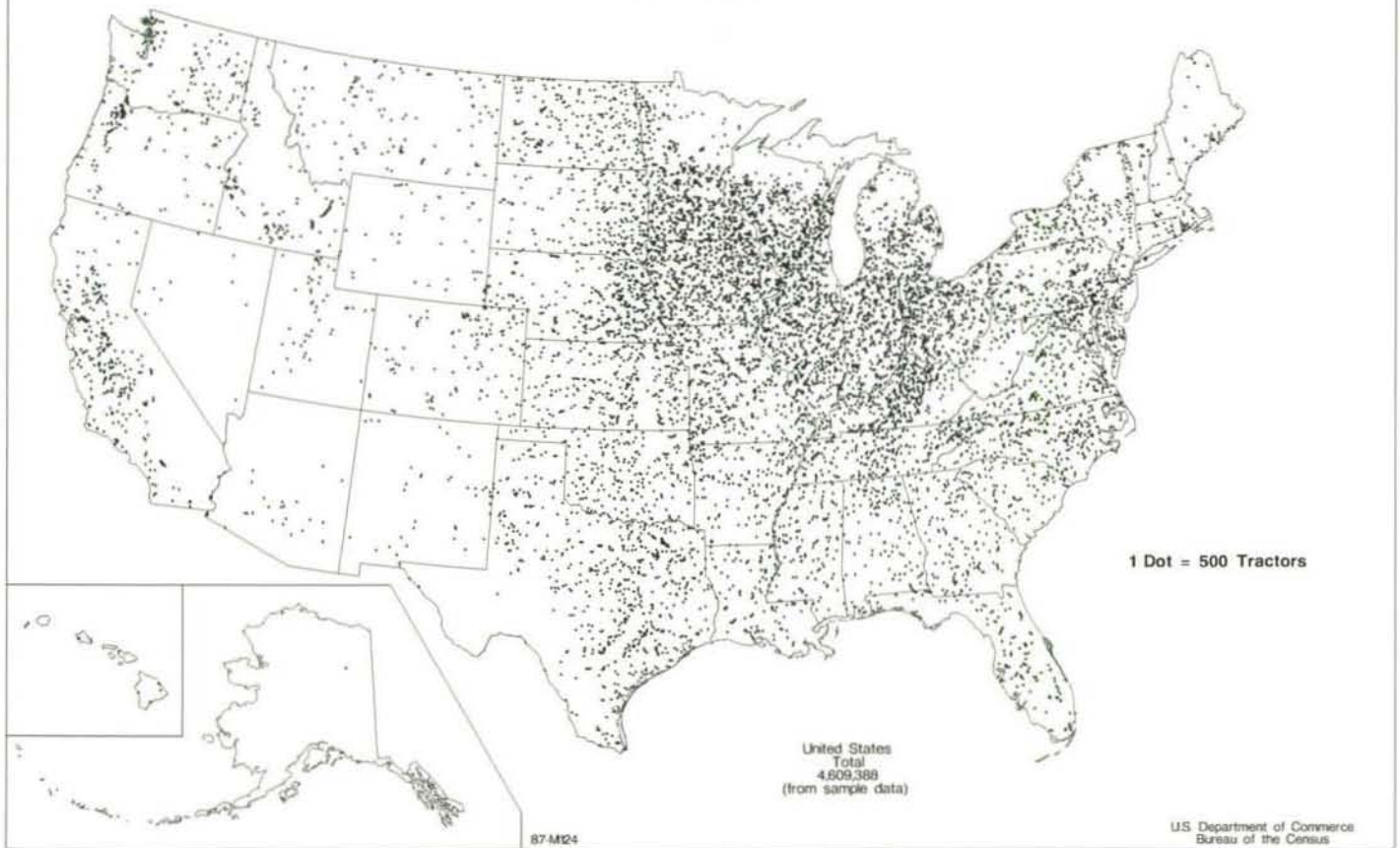
### Motortrucks, Including Pickups: 1987



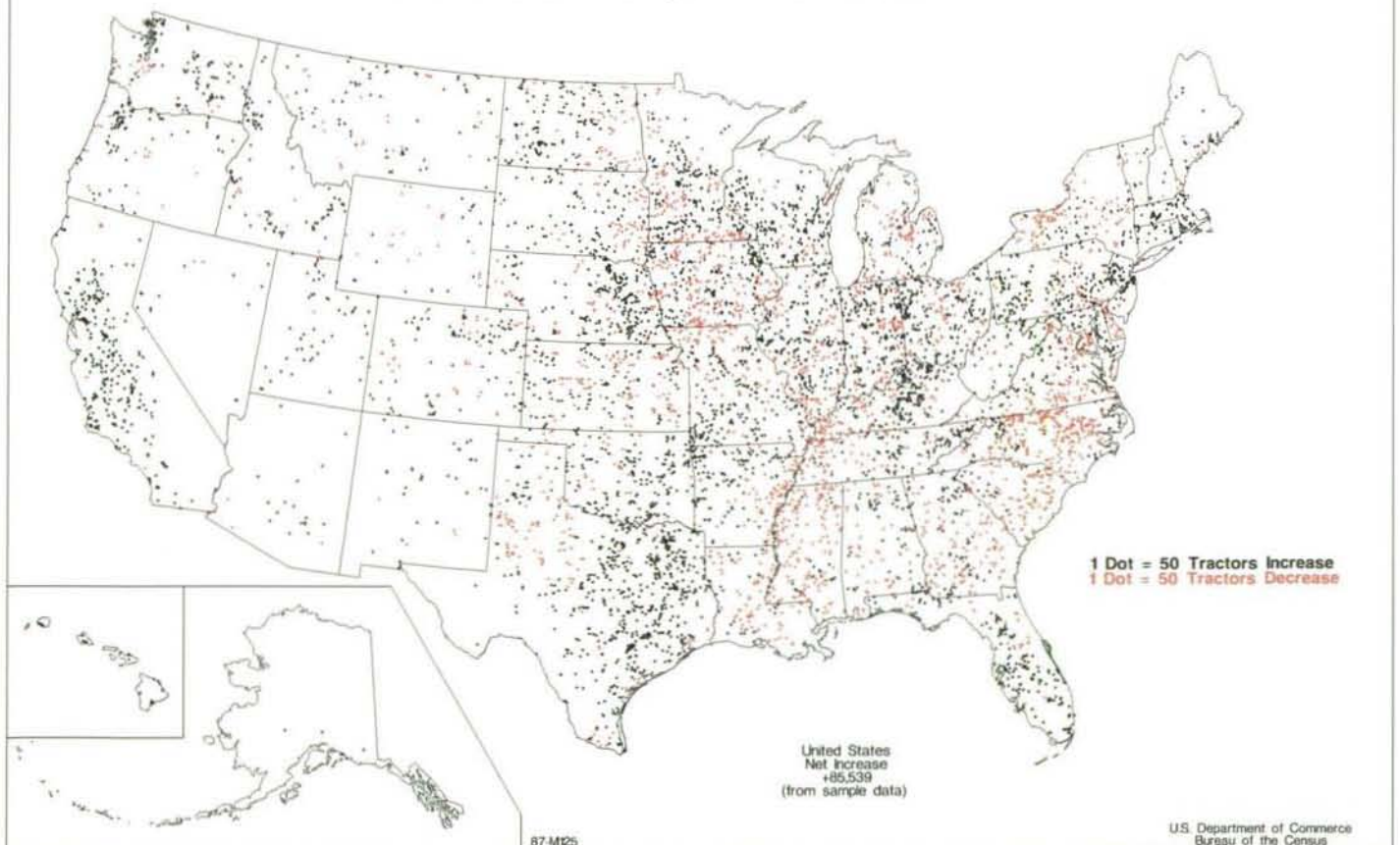
### Motortrucks, Including Pickups - Change in Number: 1982 to 1987



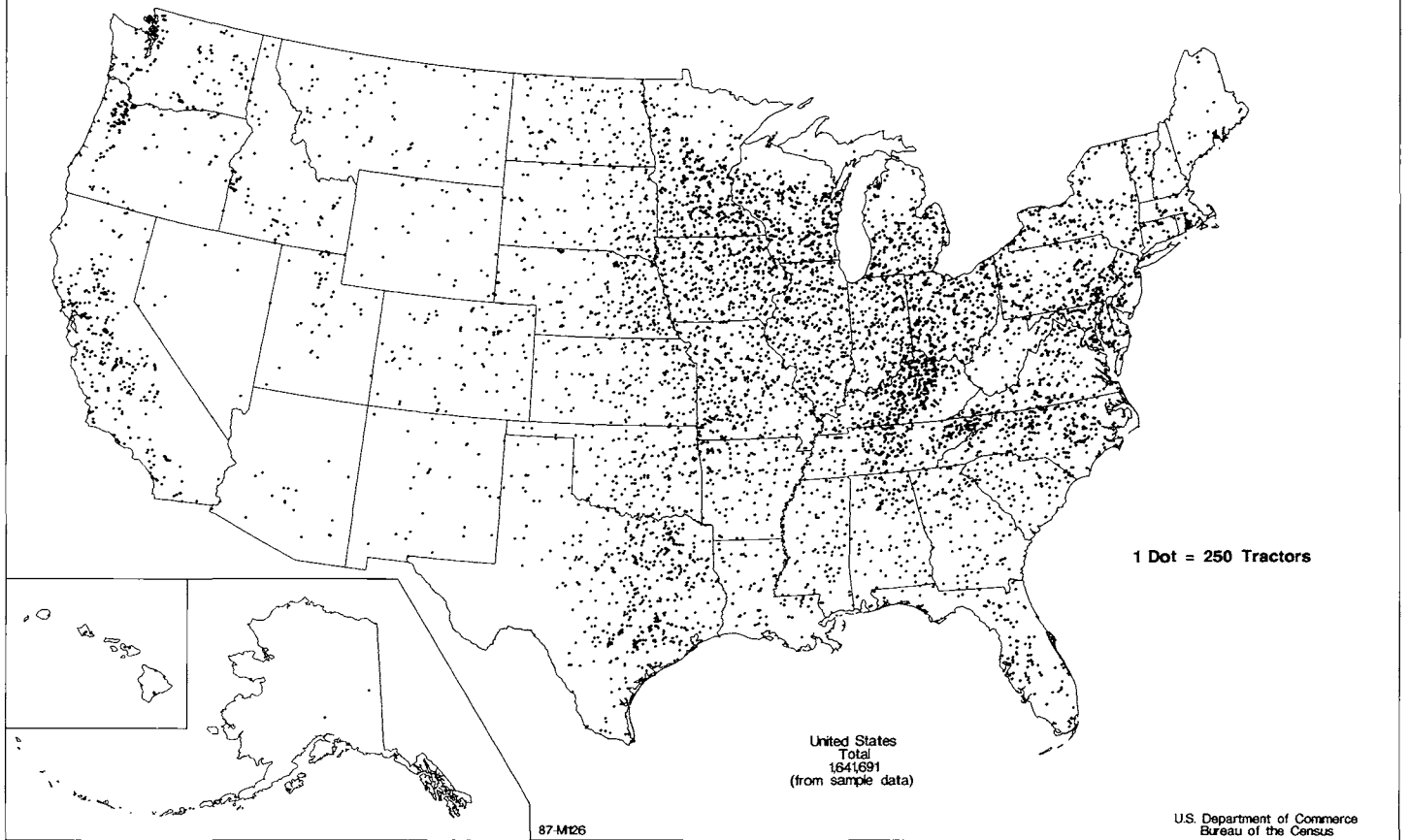
### Wheel Tractors: 1987



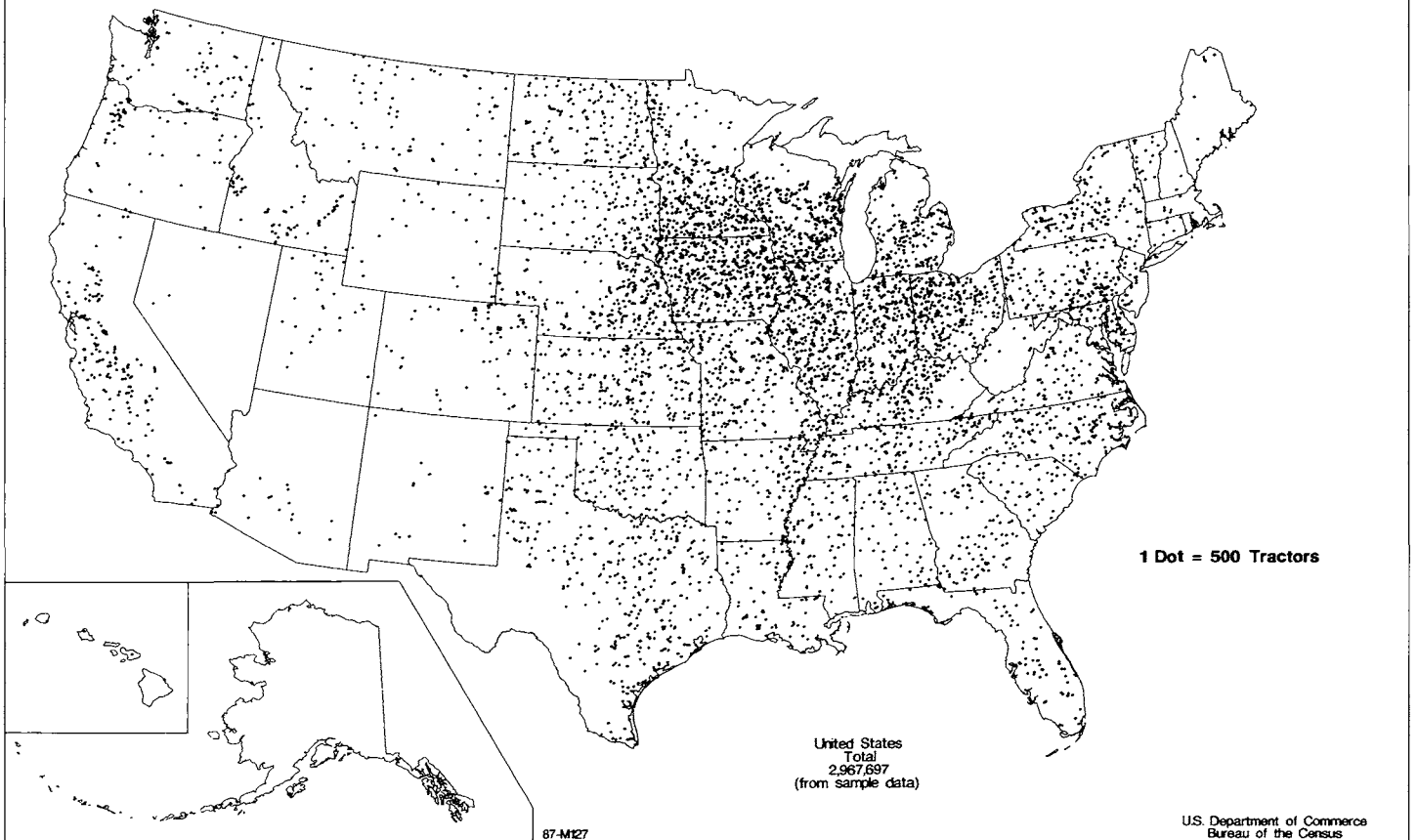
### Wheel Tractors - Change in Number: 1982 to 1987



### Wheel Tractors of Less Than 40 Horsepower (PTO): 1987

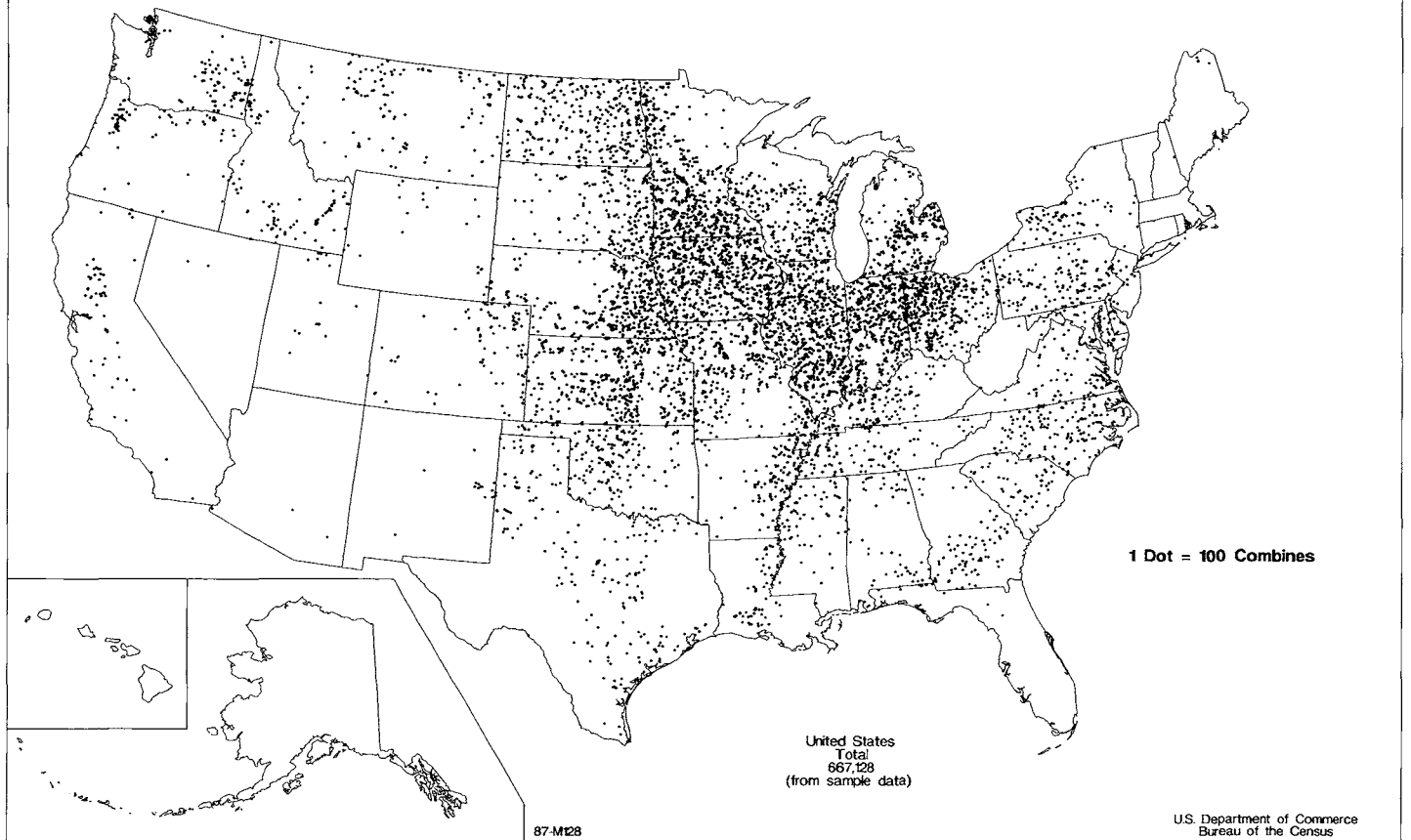


### Wheel Tractors of 40 Horsepower (PTO) or More: 1987

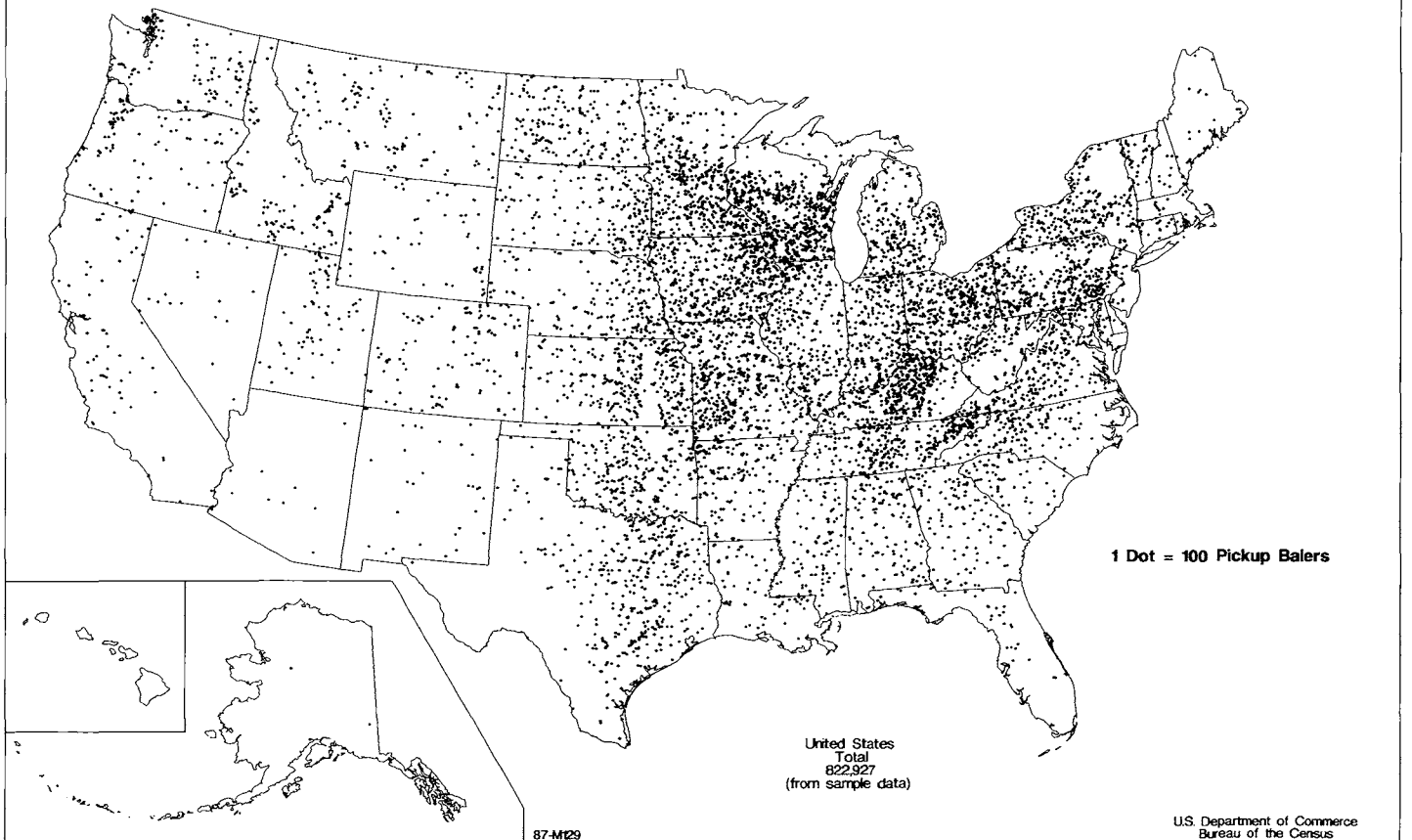




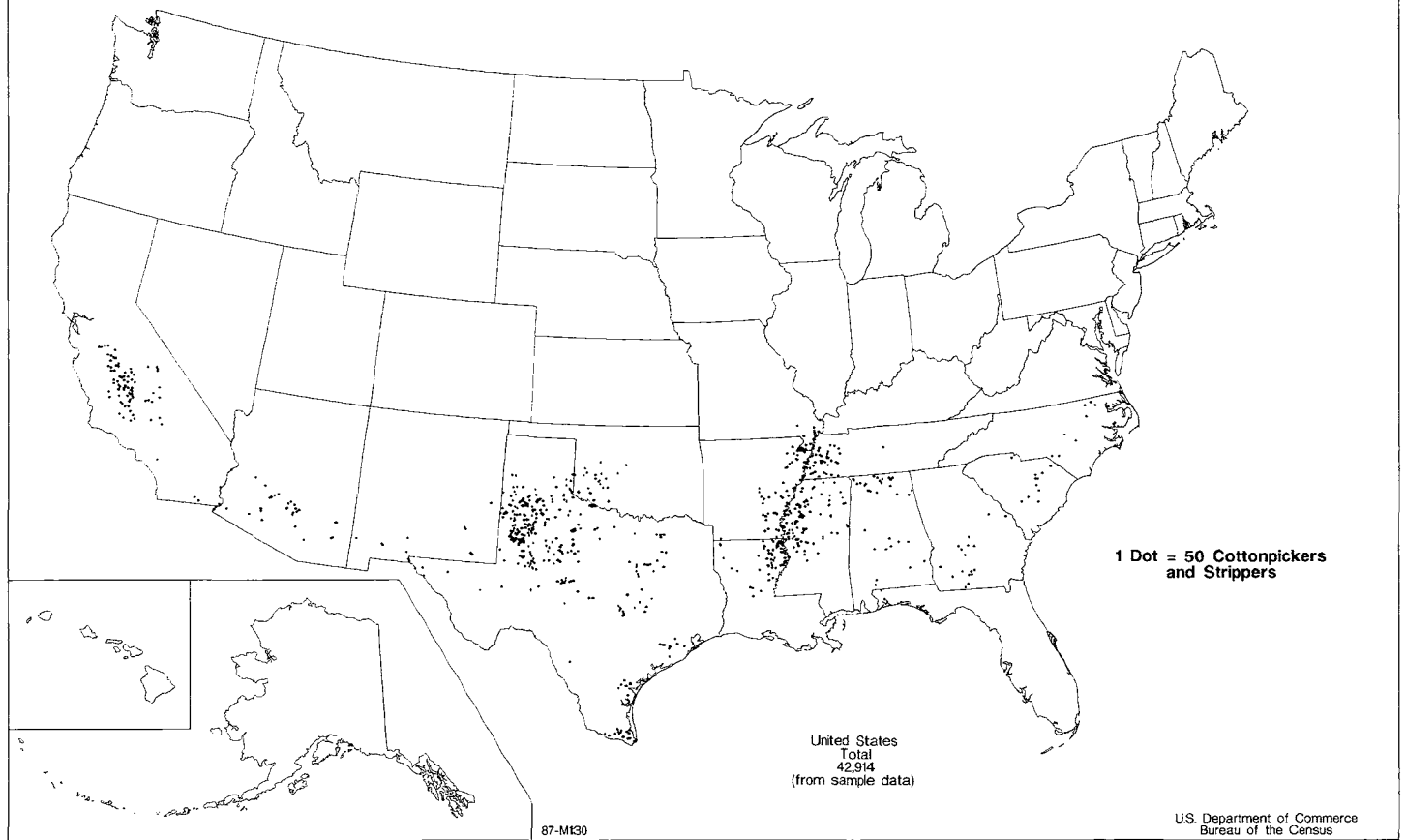
### Grain and Bean Combines: 1987

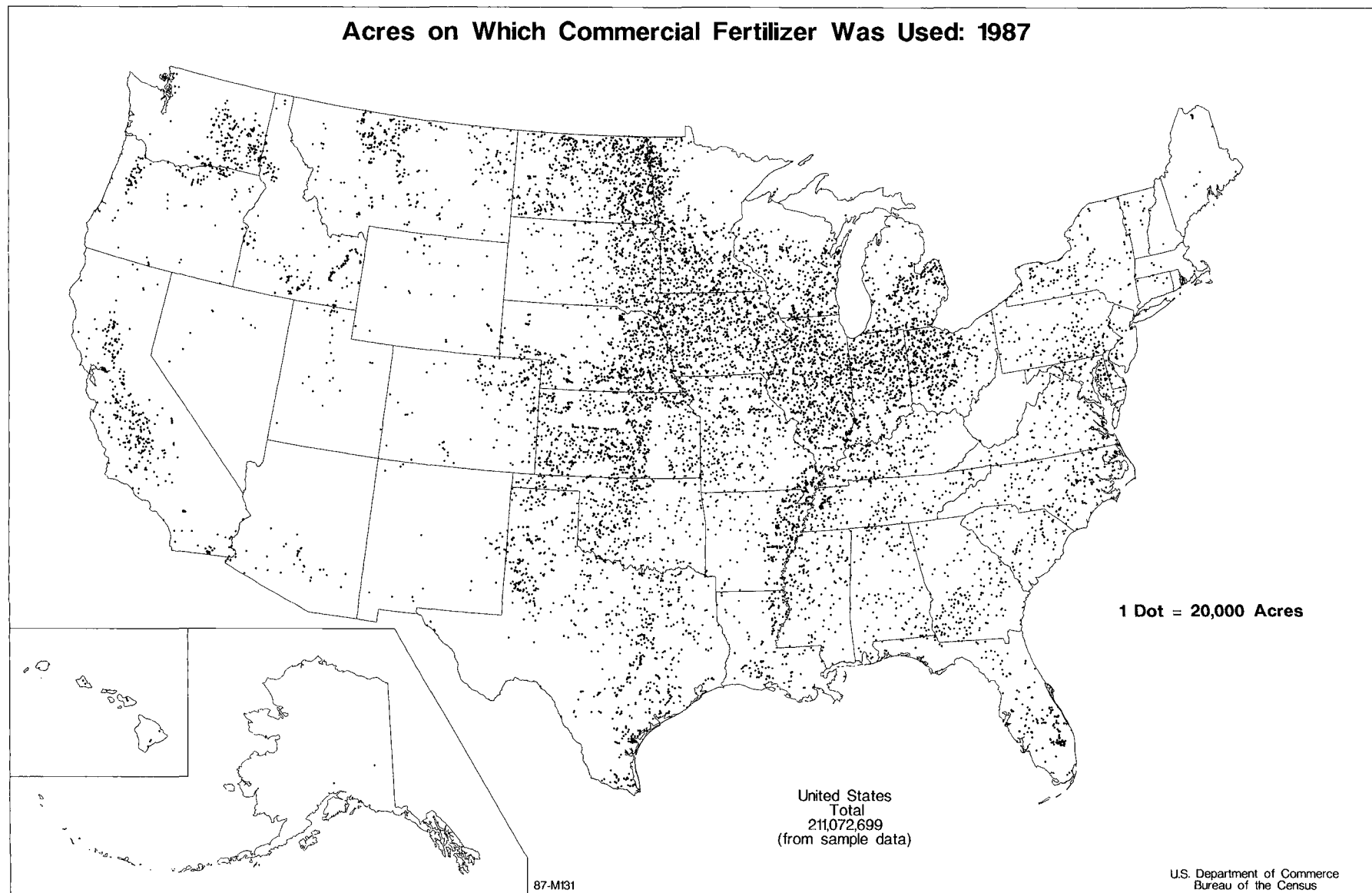


### Pickup Balers: 1987



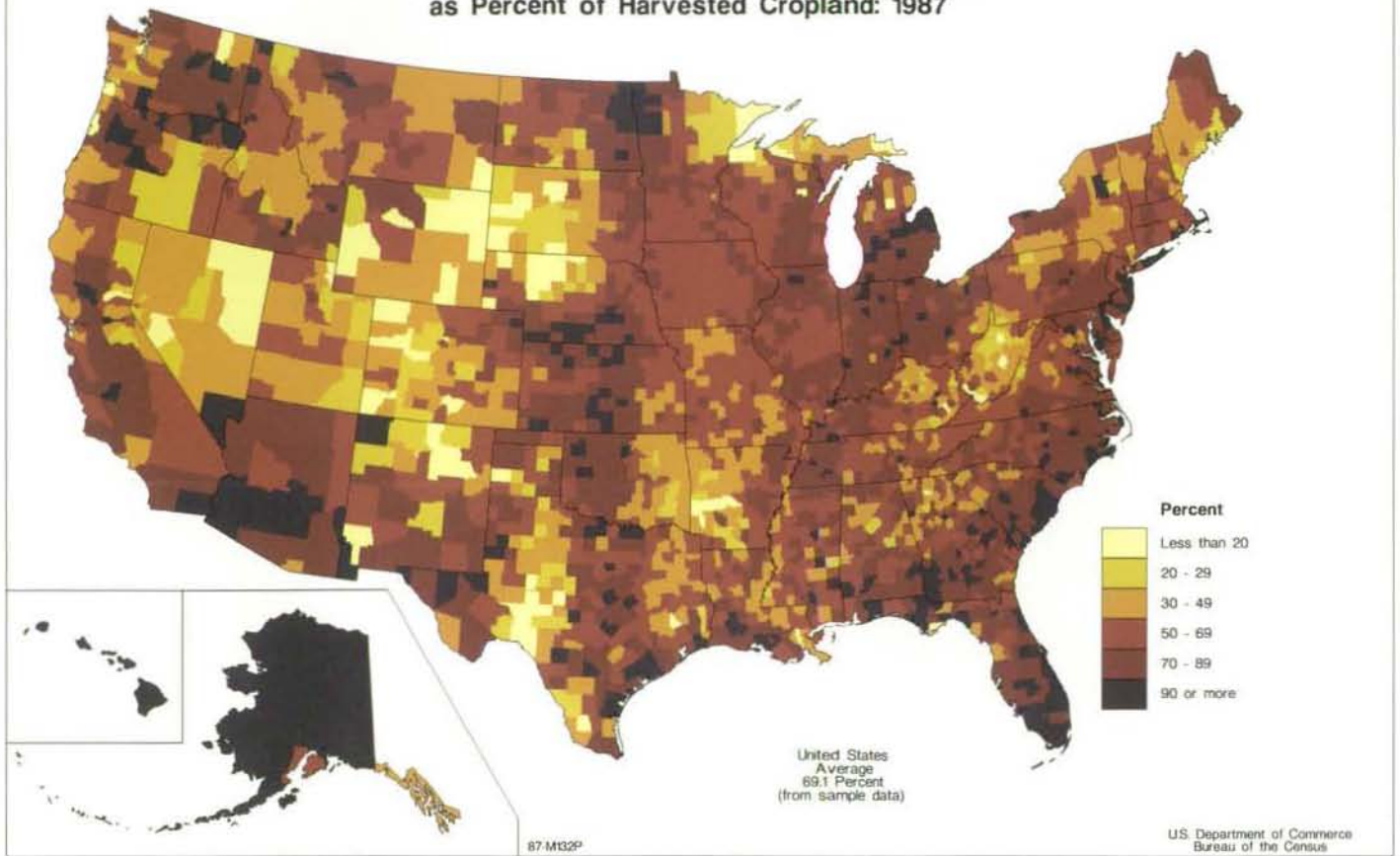
### Cottonpickers and Strippers: 1987



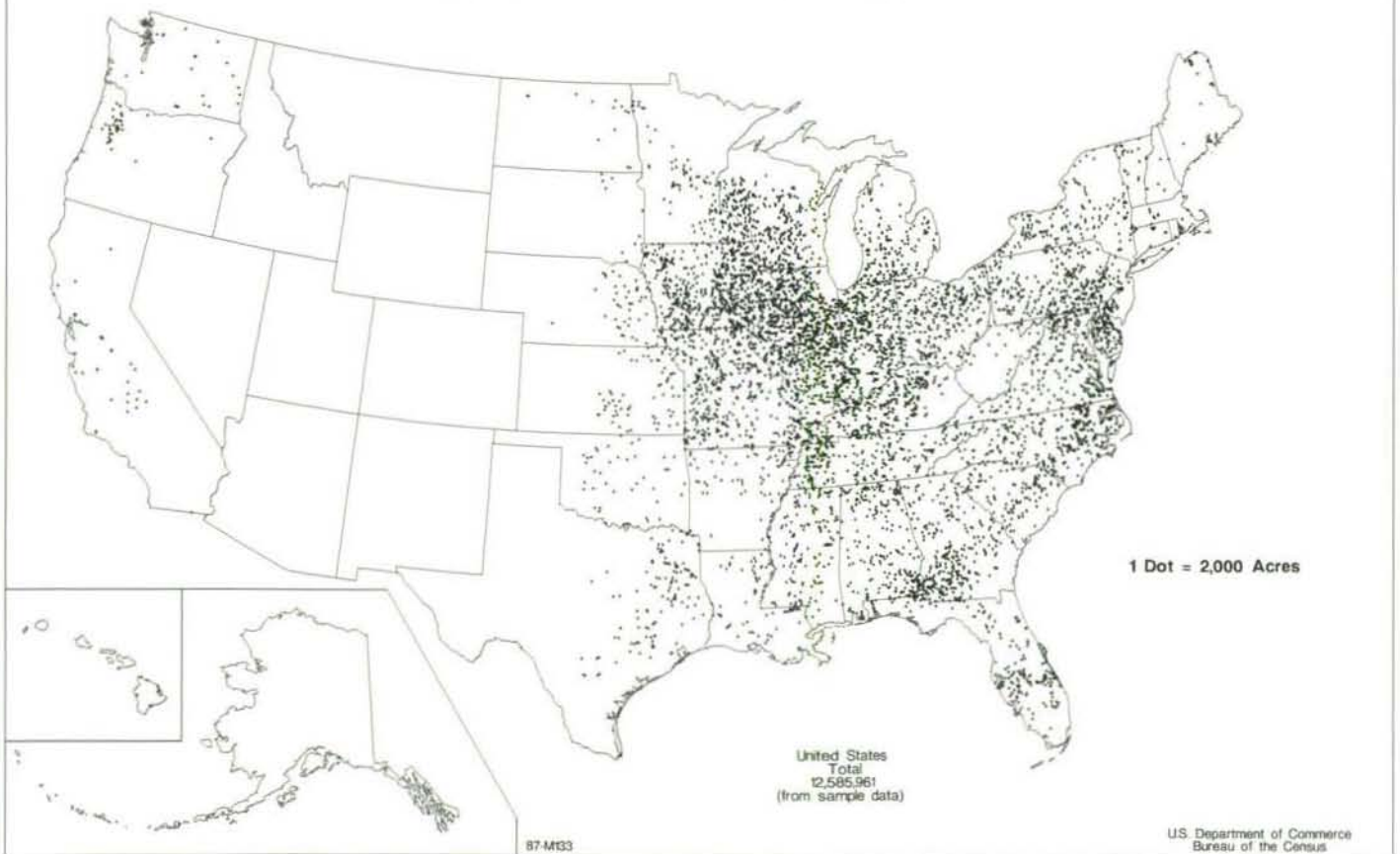




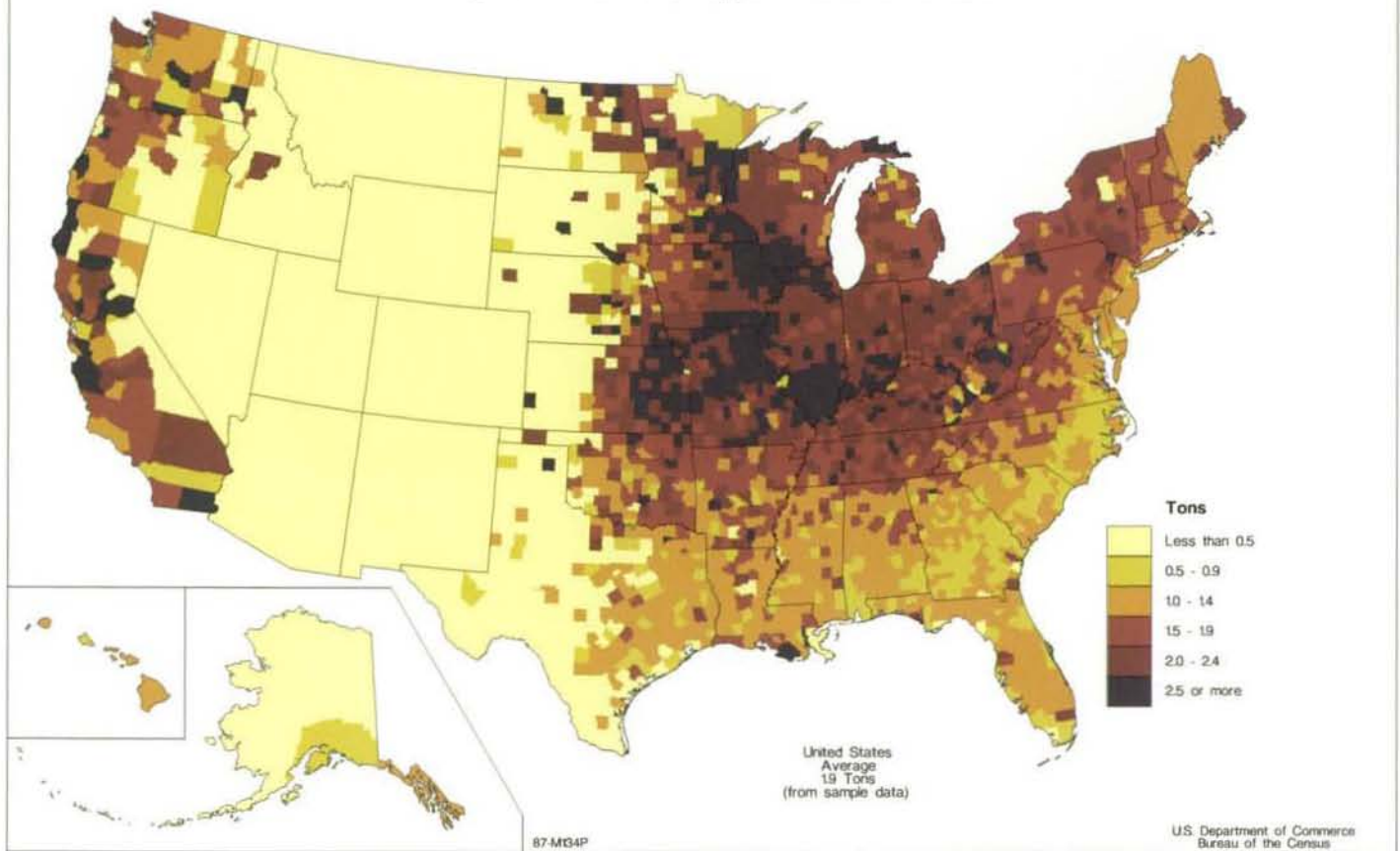
Acres of Cropland Fertilized, Excluding Pastureland,  
as Percent of Harvested Cropland: 1987



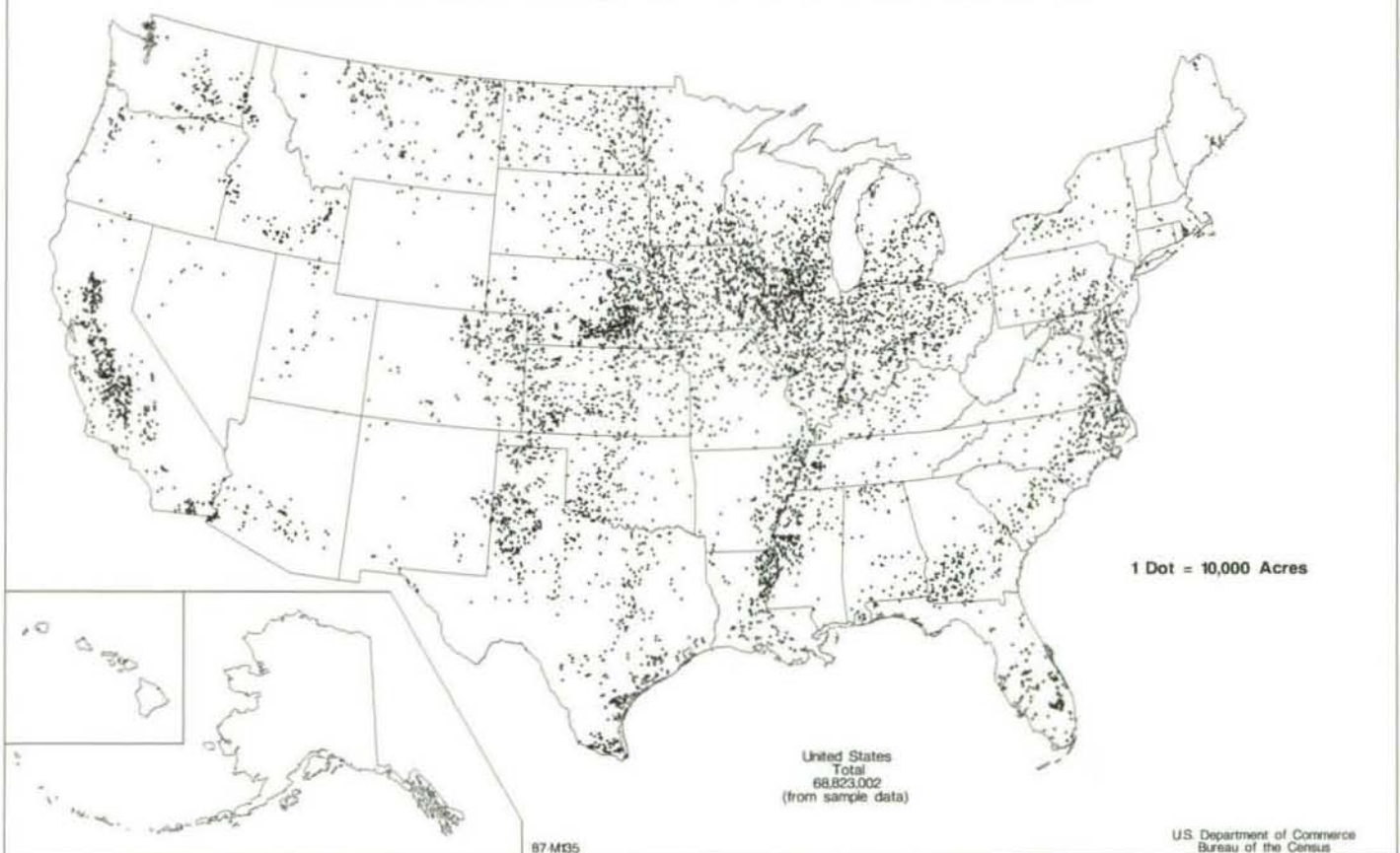
Acres on Which Lime Was Used: 1987



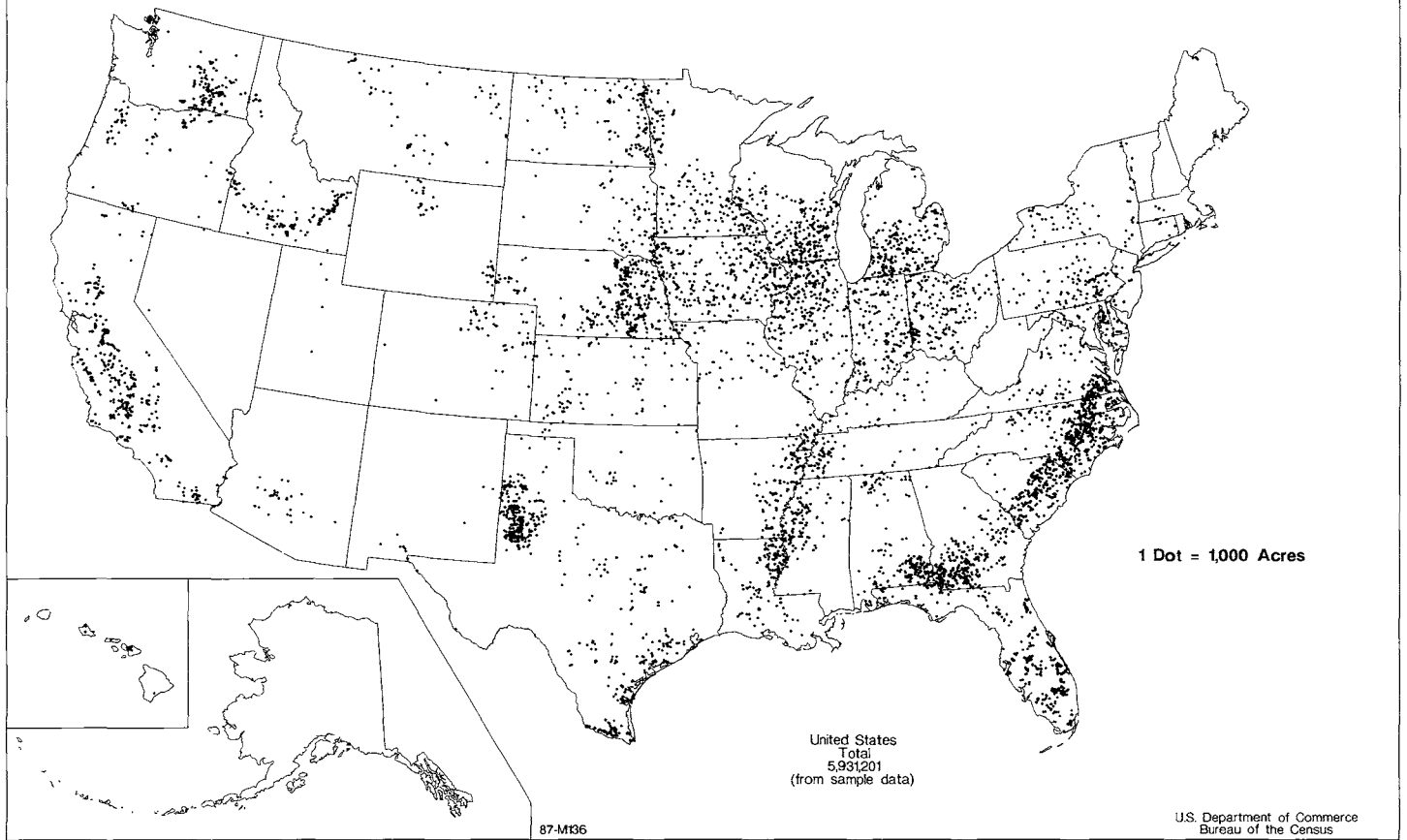
Average Tons of Lime Applied Per Acre: 1987



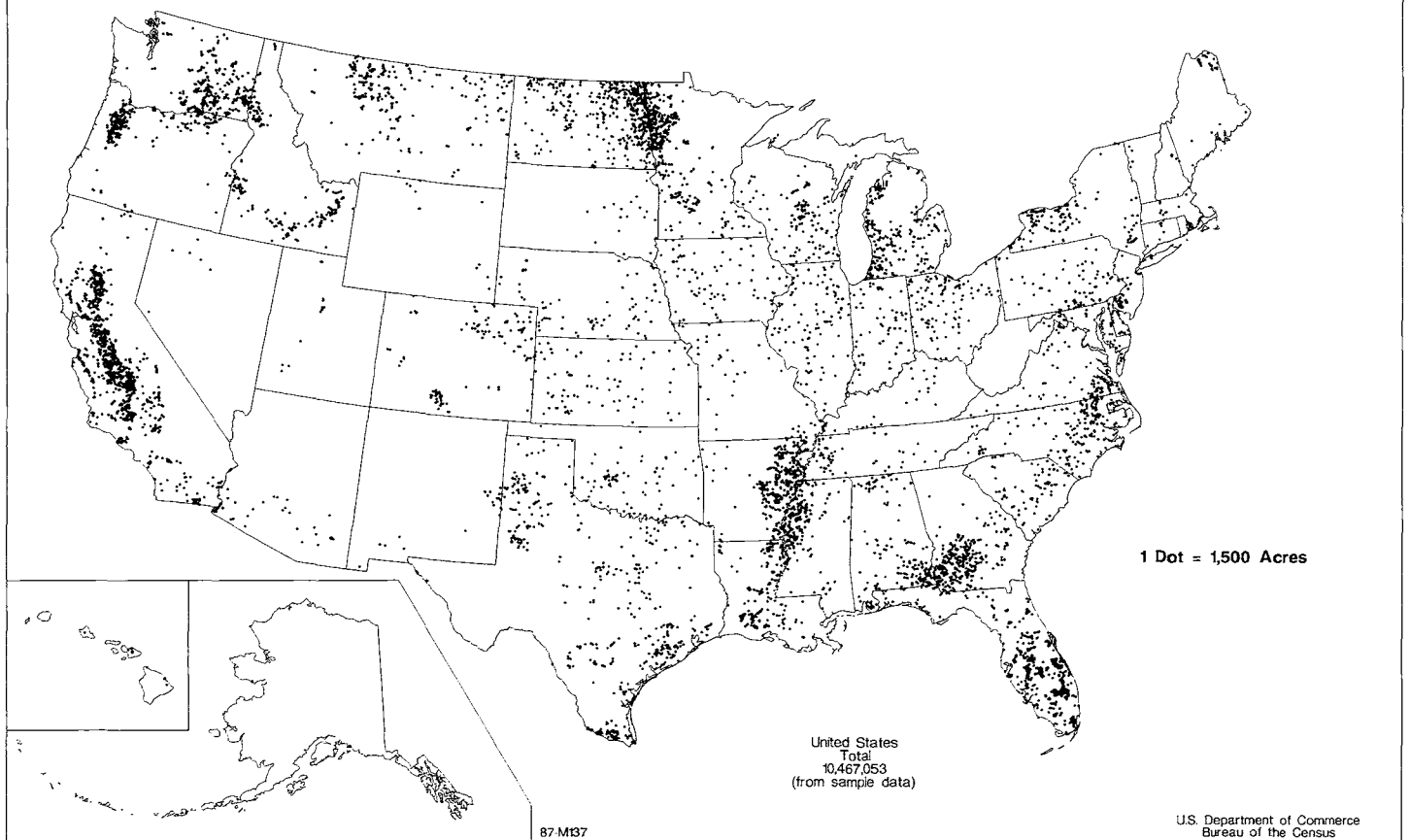
Acres of Crops, Including Hay, Treated for Insect Control: 1987



### Acres of Crops Treated for Nematodes: 1987

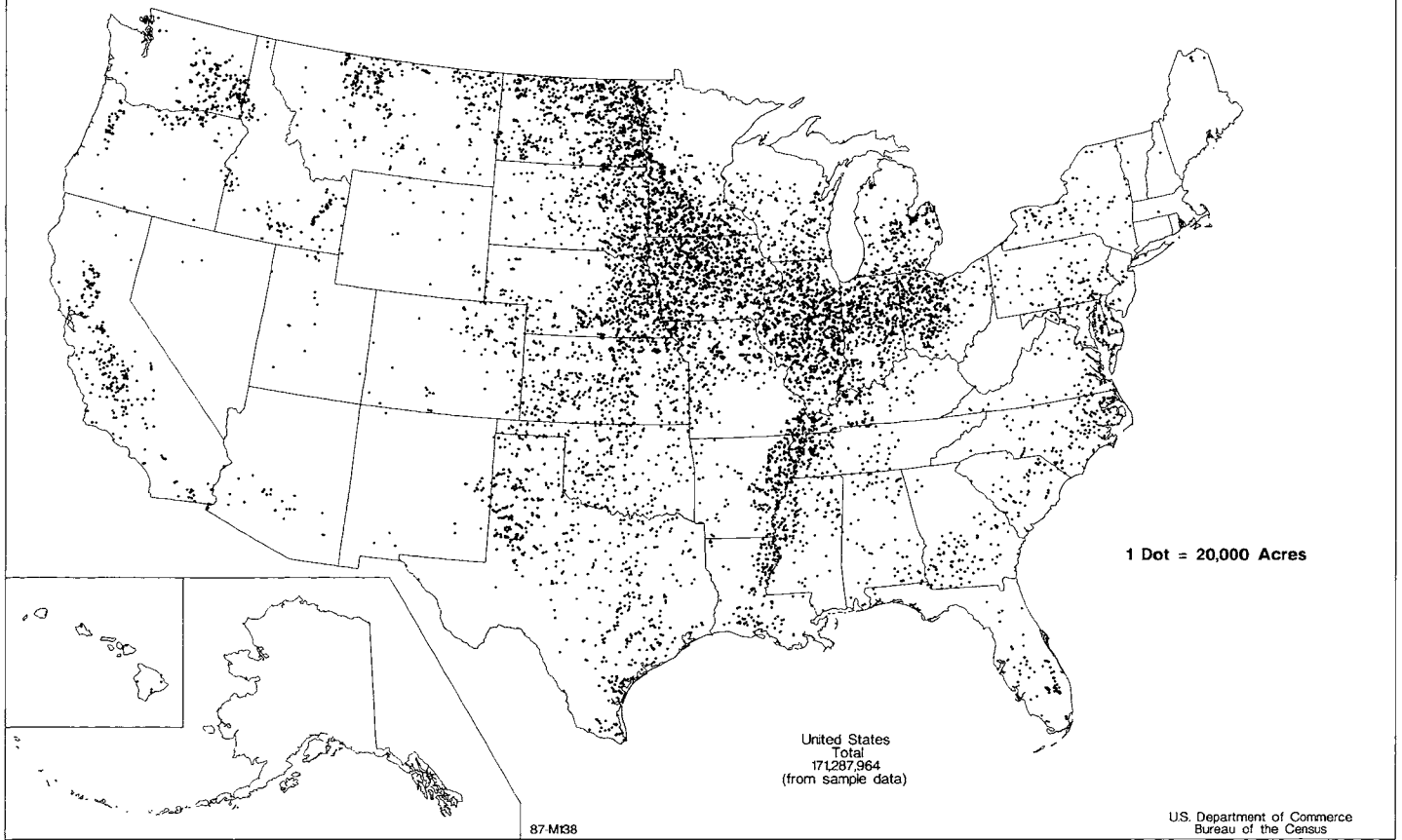


### Acres of Crops and Orchards Treated for Disease Control: 1987

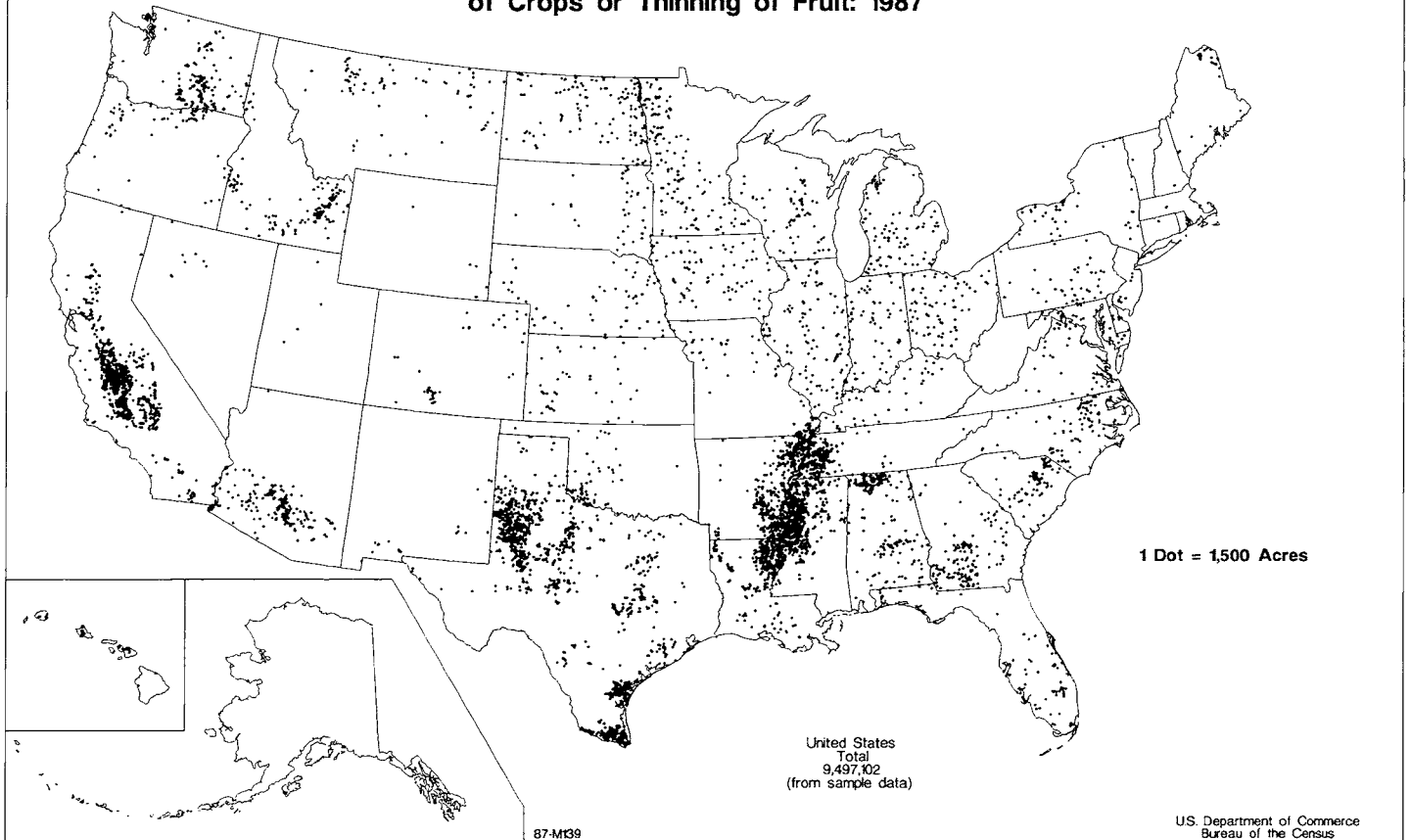




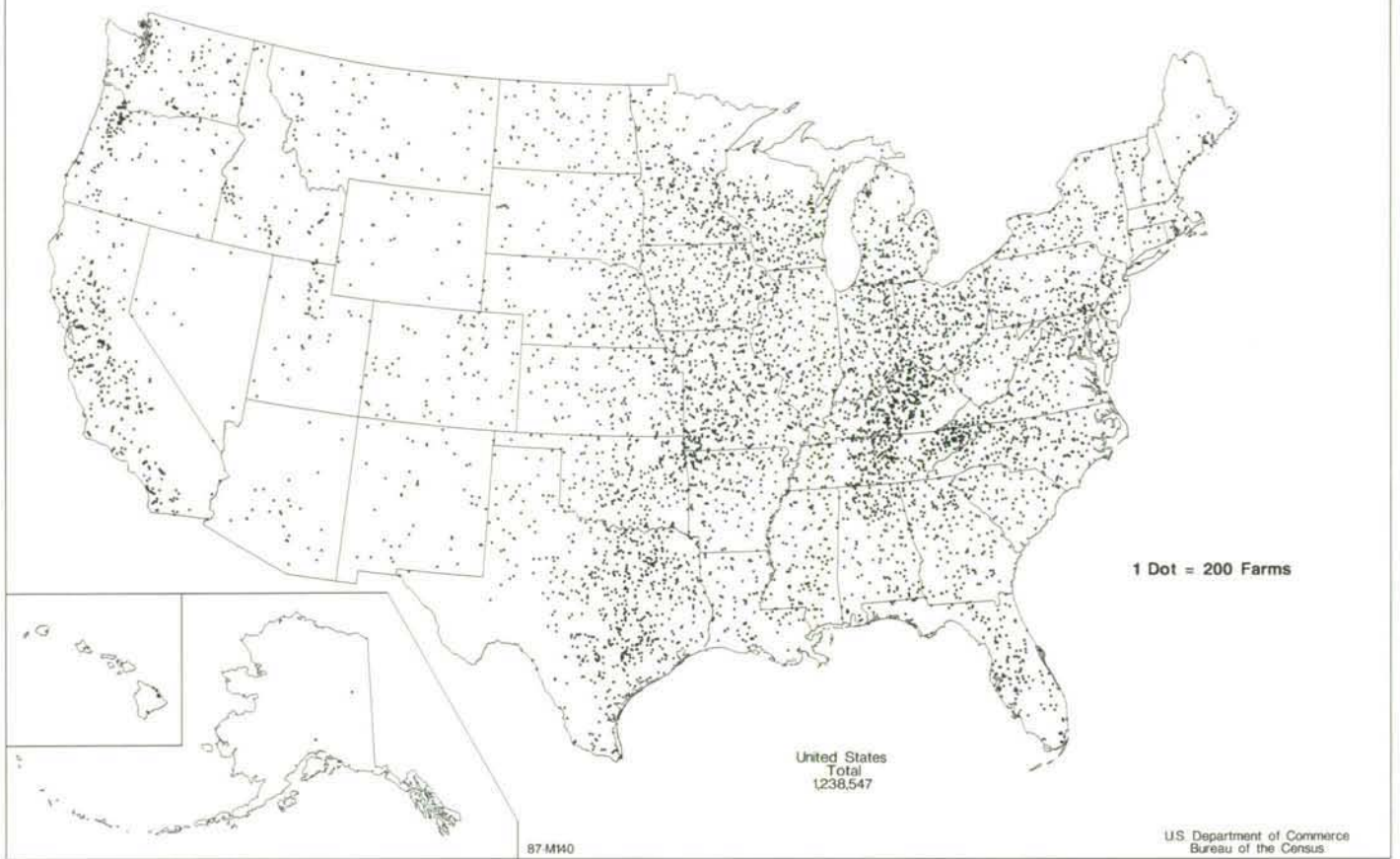
### Acres of Land Treated for Weed or Grass Control: 1987



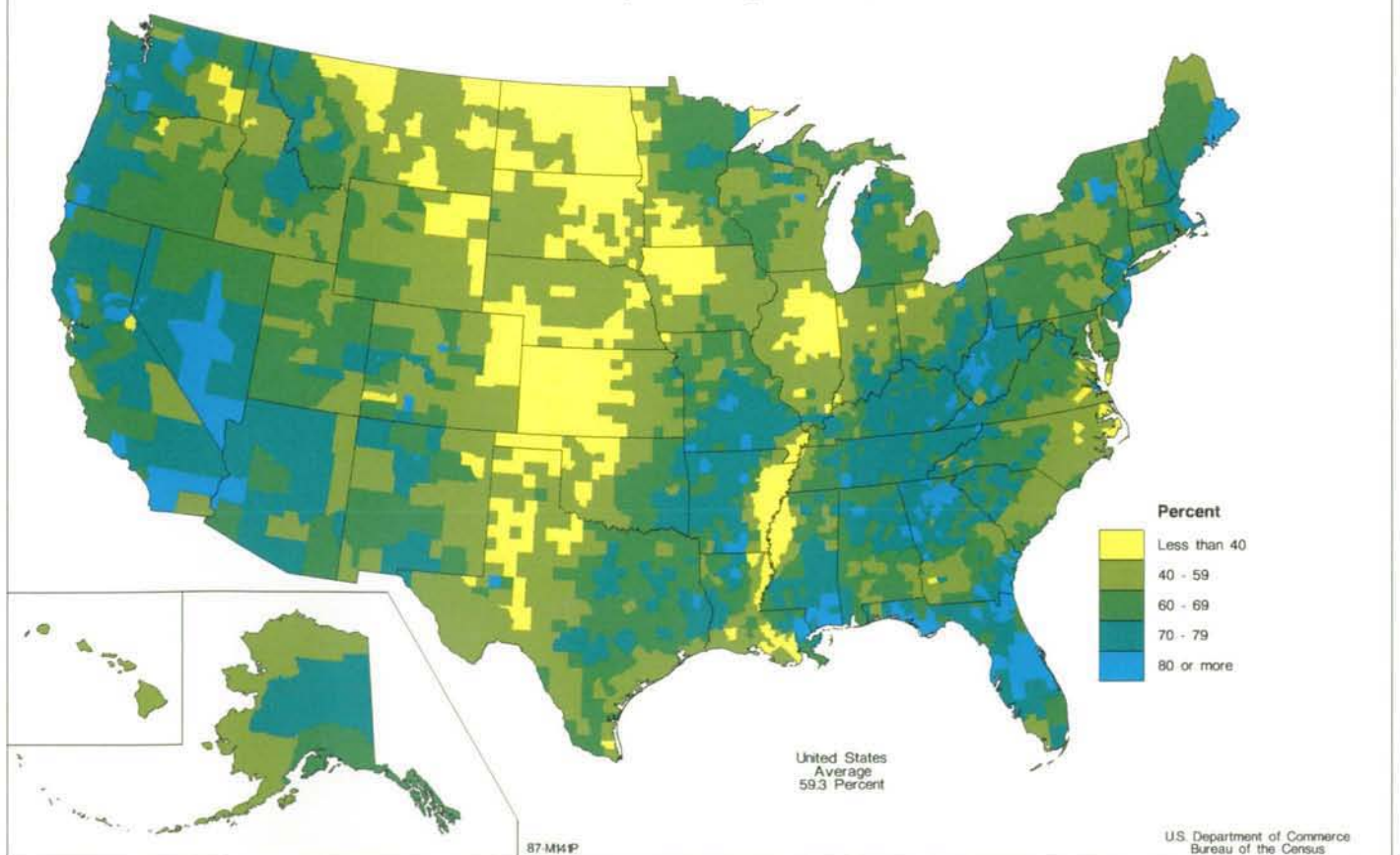
### Acres Treated With Chemicals for Defoliation or for Growth Control of Crops or Thinning of Fruit: 1987



# Farms Operated by Full Owners: 1987

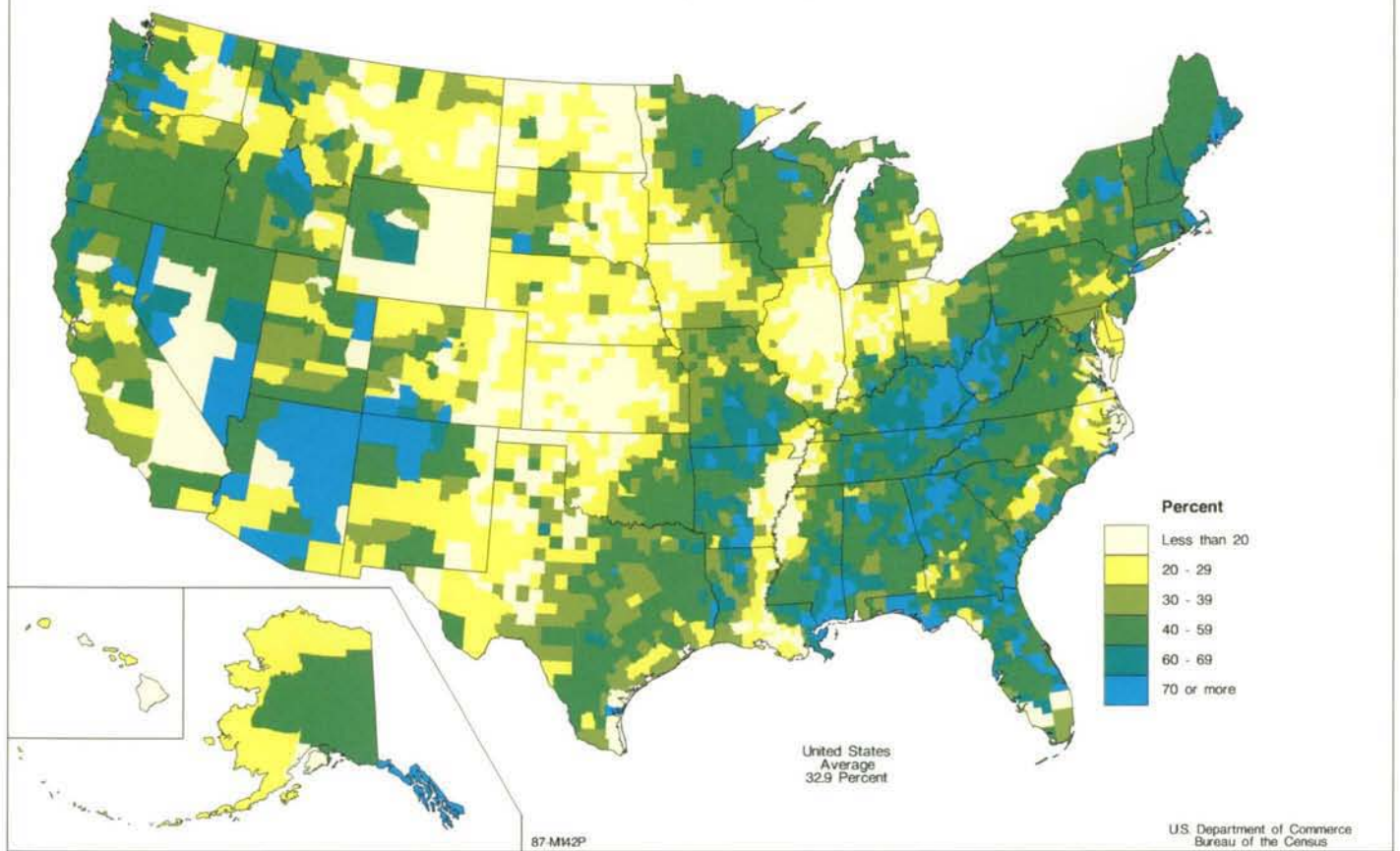


# Percent of Farms Operated by Full Owners: 1987

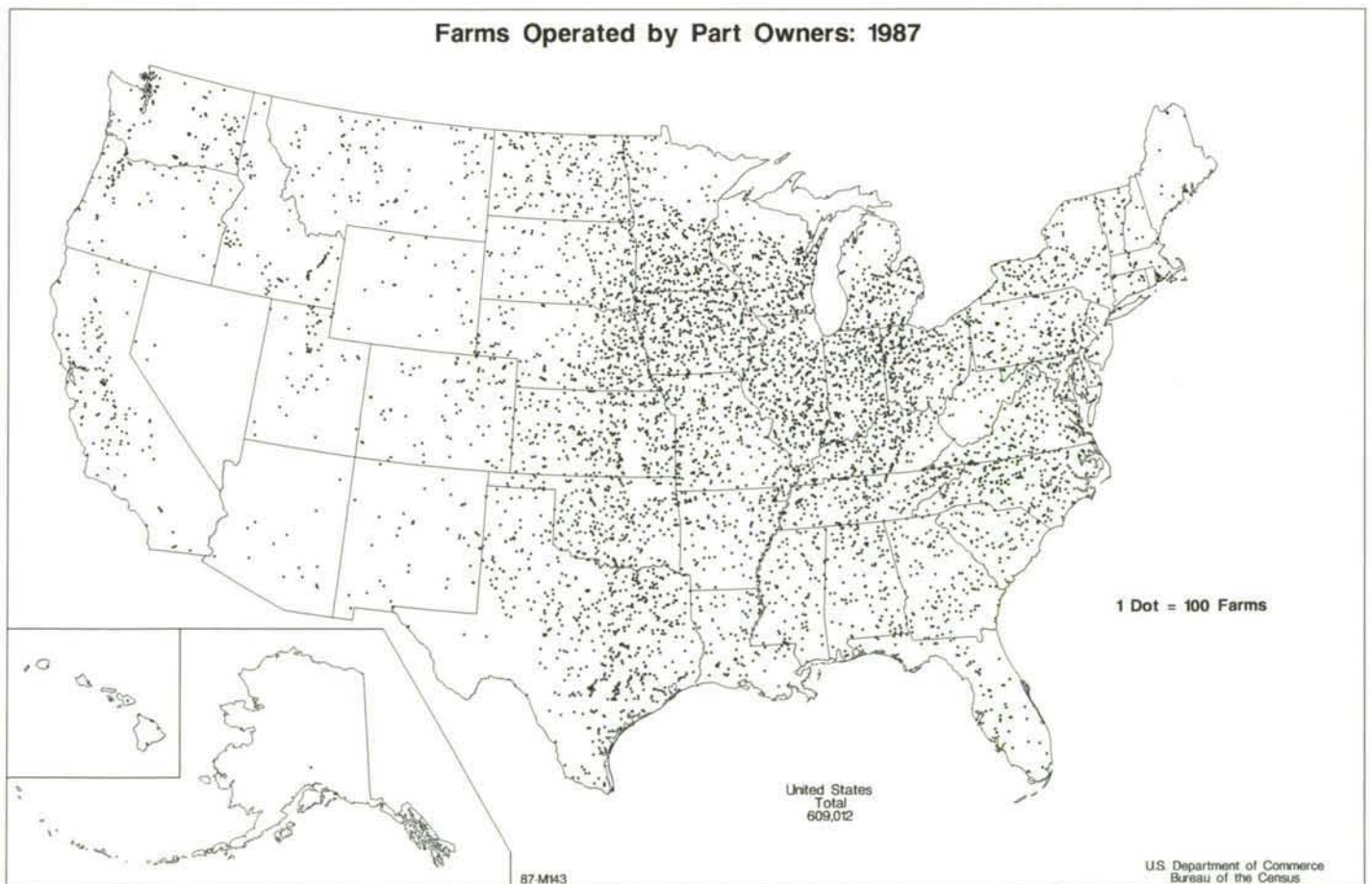




Percent of Land in Farms Operated by Full Owners: 1987

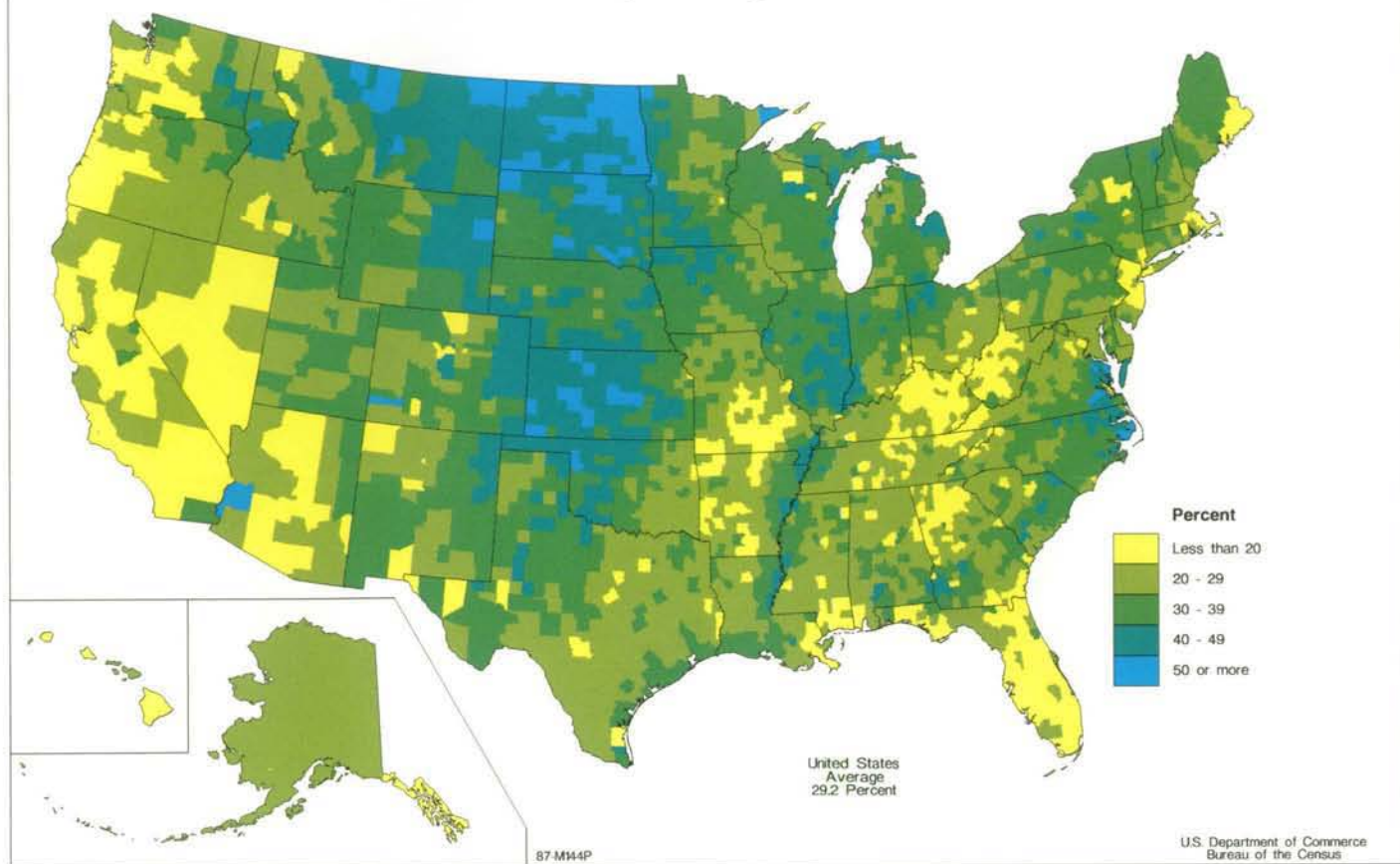


Farms Operated by Part Owners: 1987

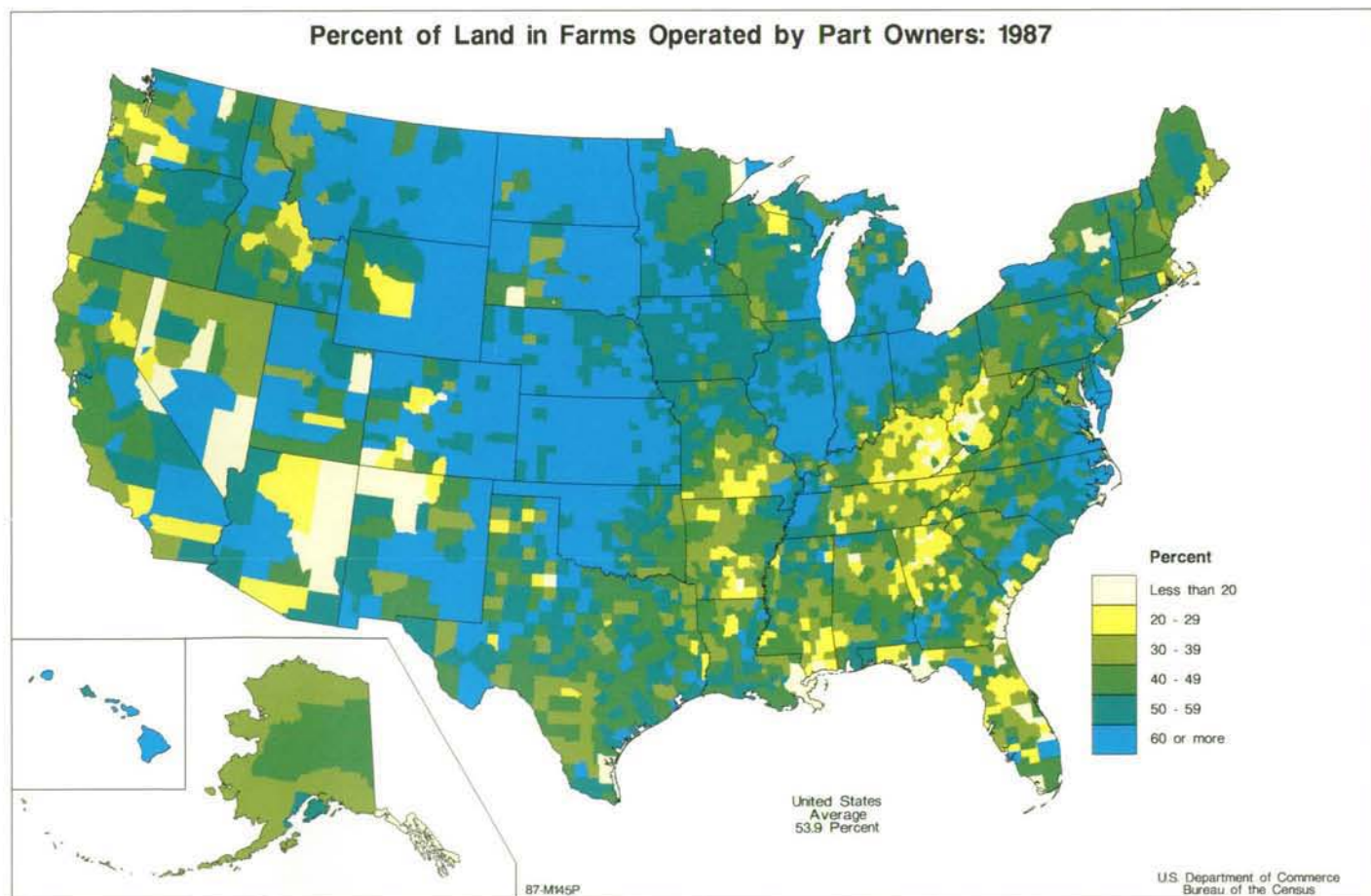




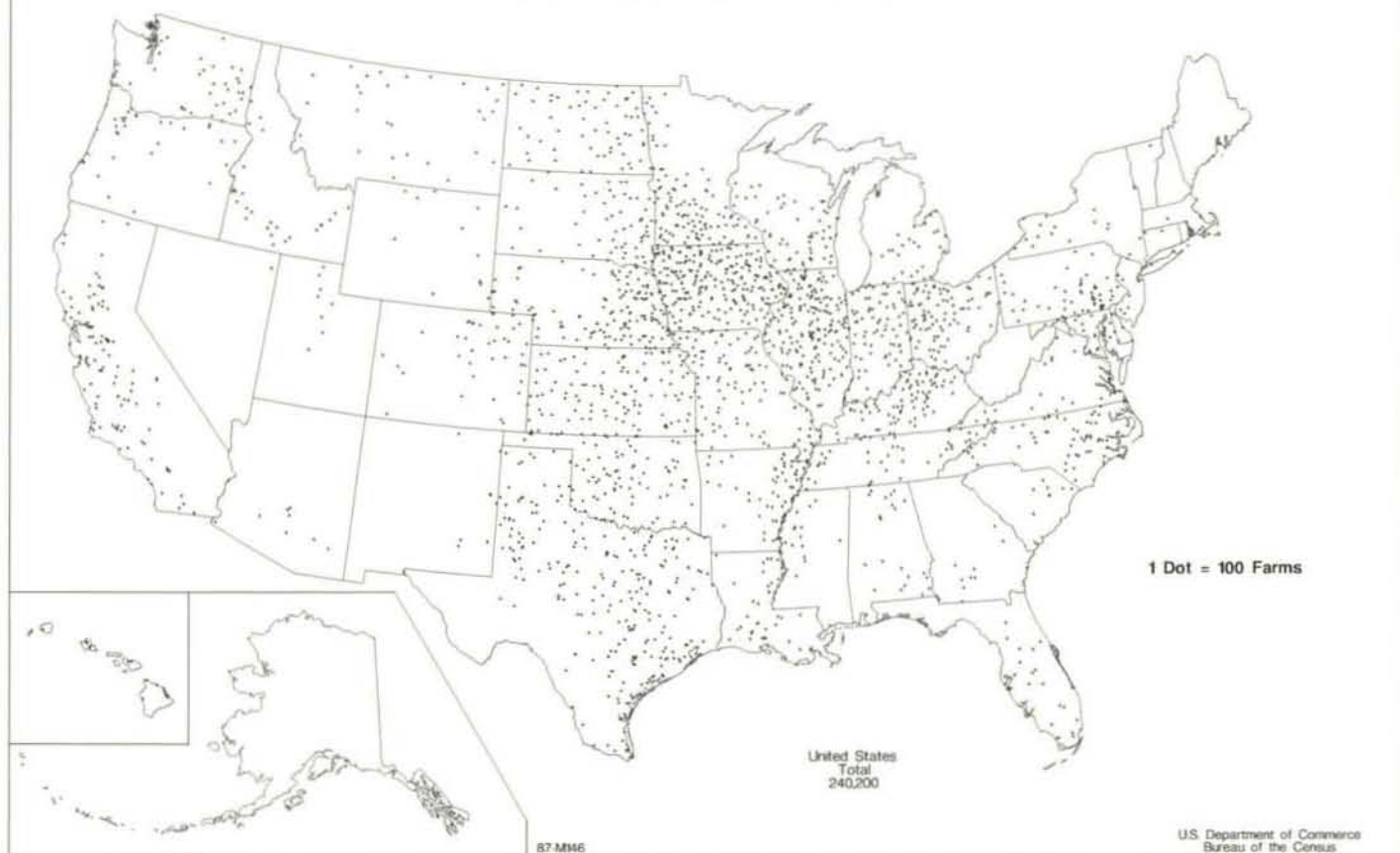
Percent of Farms Operated by Part Owners: 1987



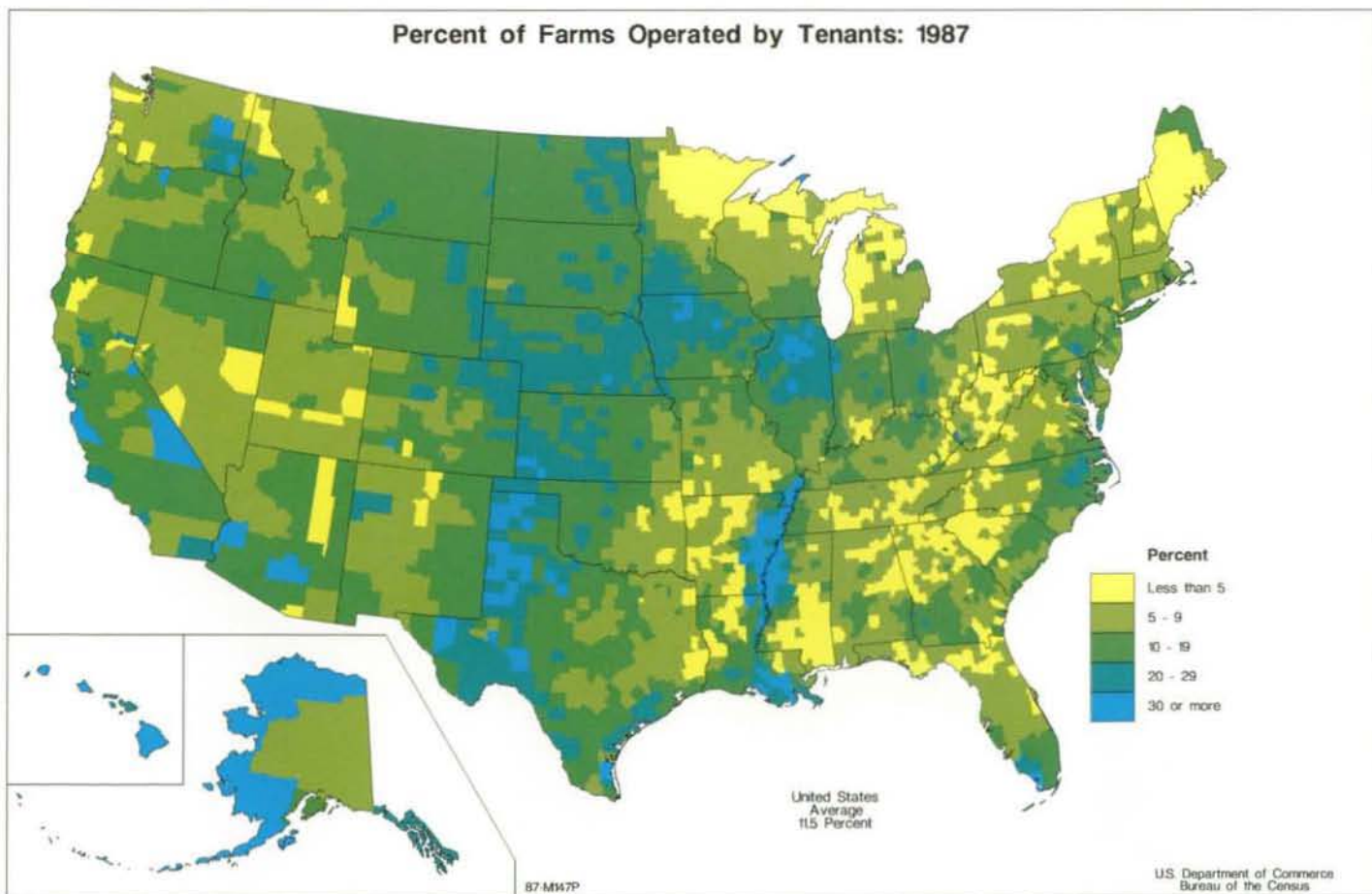
Percent of Land in Farms Operated by Part Owners: 1987



**Farms Operated by Tenants: 1987**

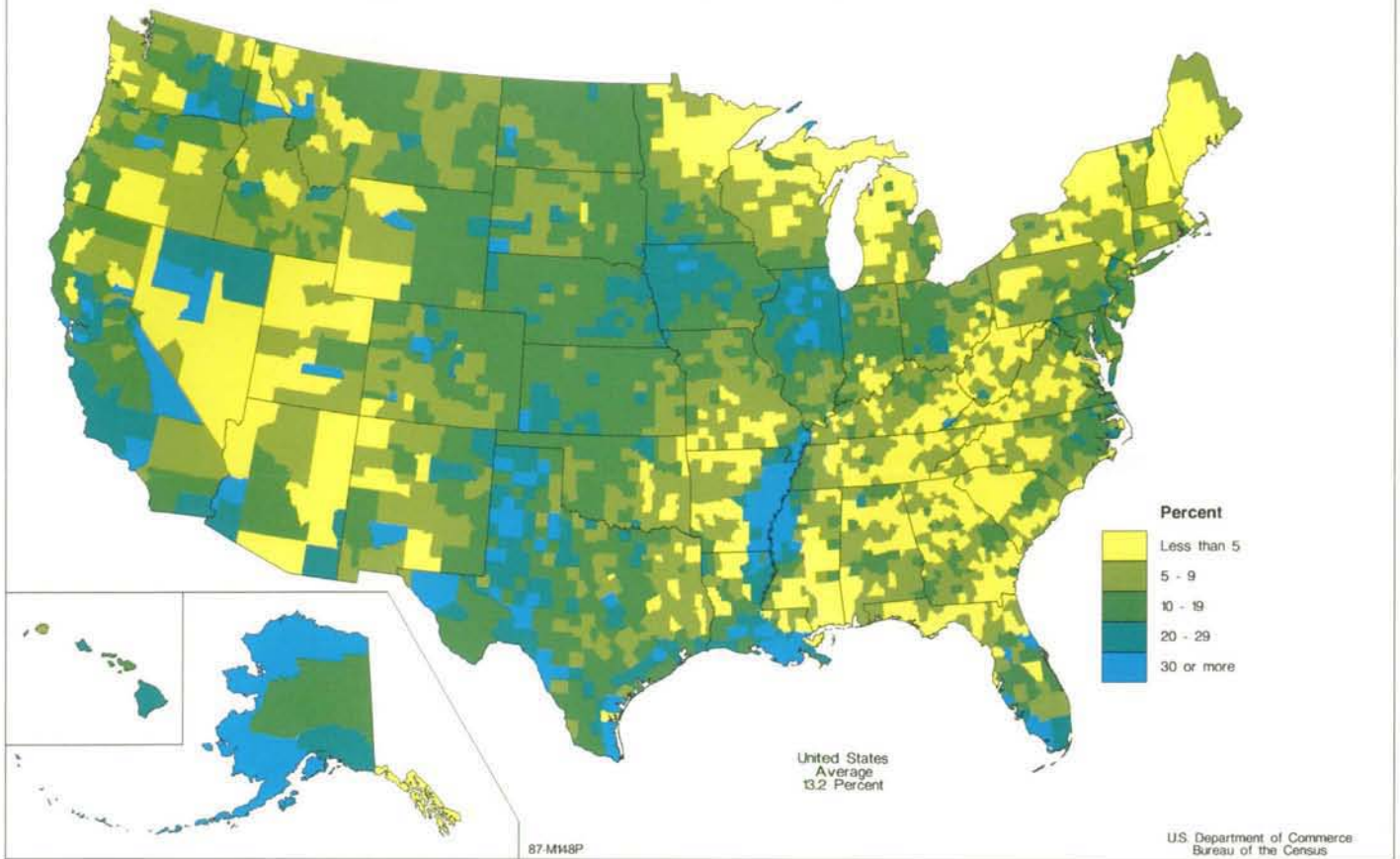


**Percent of Farms Operated by Tenants: 1987**

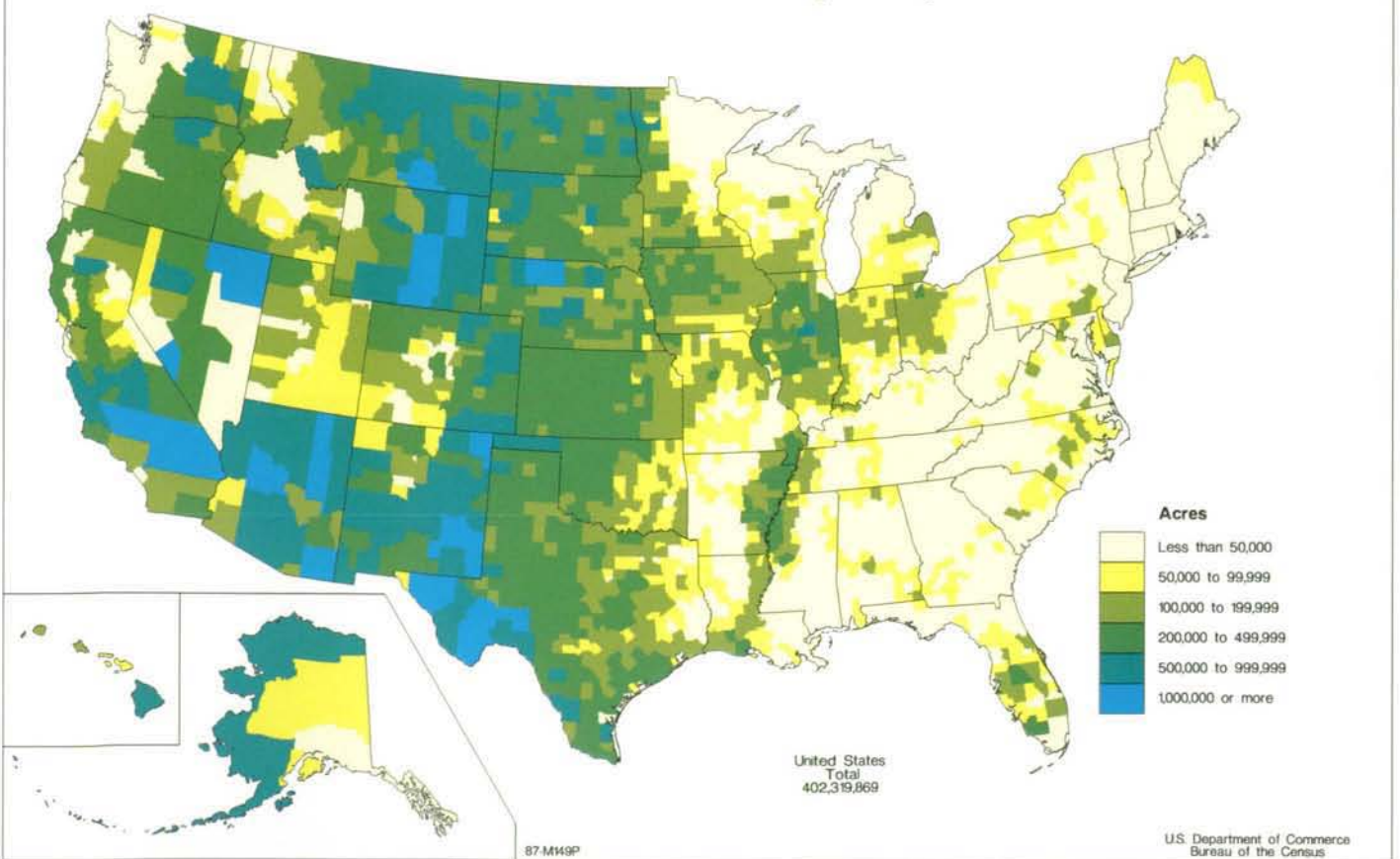




Percent of Land in Farms Operated by Tenants: 1987

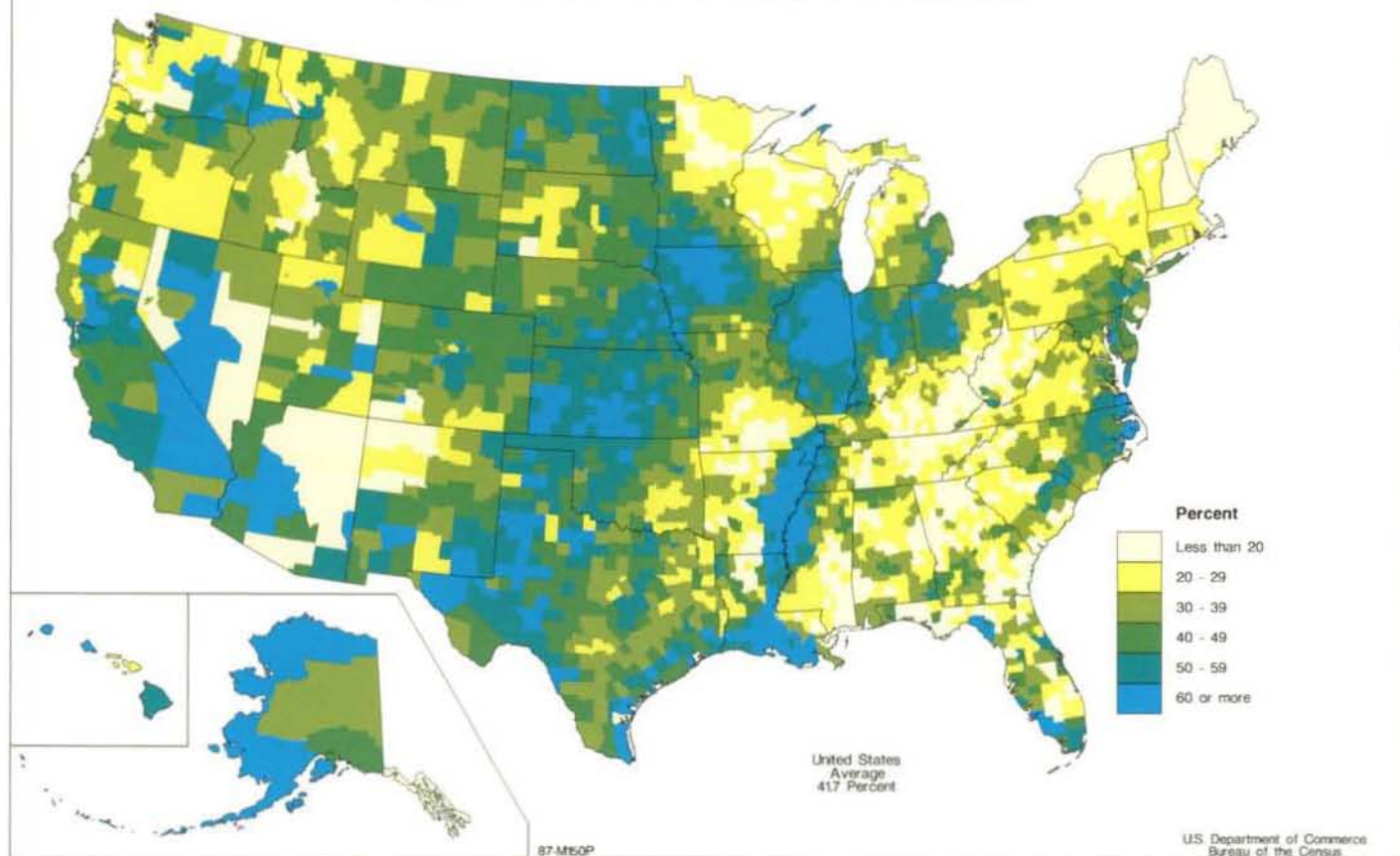


Rented or Leased Land in Farms by County: 1987

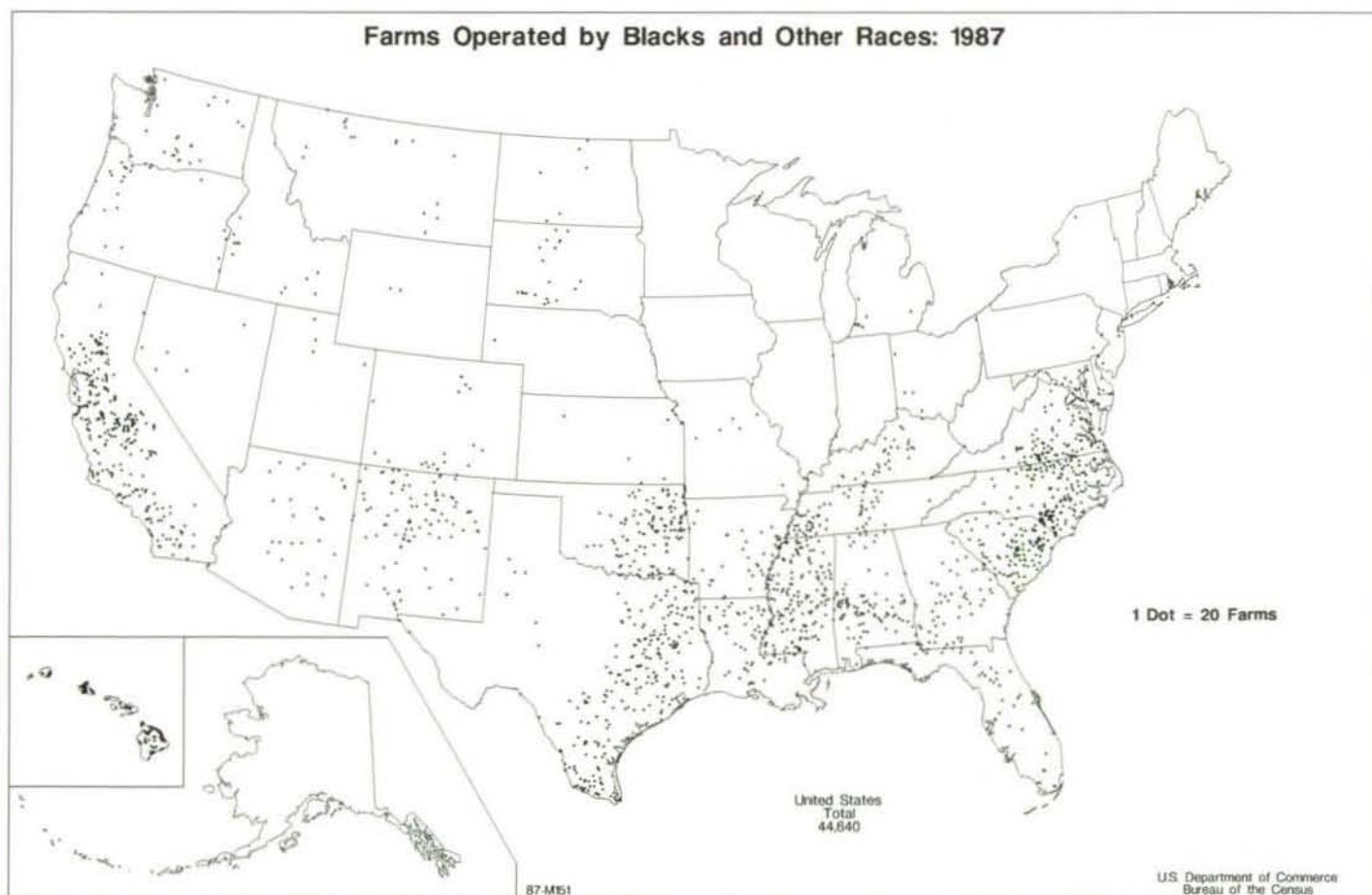




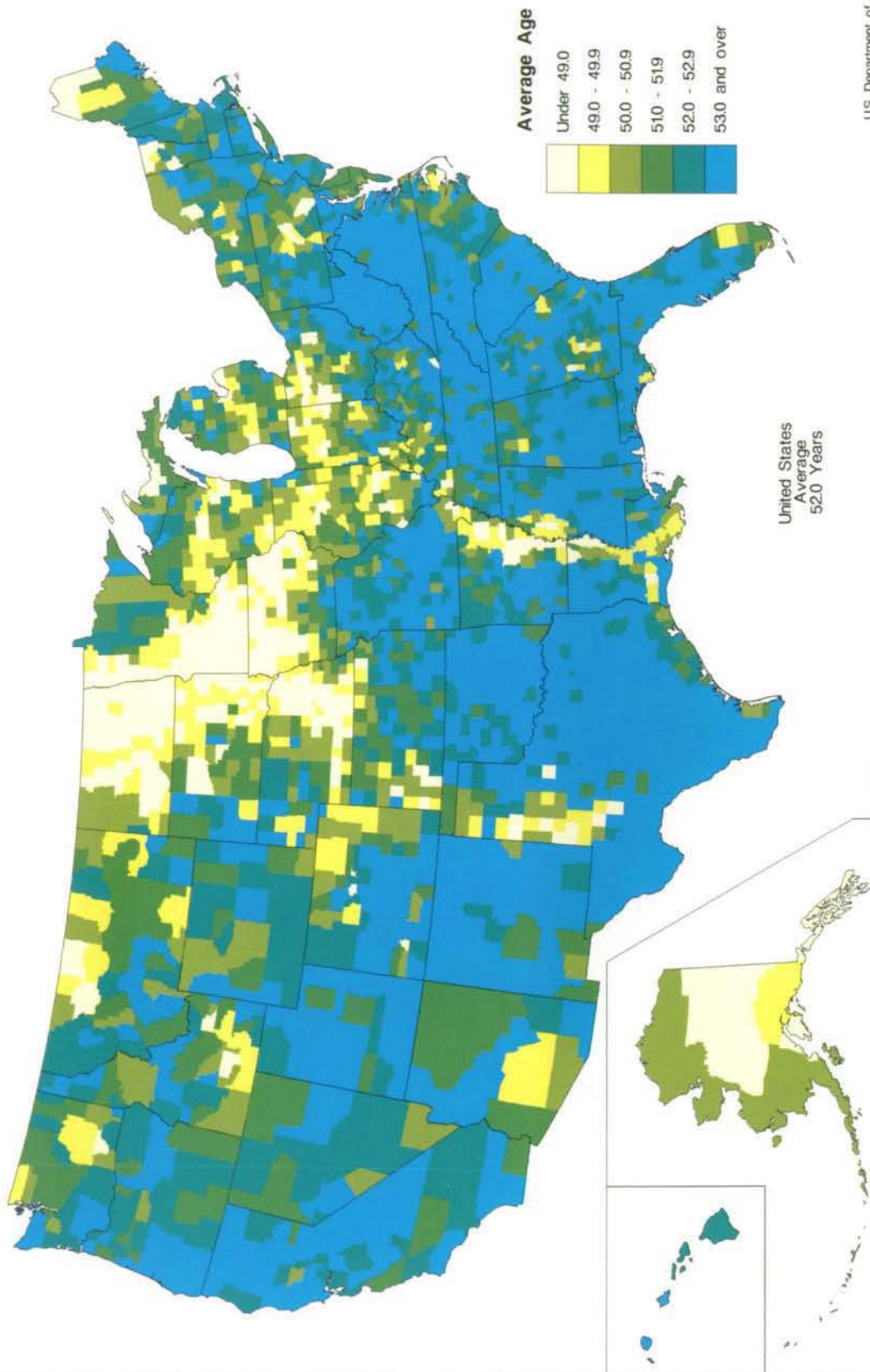
**Percent of Land in Farms Rented or Leased: 1987**



**Farms Operated by Blacks and Other Races: 1987**

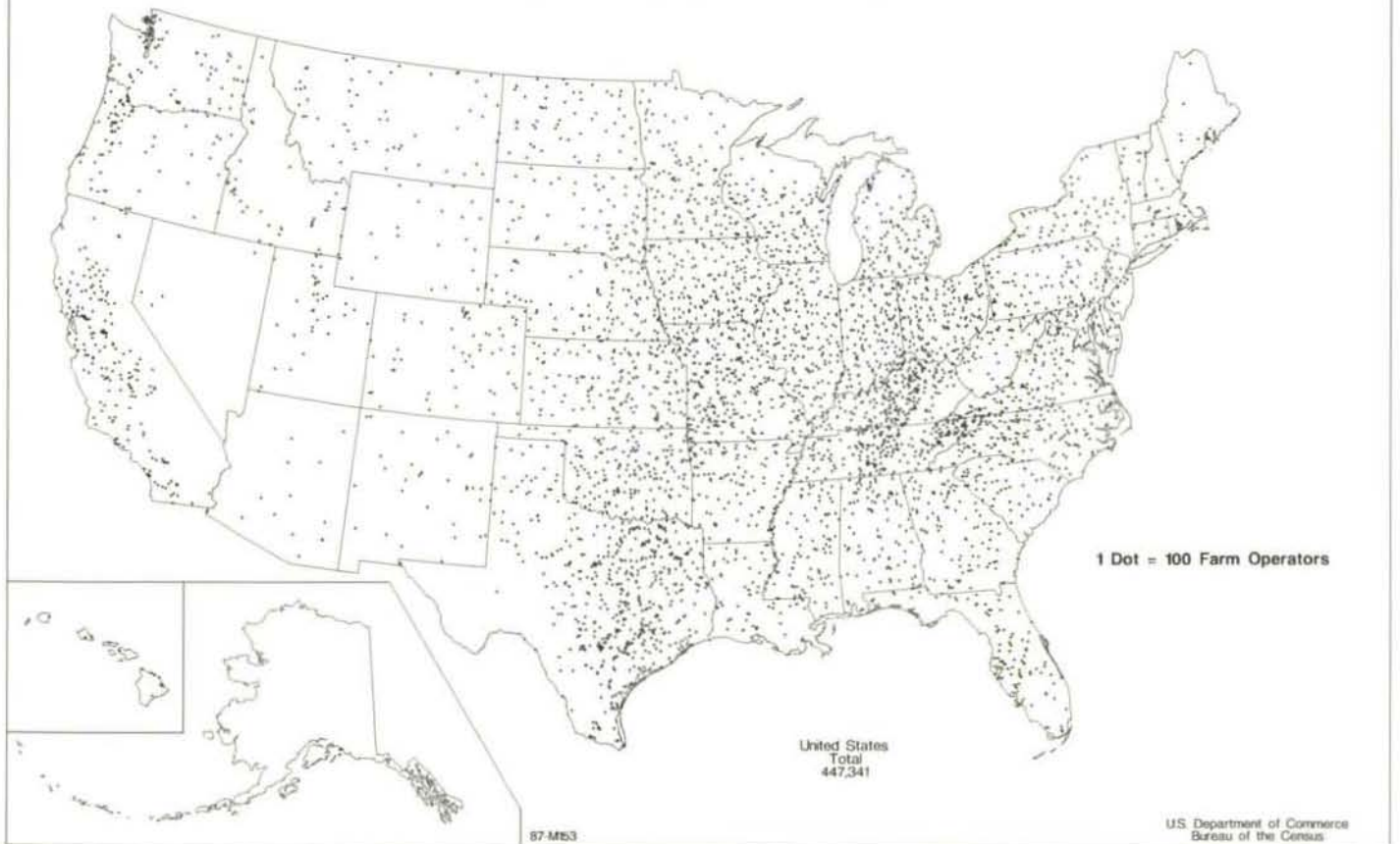


# Average Age of Farm Operators: 1987

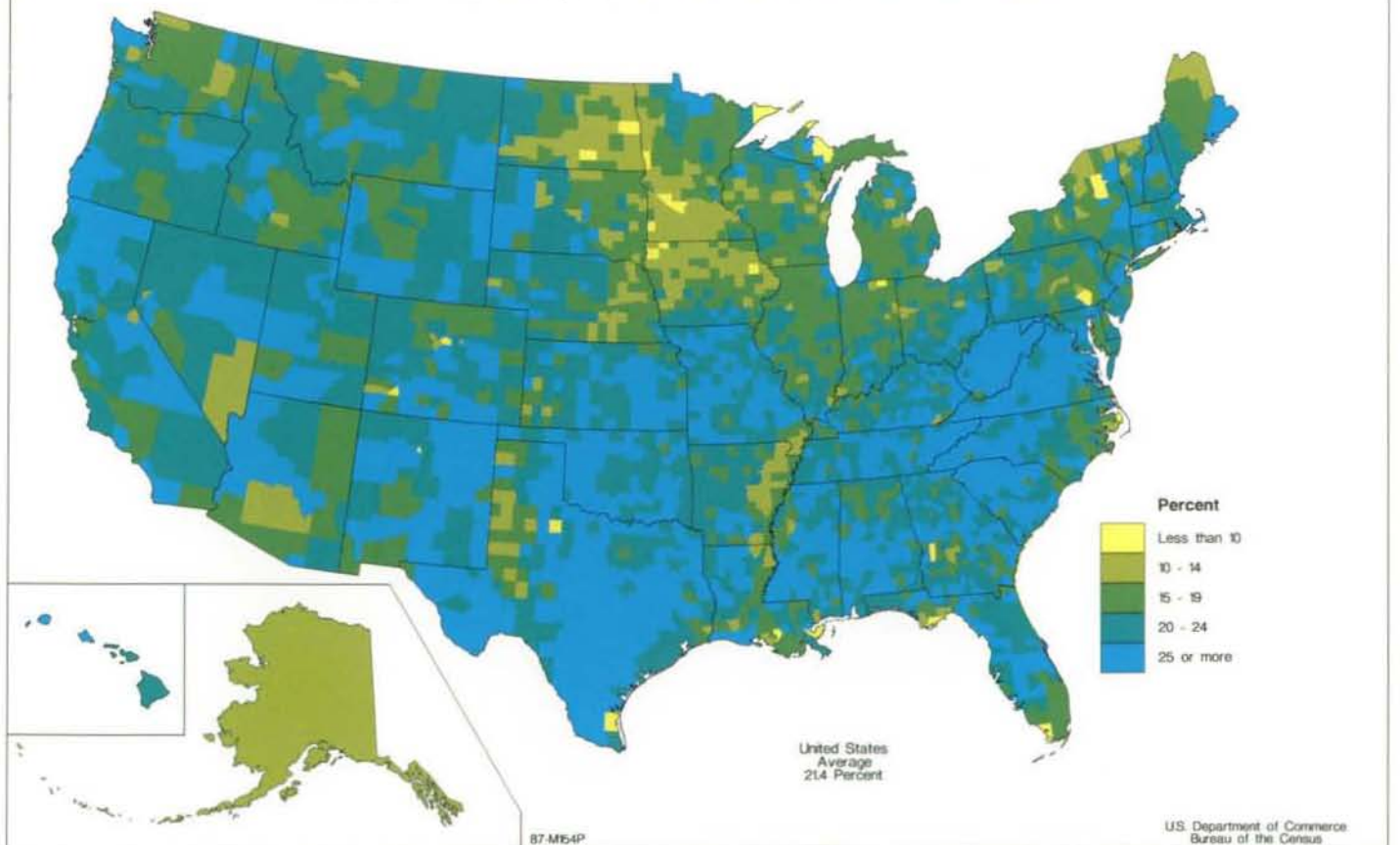




**Farm Operators 65 Years Old and Over: 1987**

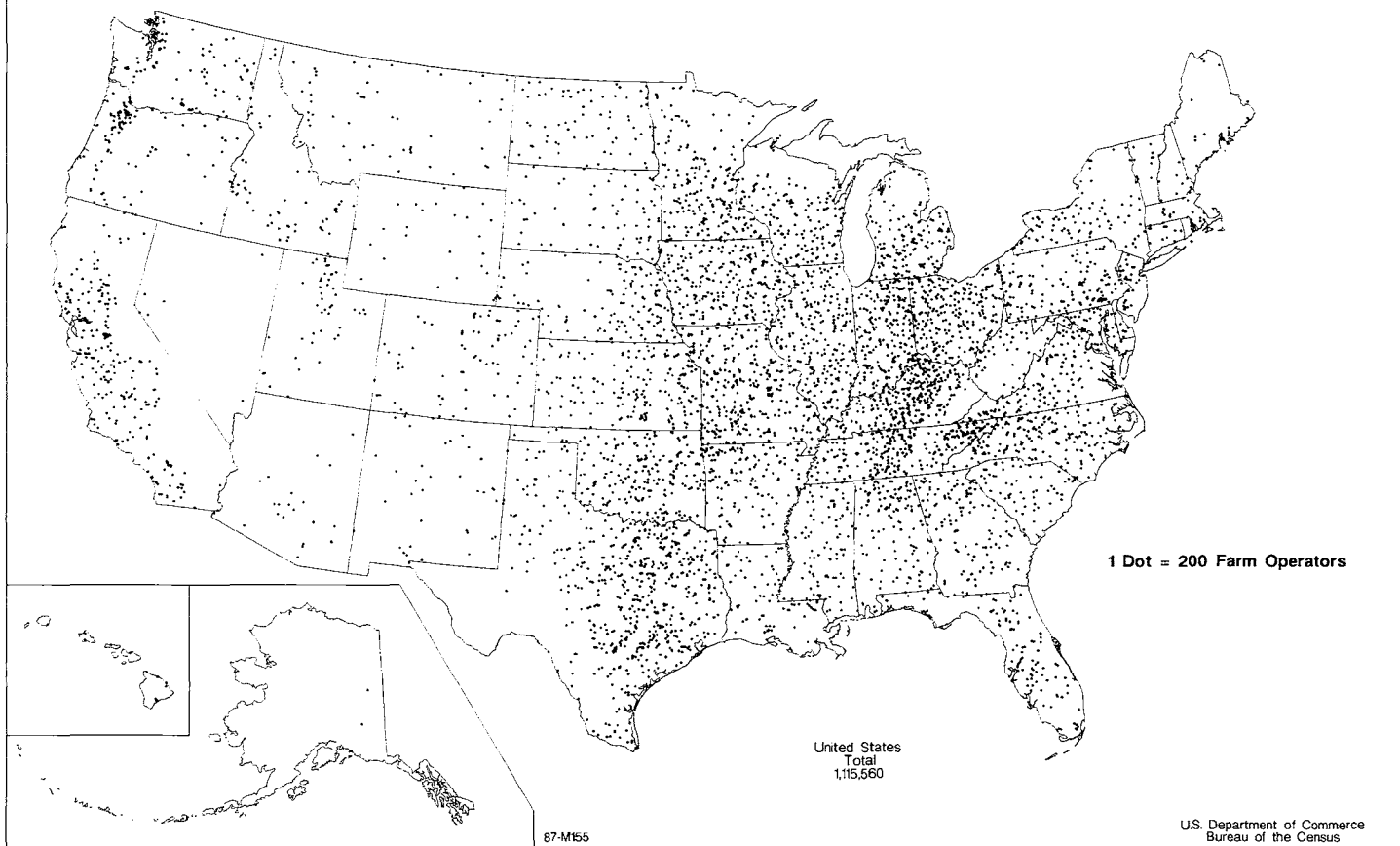


**Percent of Farm Operators 65 Years Old and Over: 1987**

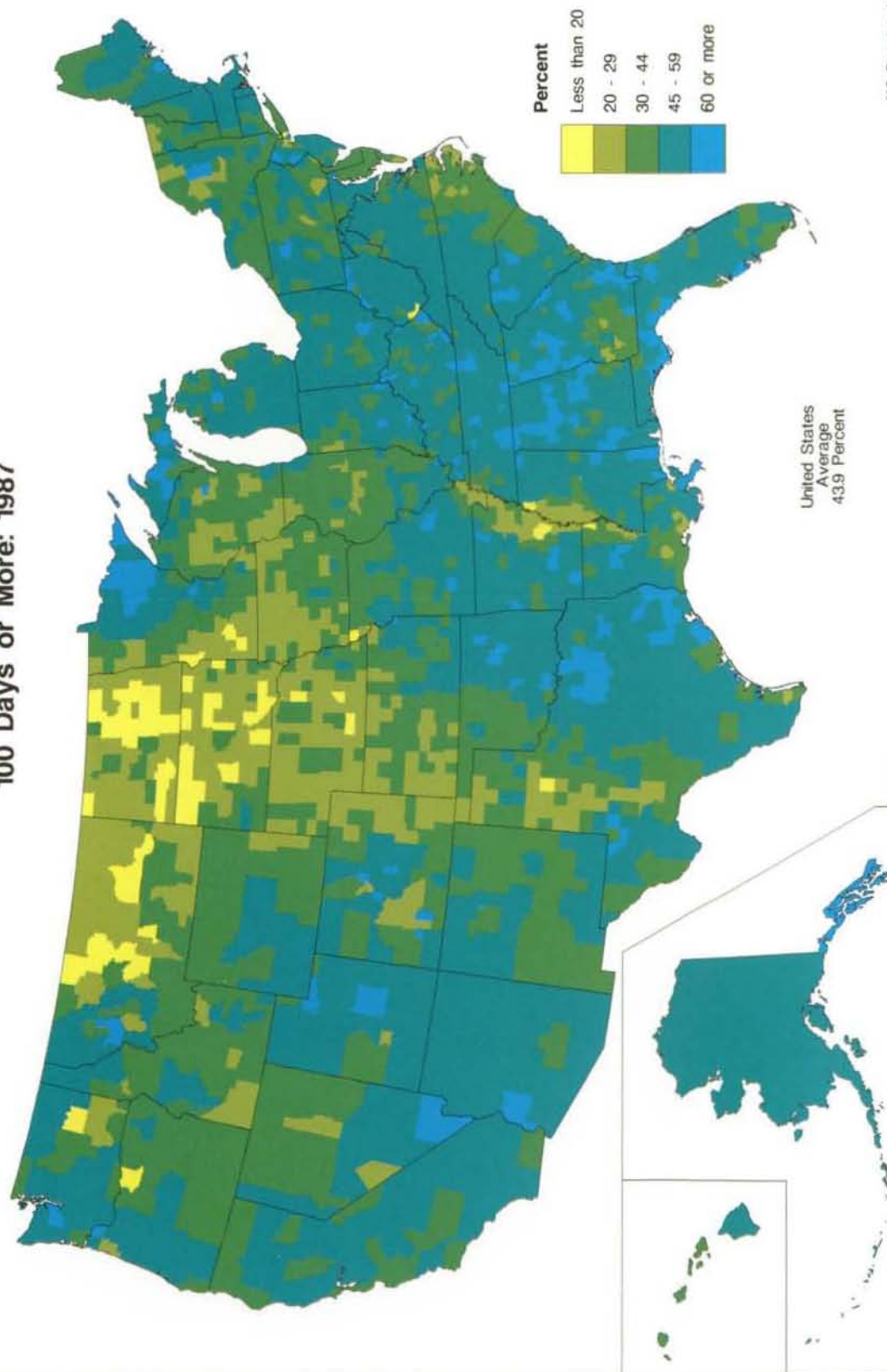




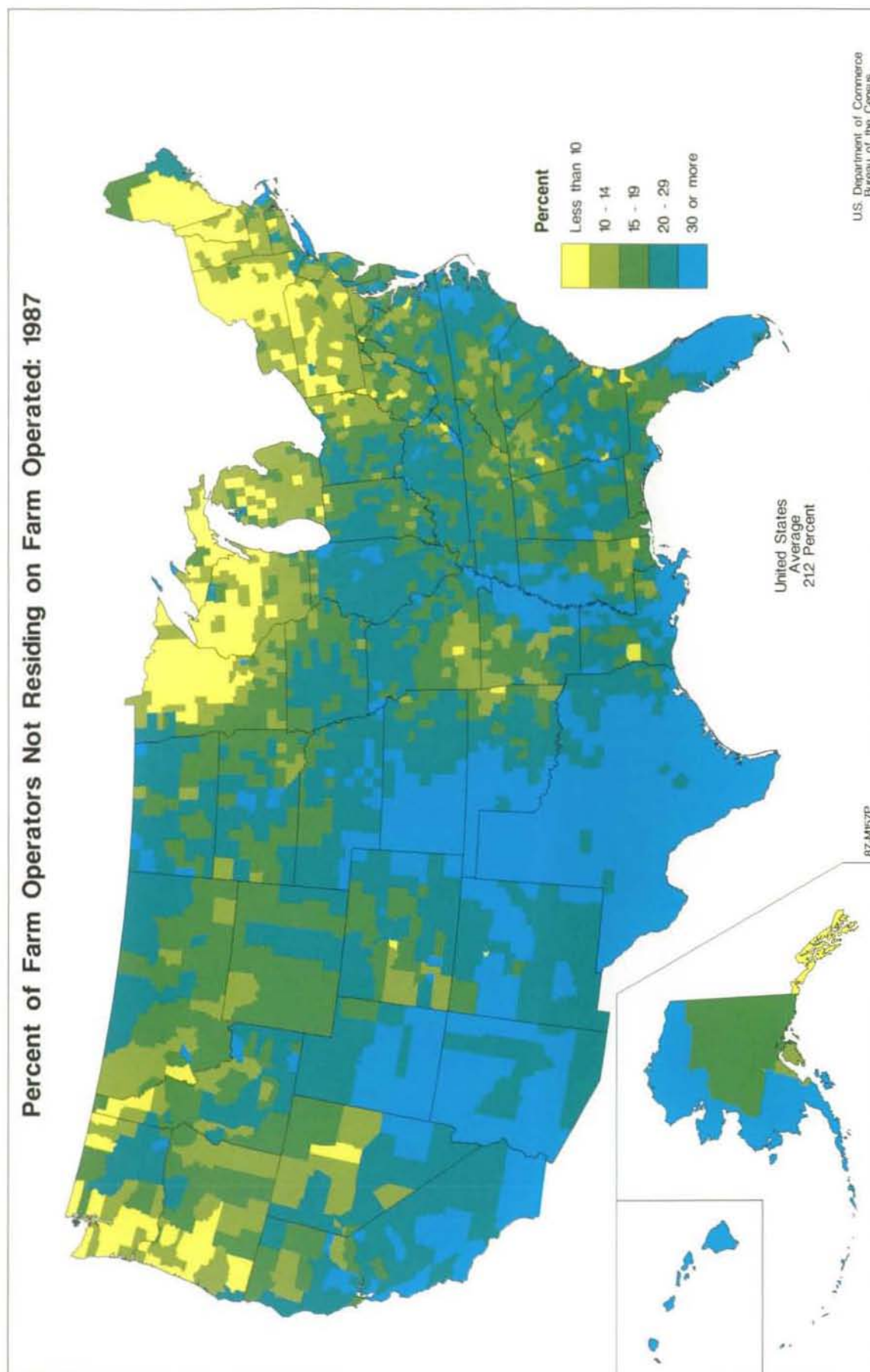
# Farm Operators Reporting Any Off-Farm Work: 1987



# Percent of Farm Operators Working Off Their Farms 100 Days or More: 1987

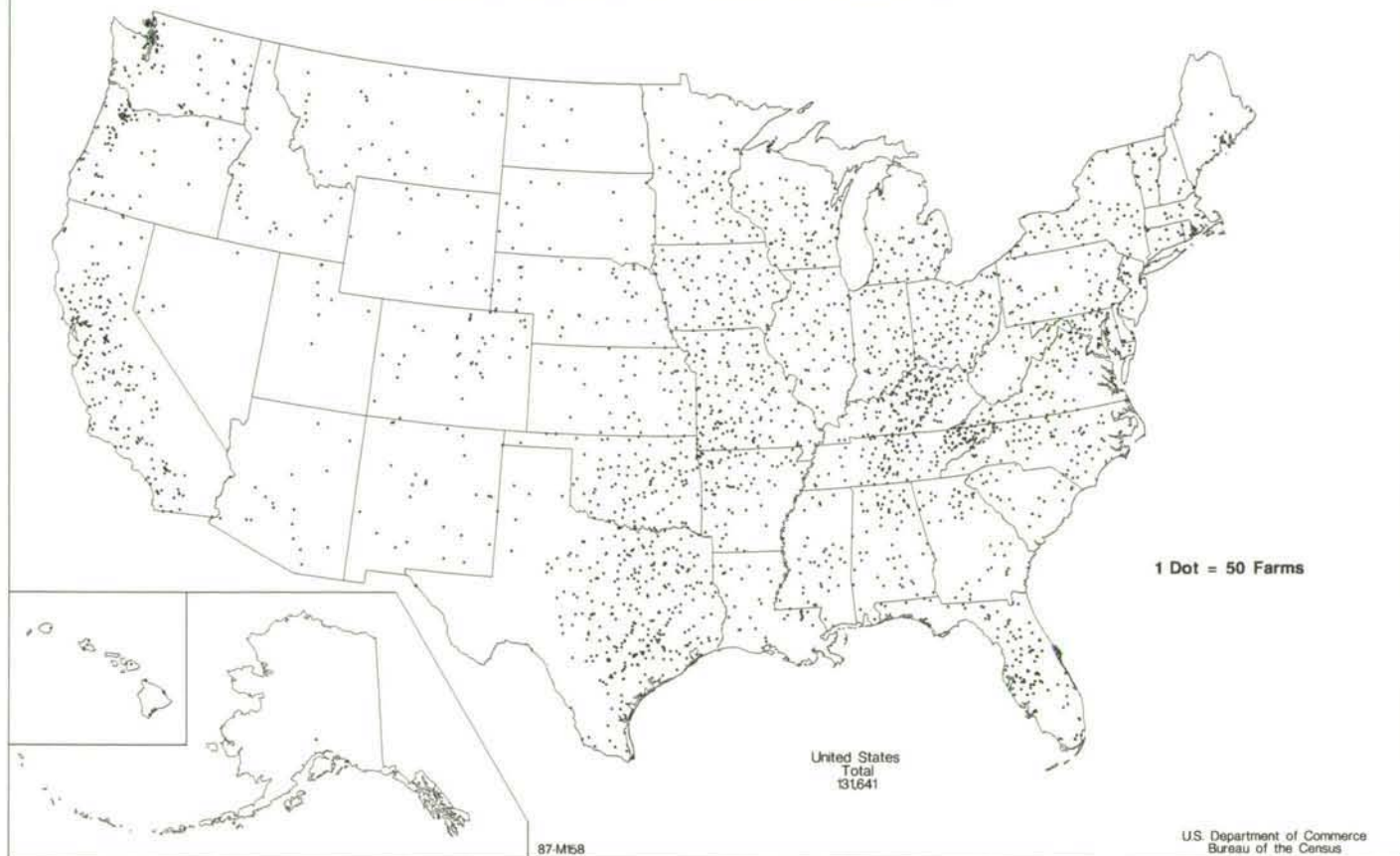


Percent of Farm Operators Not Residing on Farm Operated: 1987

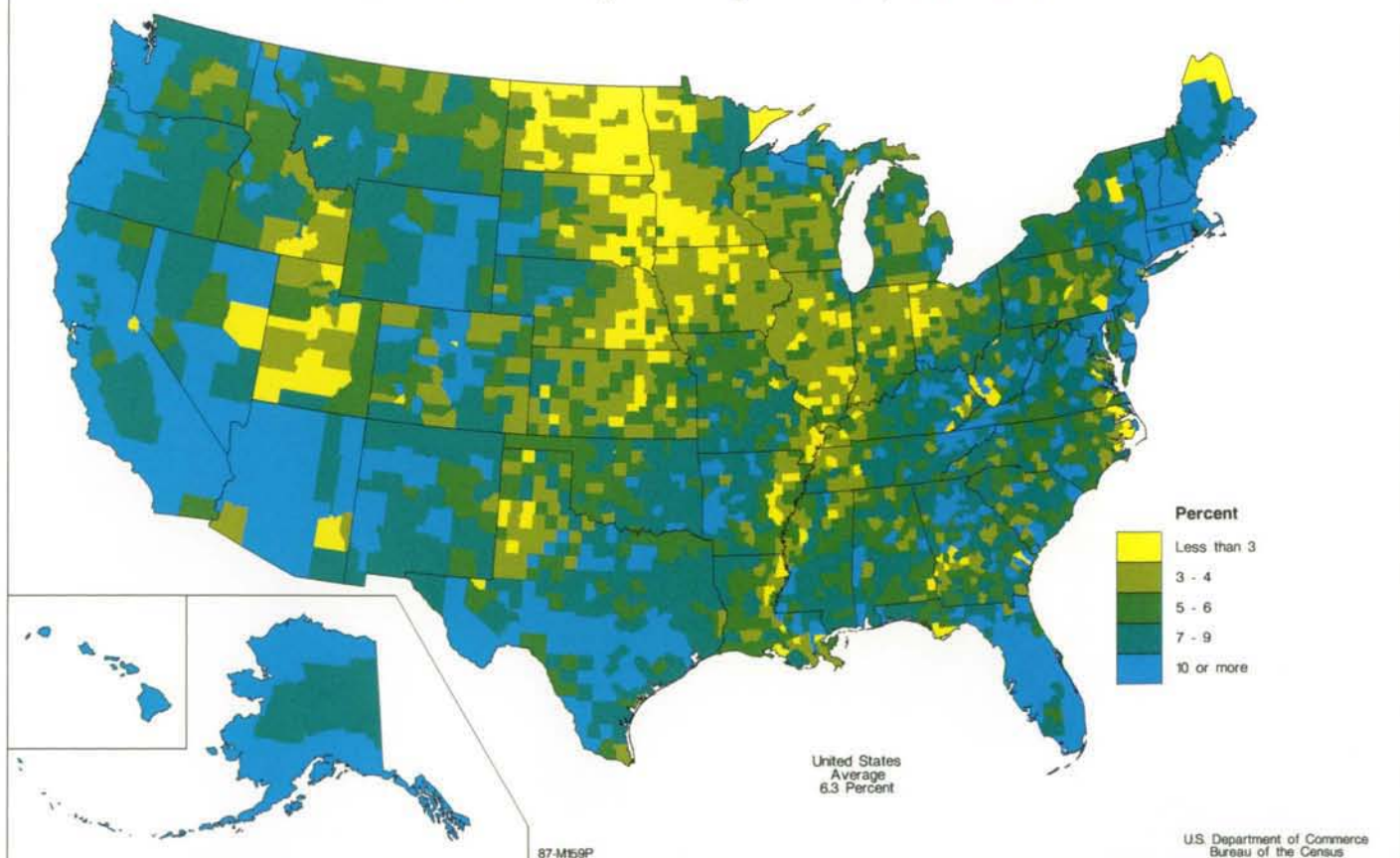




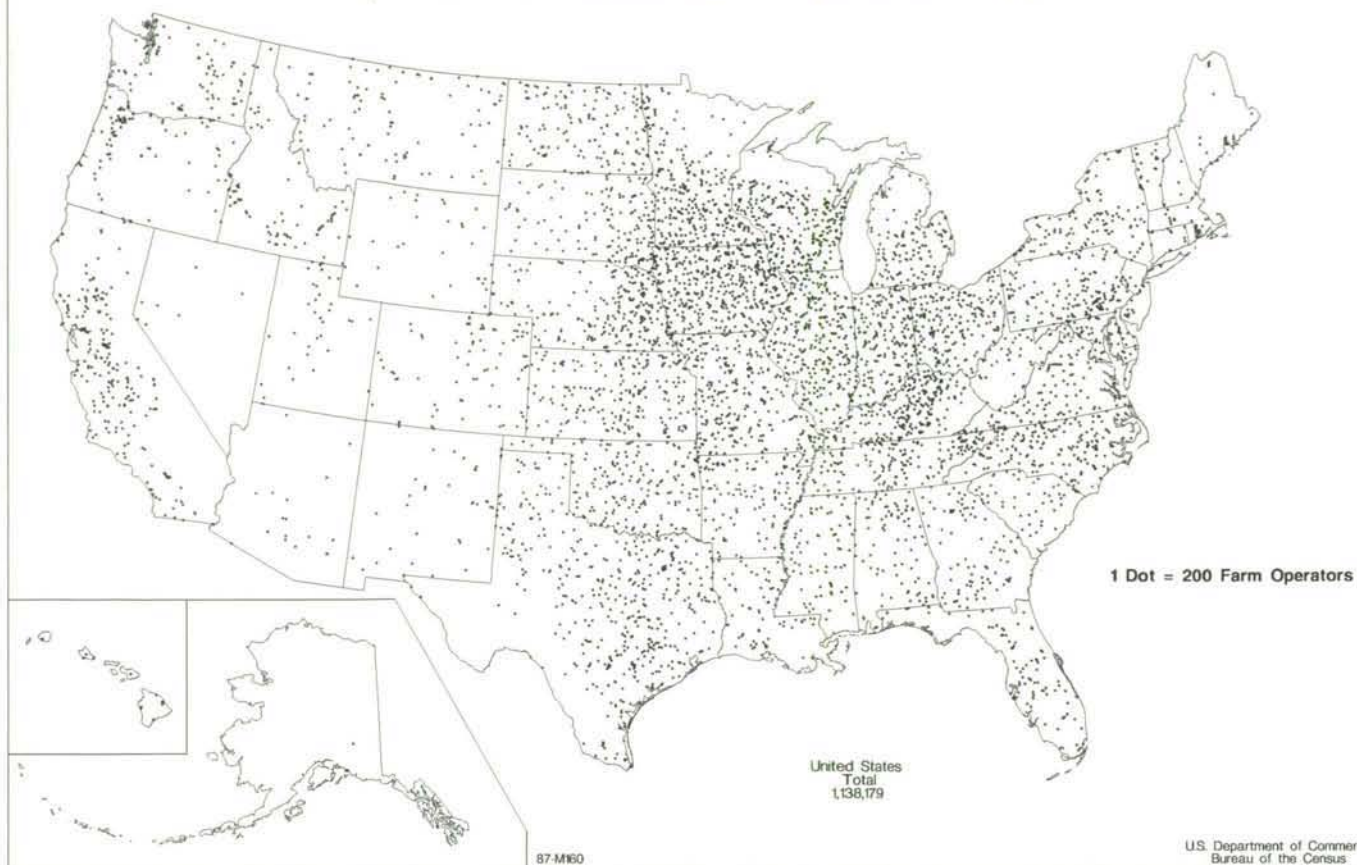
# Farms Operated by Female Operator: 1987



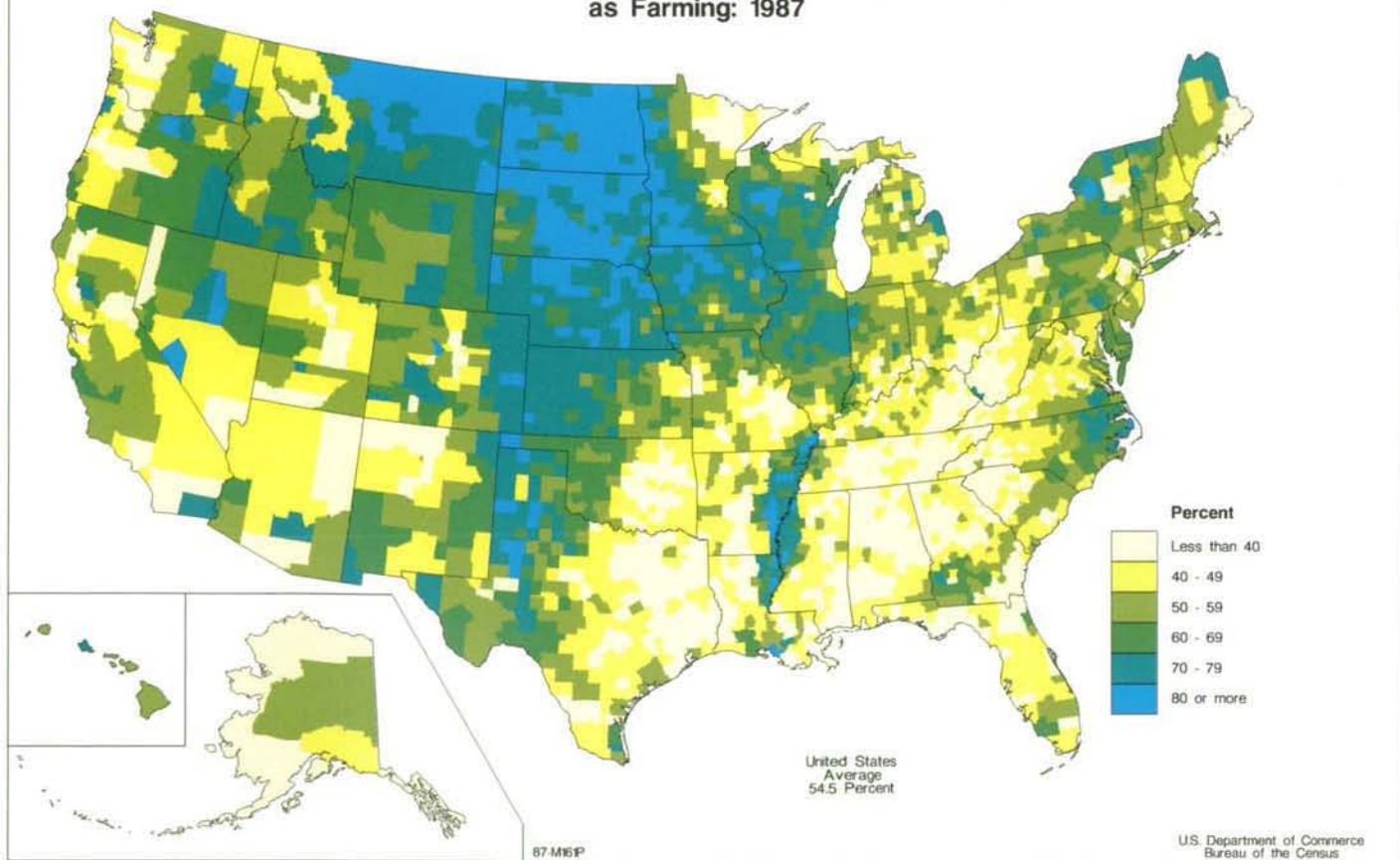
# Percent of Farms Operated by Female Operator: 1987



**Farm Operators Reporting Principal Occupation as Farming: 1987**

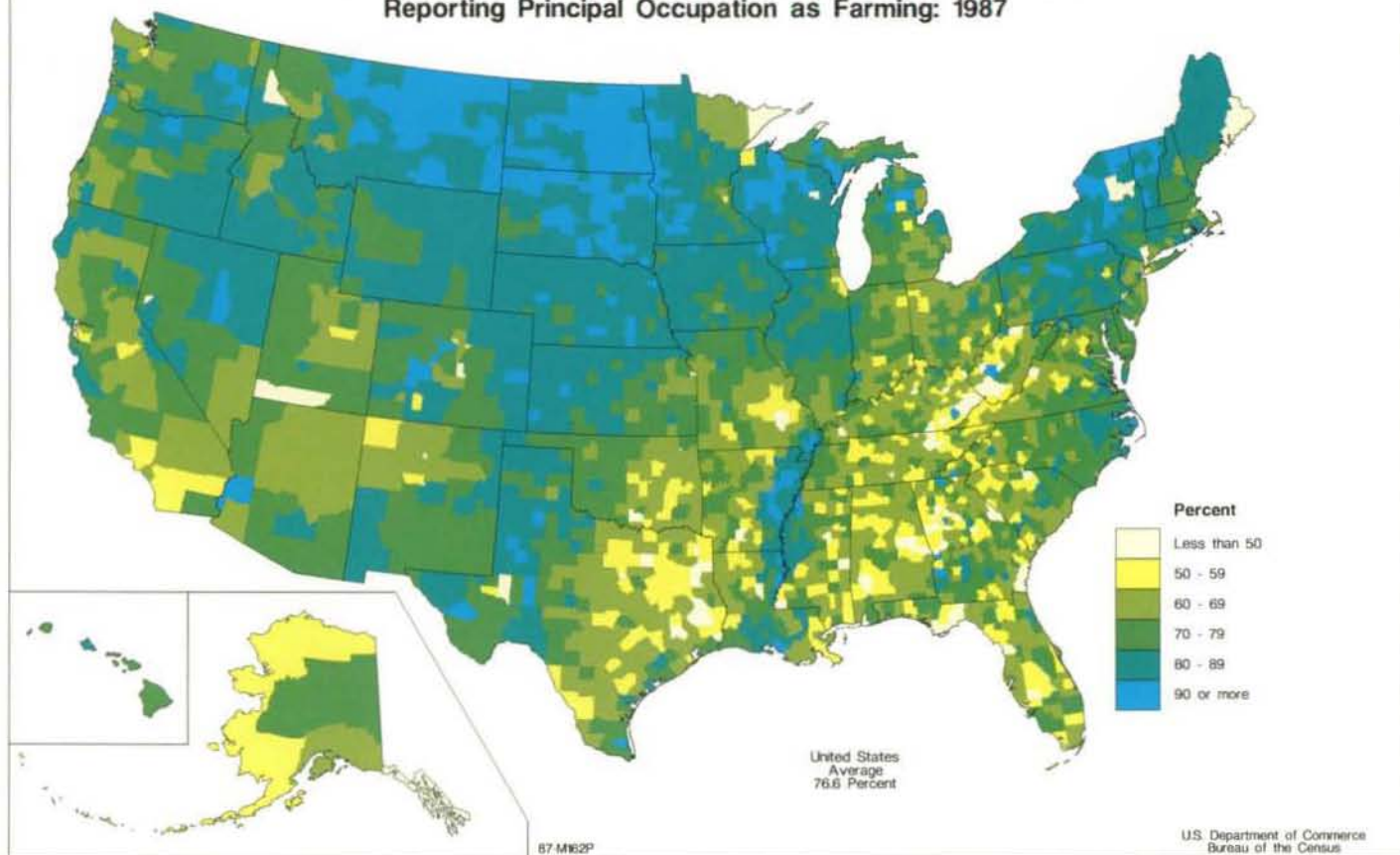


**Percent of Farm Operators Reporting Principal Occupation as Farming: 1987**

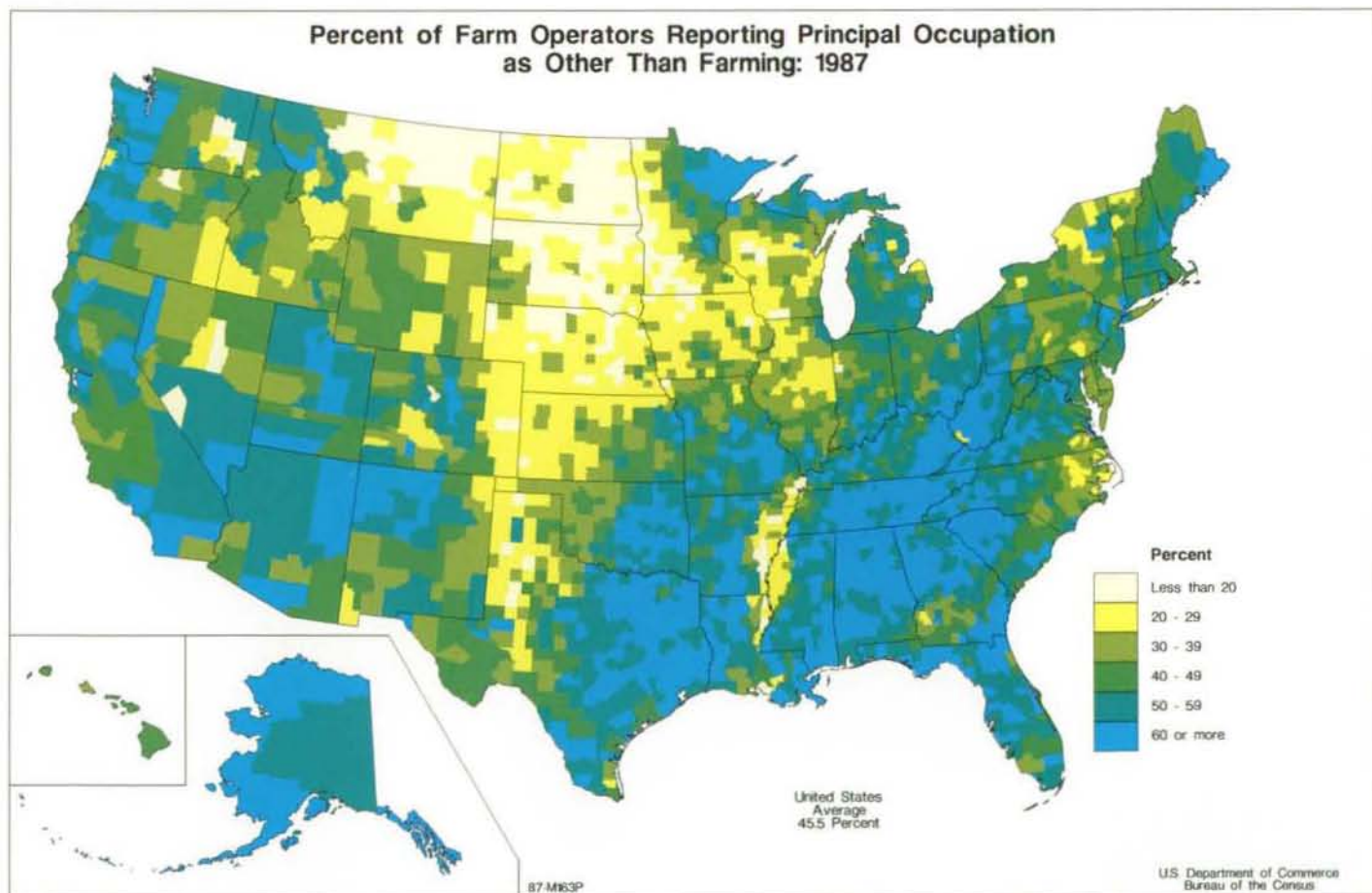




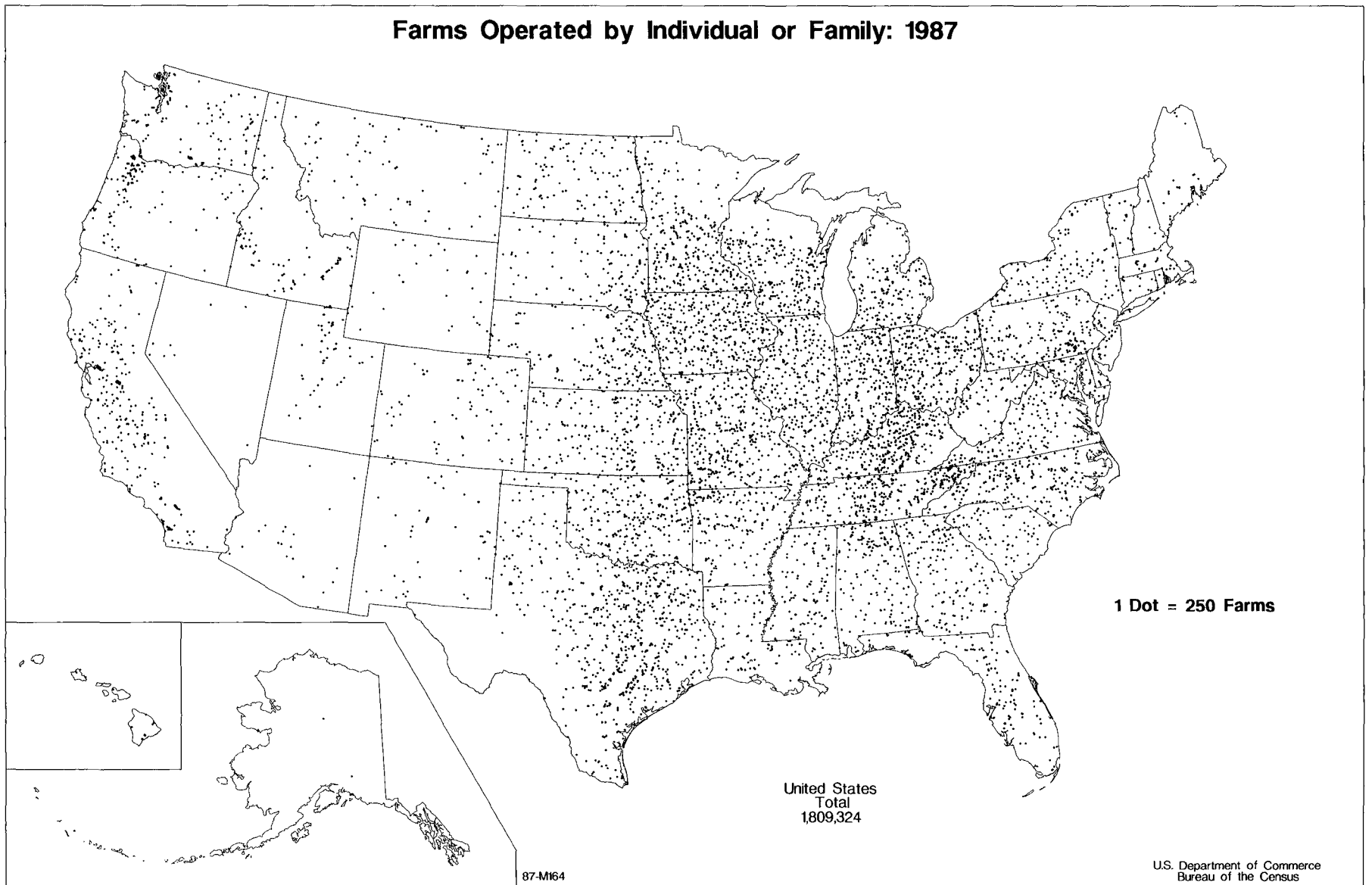
**Percent of Farm Operators With Sales of \$10,000 or More Reporting Principal Occupation as Farming: 1987**



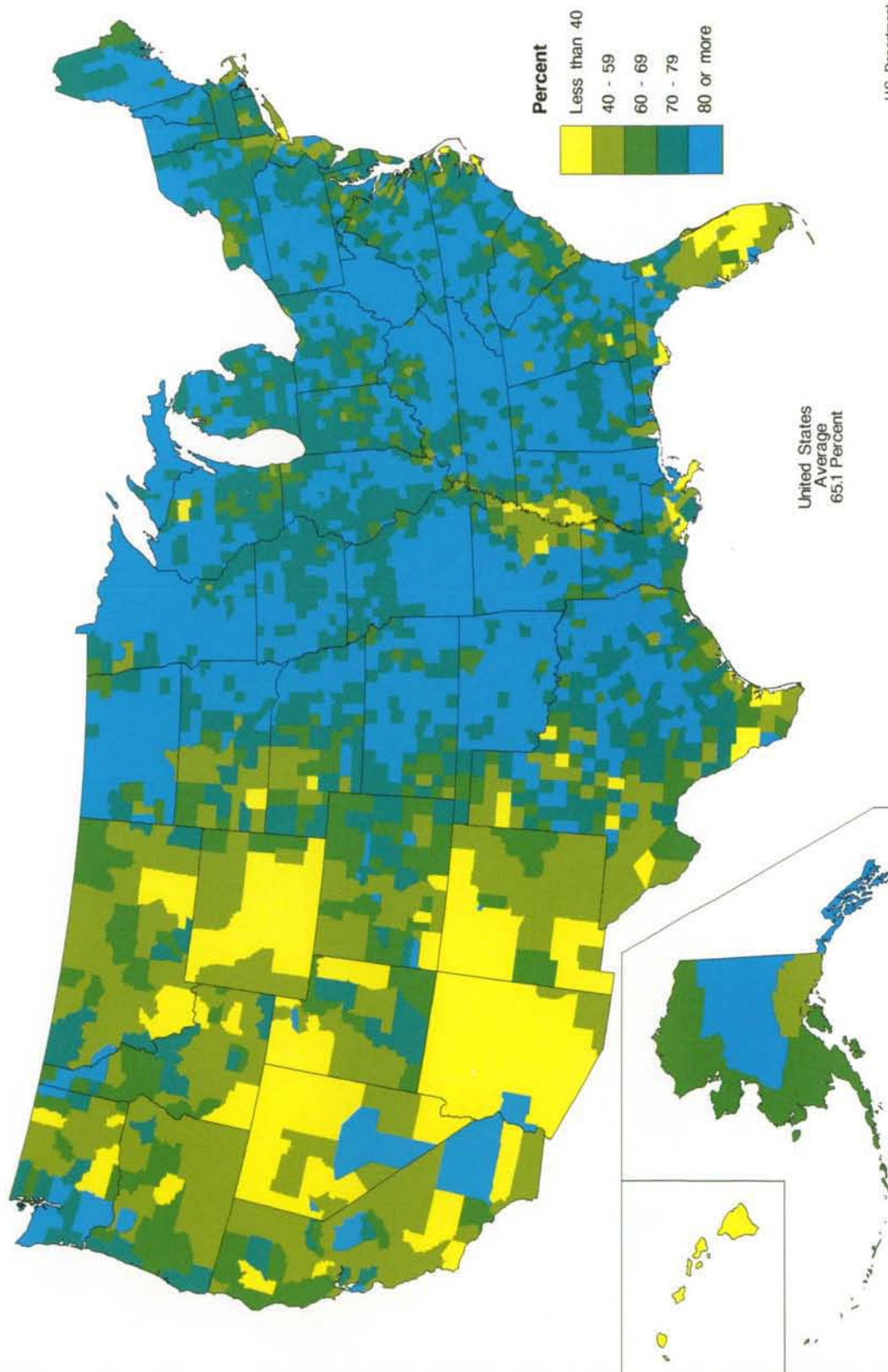
**Percent of Farm Operators Reporting Principal Occupation as Other Than Farming: 1987**





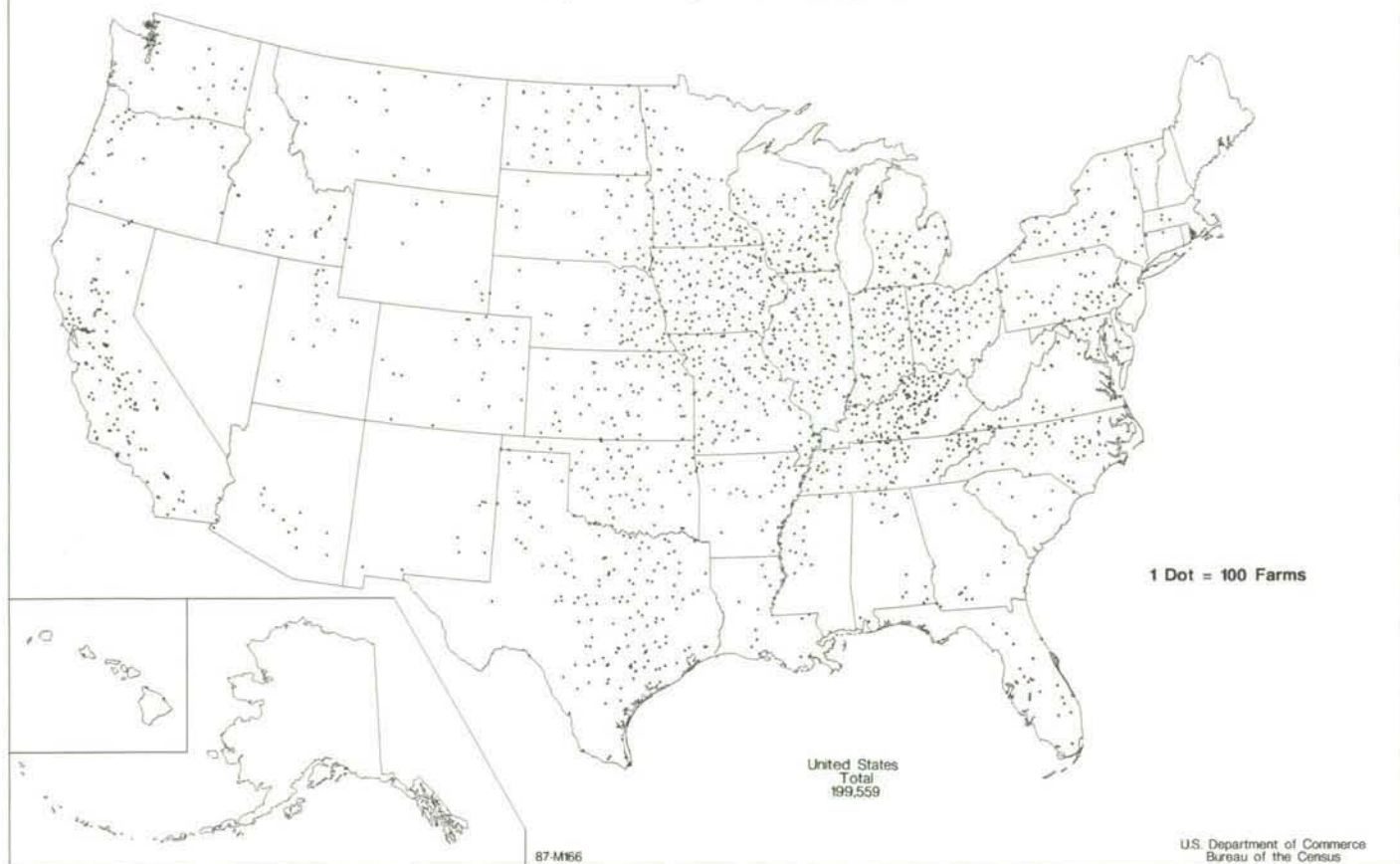


**Percent of Land in Farms Operated by Individual or Family: 1987**

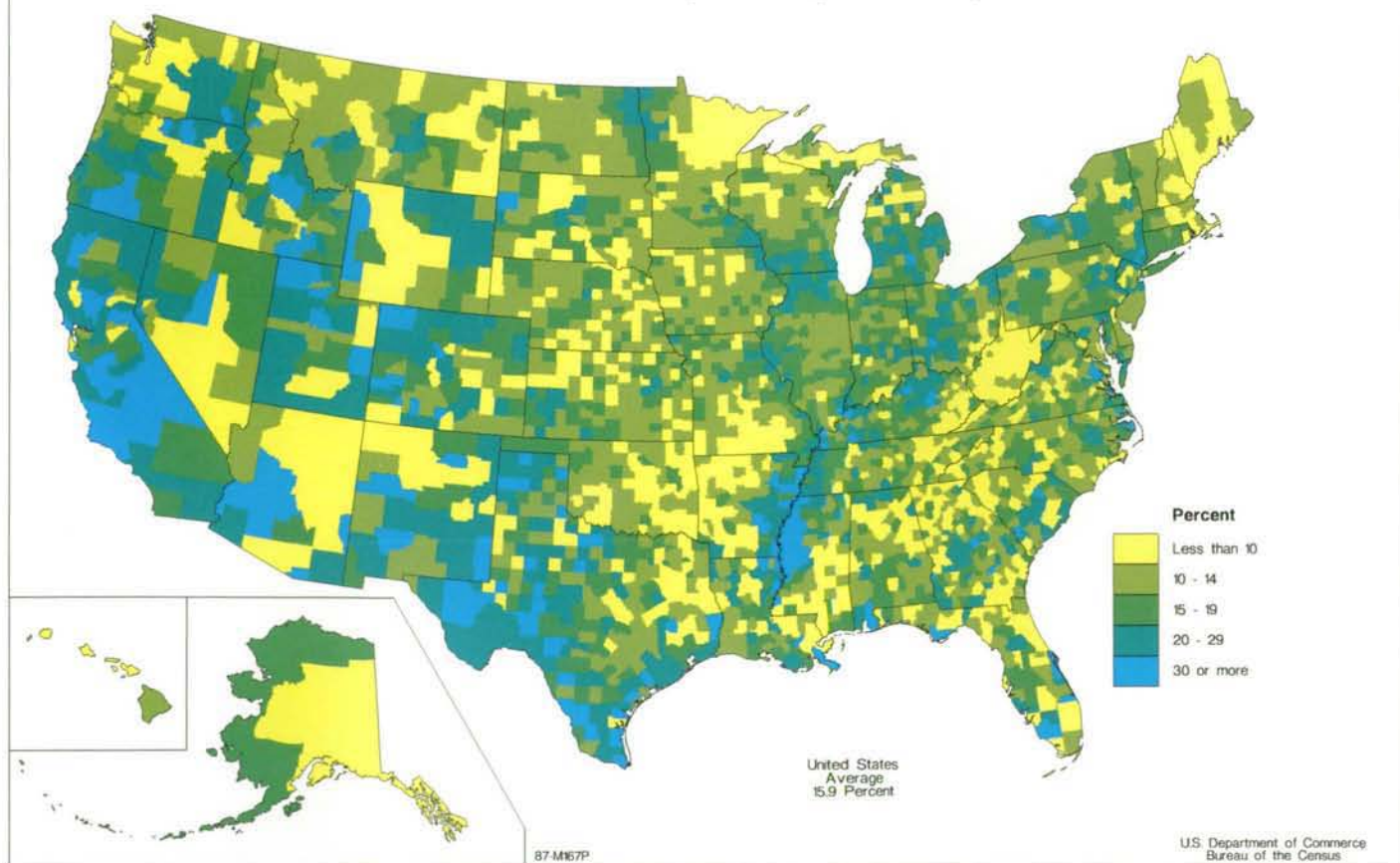


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**Farms Operated by Partnership: 1987**

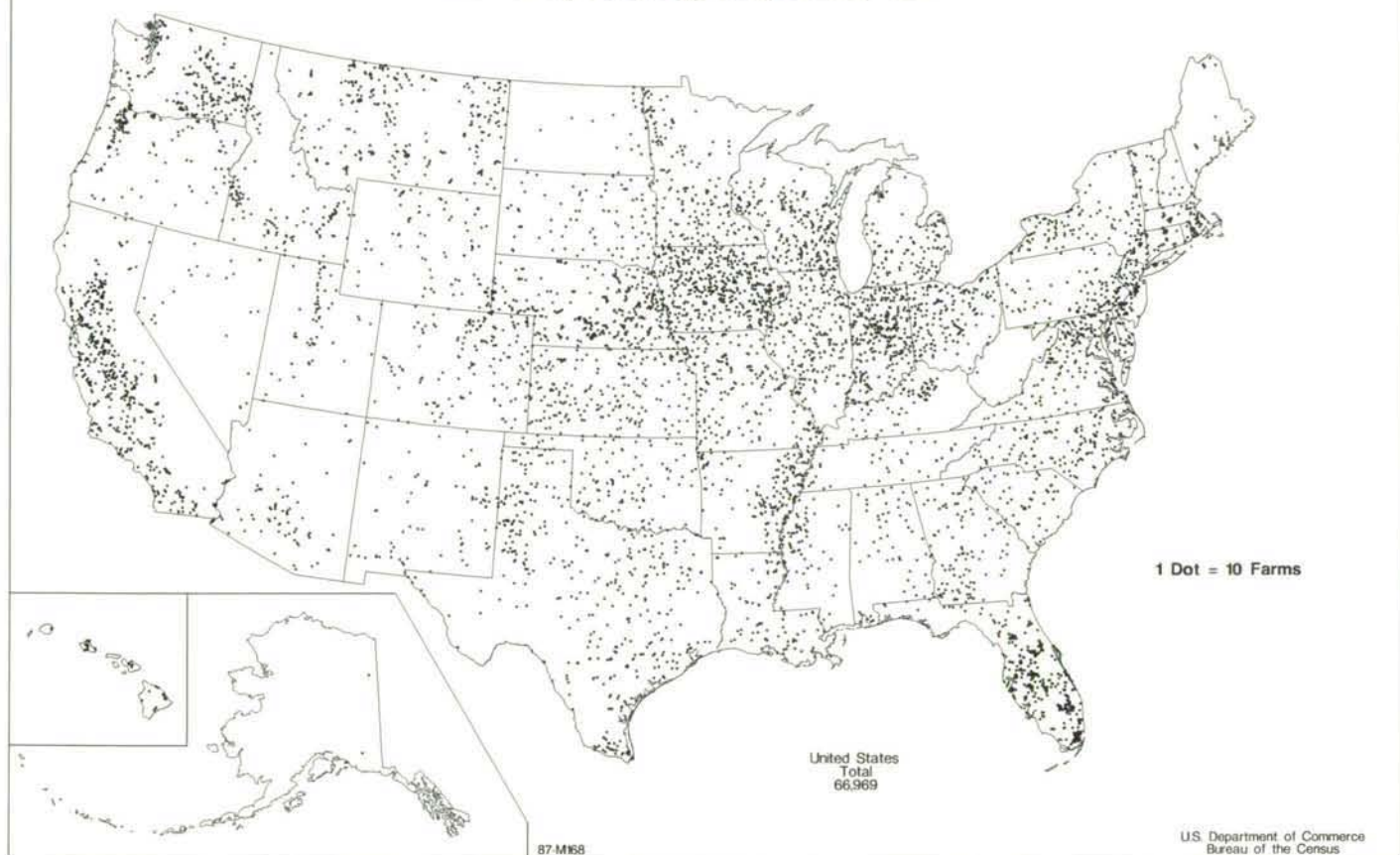


**Percent of Land in Farms Operated by Partnership: 1987**

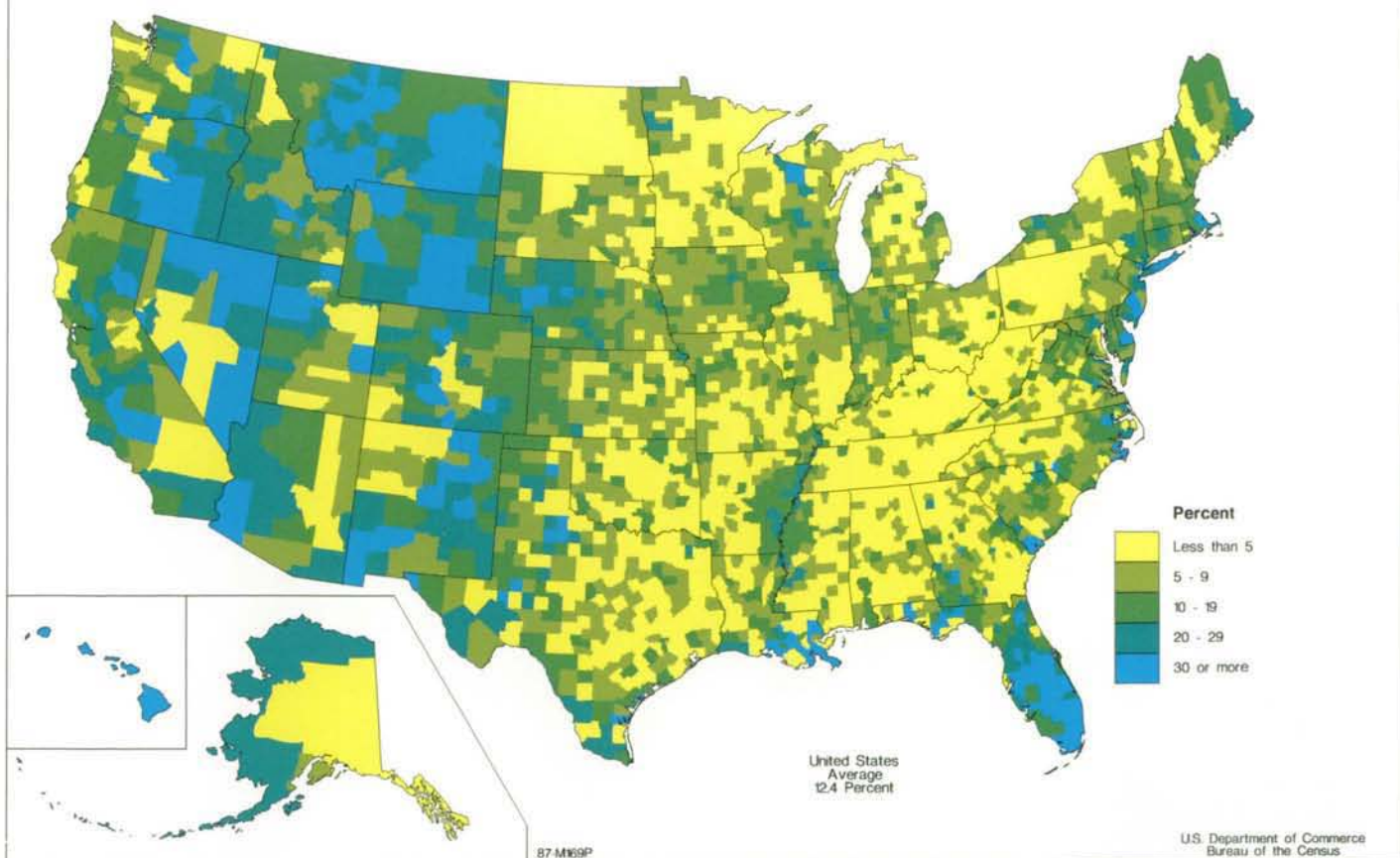


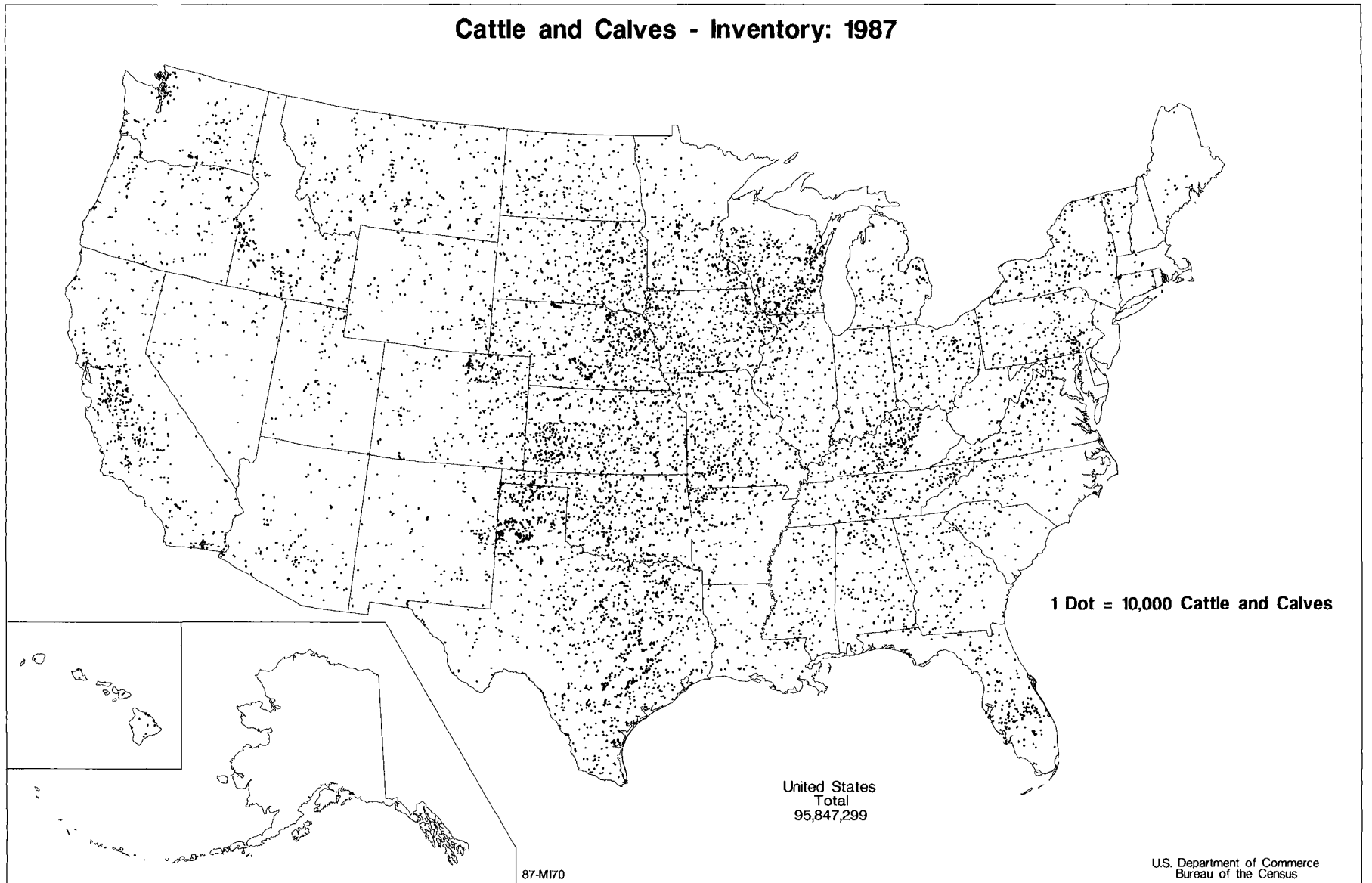


# Farms Operated by Corporation: 1987

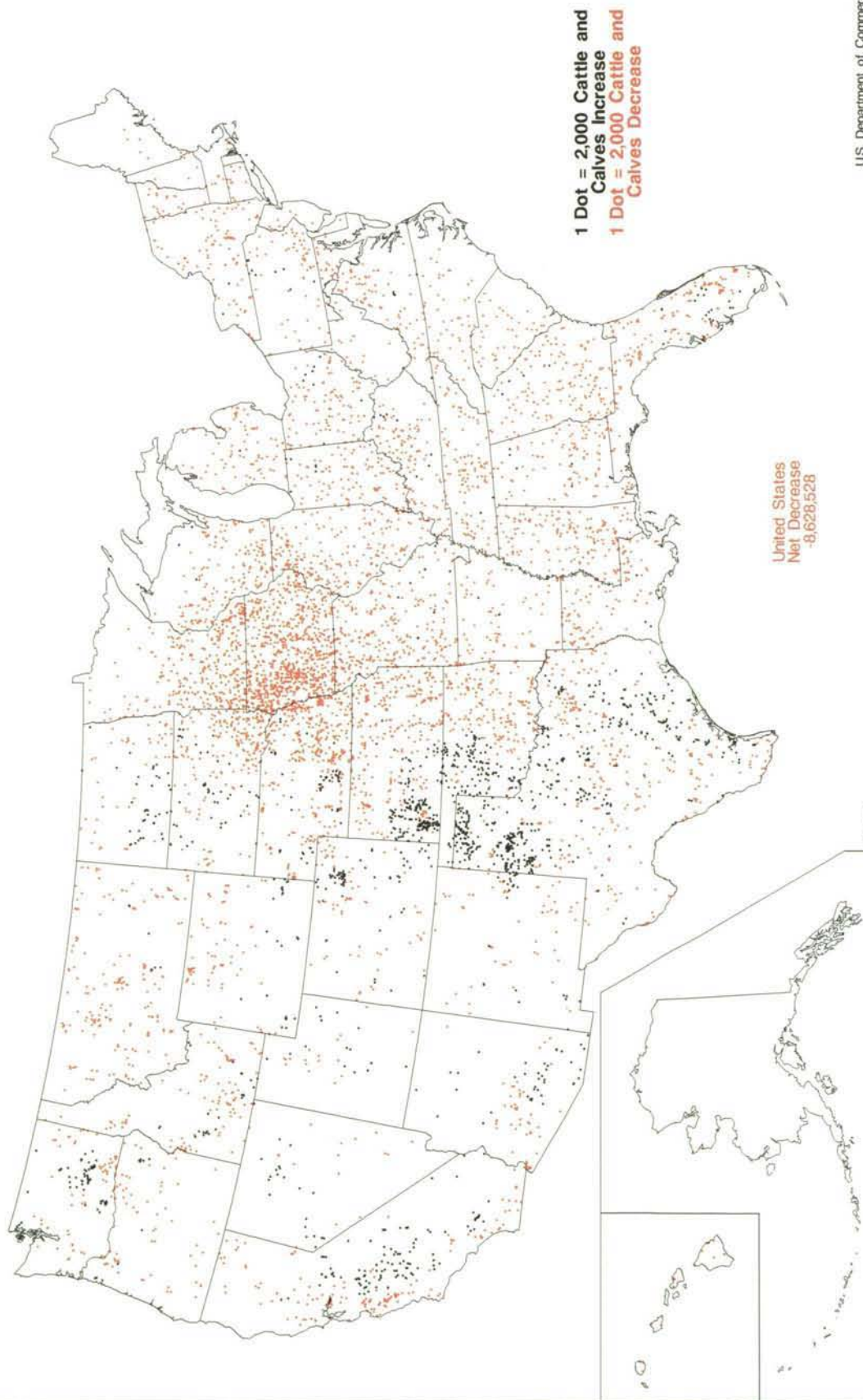


# Percent of Land in Farms Operated by Corporation: 1987





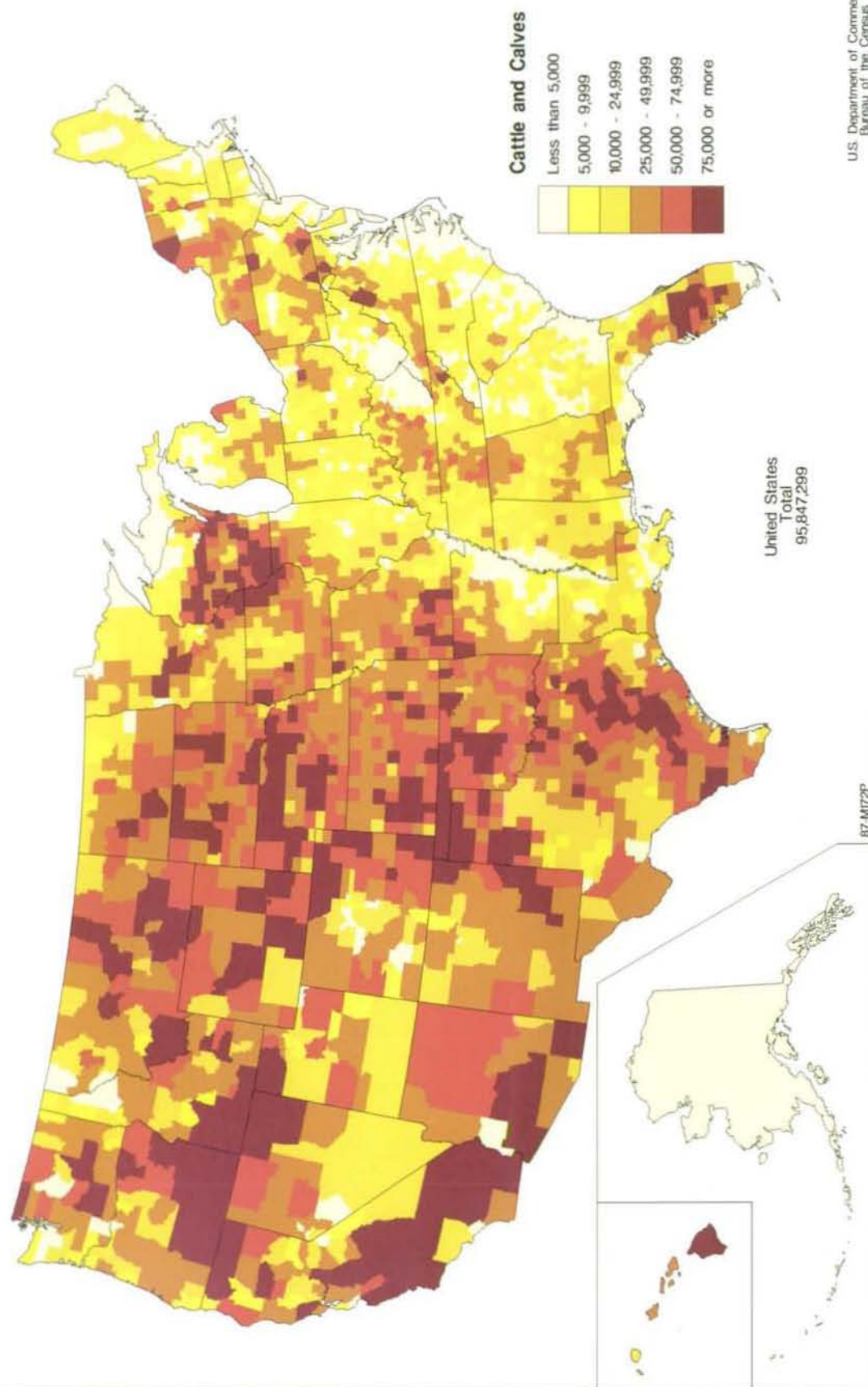
# Cattle and Calves - Change in Inventory: 1982 to 1987



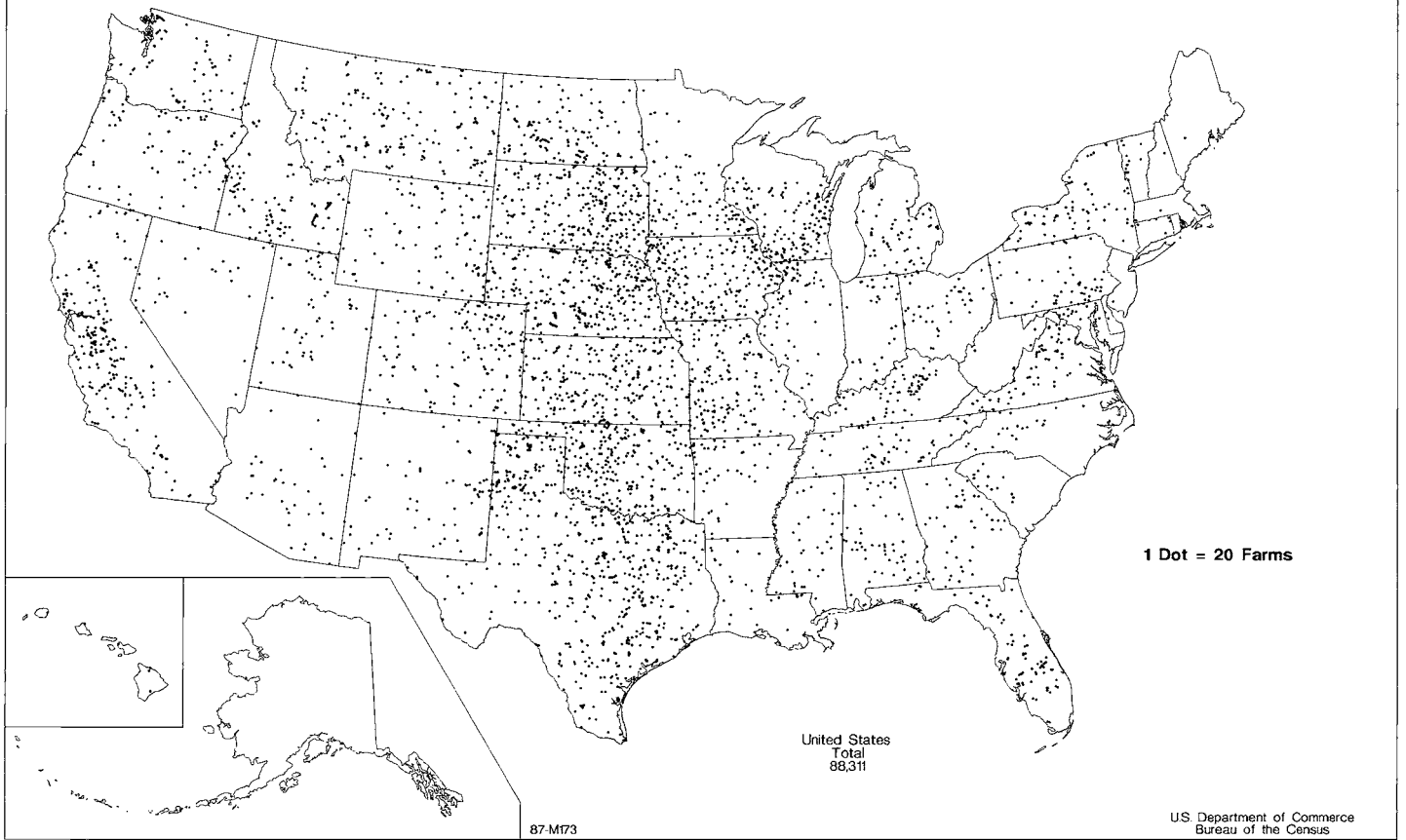
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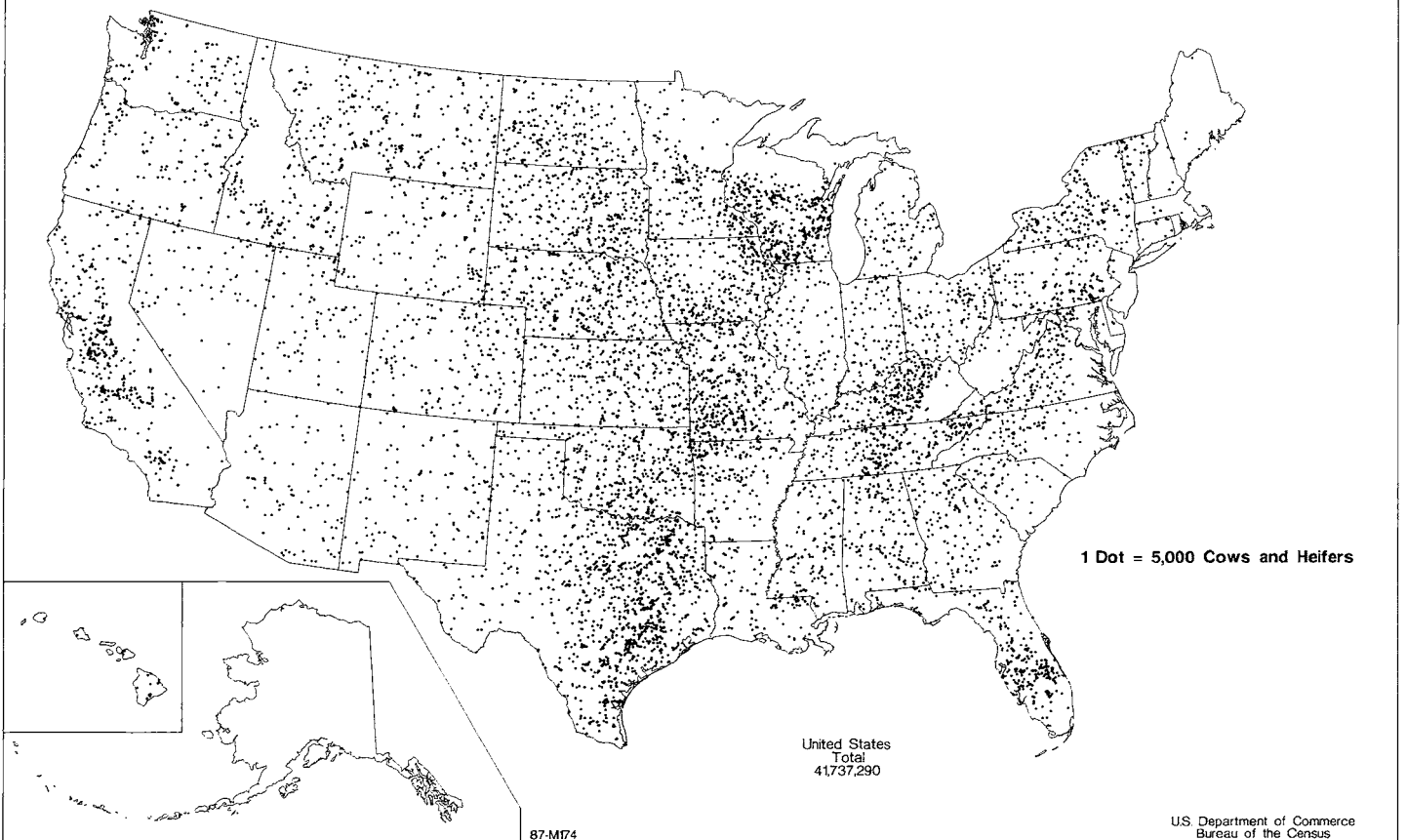
# Cattle and Calves - Inventory by County: 1987



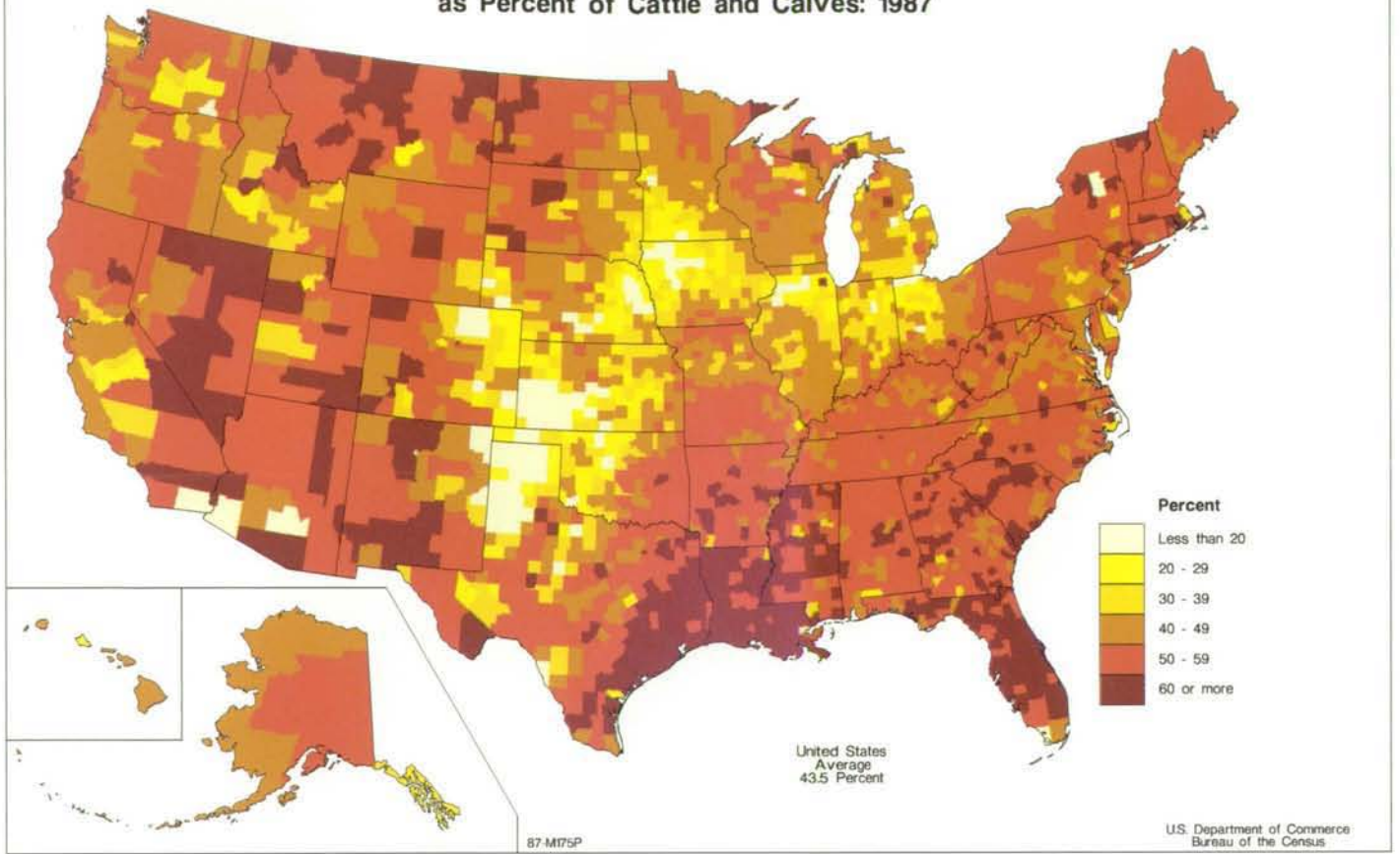
# Farms With 200 or More Cattle and Calves - Inventory: 1987



# Cows and Heifers That Had Calved - Inventory: 1987

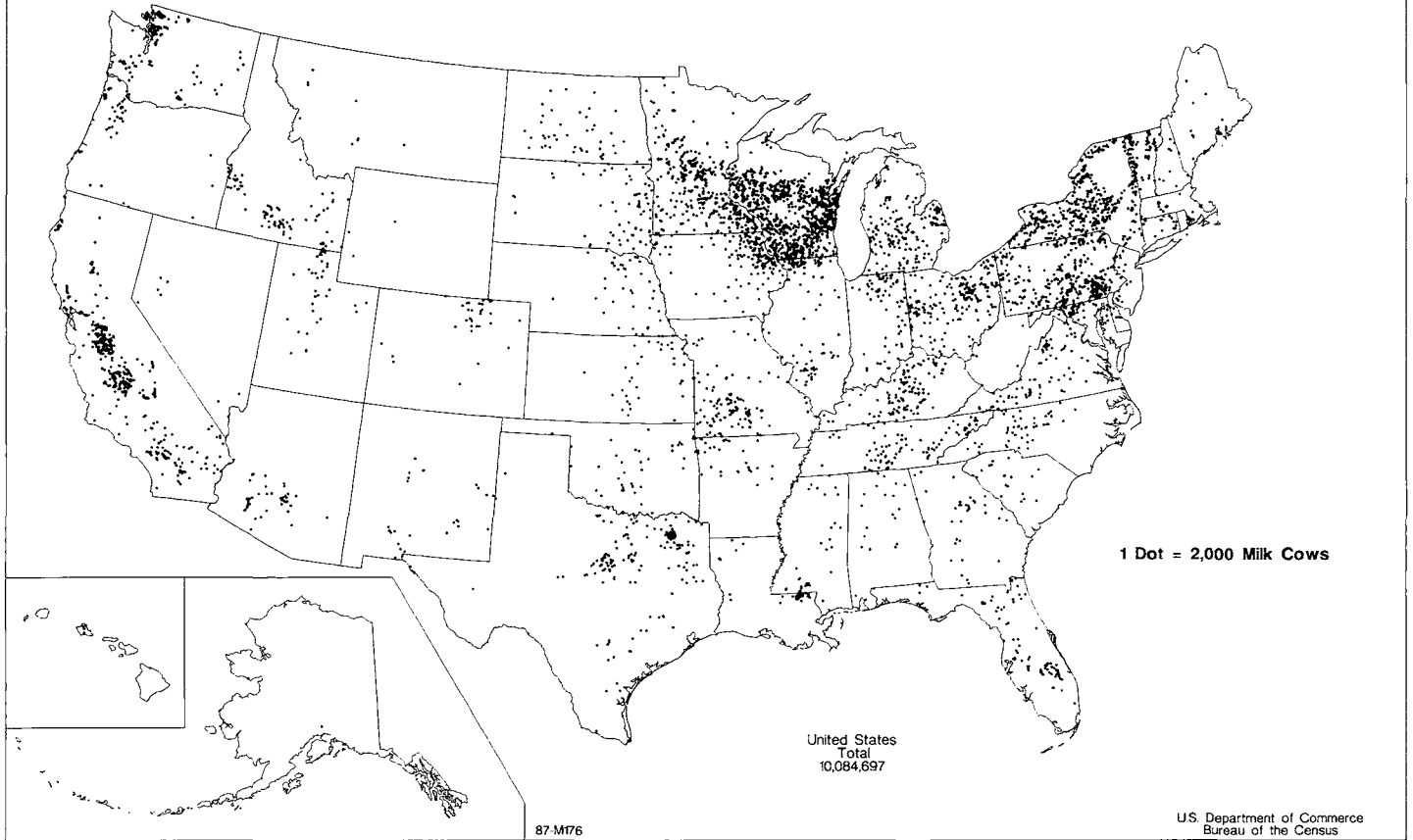


**Cows and Heifers That Had Calved - Inventory  
as Percent of Cattle and Calves: 1987**

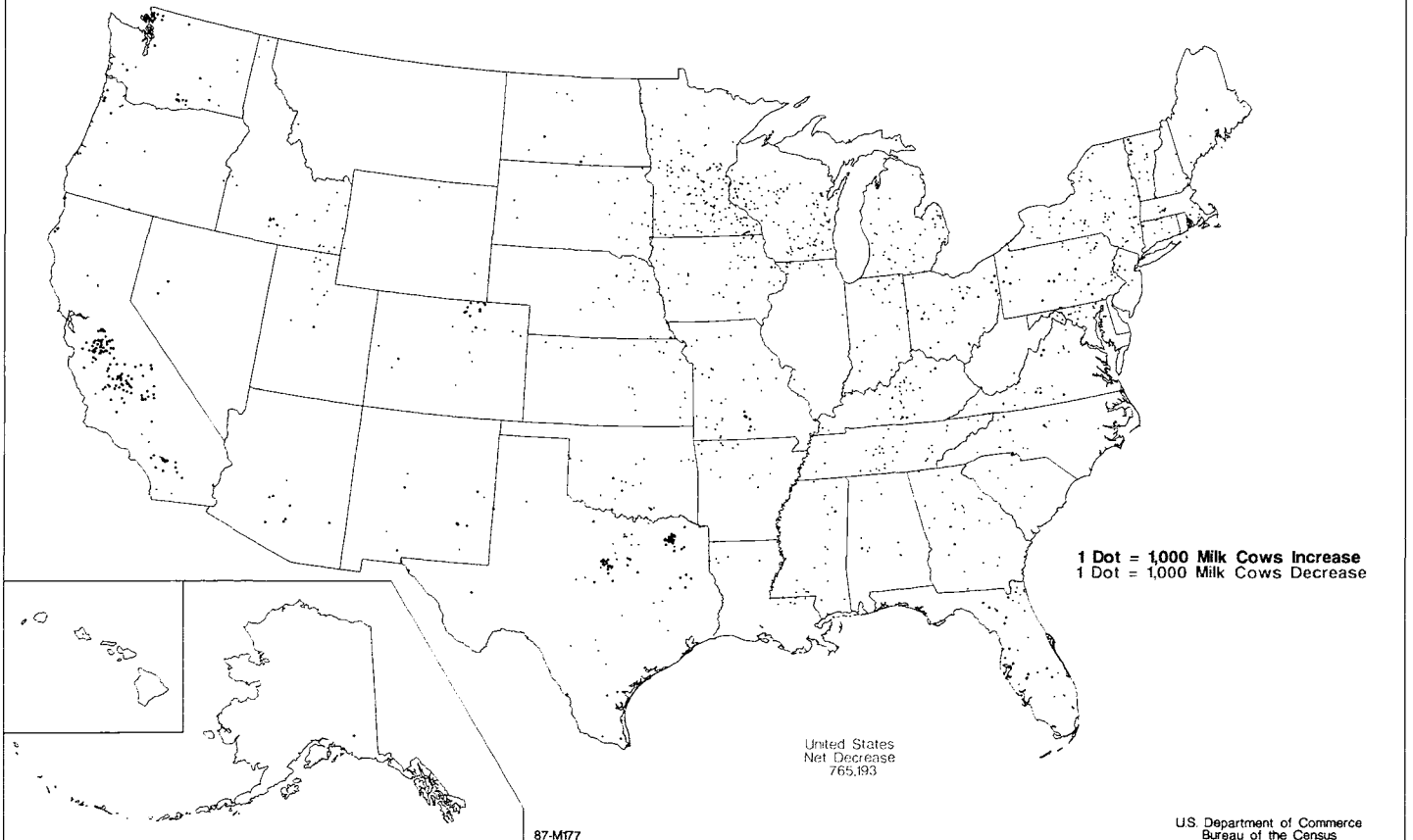




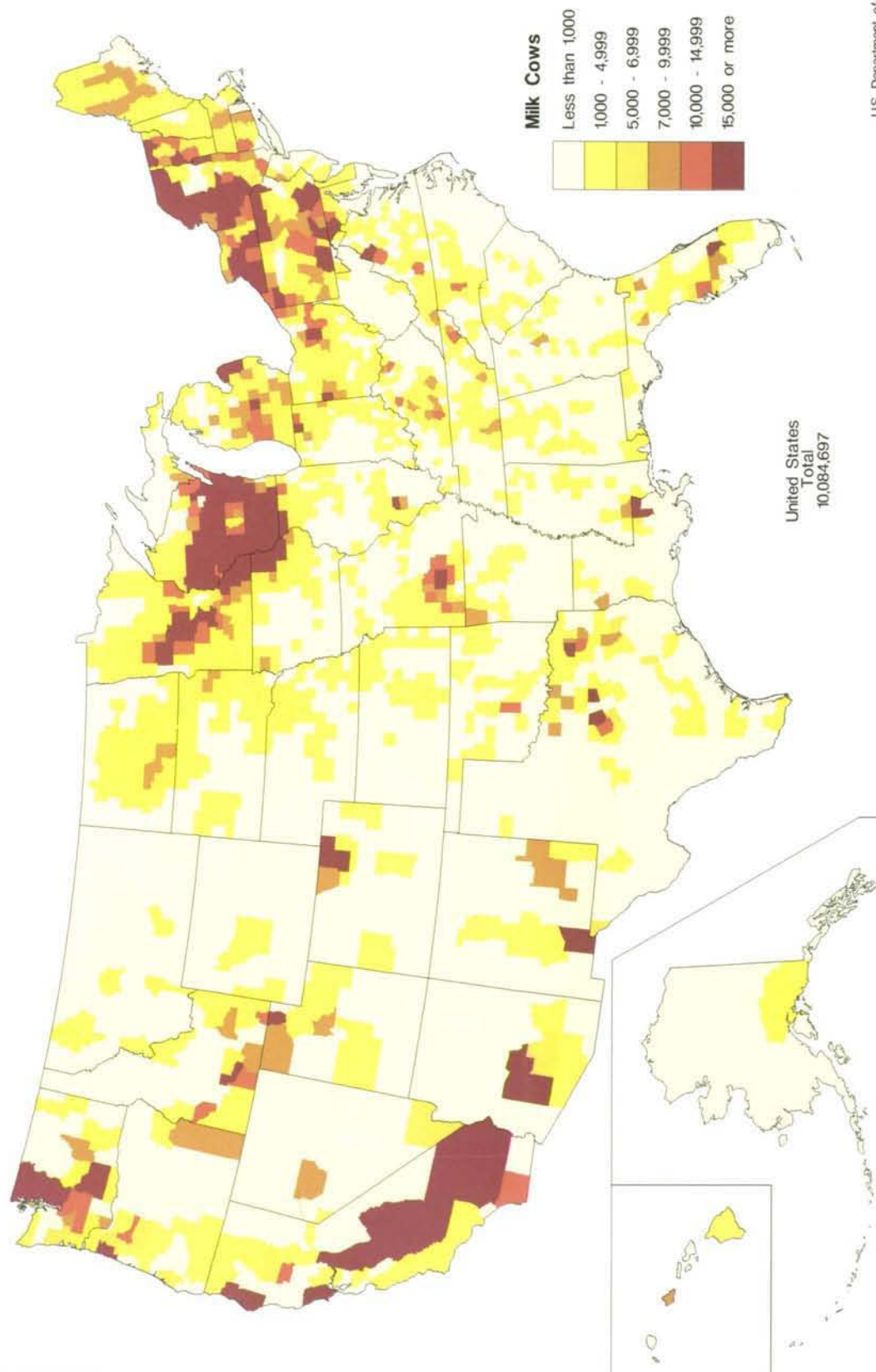
### Milk Cows - Inventory: 1987



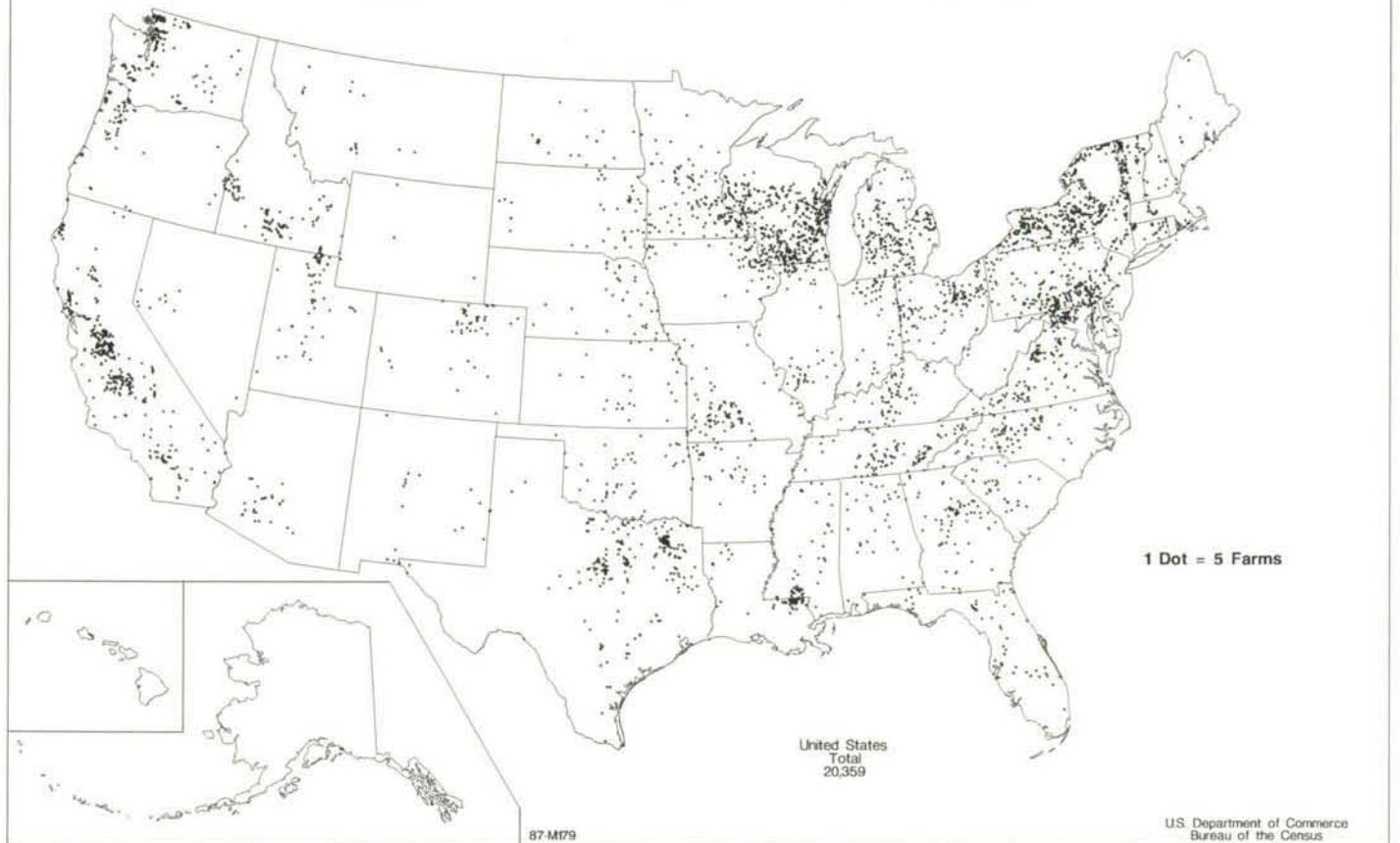
### Milk Cows - Change in Inventory: 1982 to 1987



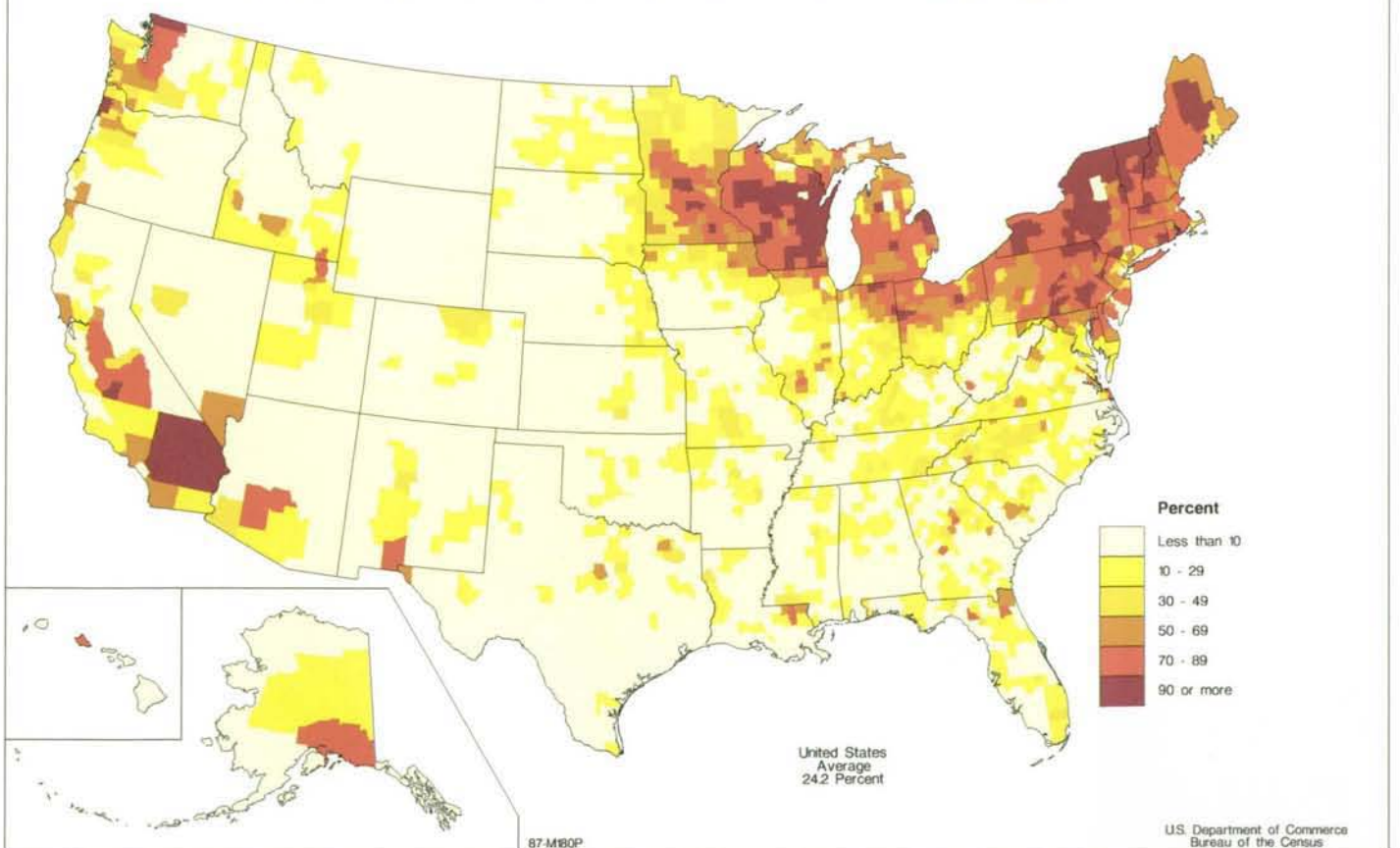
# Milk Cows - Inventory by County: 1987



**Farms With 100 or More Milk Cows - Inventory: 1987**

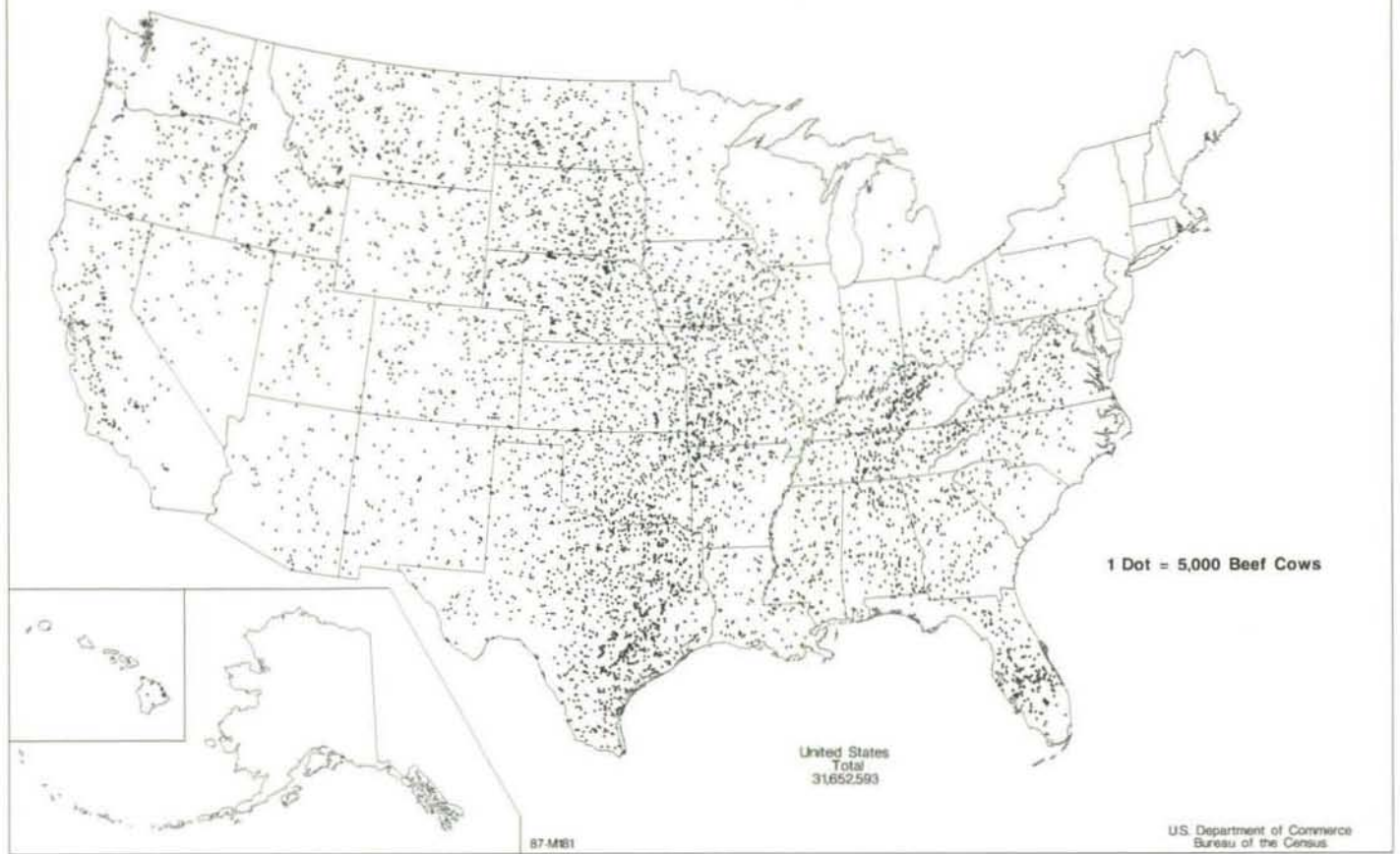


**Milk Cows as Percent of Cows and Heifers That Had Calved: 1987**

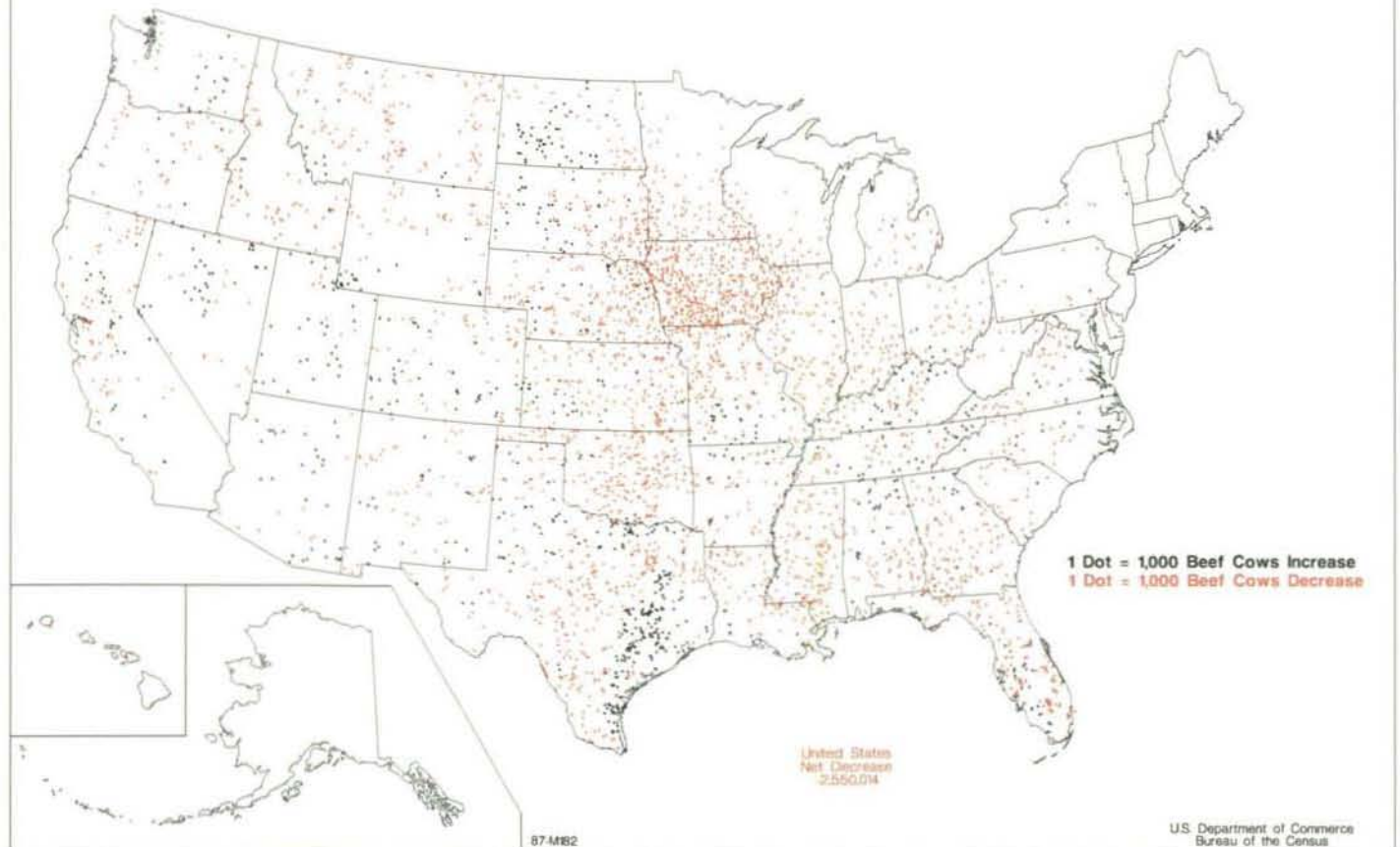




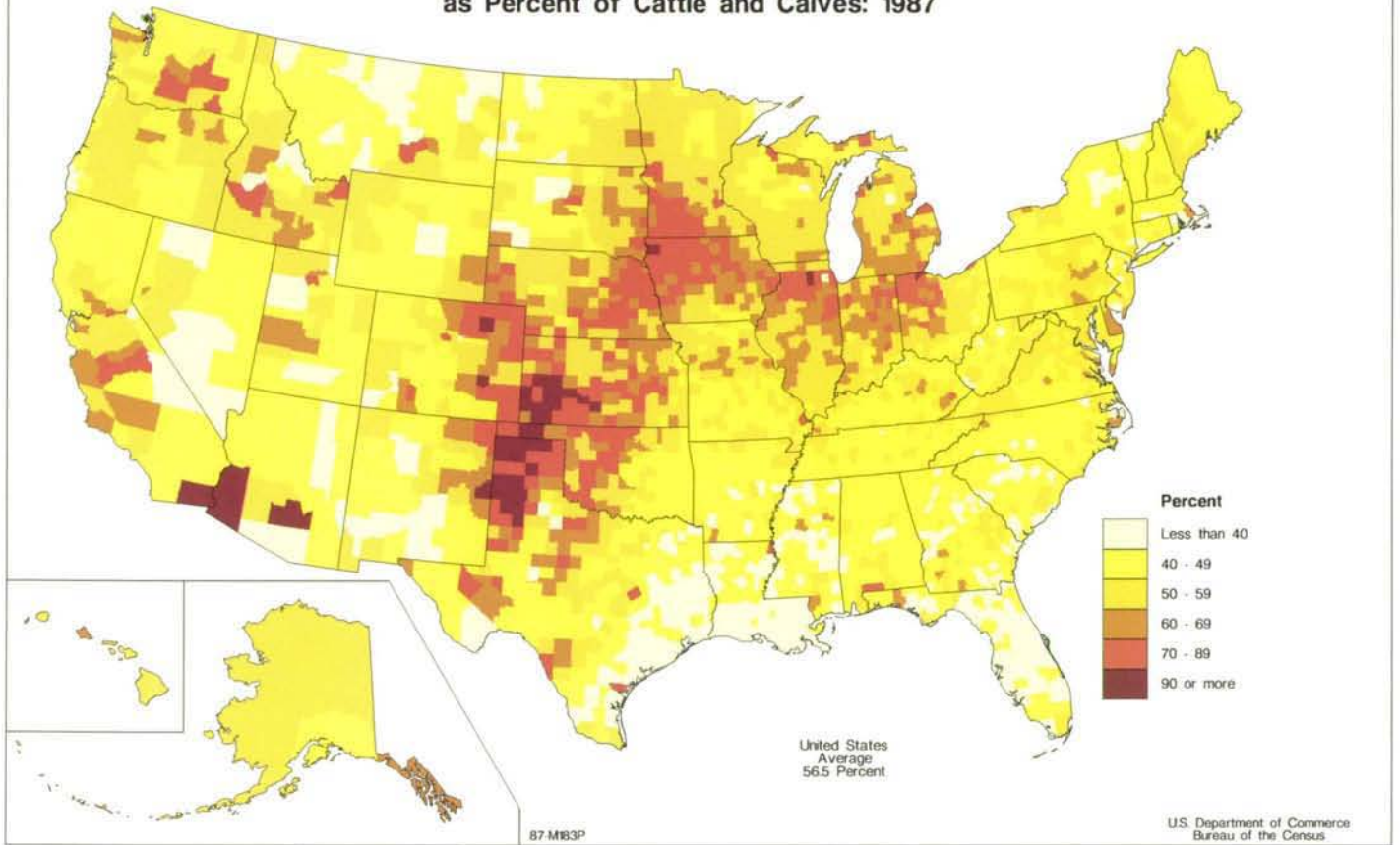
### Beef Cows - Inventory: 1987

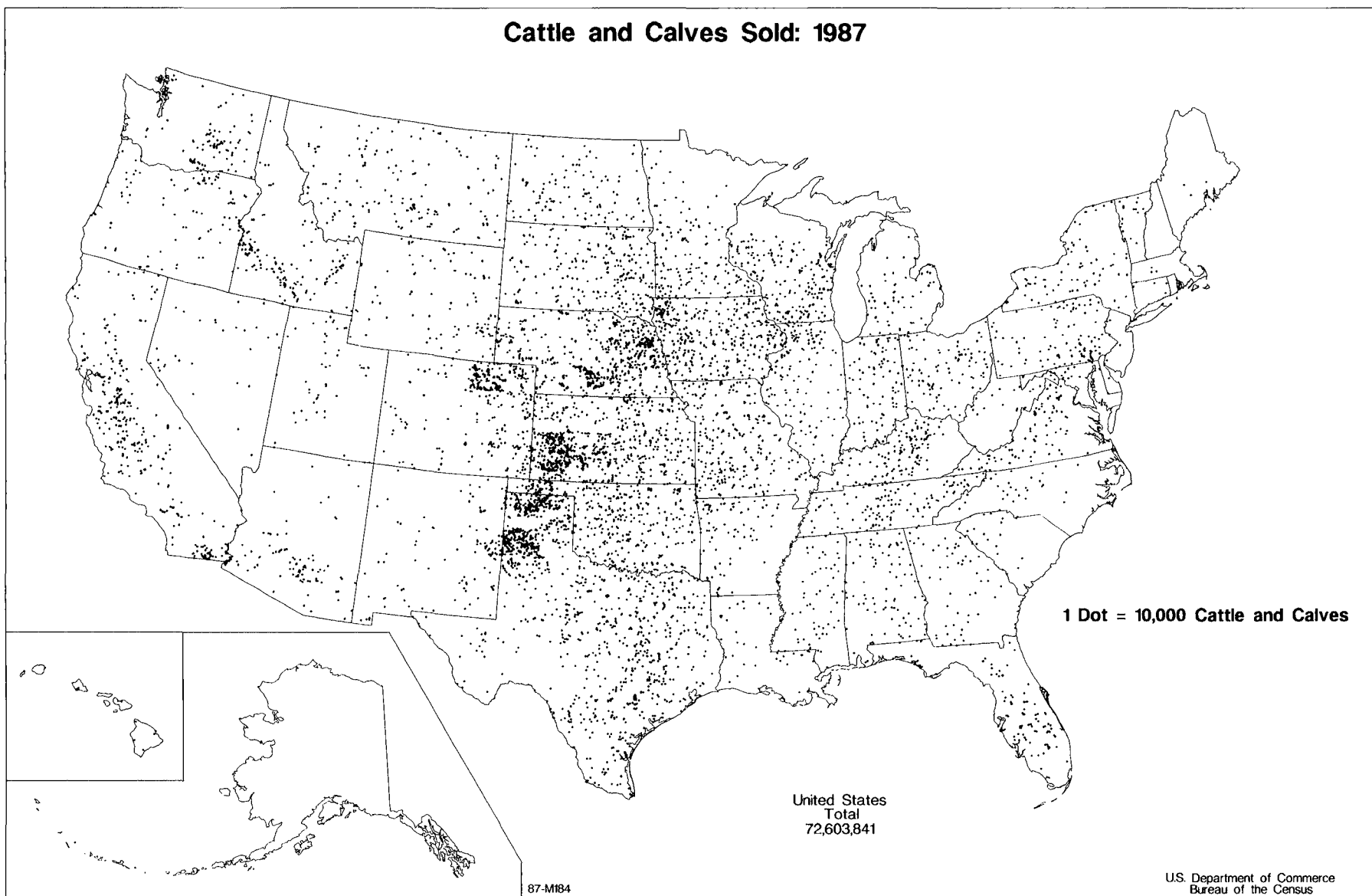


### Beef Cows - Change in Inventory: 1982 to 1987



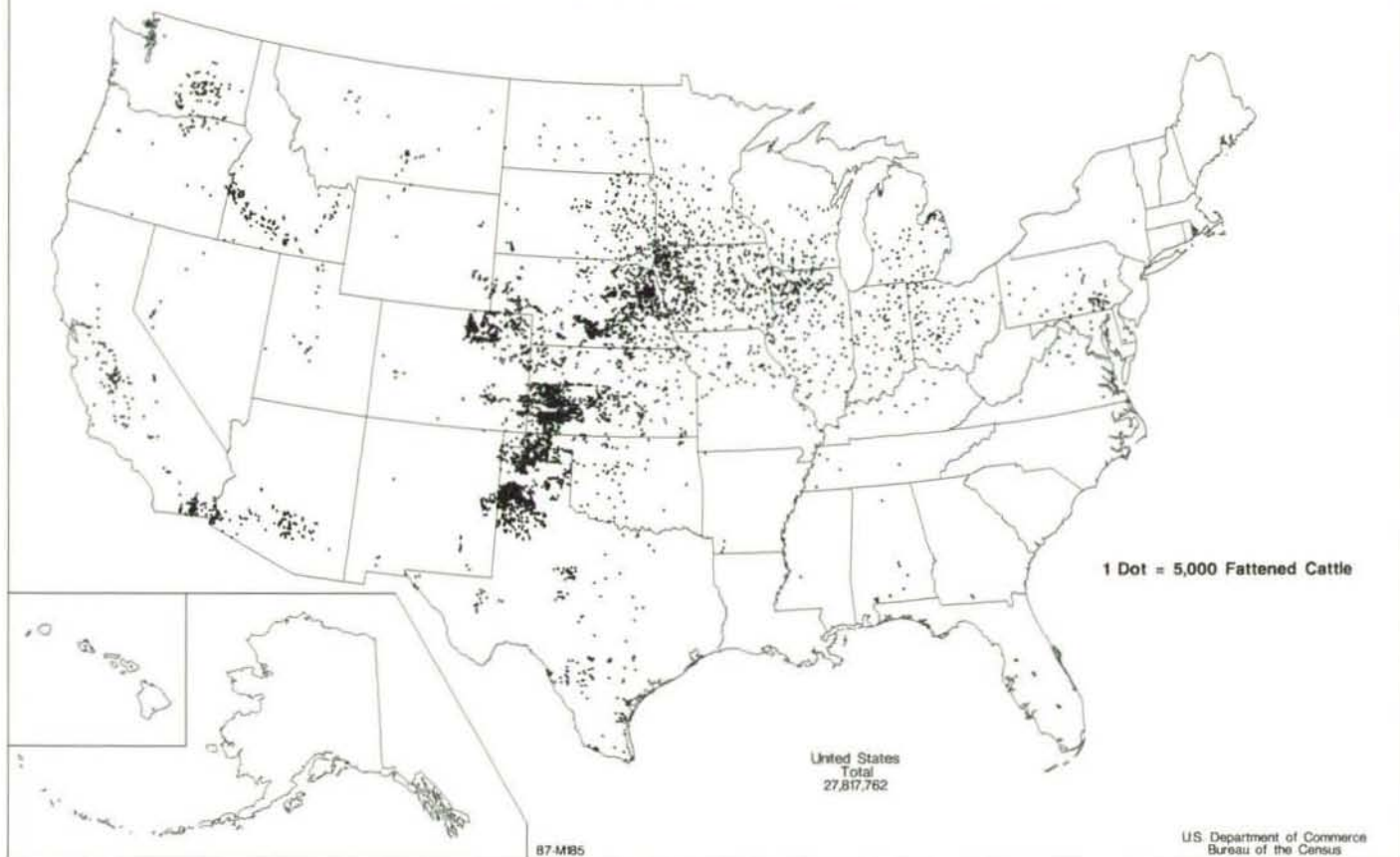
**Heifers, Heifer Calves, Steers, Steer Calves, Bulls, and Bull Calves  
as Percent of Cattle and Calves: 1987**



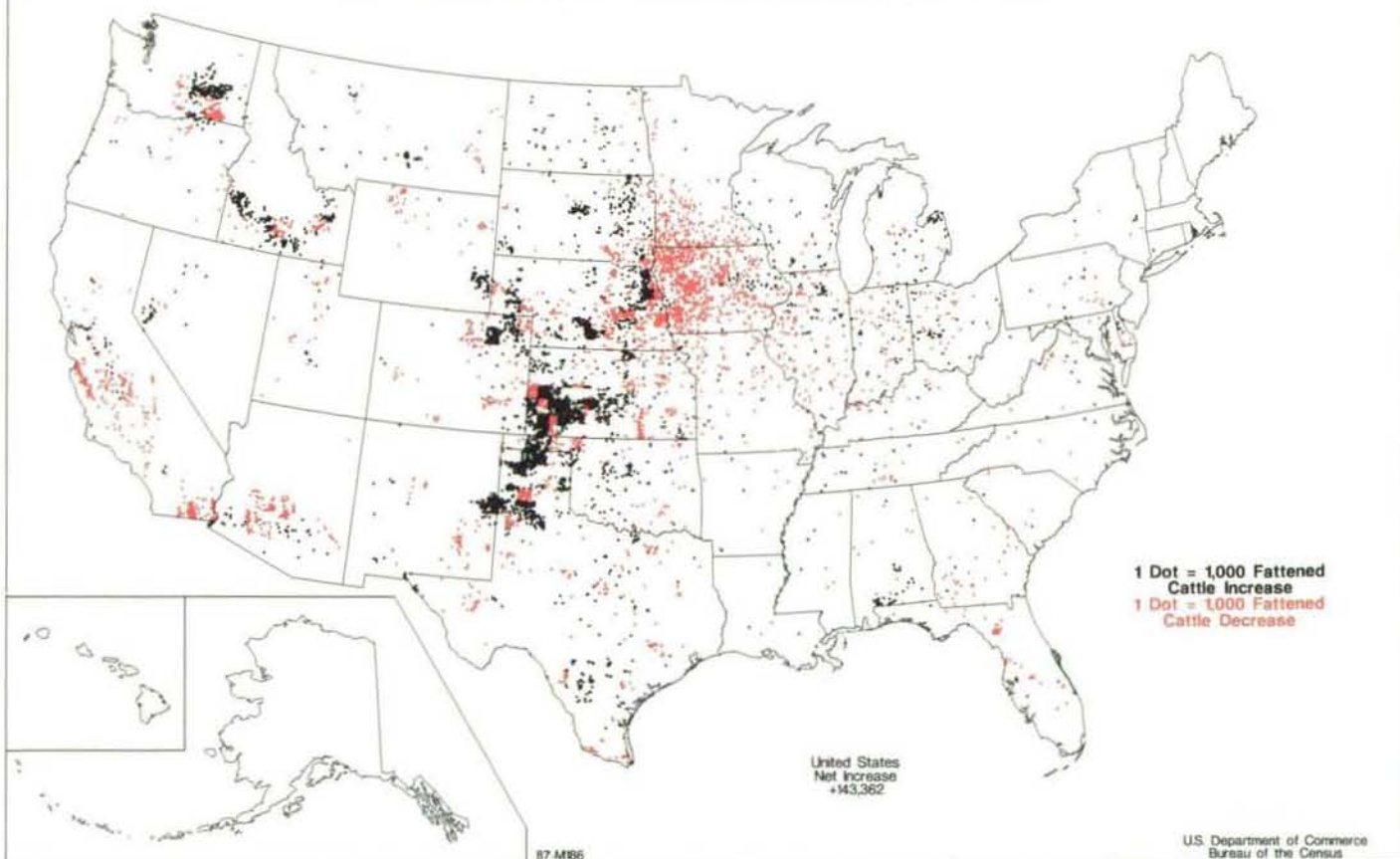




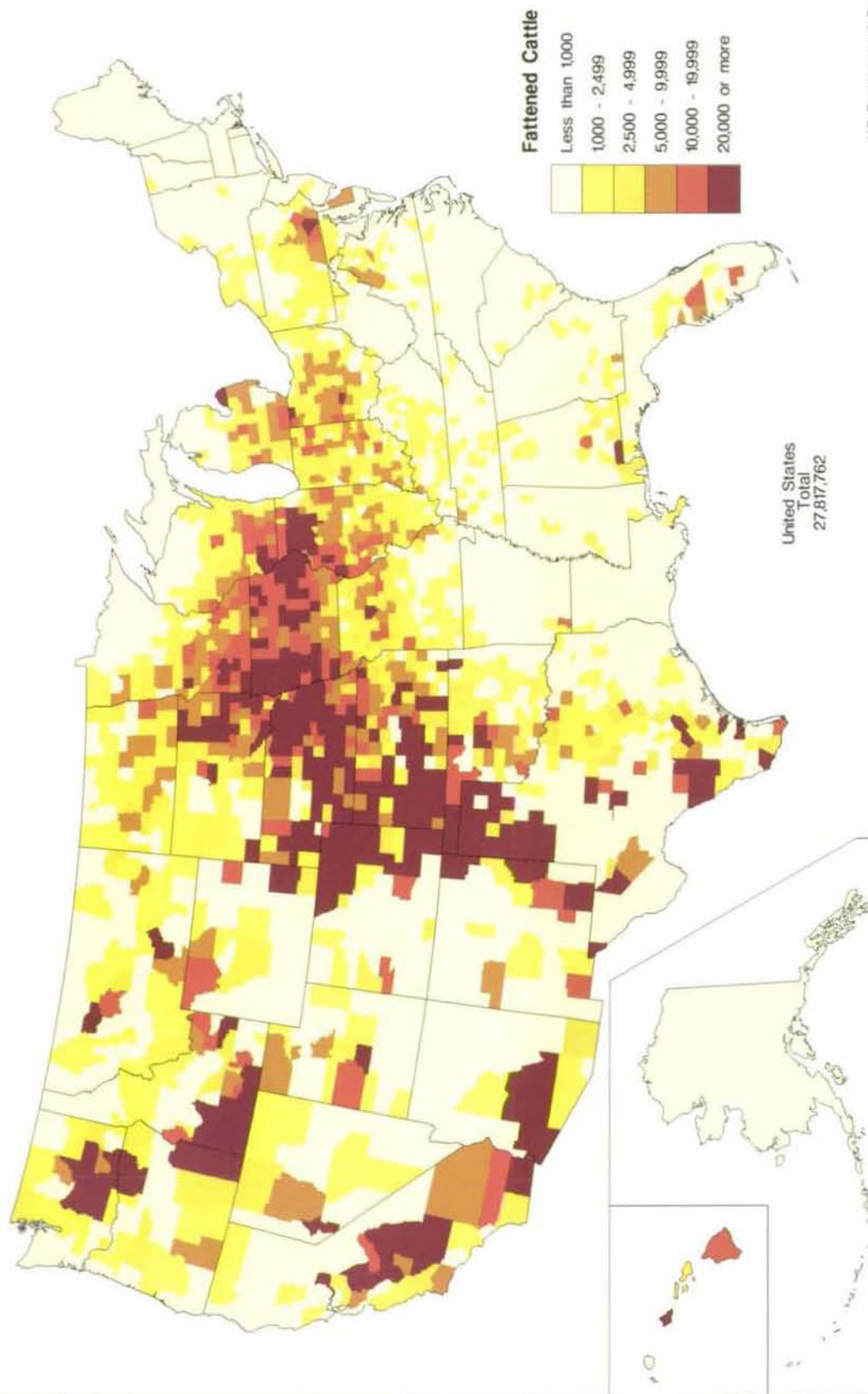
### Cattle Fattened on Grain and Concentrates and Sold: 1987



### Fattened Cattle Sold - Change in Number: 1982 to 1987

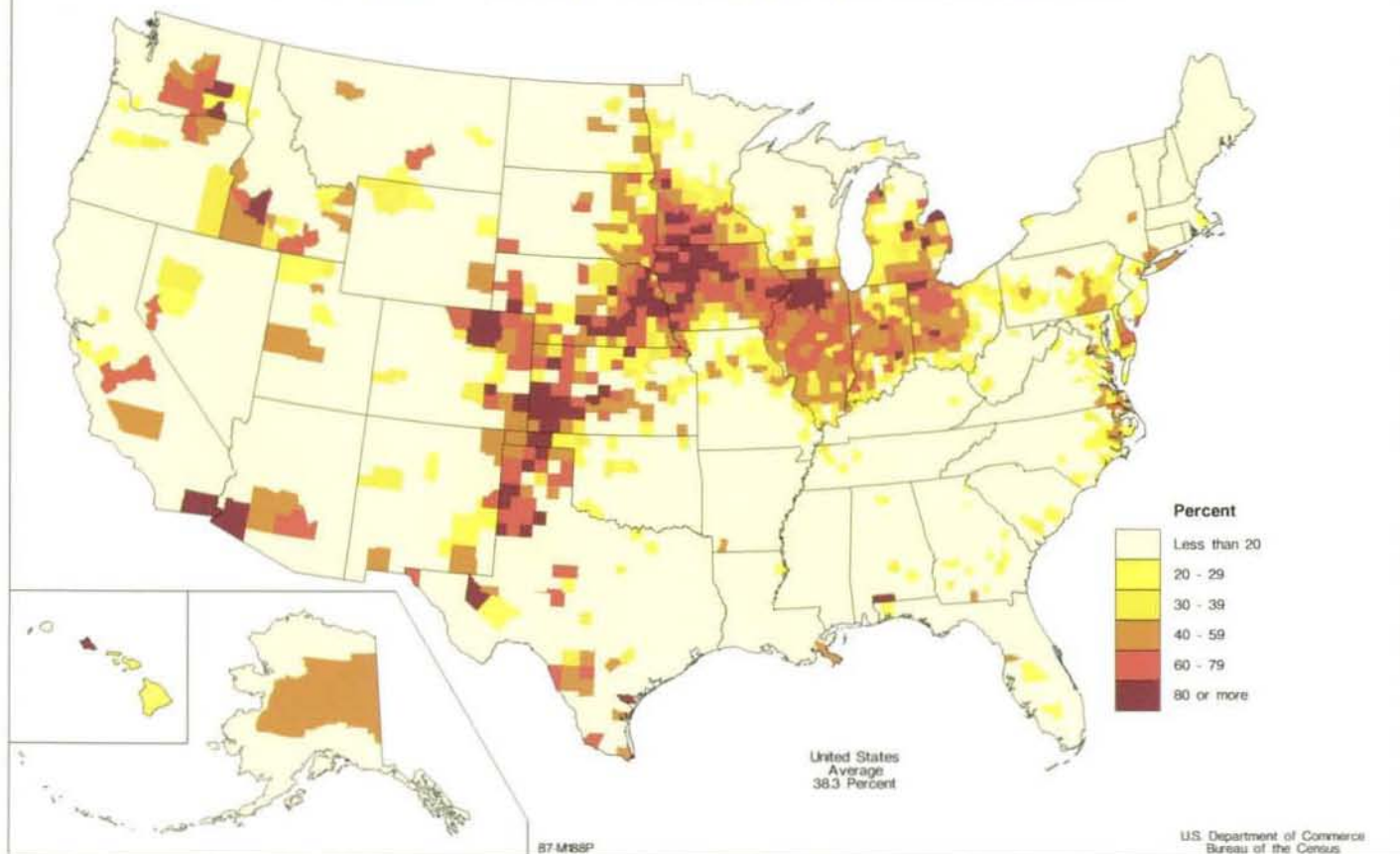


# Fattened Cattle Sold by County: 1987

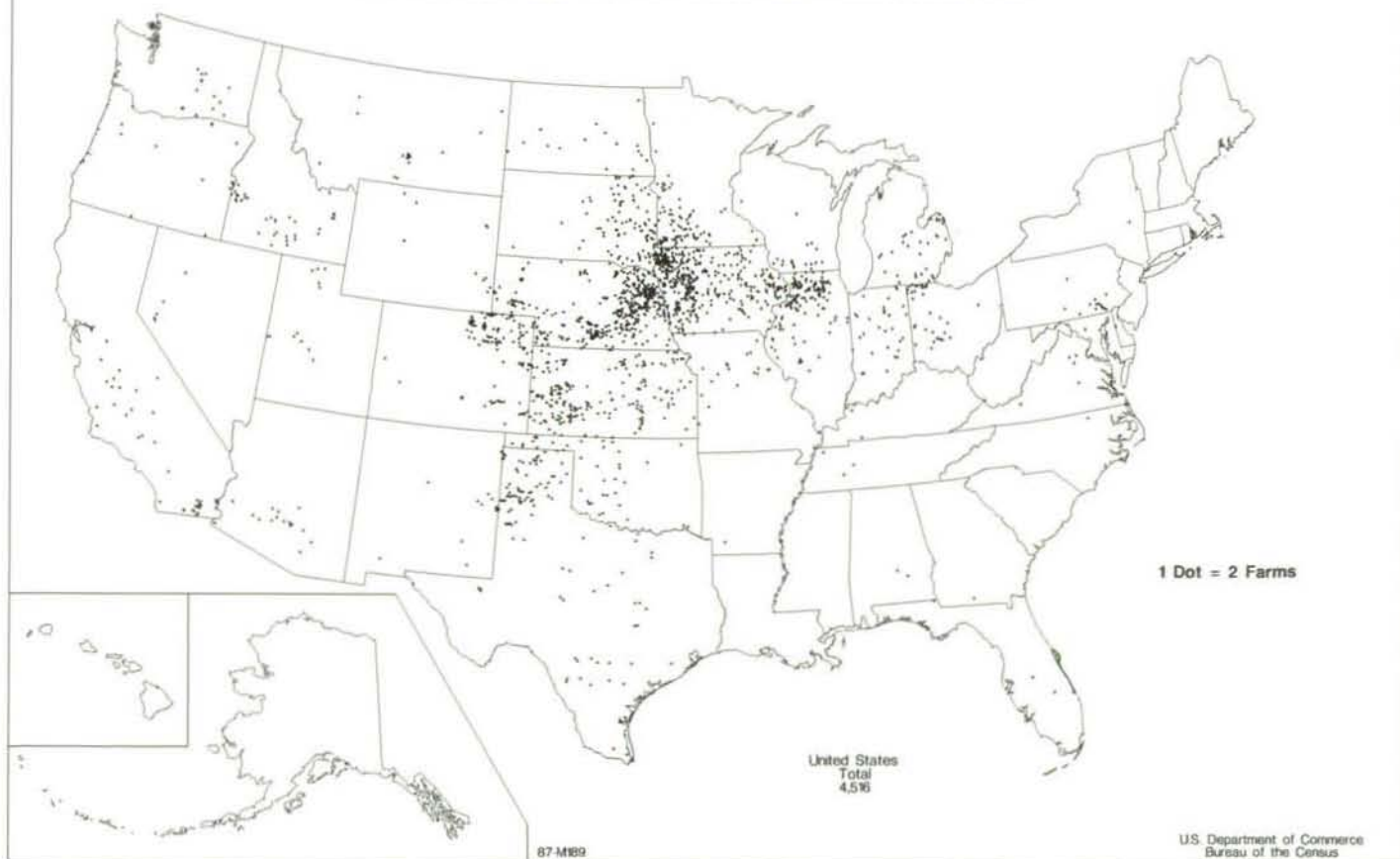




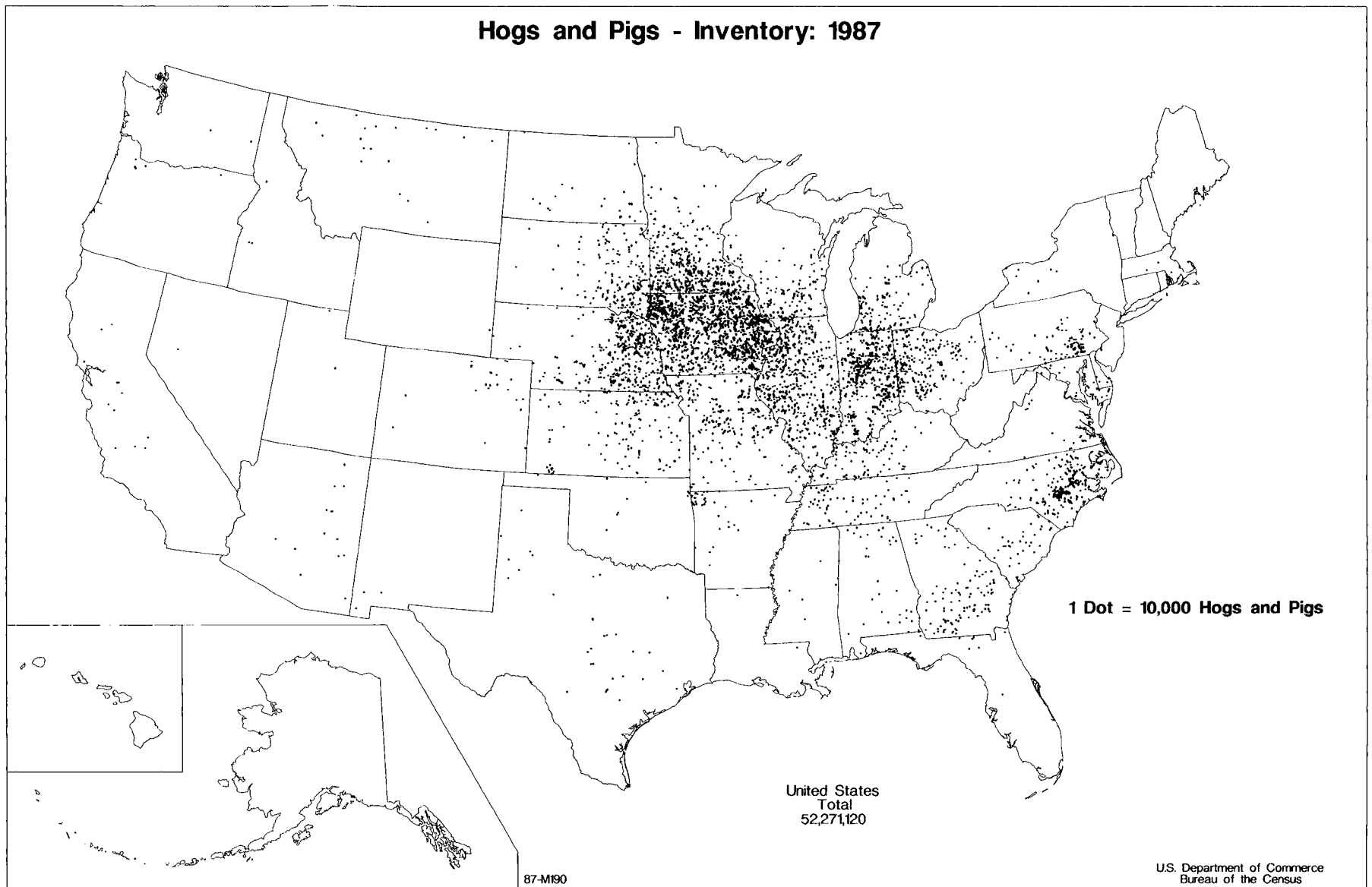
**Fattened Cattle Sold as Percent of Cattle and Calves Sold: 1987**



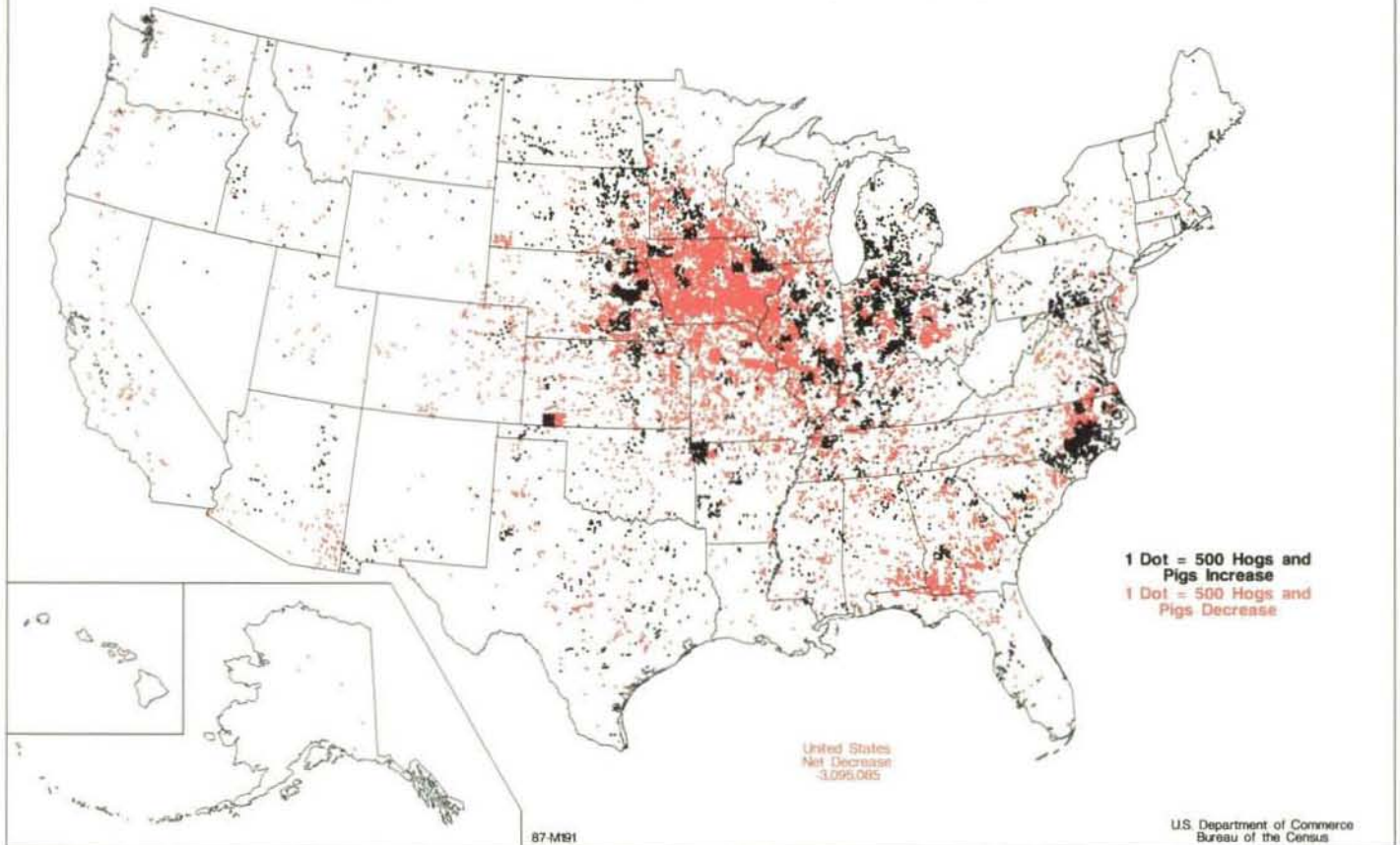
**Farms With 500 or More Fattened Cattle Sold: 1987**



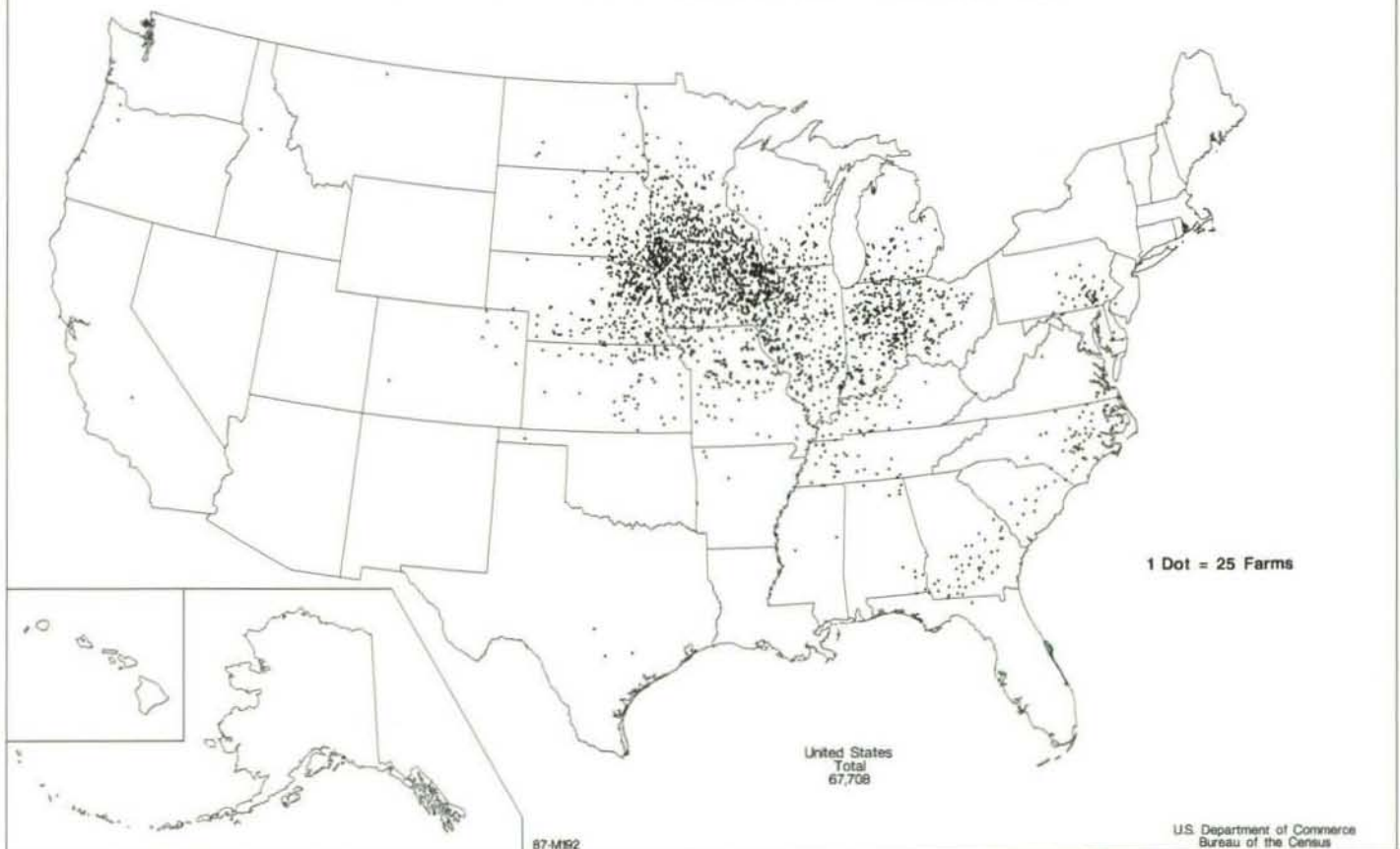


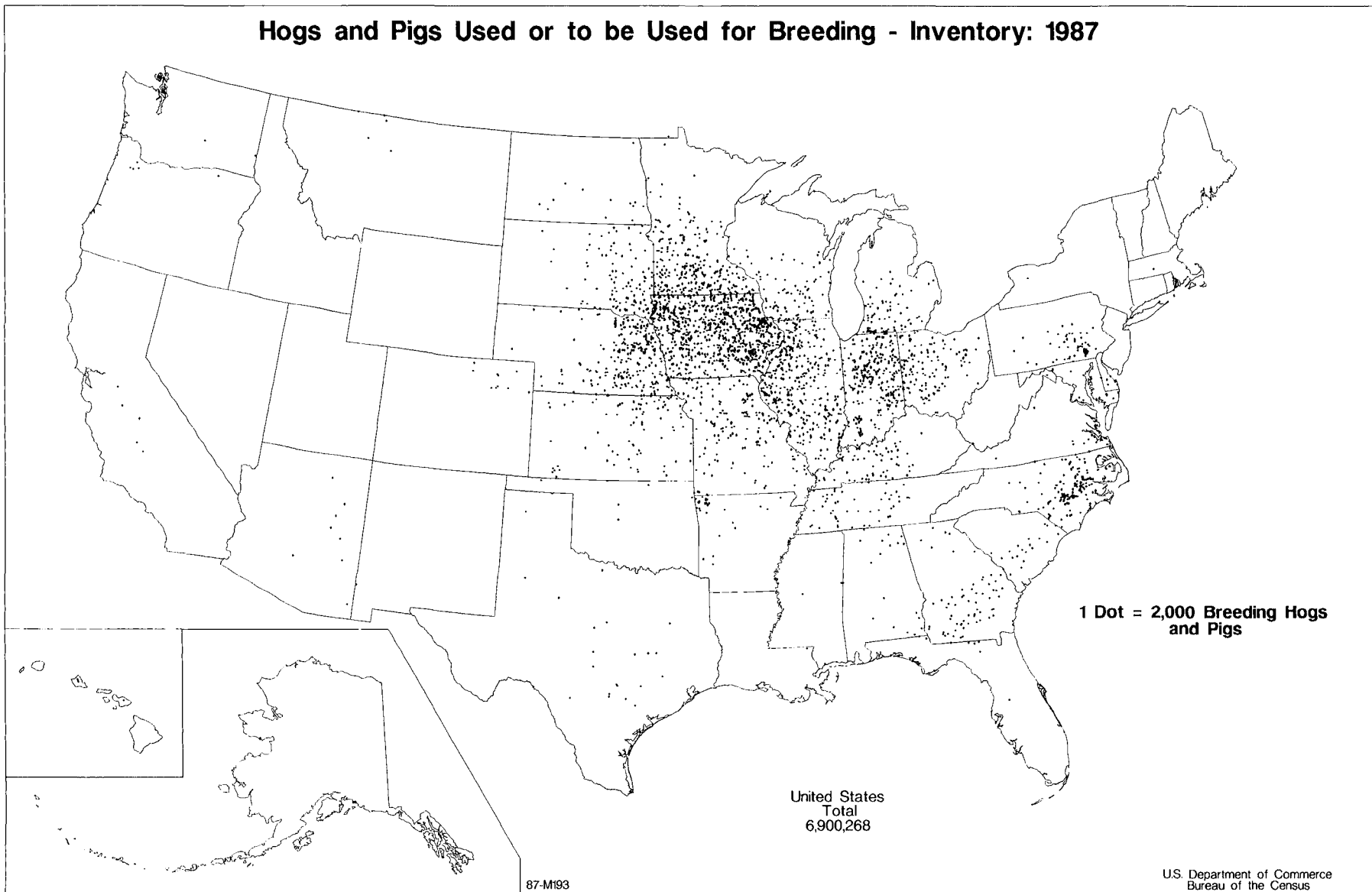


### Hogs and Pigs - Change in Inventory: 1982 to 1987



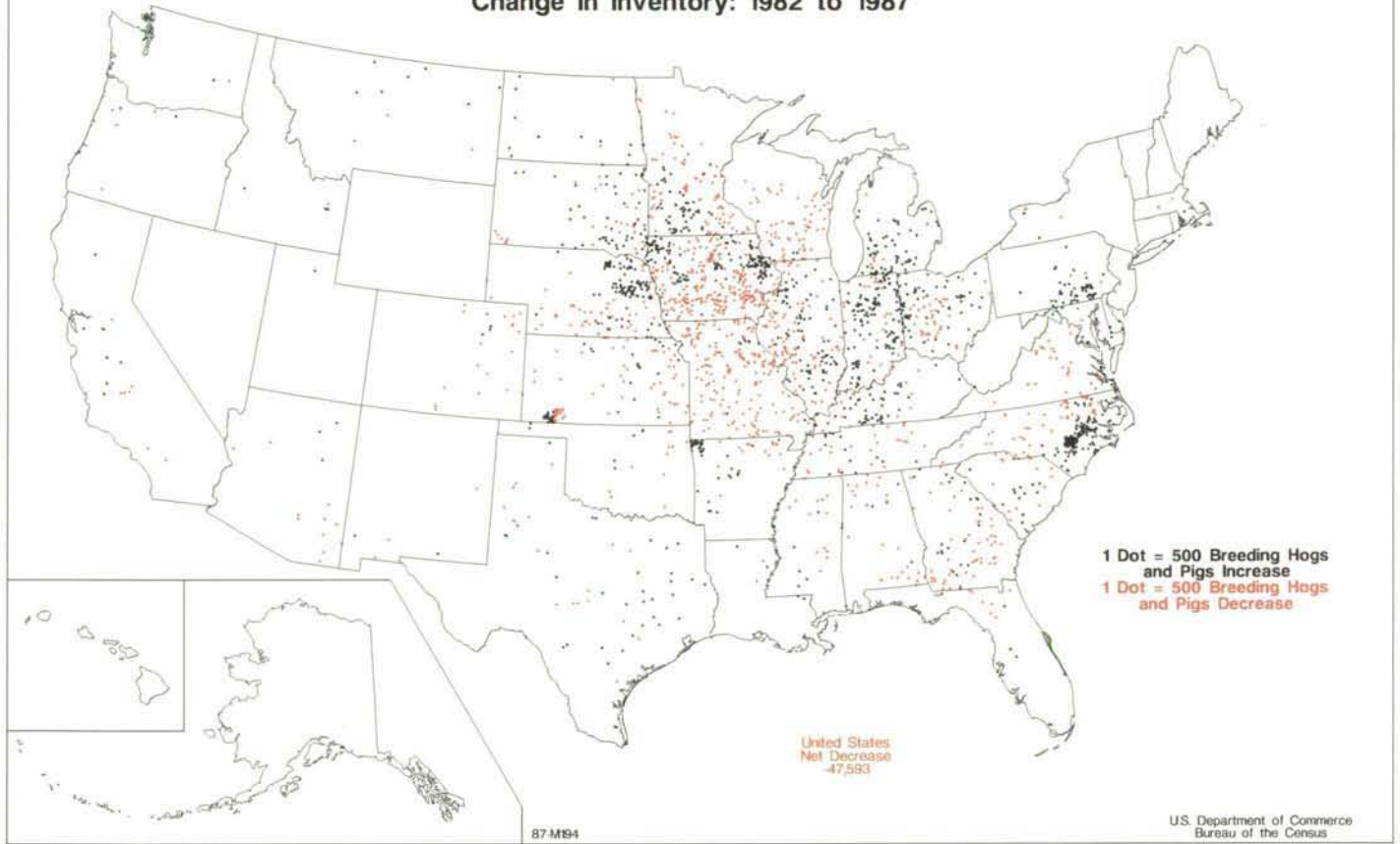
### Farms With 200 or More Hogs and Pigs - Inventory: 1987



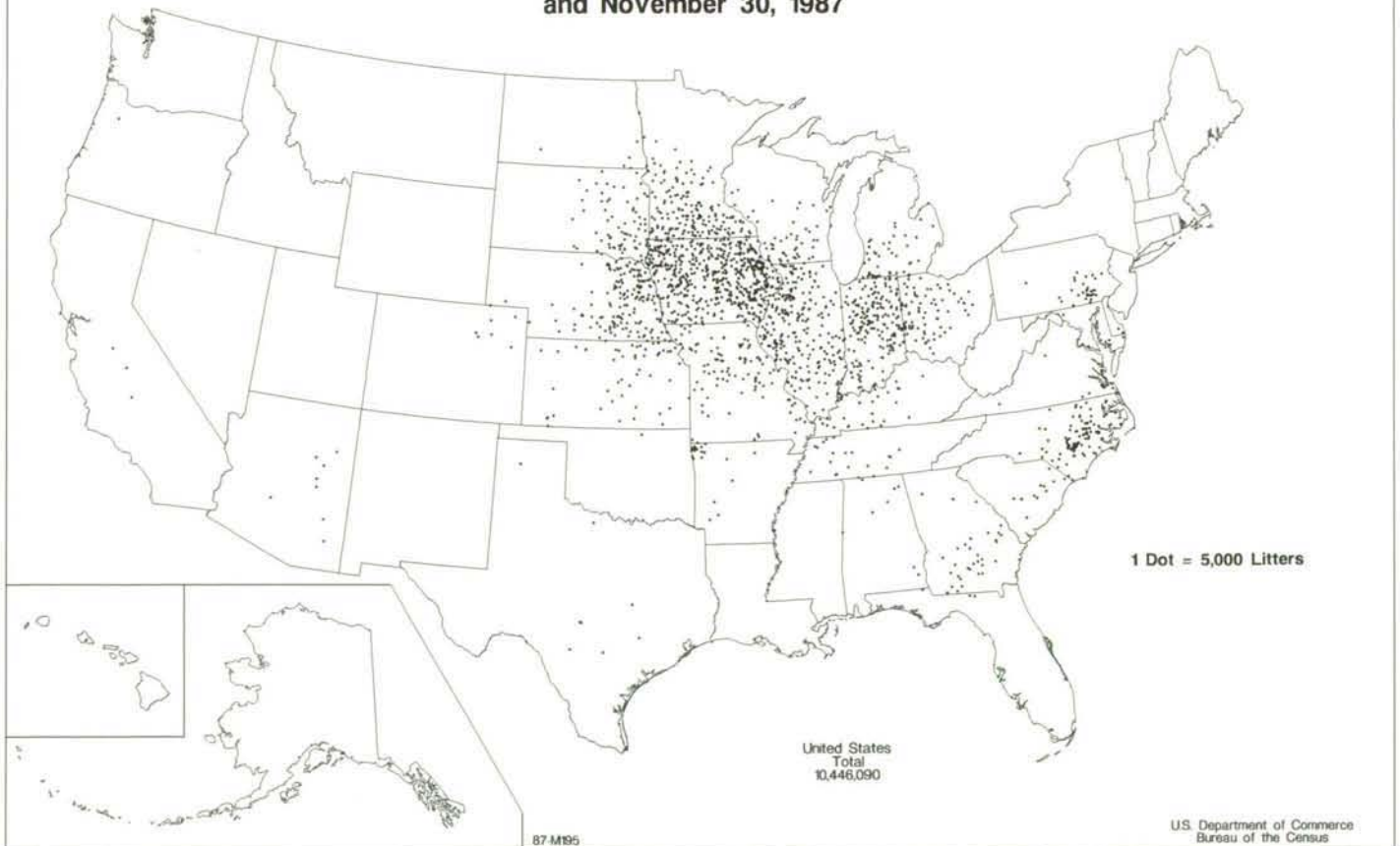


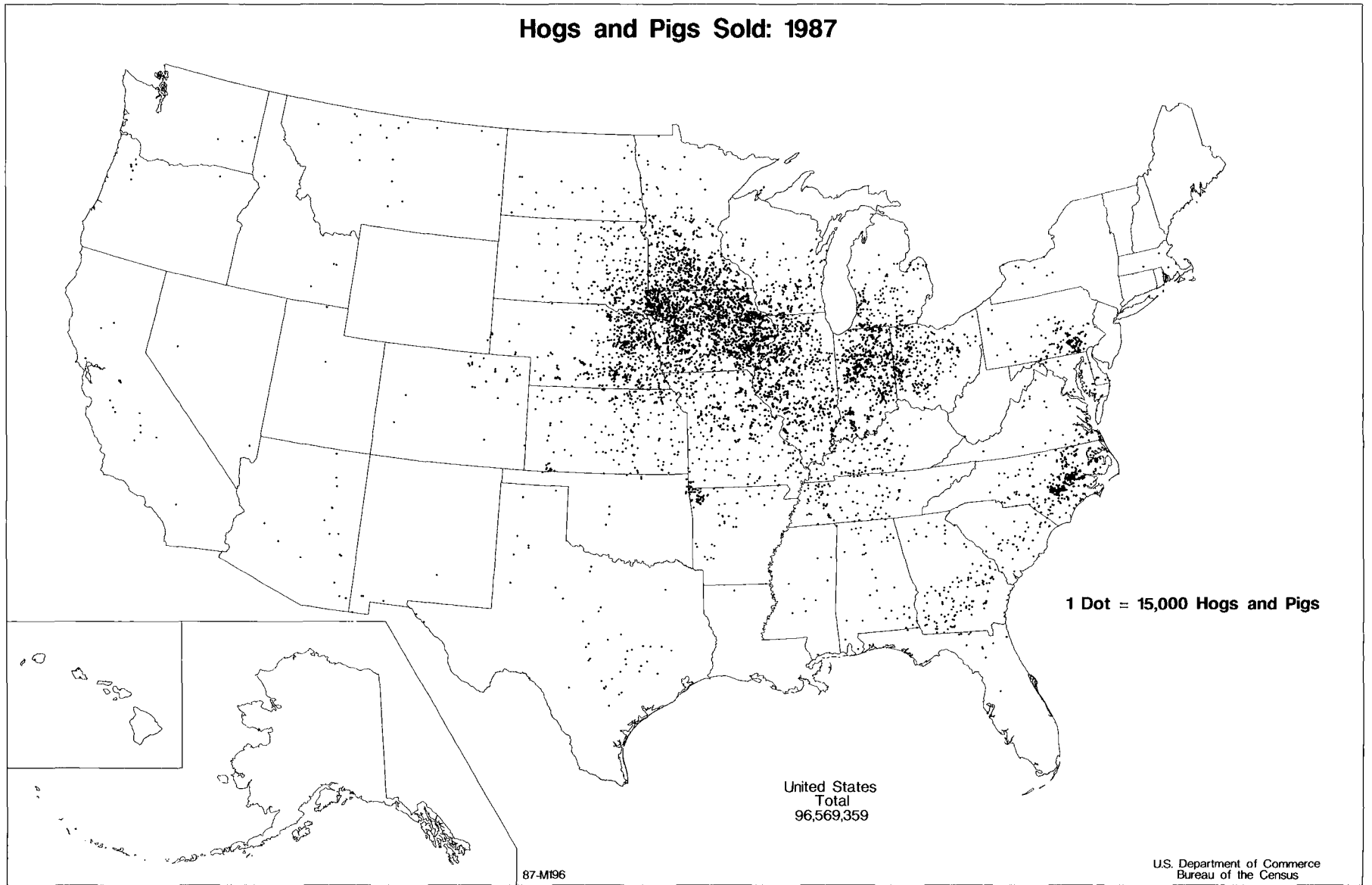


**Hogs and Pigs Used or to be Used for Breeding -  
Change in Inventory: 1982 to 1987**

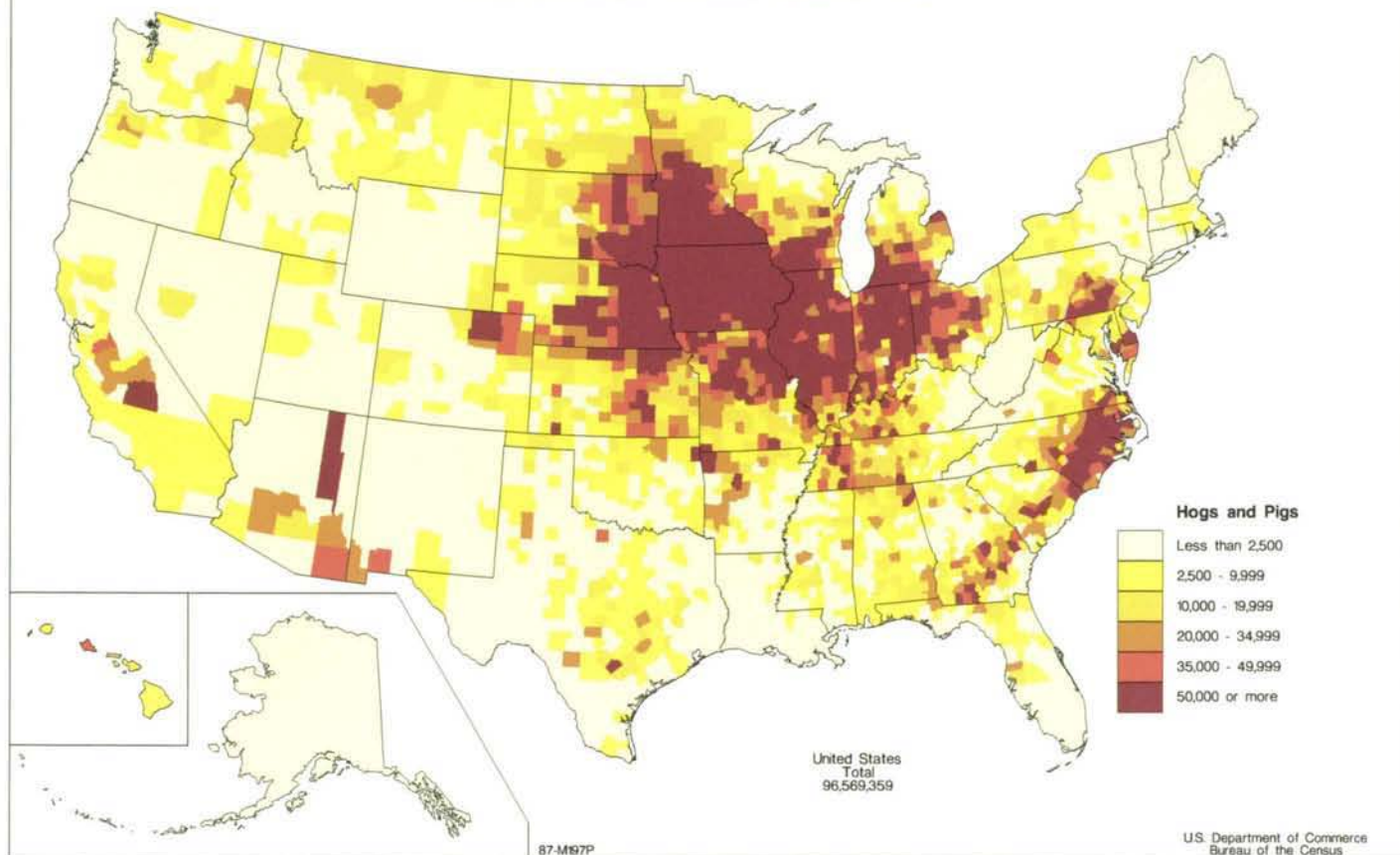


**Litters of Pigs Farrowed Between December 1, 1986,  
and November 30, 1987**

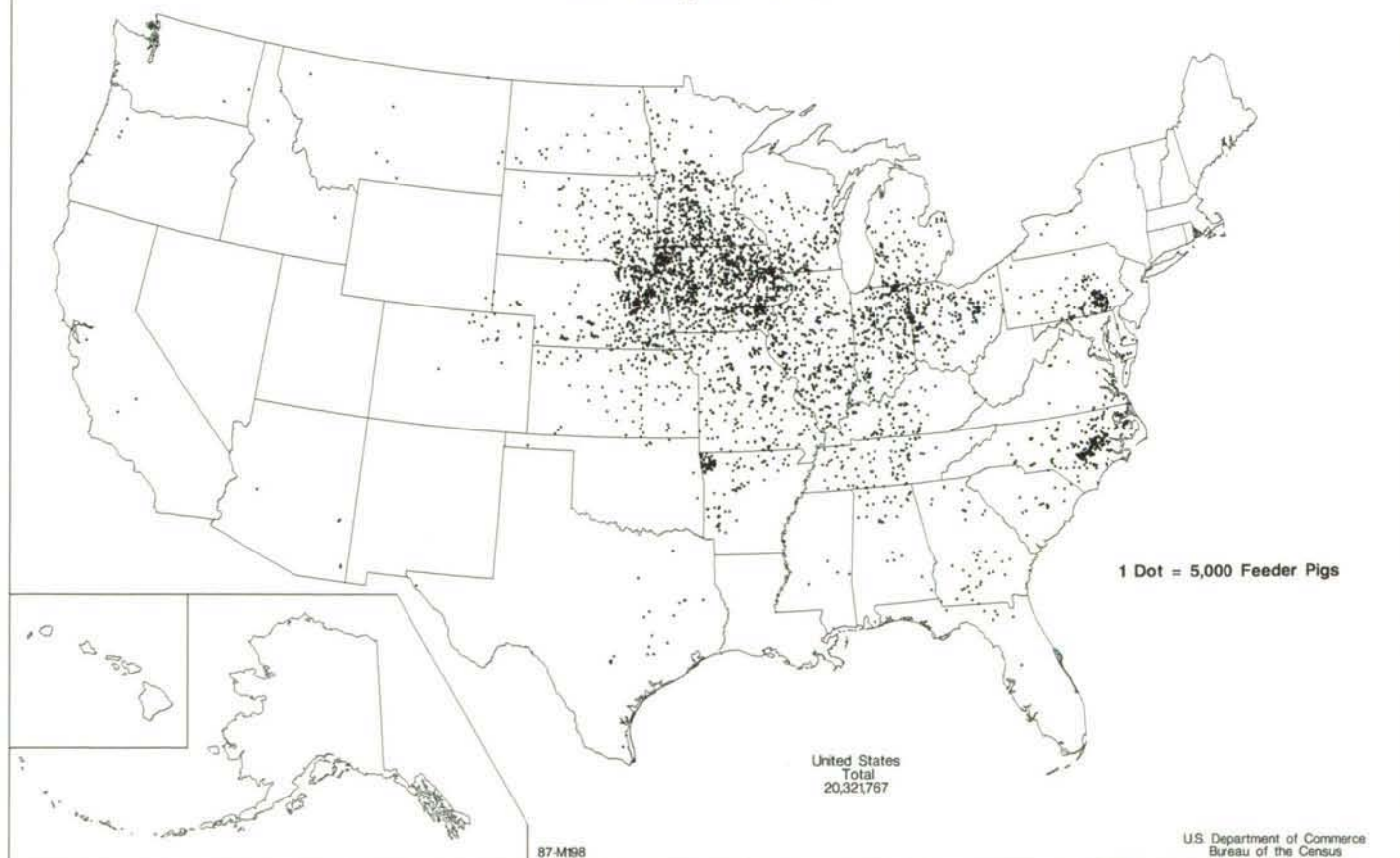




### Hogs and Pigs Sold by County: 1987

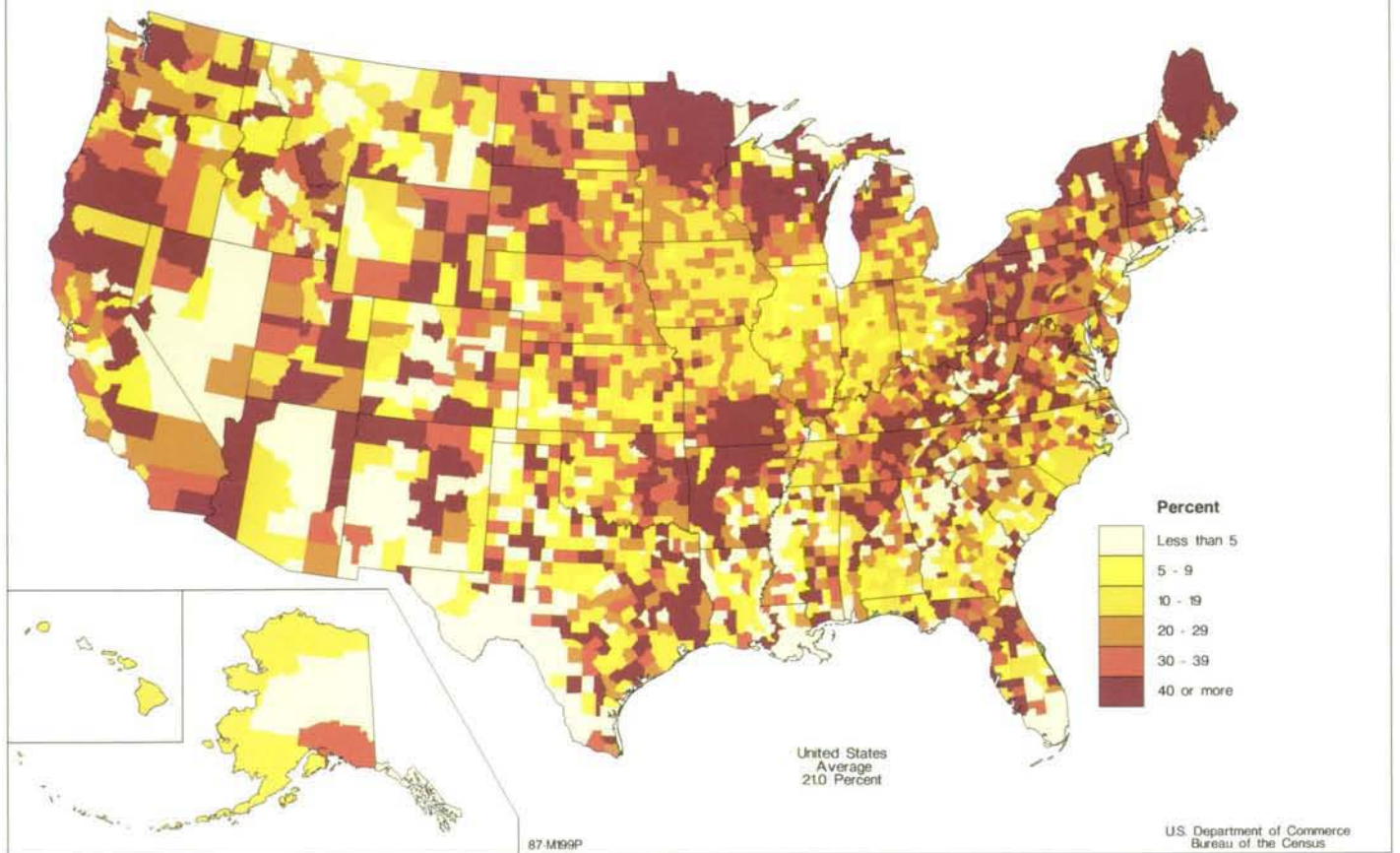


### Feeder Pigs Sold: 1987

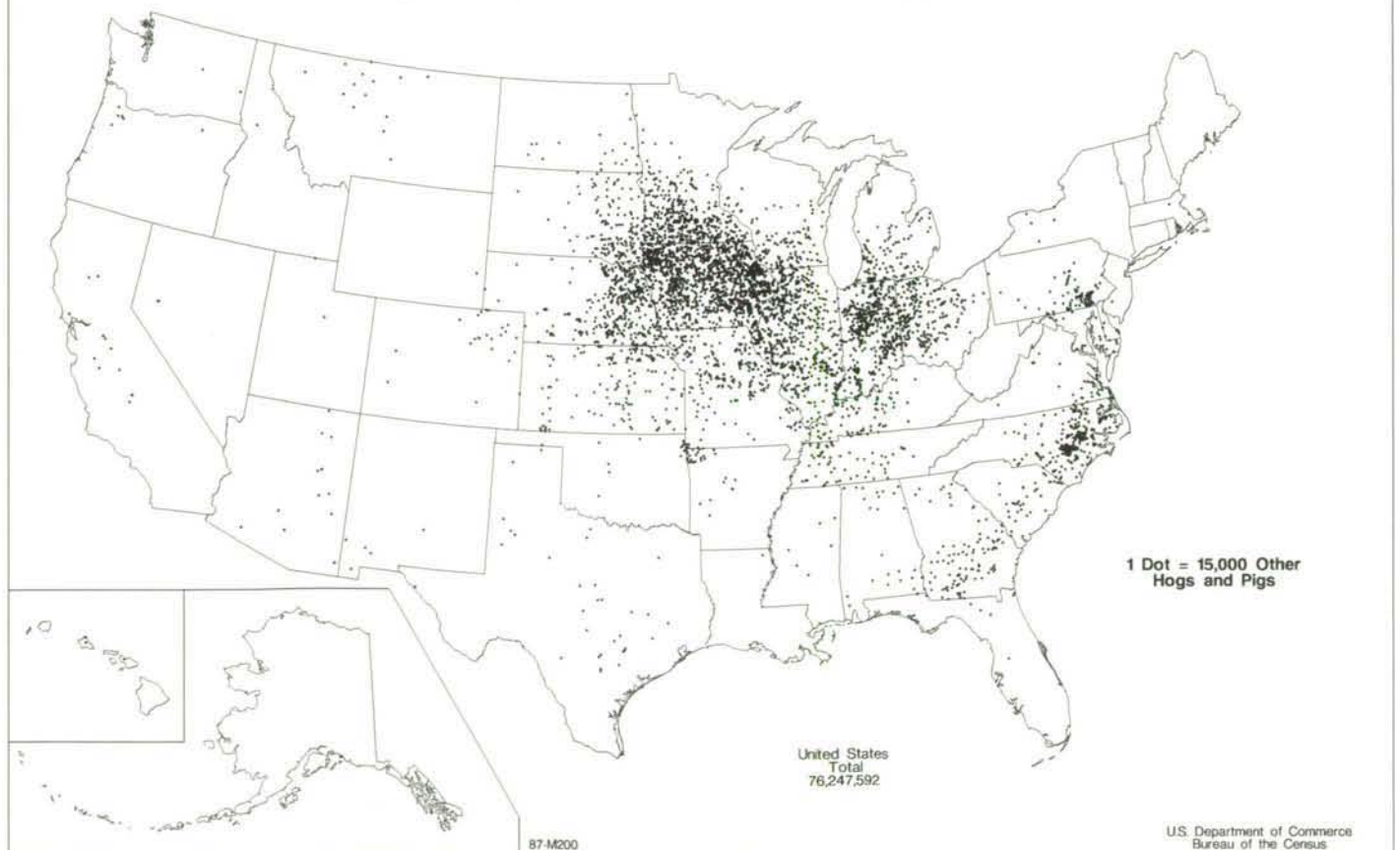




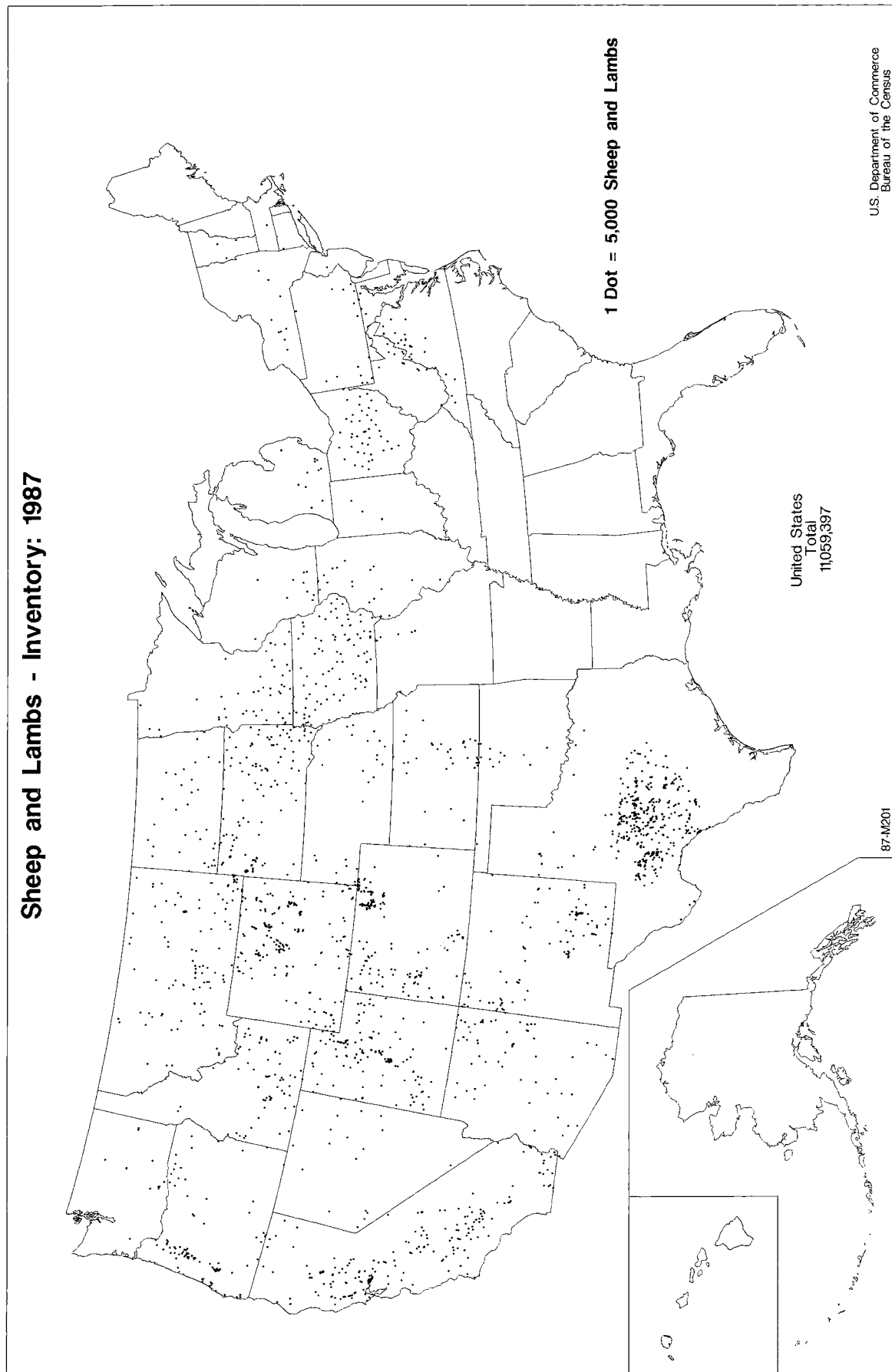
Feeder Pigs Sold as Percent of Hogs and Pigs Sold: 1987



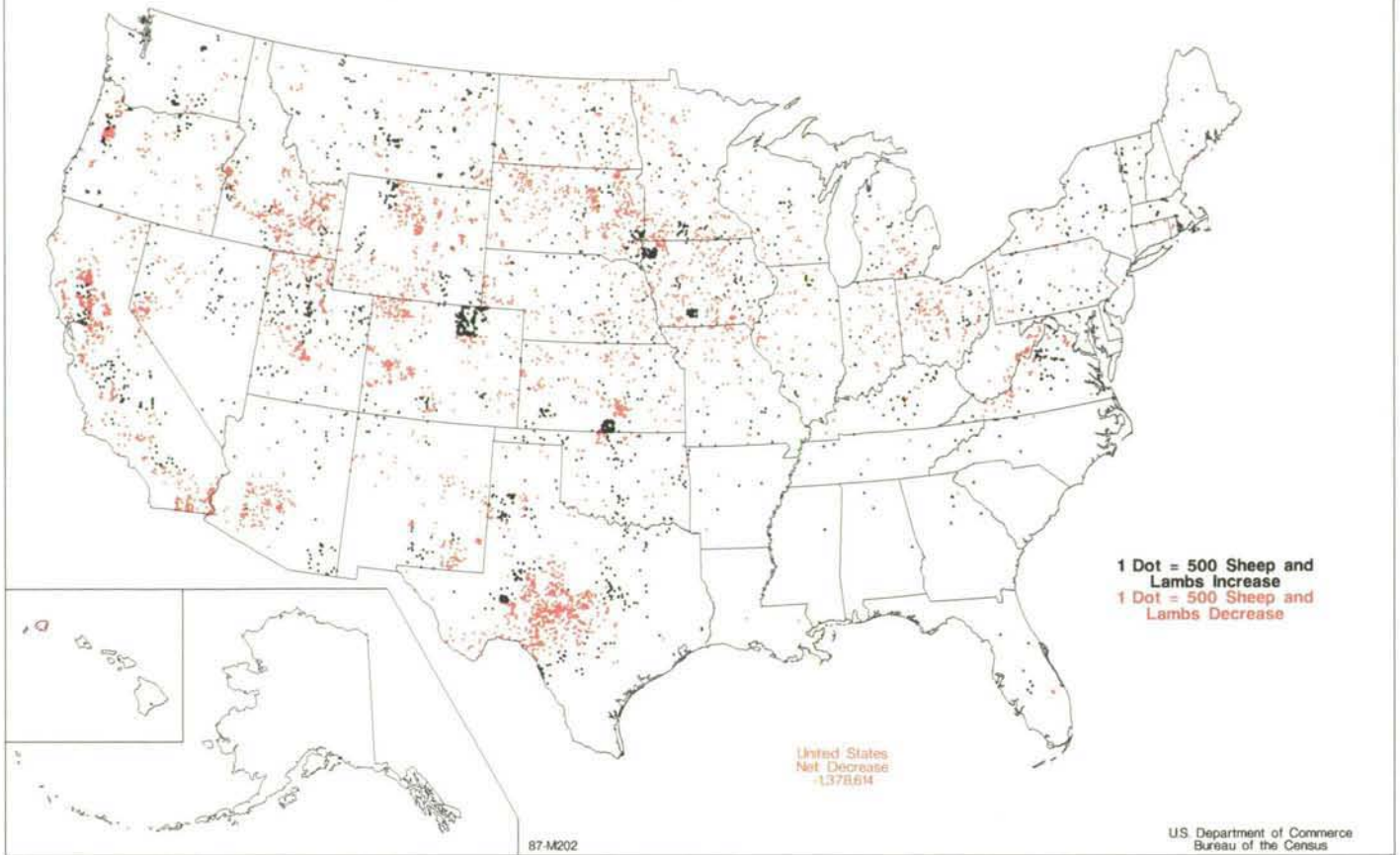
Hogs and Pigs Sold Other Than Feeder Pigs: 1987



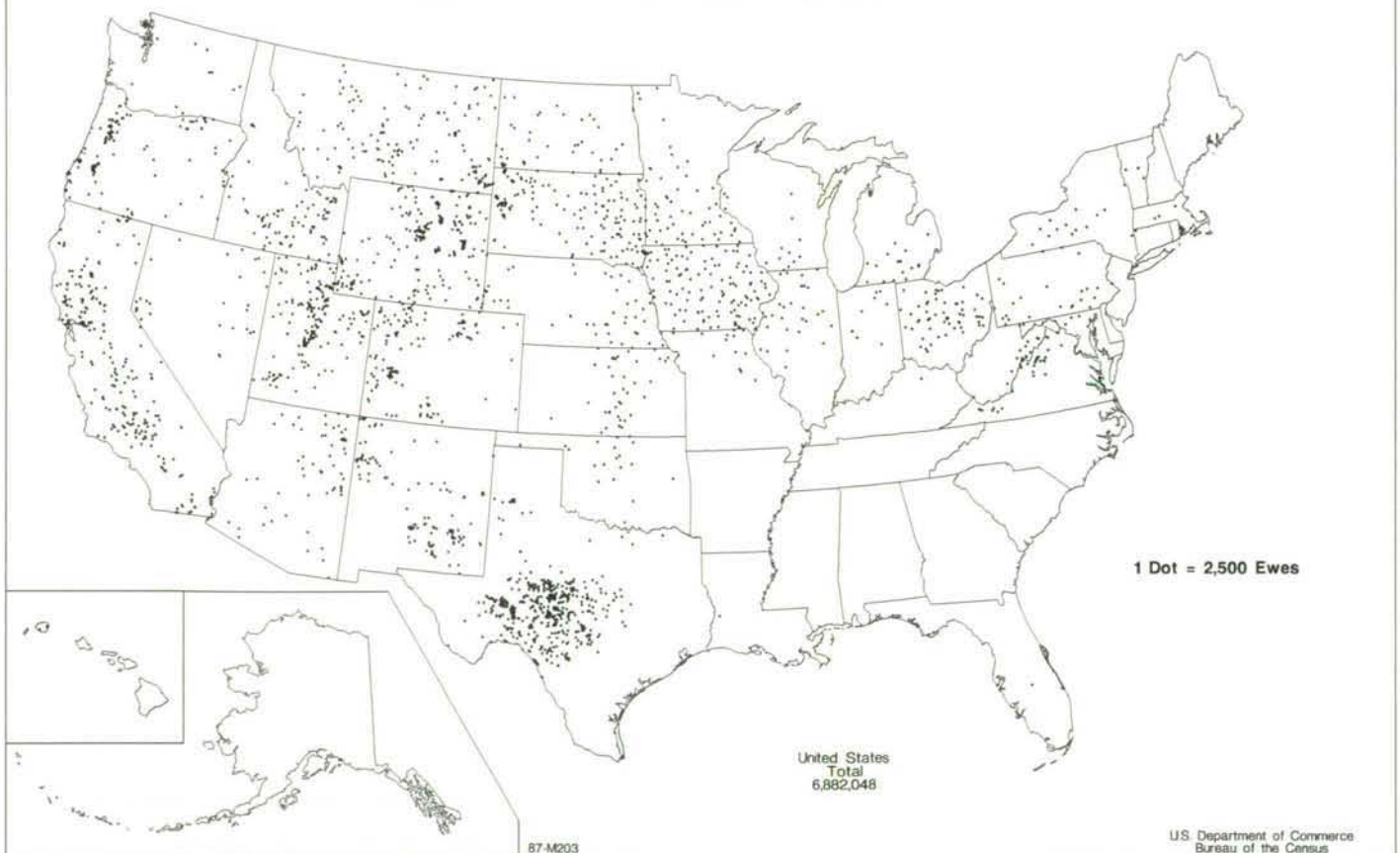
# Sheep and Lambs - Inventory: 1987



### Sheep and Lambs - Change in Inventory: 1982 to 1987

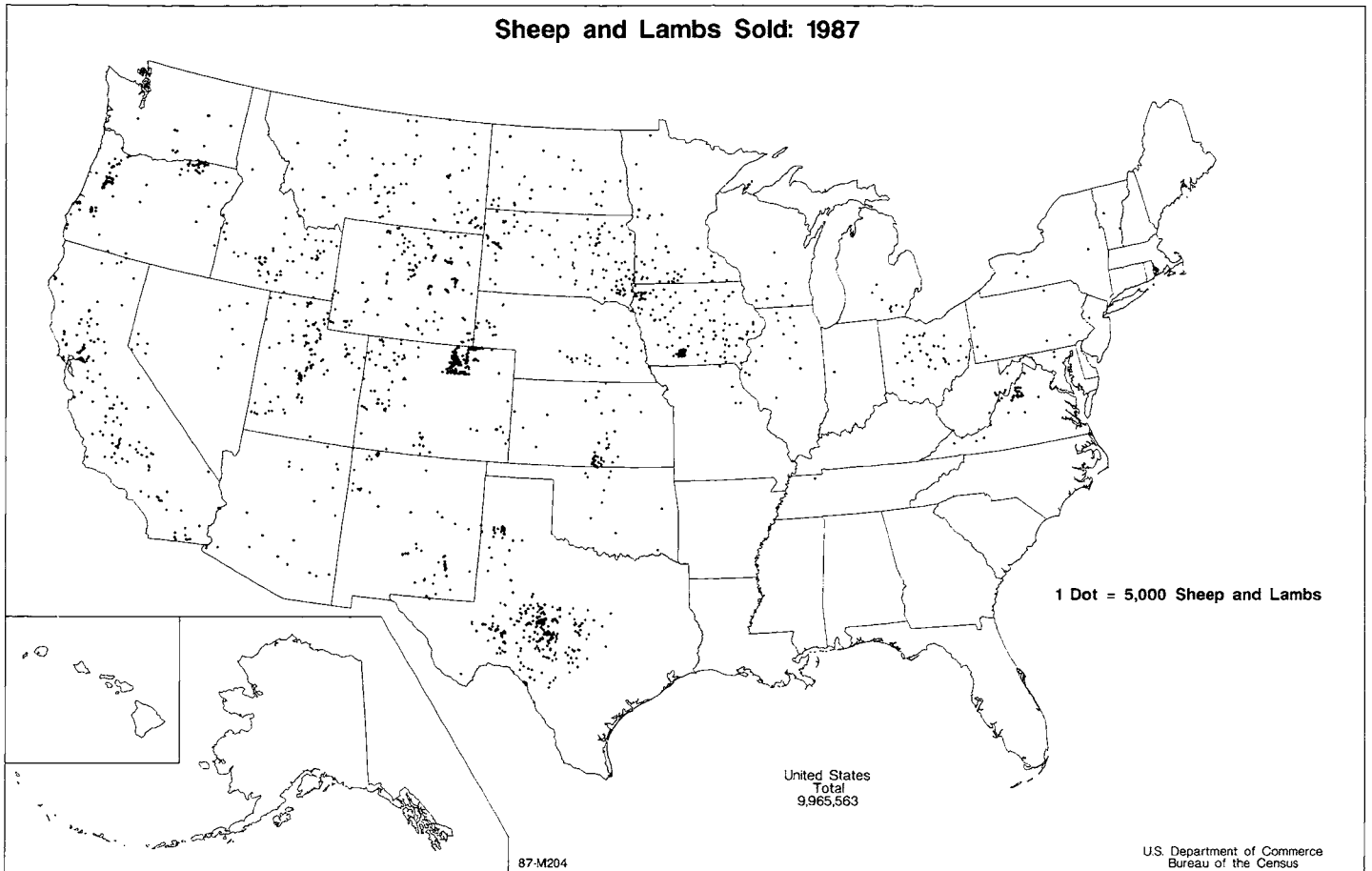


### Ewes 1 Year Old or Older - Inventory: 1987

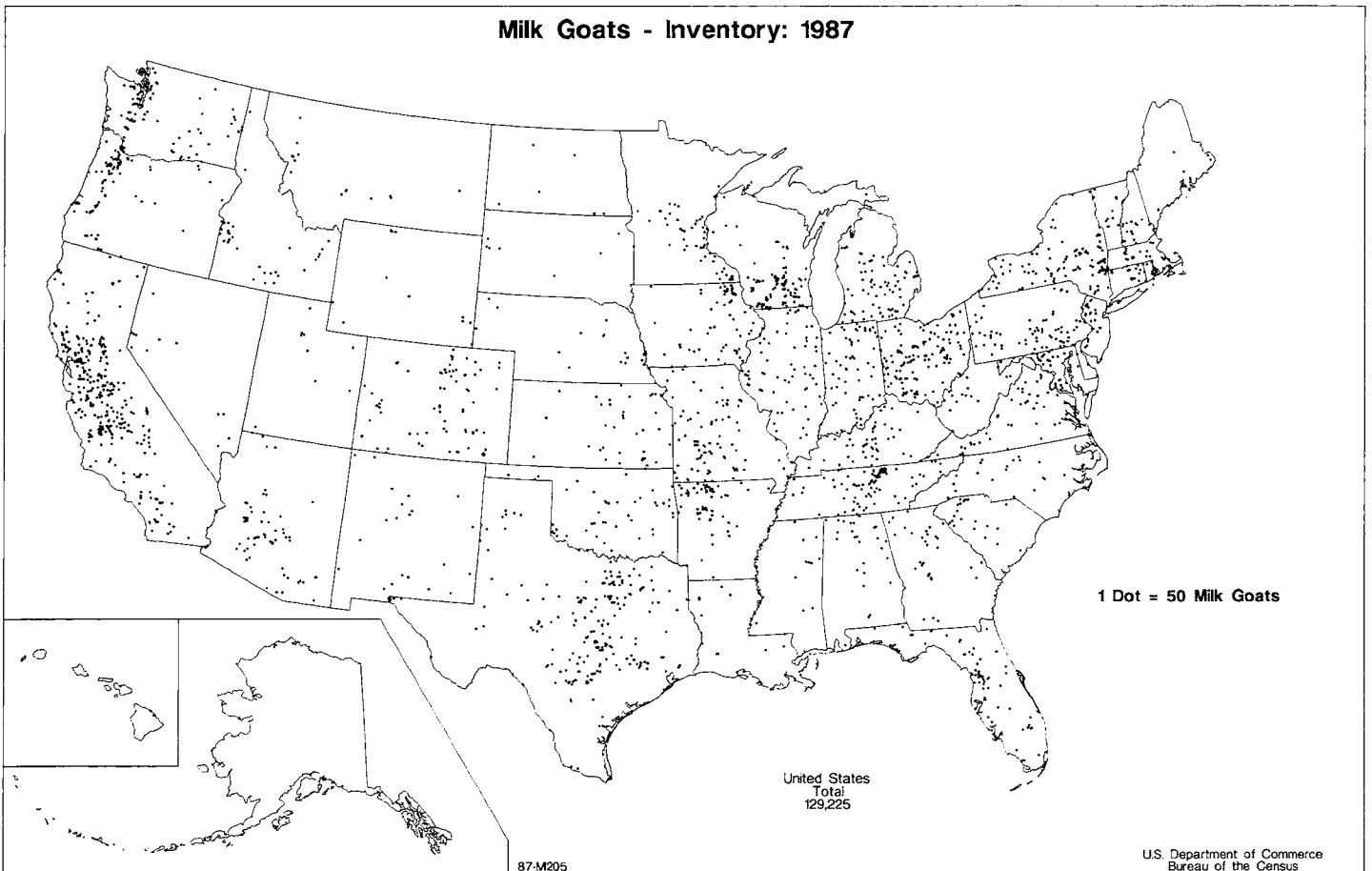




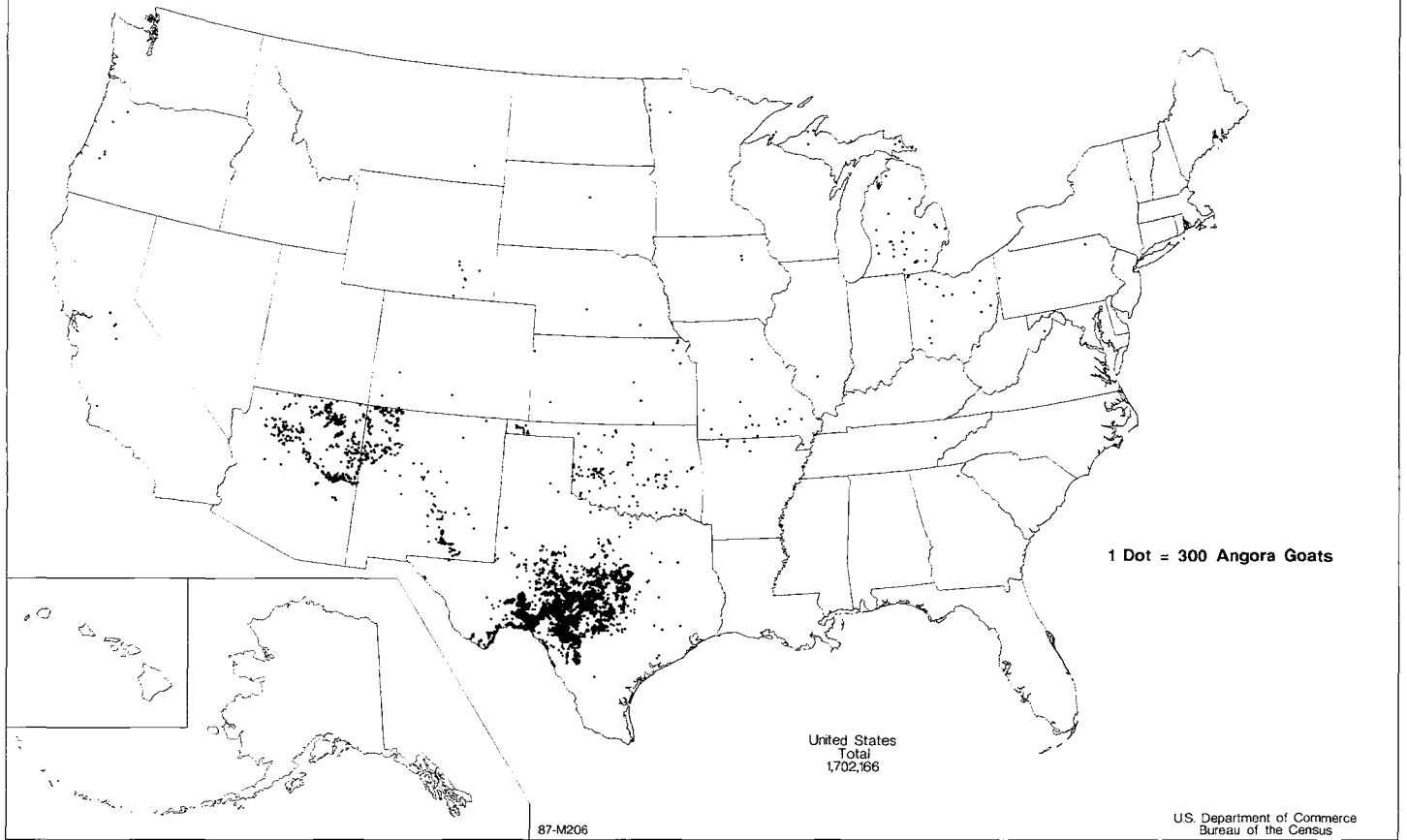
### Sheep and Lambs Sold: 1987



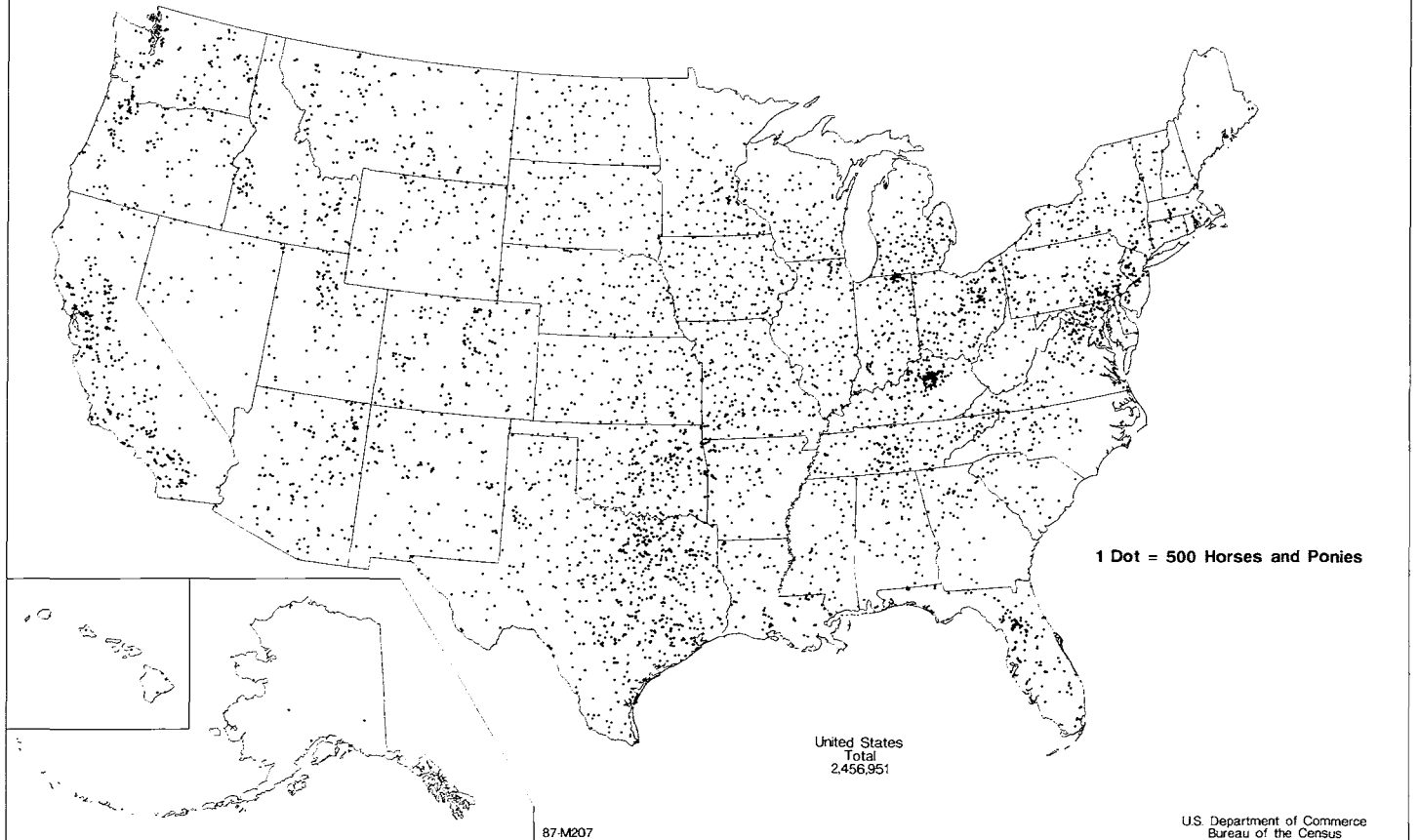
### Milk Goats - Inventory: 1987

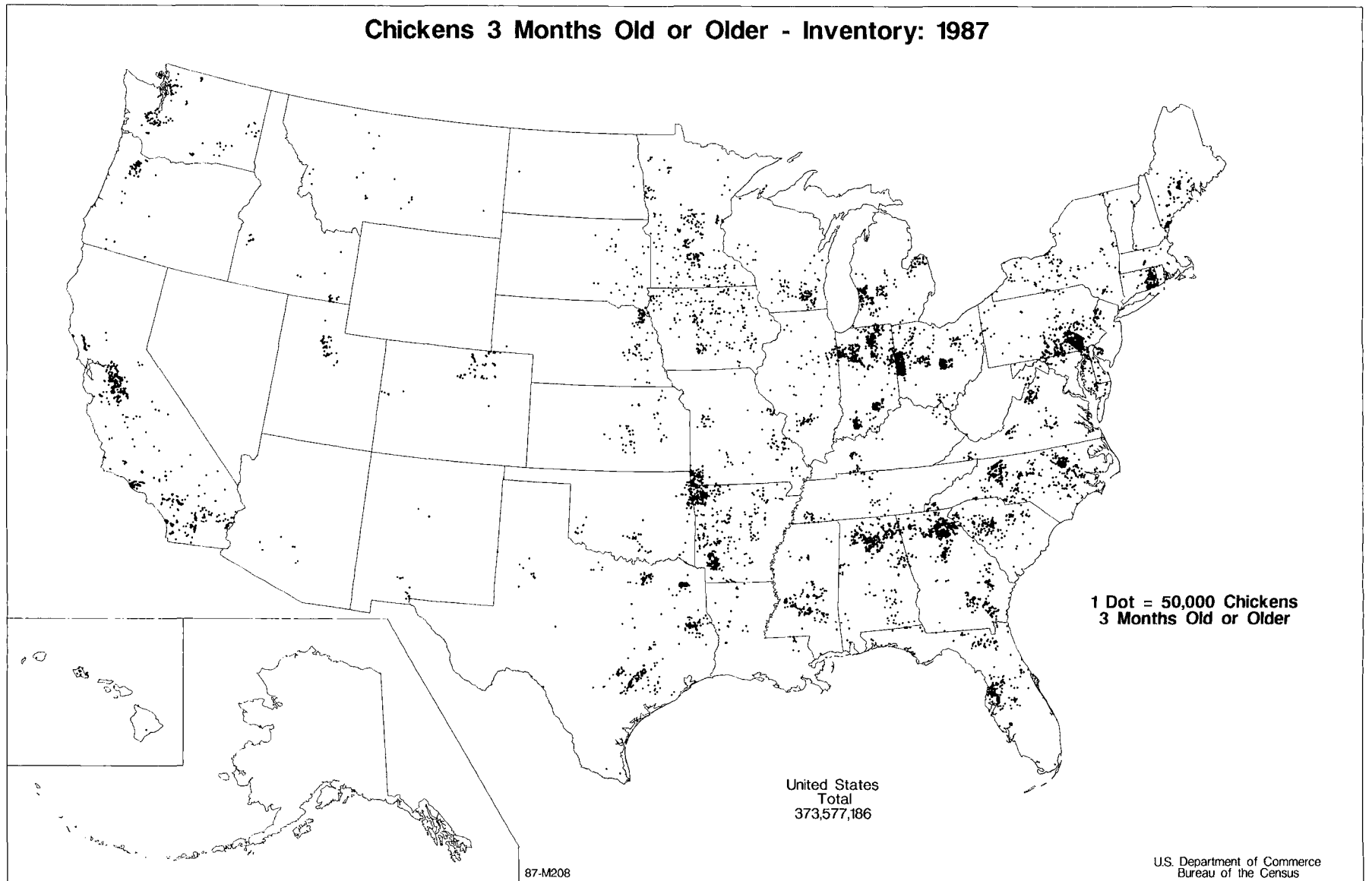


### Angora Goats - Inventory: 1987

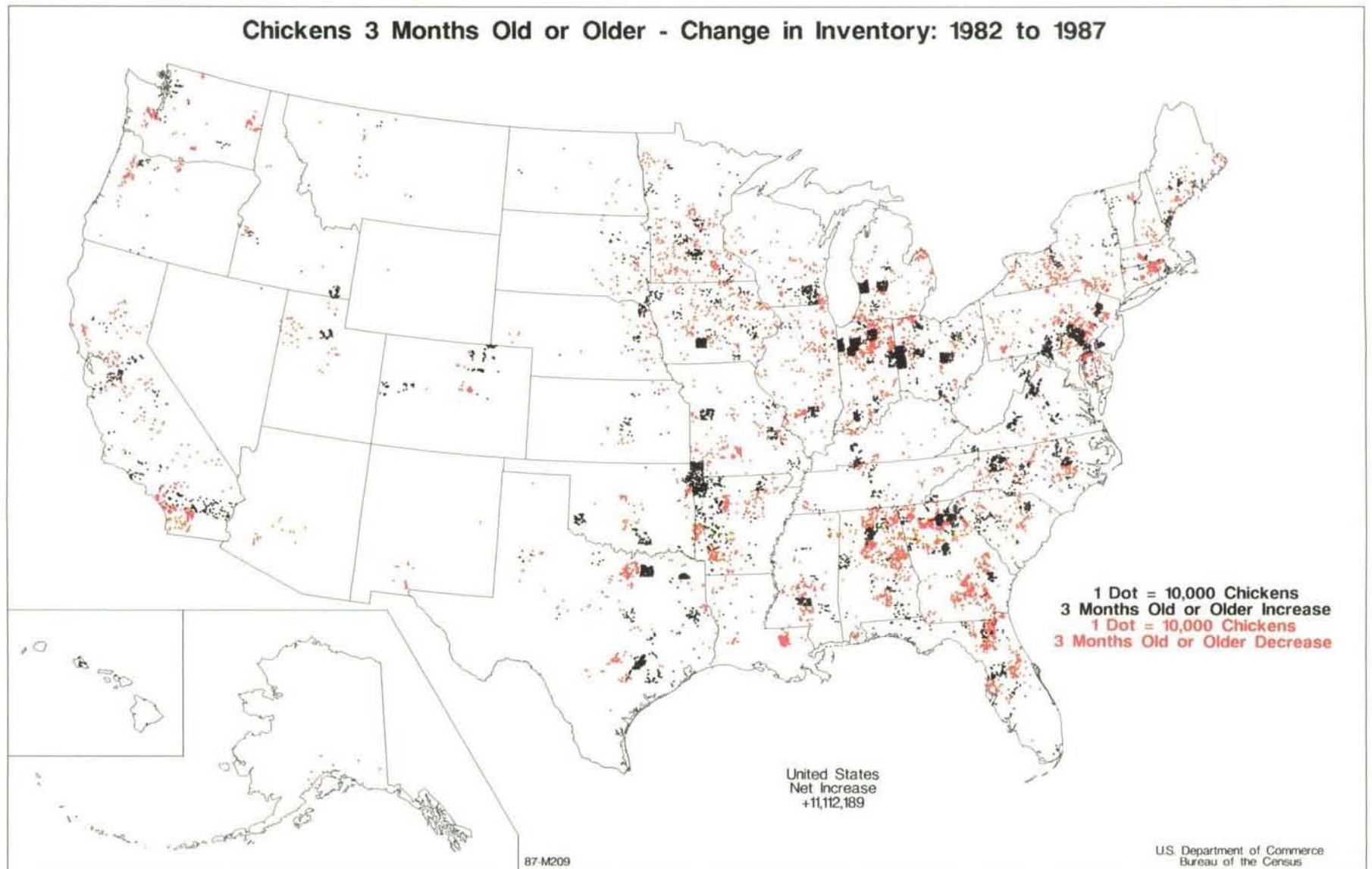


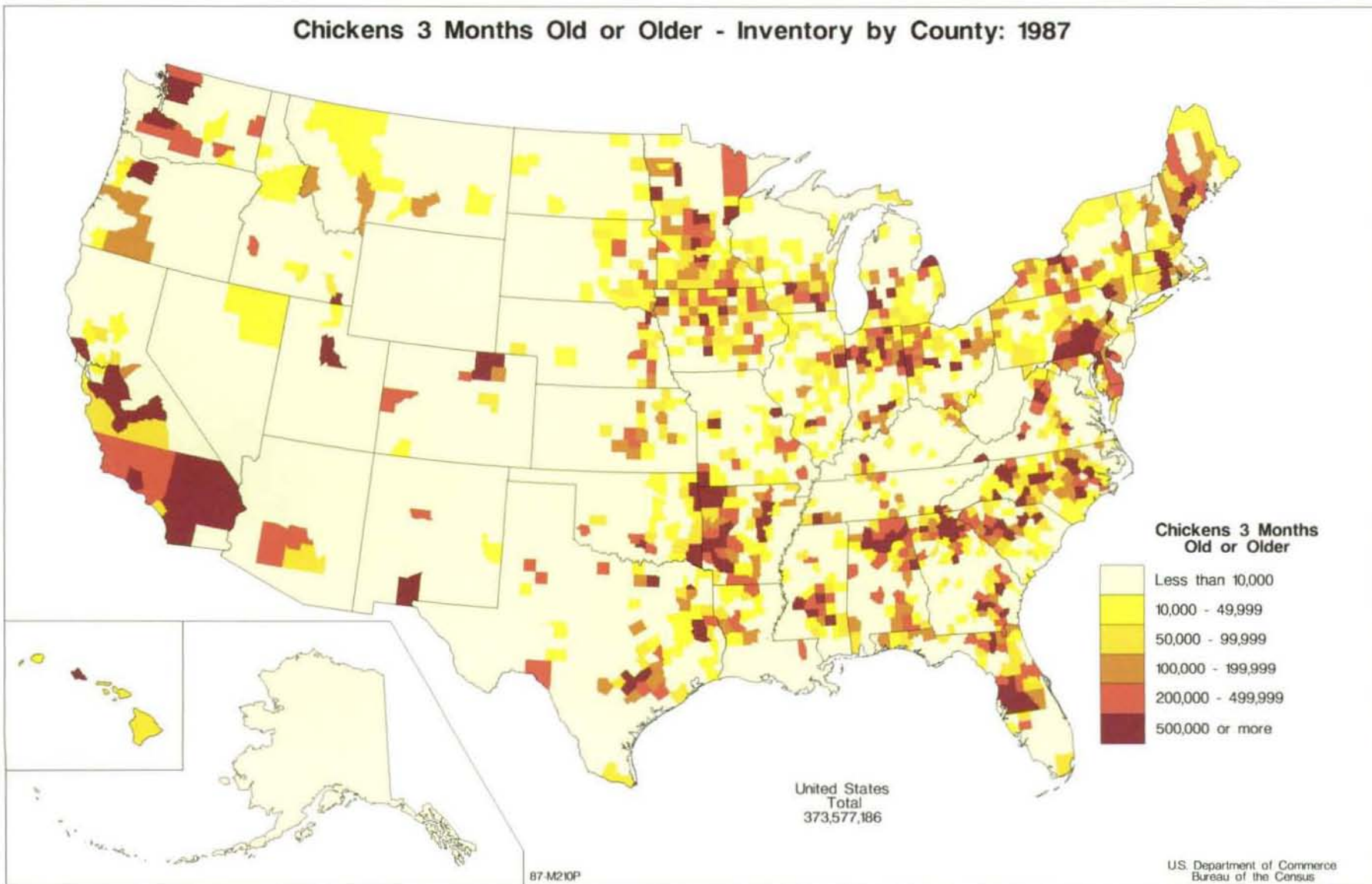
### Horses and Ponies - Inventory: 1987







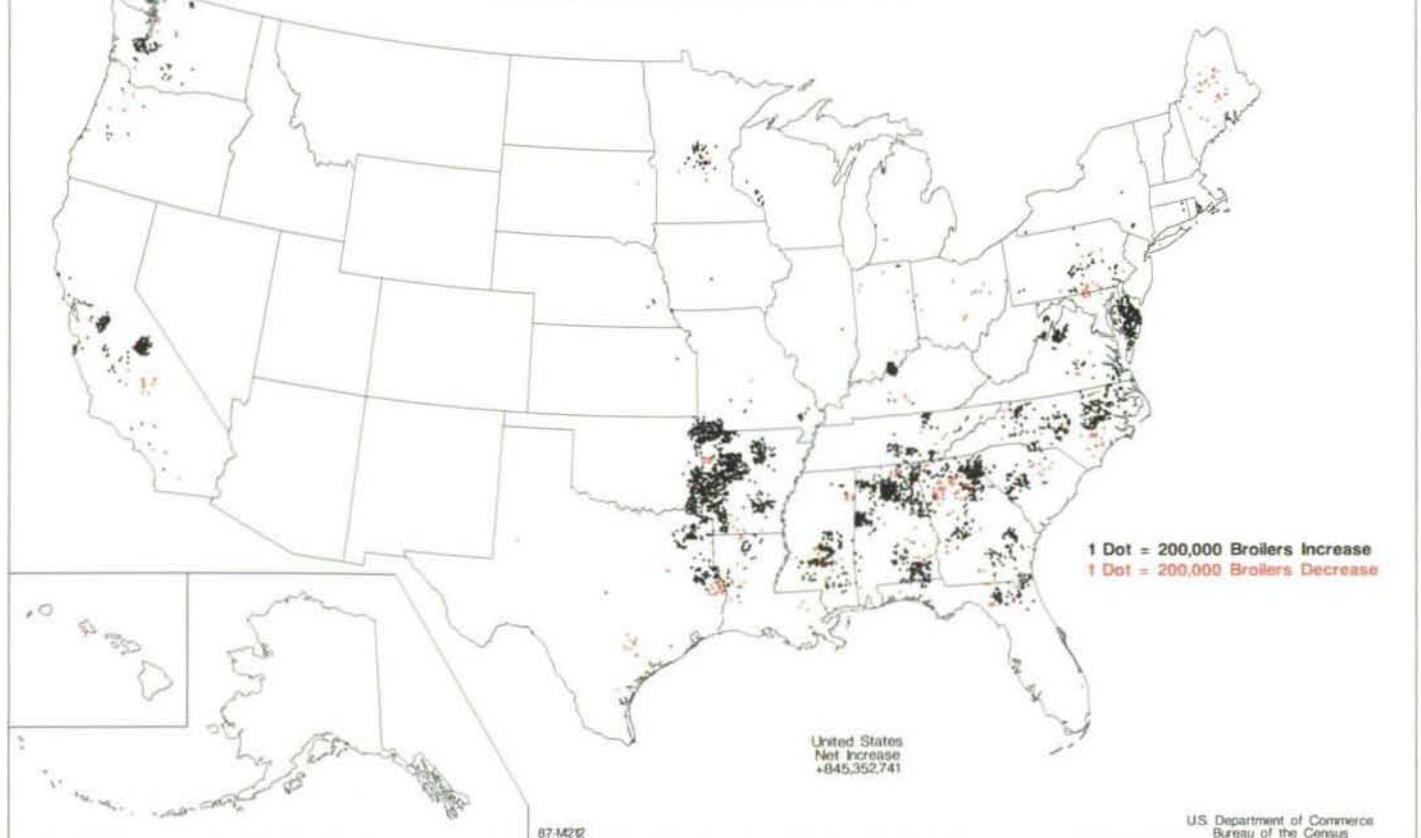




### Broilers and Other Meat-Type Chickens Sold: 1987

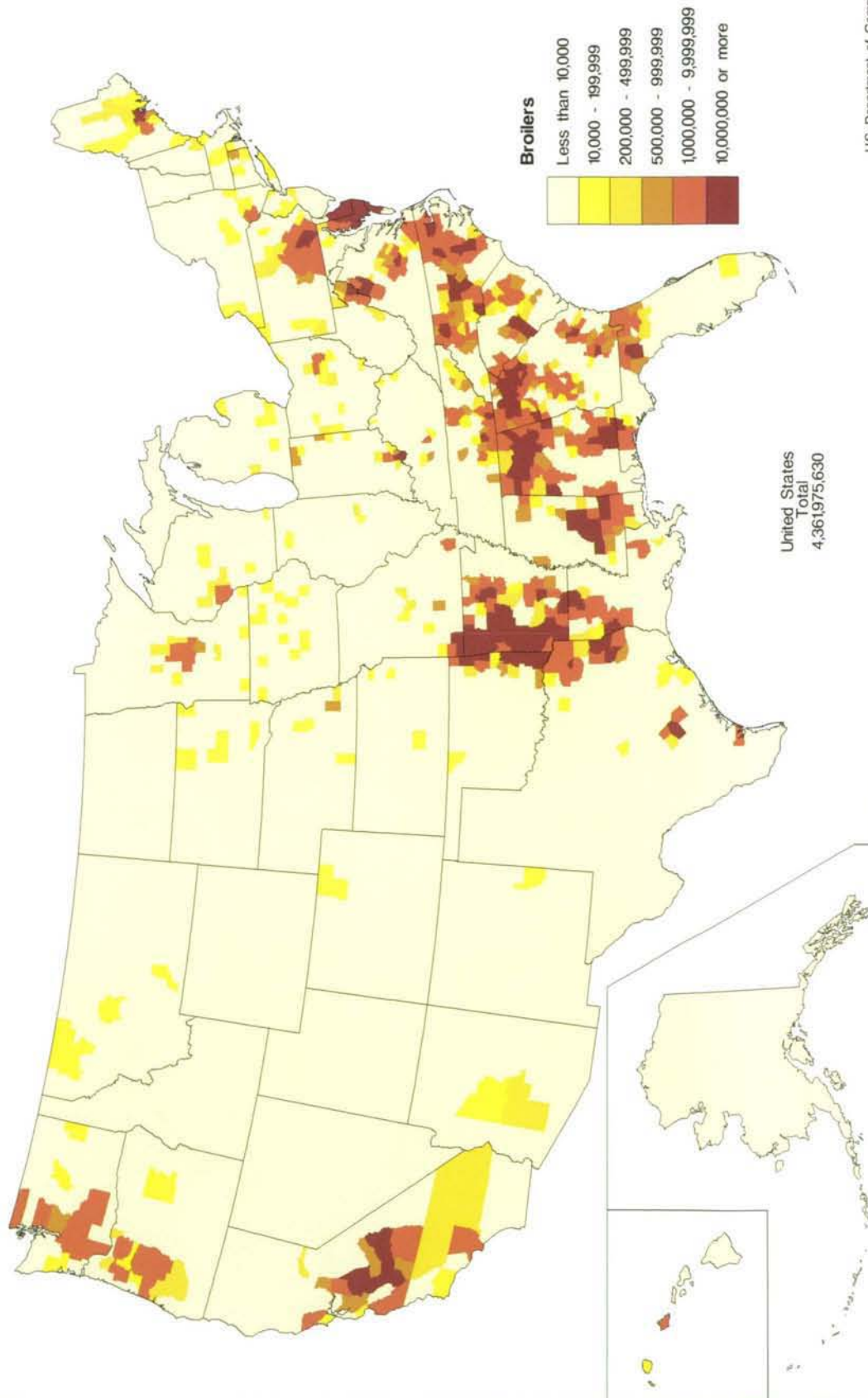


### Broilers and Other Meat-Type Chickens Sold - Change in Number: 1982 to 1987



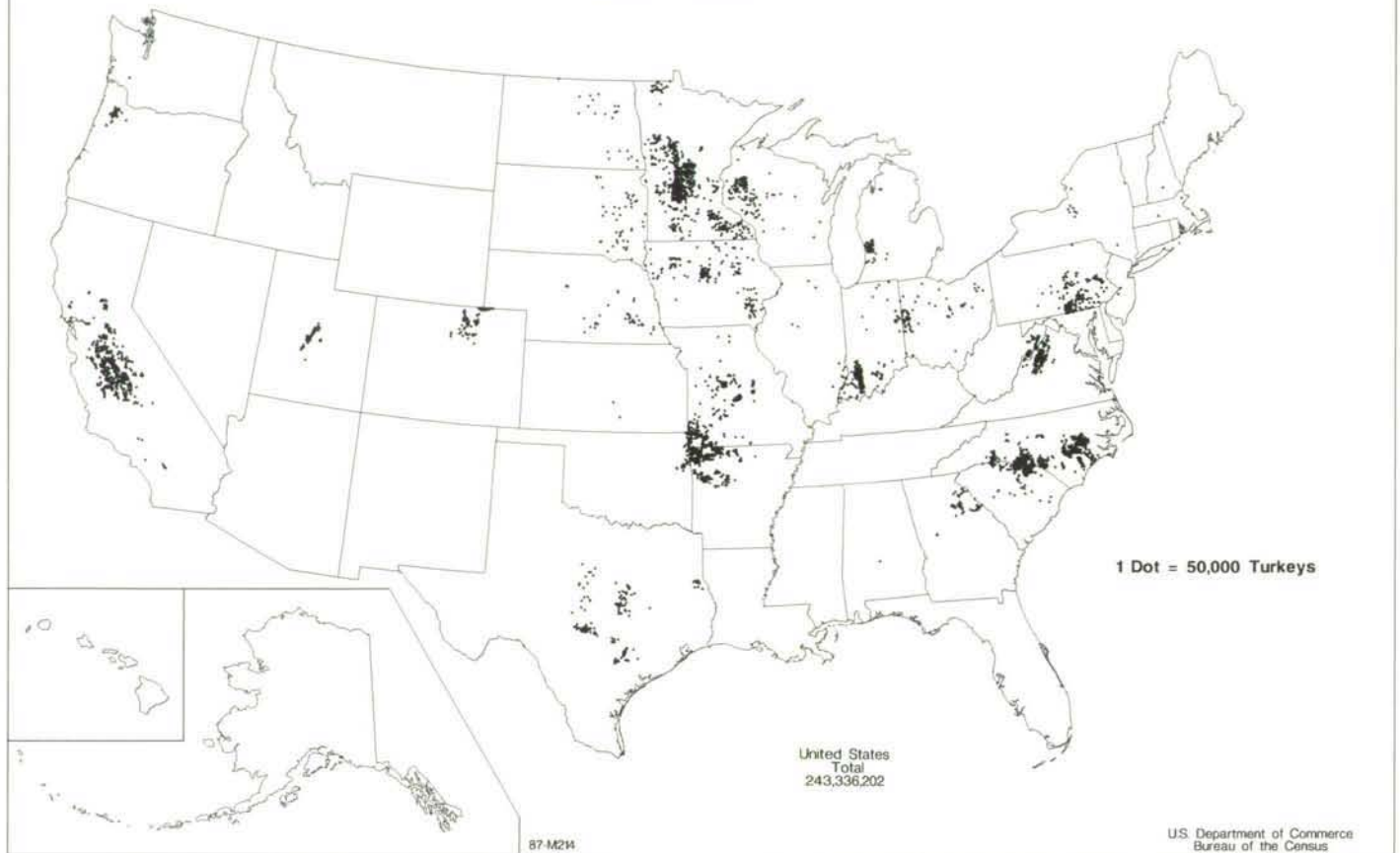


# Broilers and Other Meat-Type Chickens Sold by County: 1987

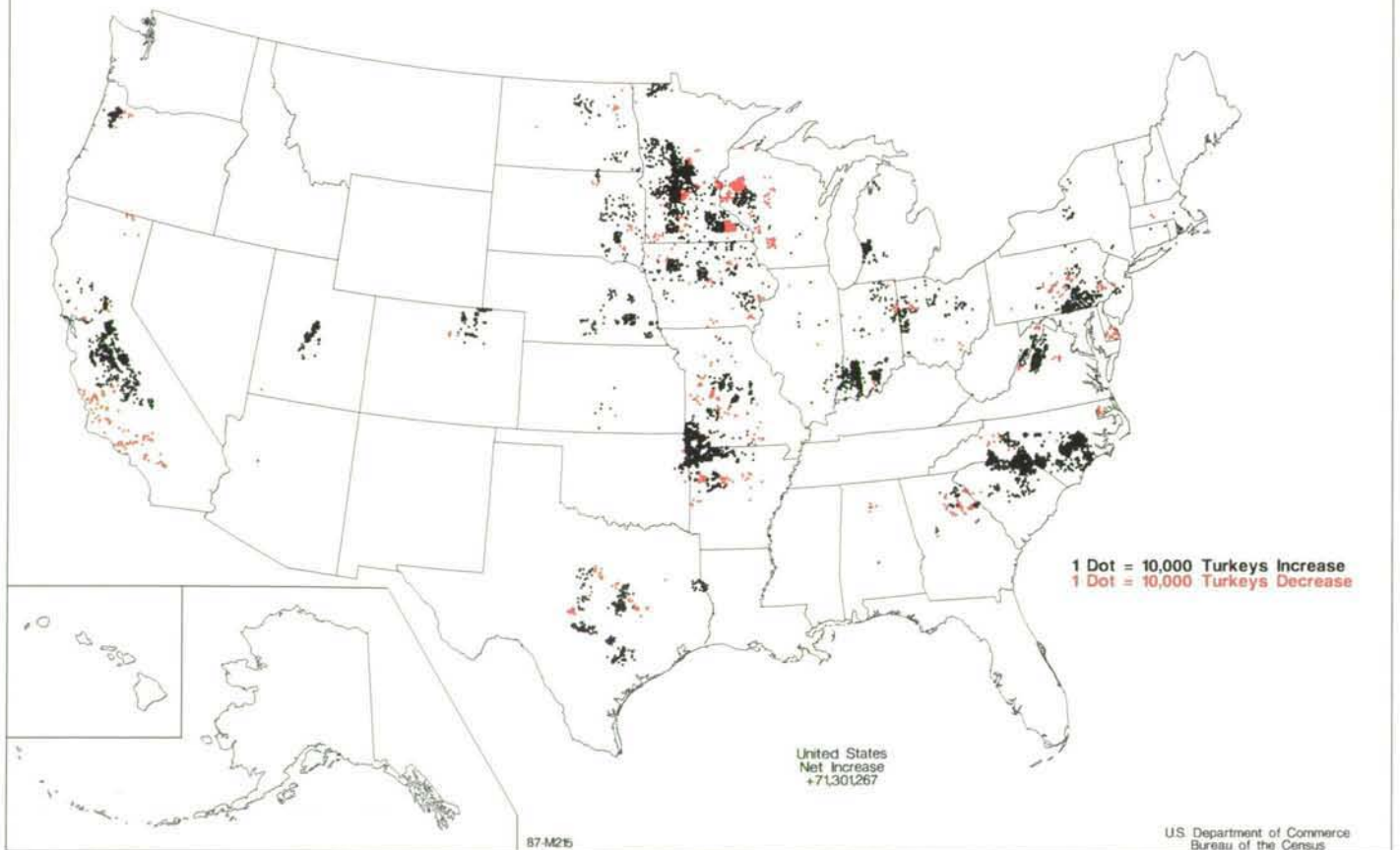


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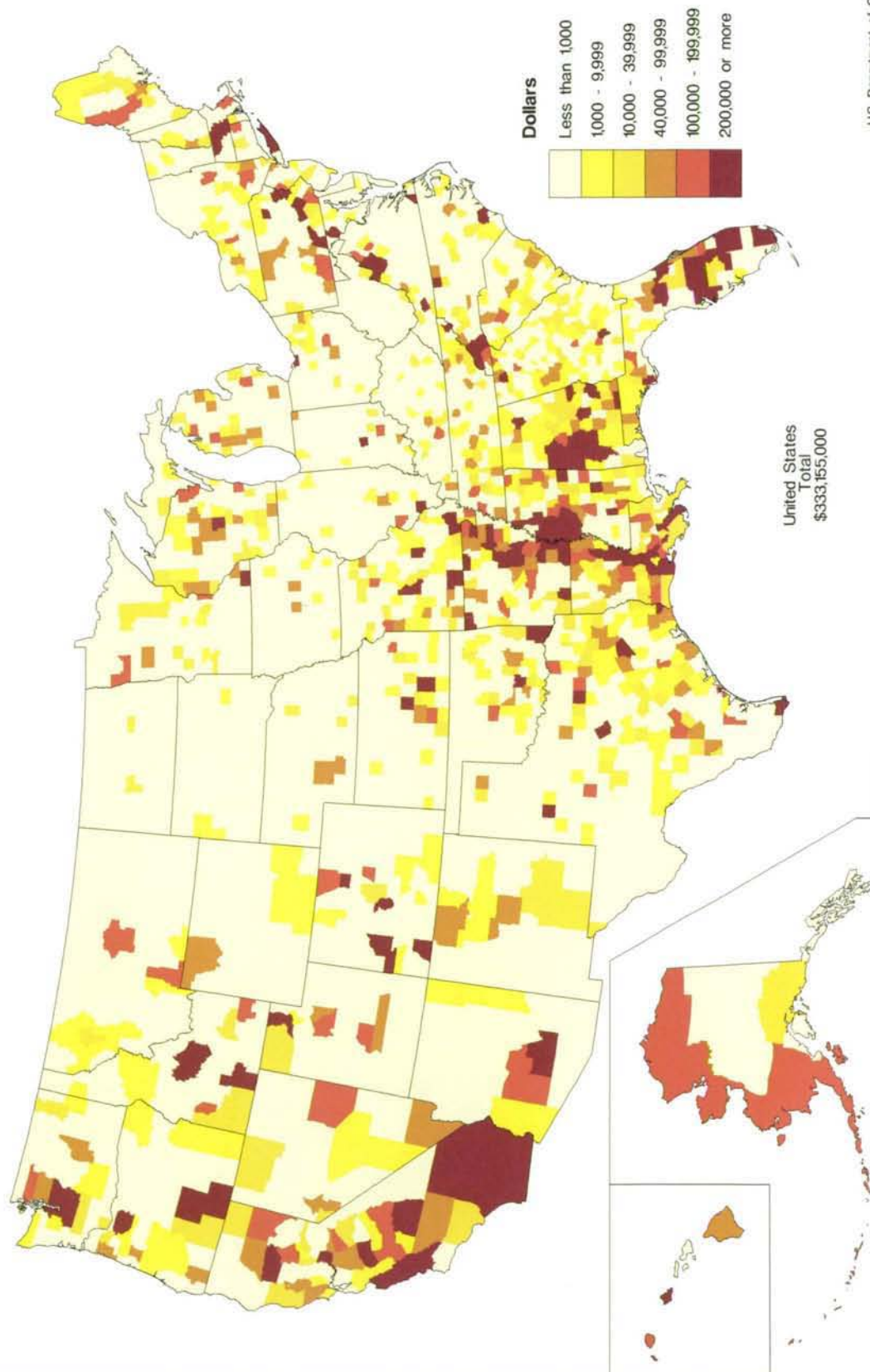
### Turkeys Sold: 1987



### Turkeys Sold - Change in Number: 1982 to 1987

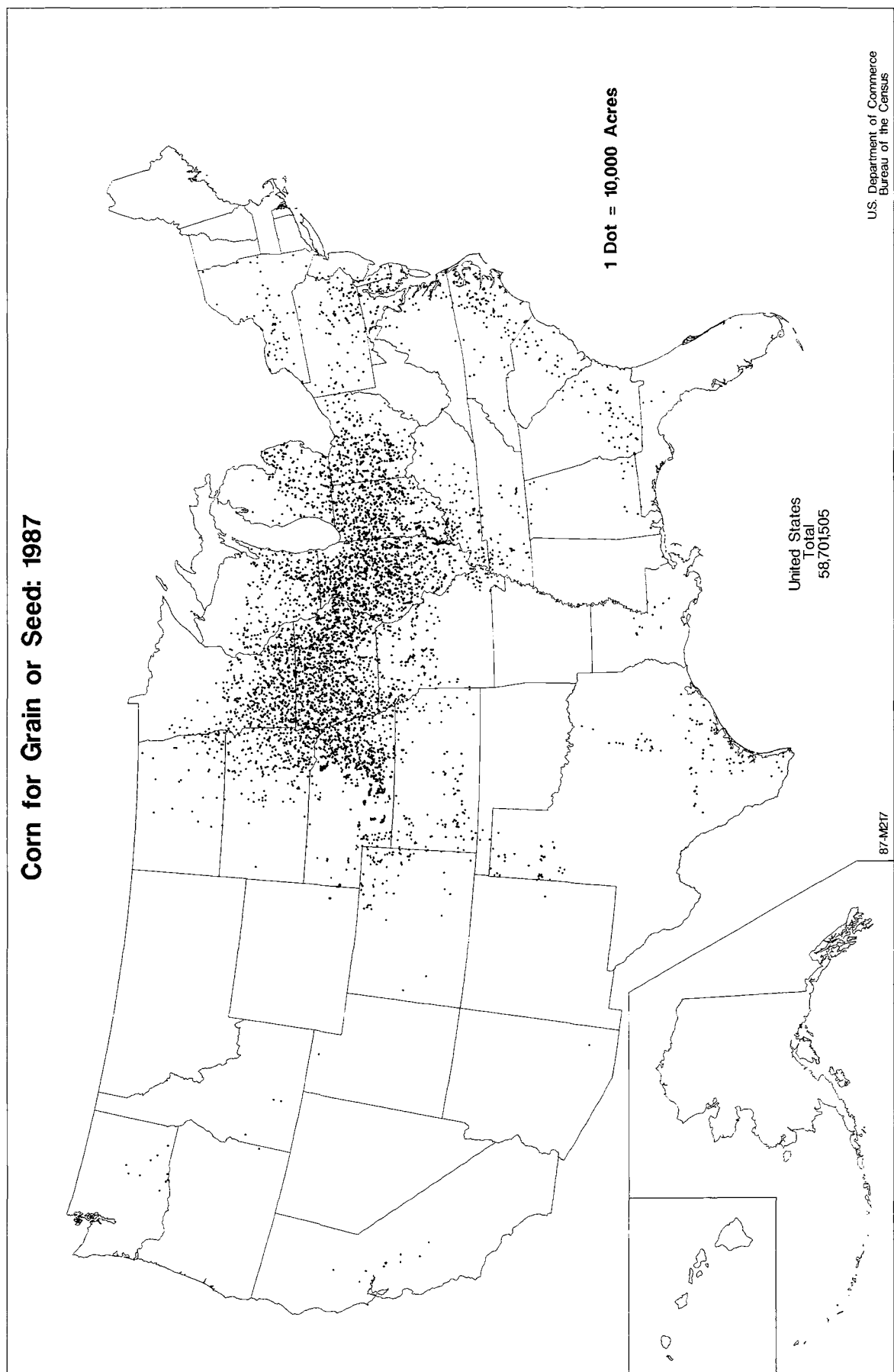


# Value of Fish and Other Aquaculture Products Sold: 1987

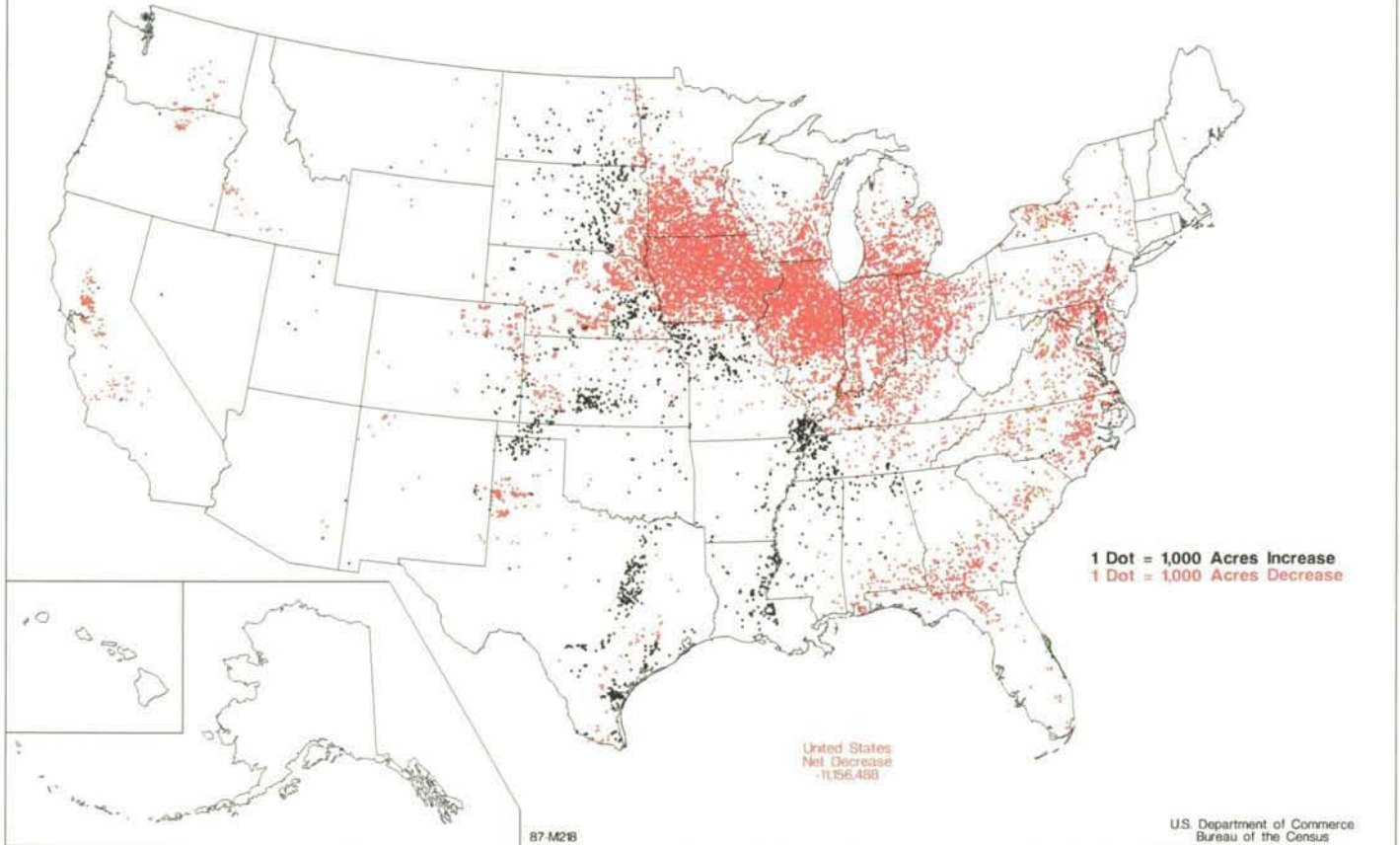




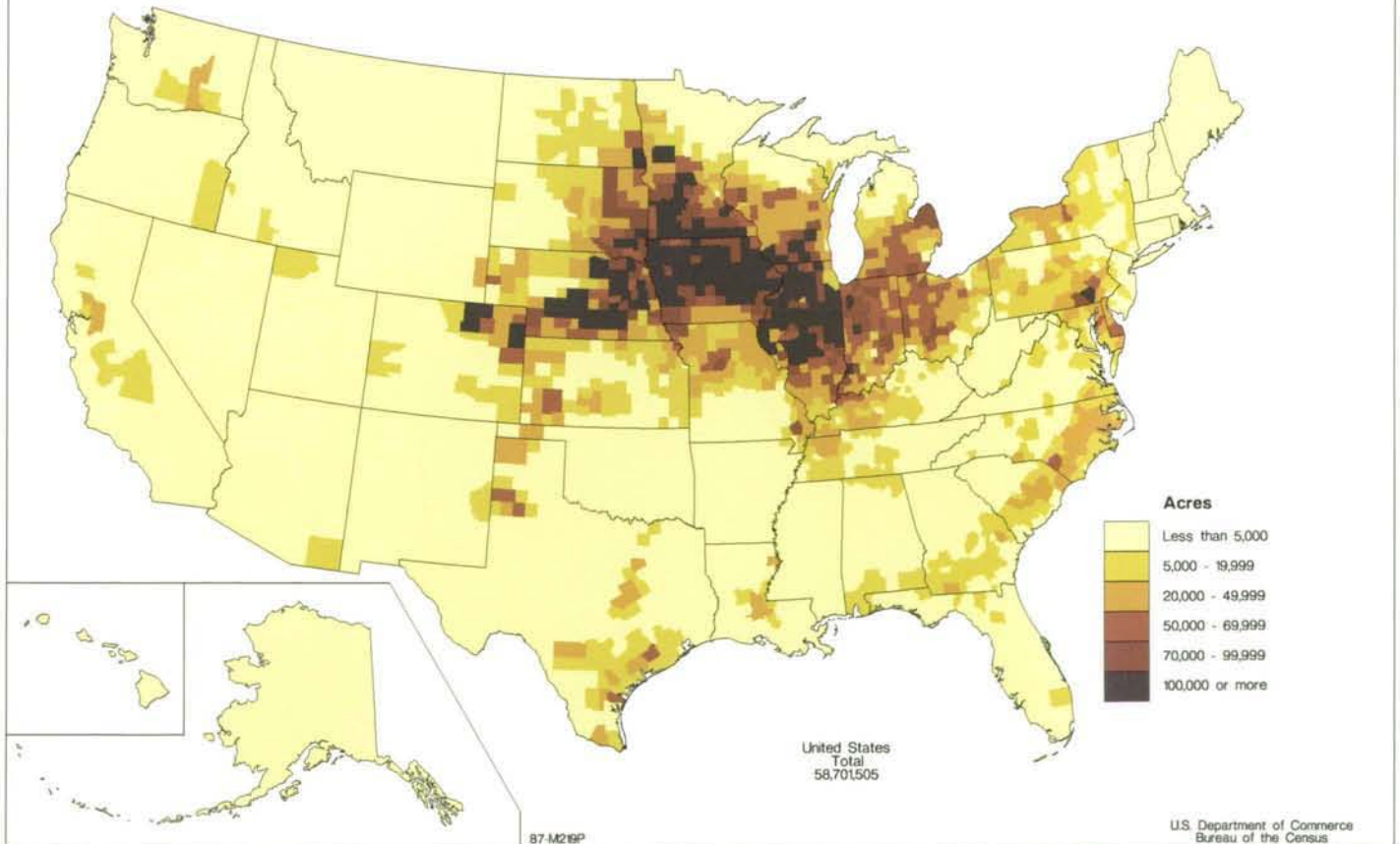
# Corn for Grain or Seed: 1987



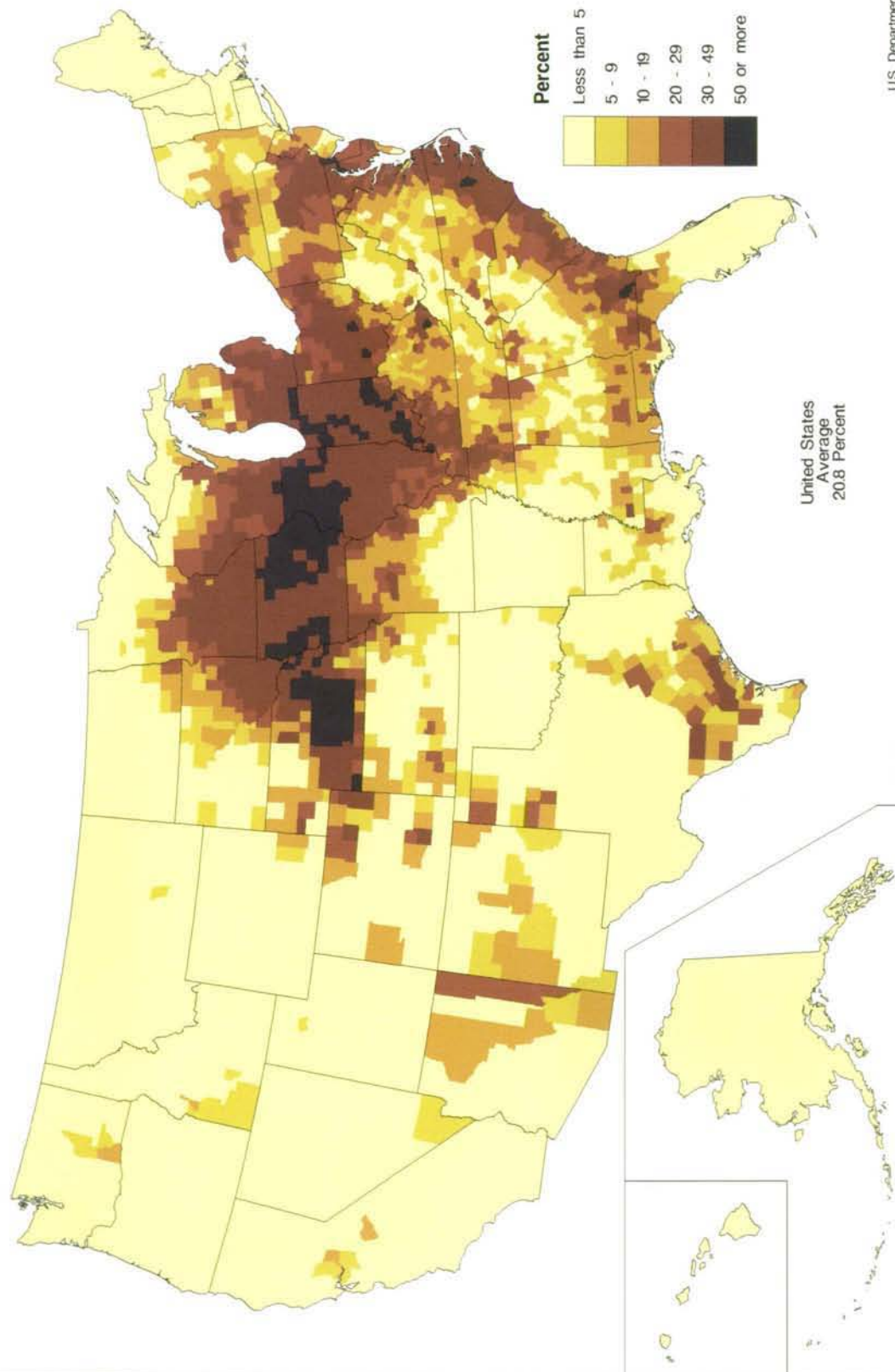
**Corn for Grain or Seed - Change in Acreage: 1982 to 1987**



**Corn for Grain or Seed by County: 1987**

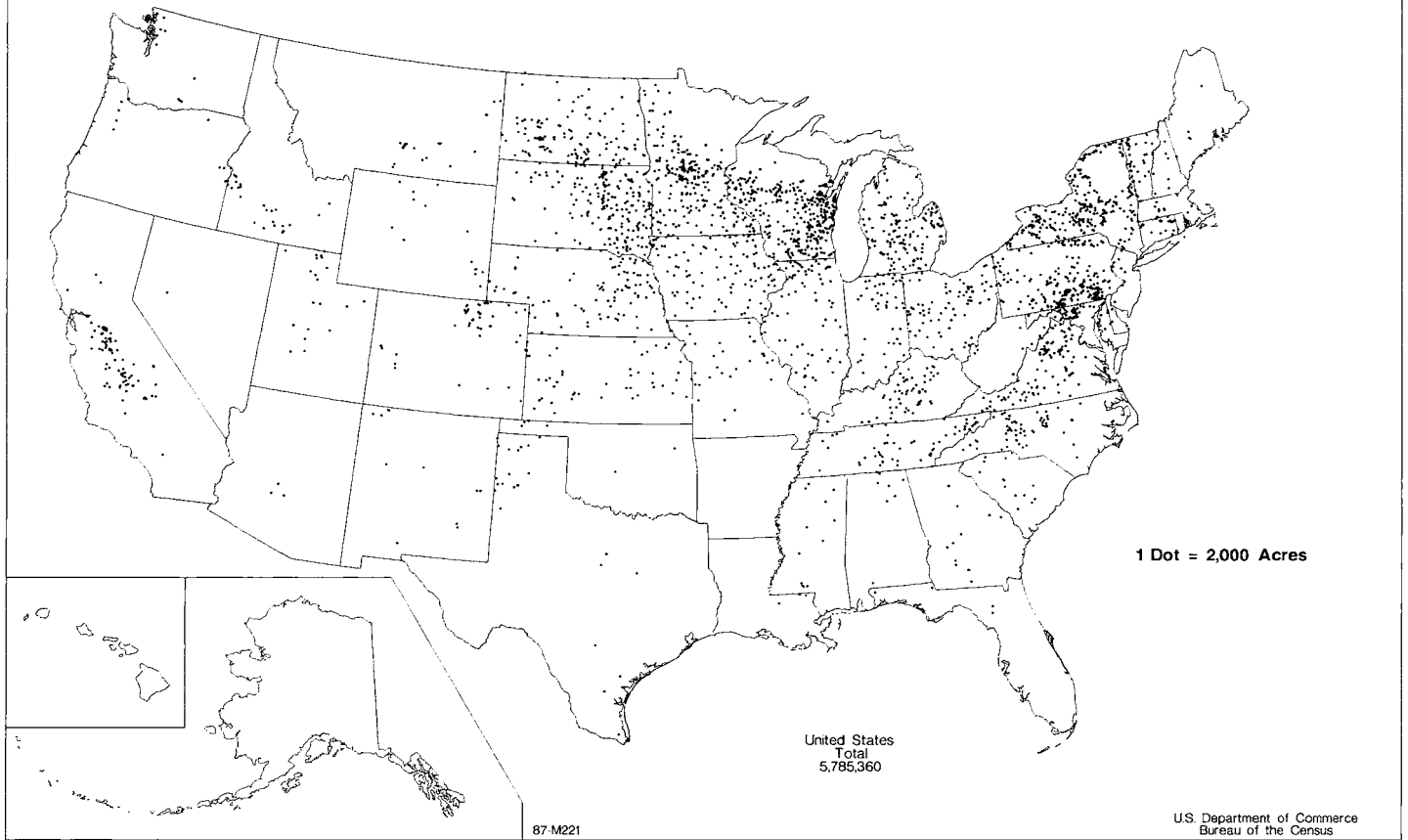


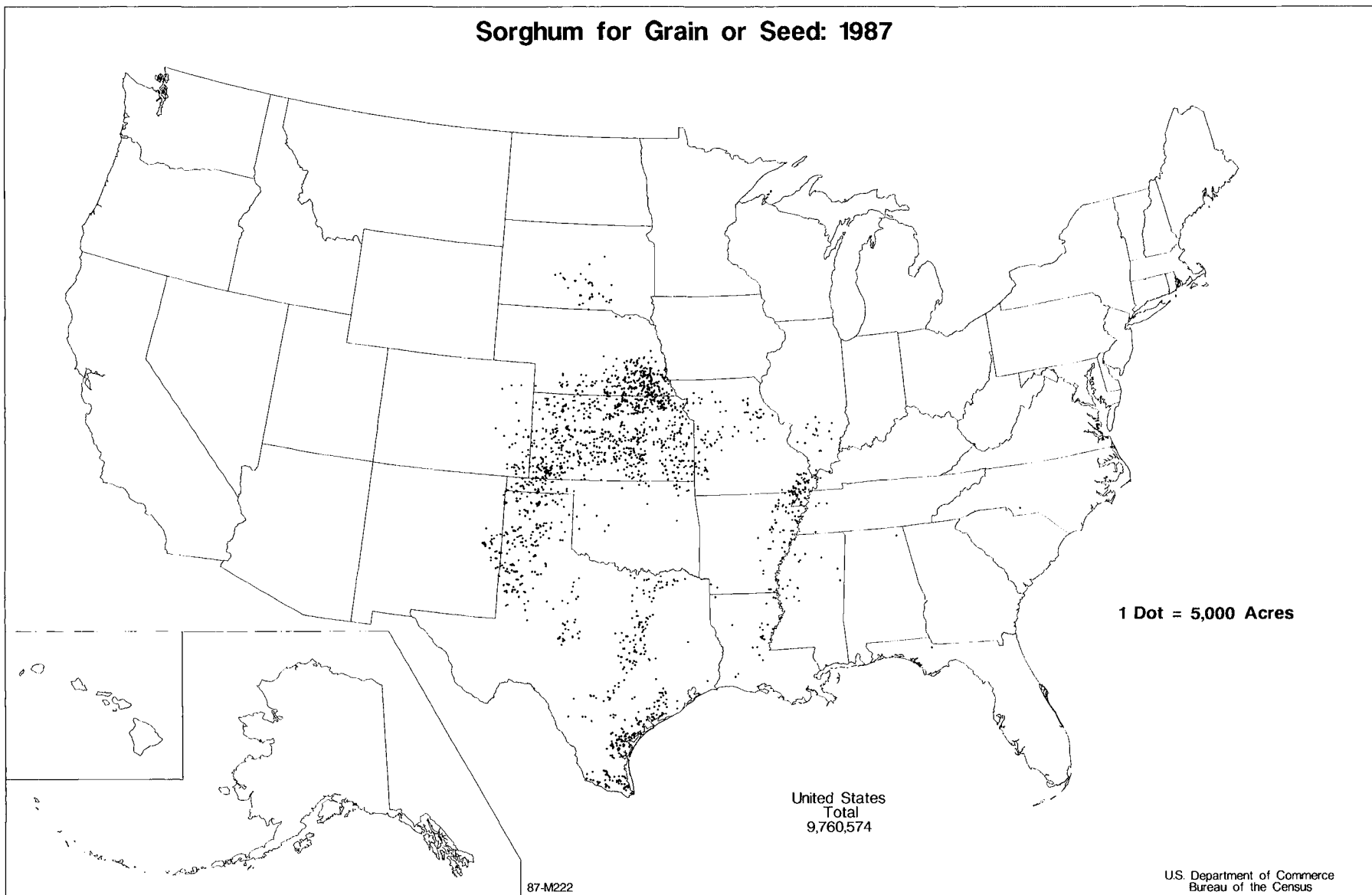
# Acres of Corn for Grain or Seed as Percent of Harvested Cropland: 1987



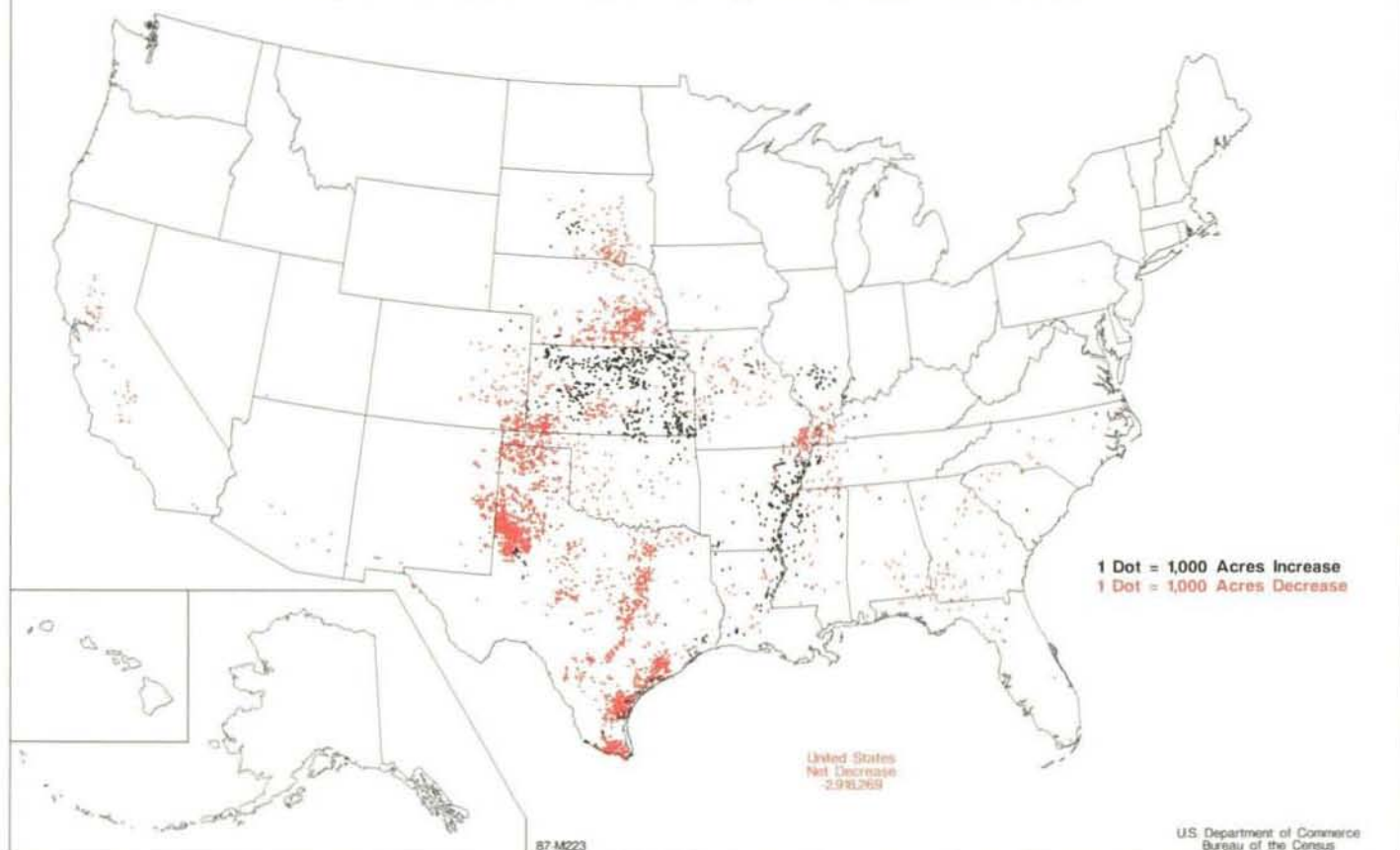


**Corn for Silage or Green Chop: 1987**

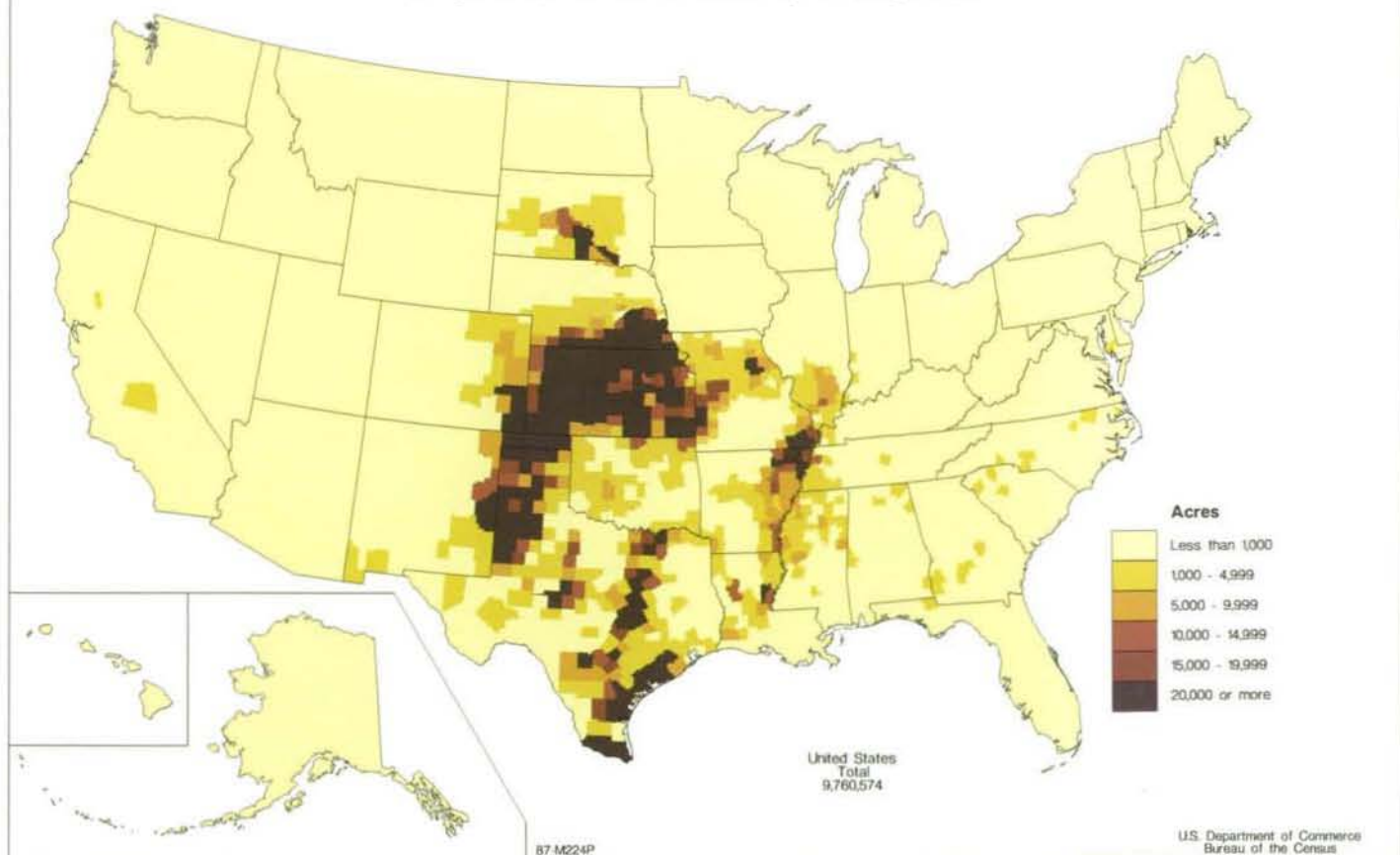




**Sorghum for Grain or Seed - Change in Acreage: 1982 to 1987**

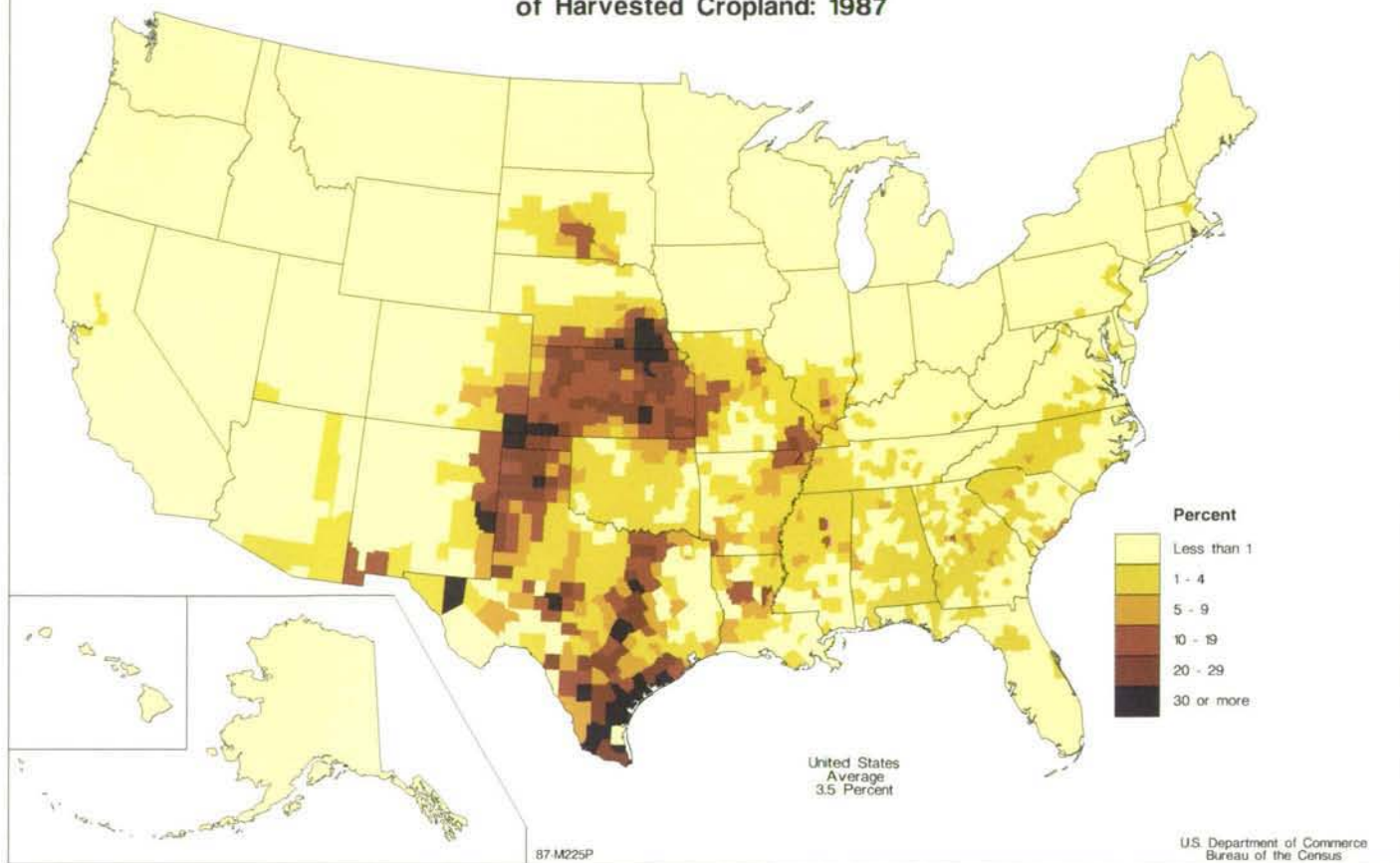


**Sorghum for Grain or Seed by County: 1987**

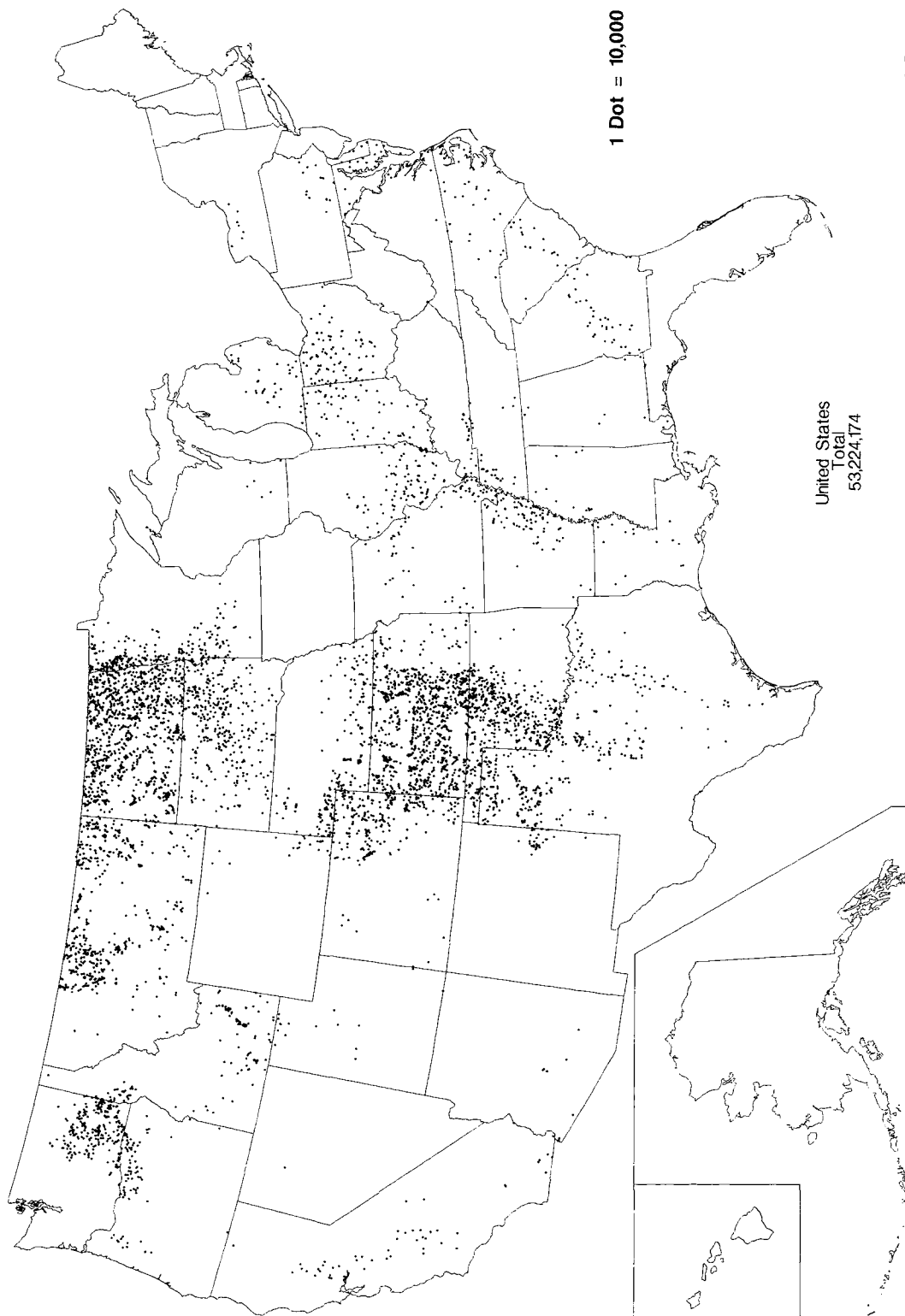




Acres of Sorghum for Grain or Seed as Percent  
of Harvested Cropland: 1987



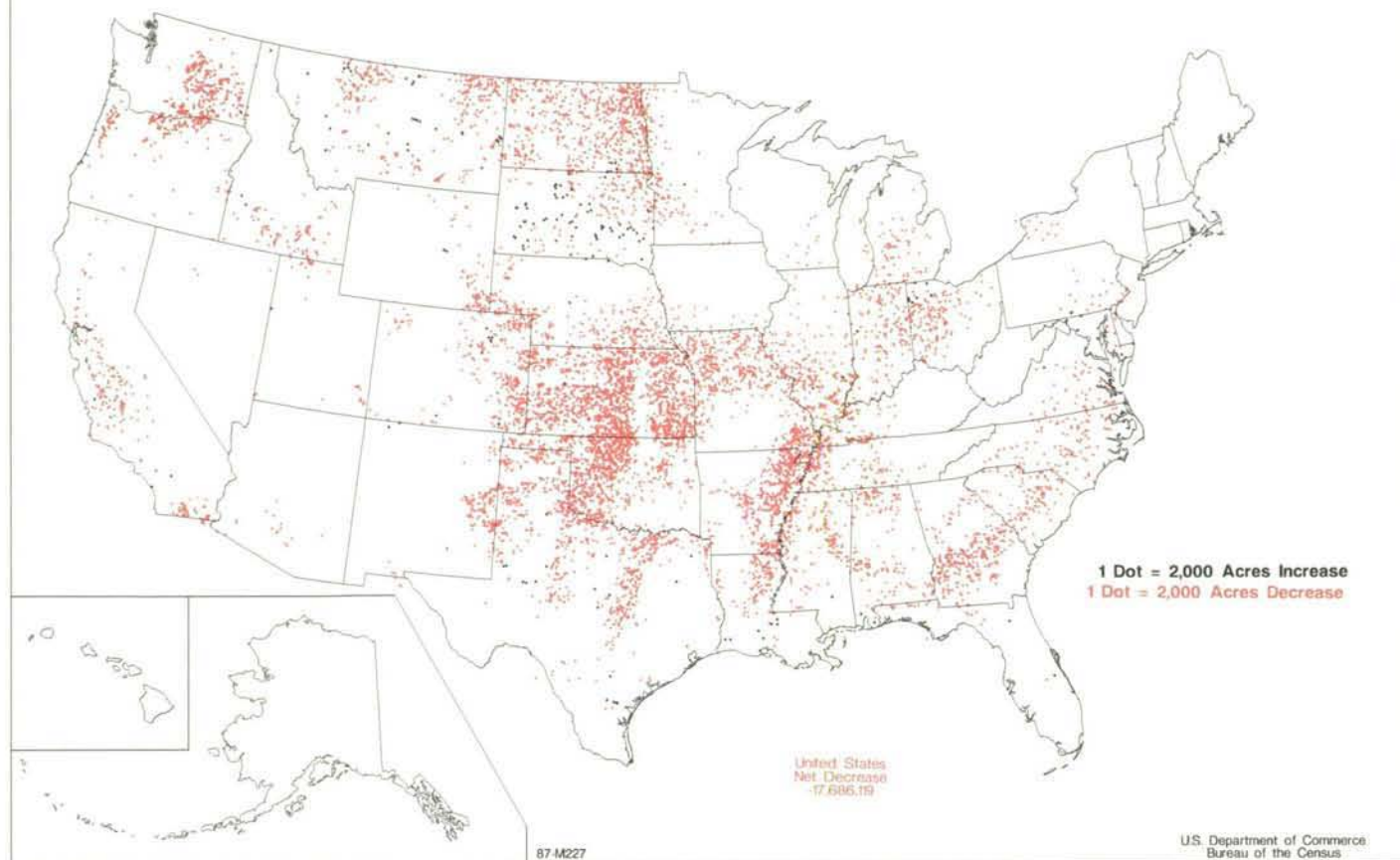
**Wheat for Grain: 1987**



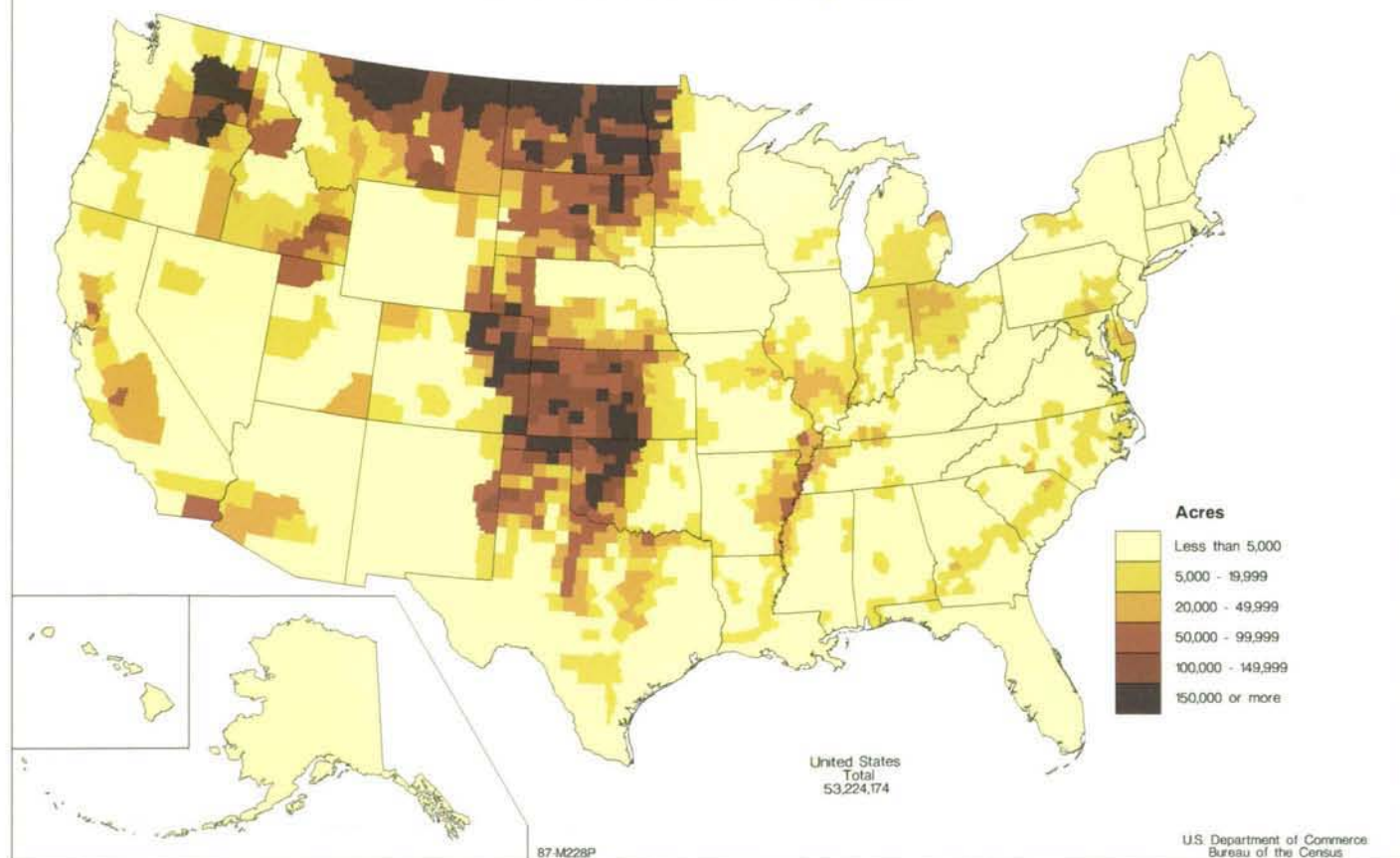
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# Wheat for Grain - Change in Acreage: 1982 to 1987

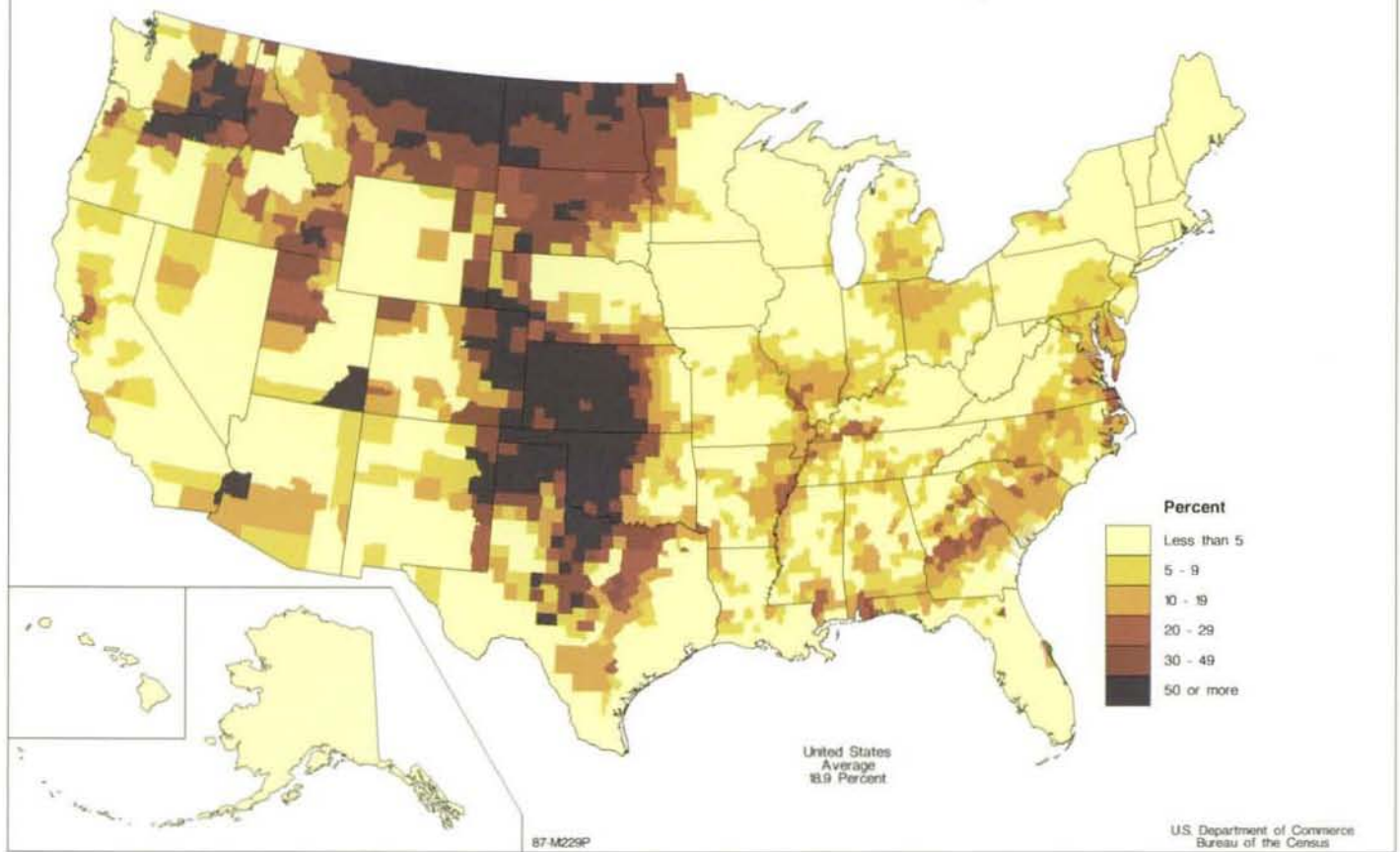


# Wheat for Grain by County: 1987

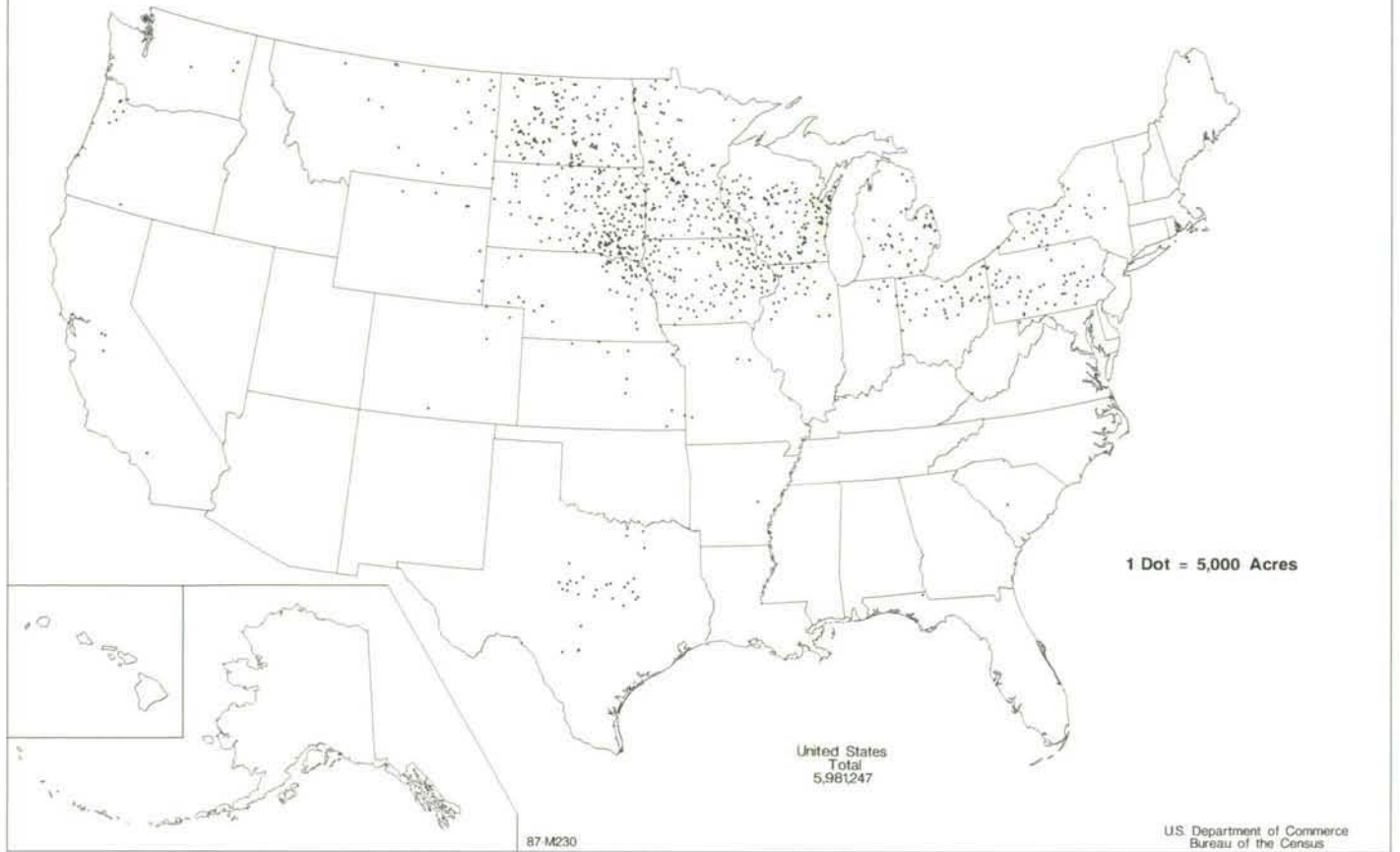




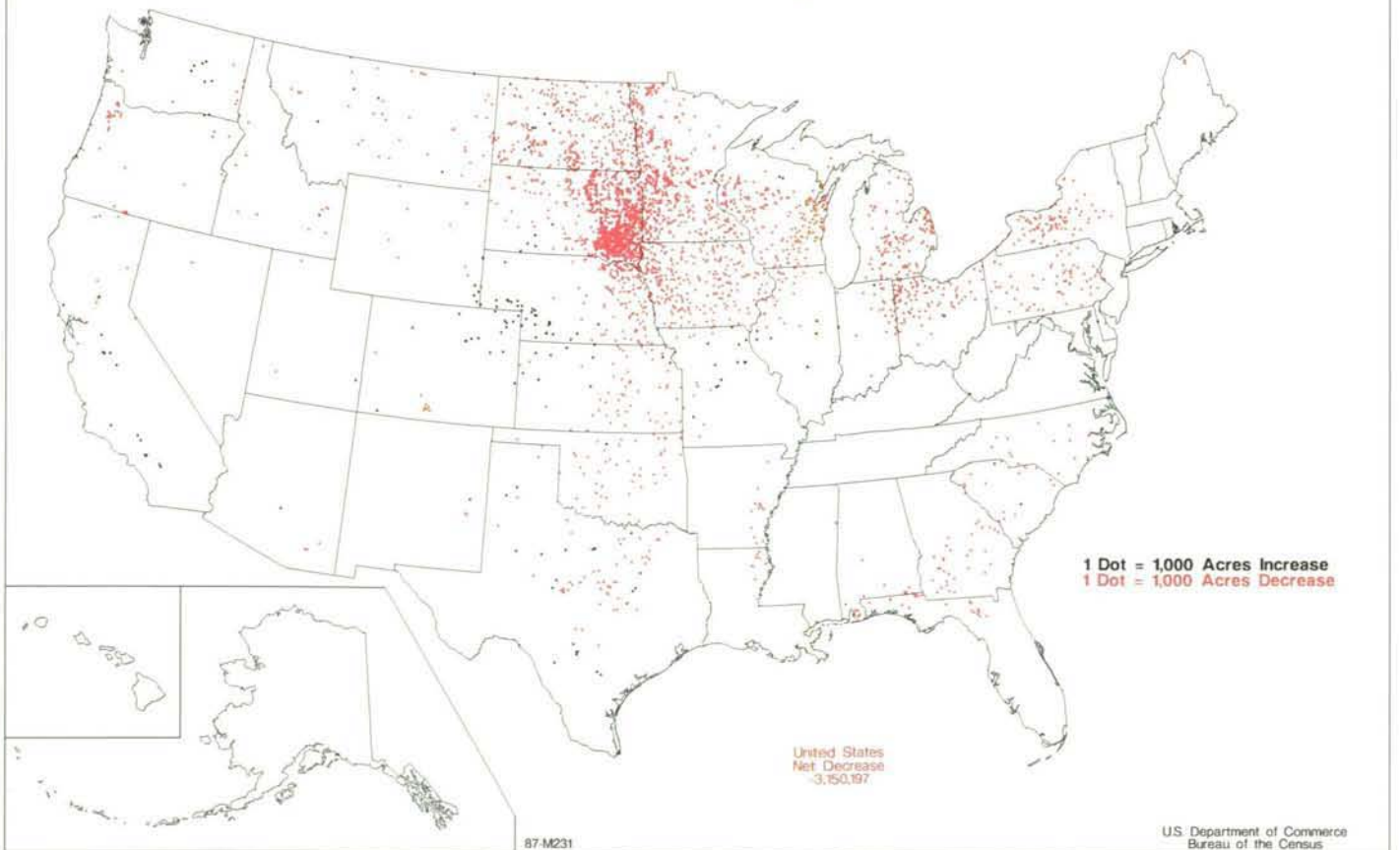
Acres of Wheat for Grain as Percent of Harvested Cropland: 1987



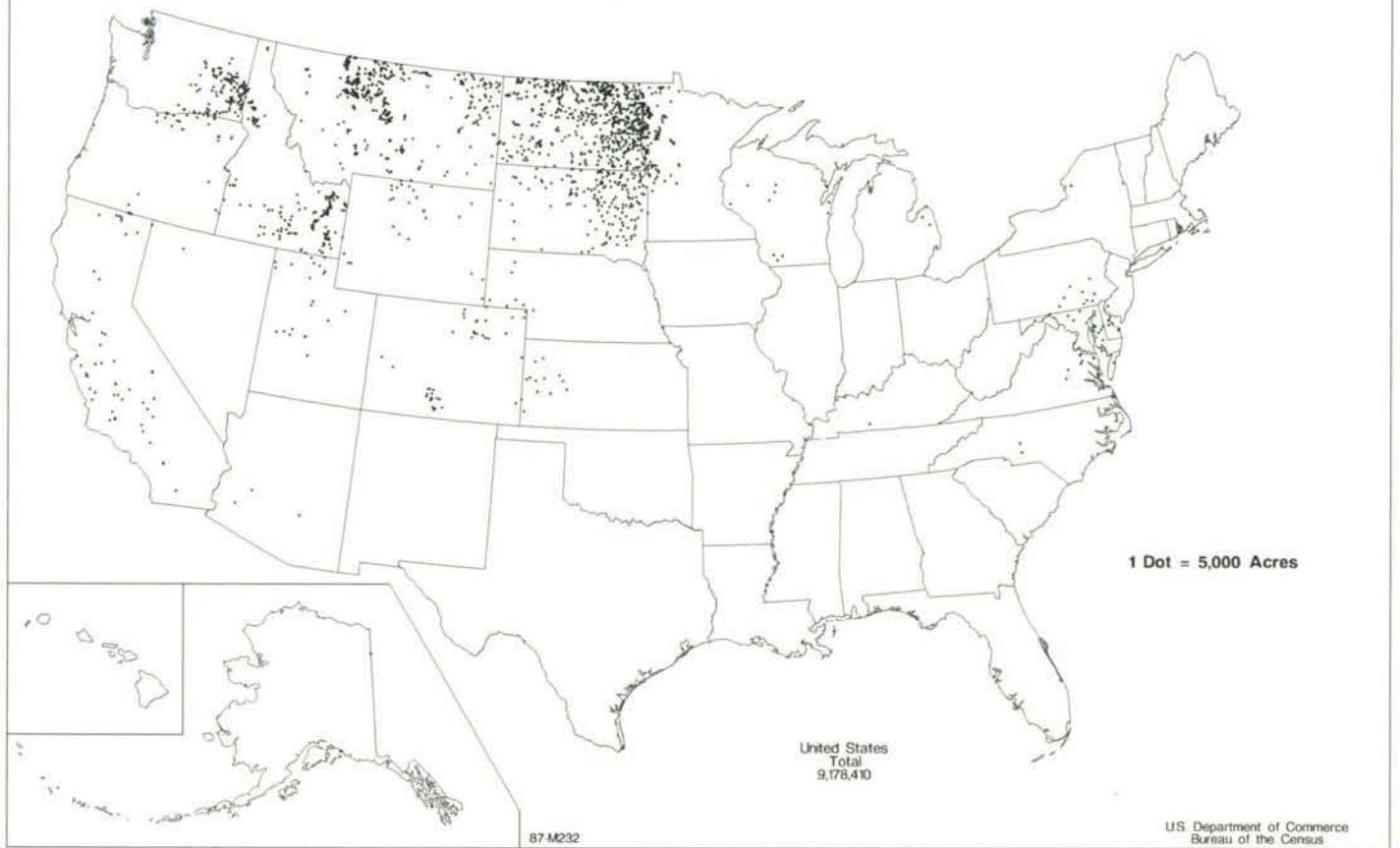
### Oats for Grain: 1987



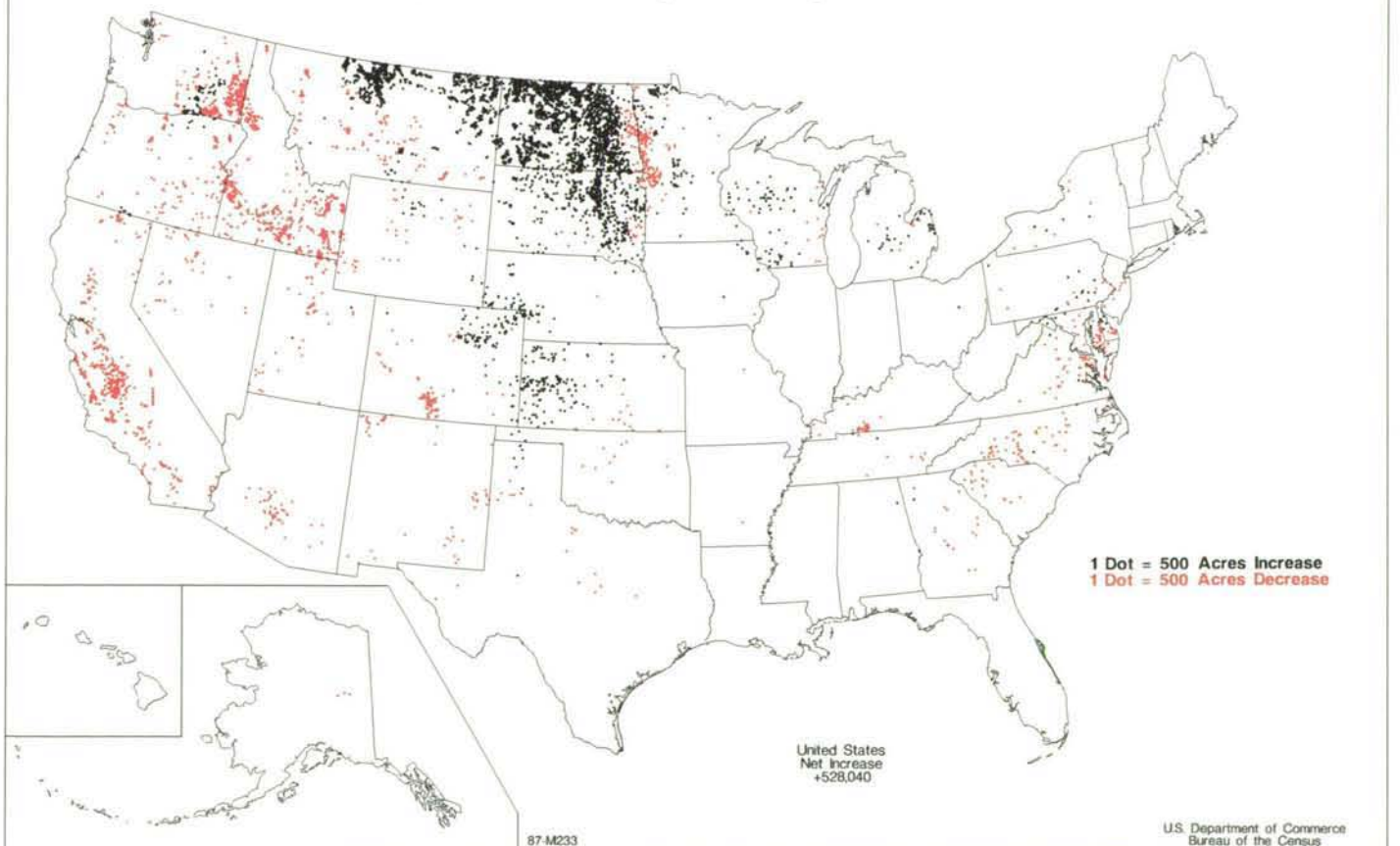
### Oats for Grain - Change in Acreage: 1982 to 1987



### Barley for Grain: 1987

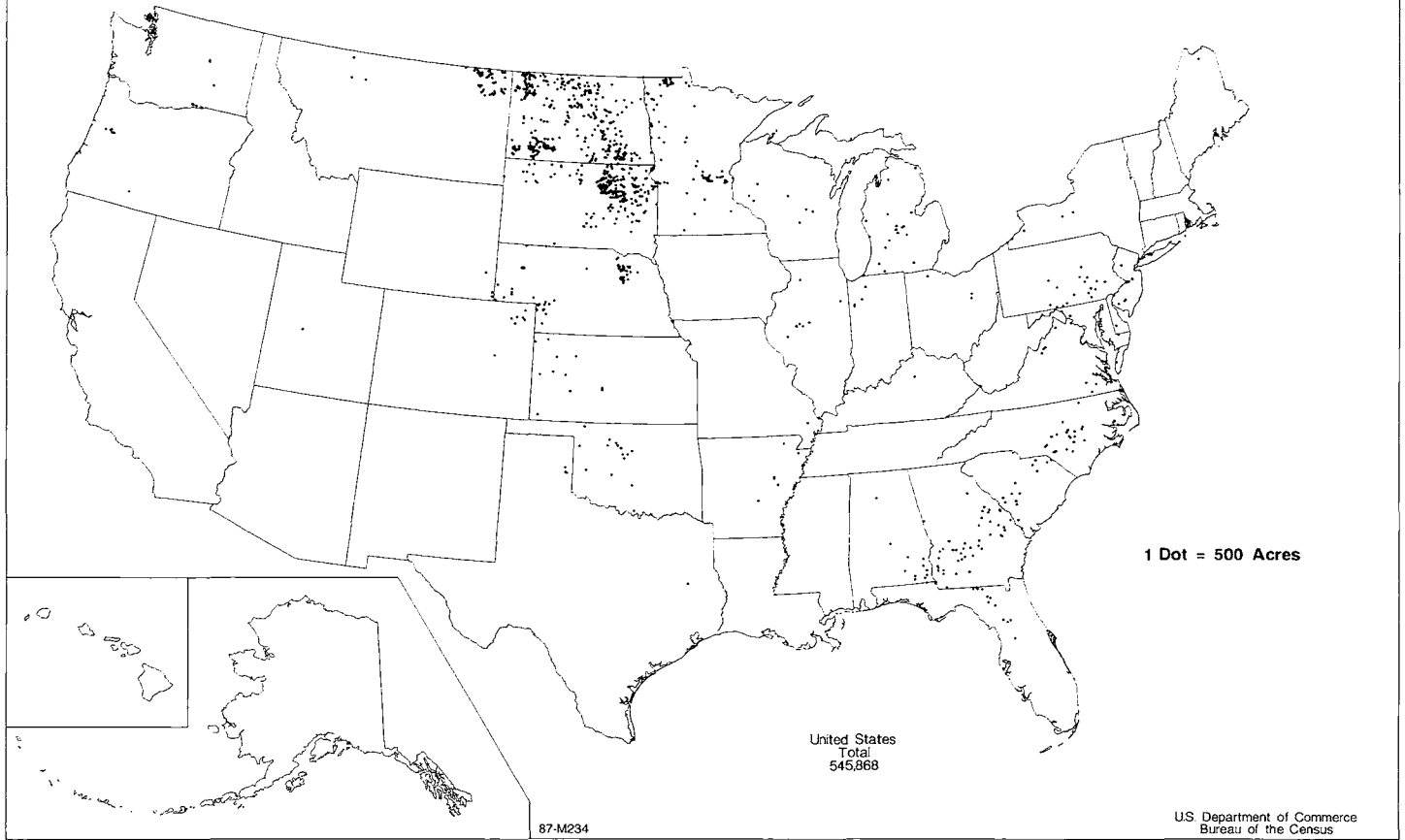


### Barley for Grain - Change in Acreage: 1982 to 1987



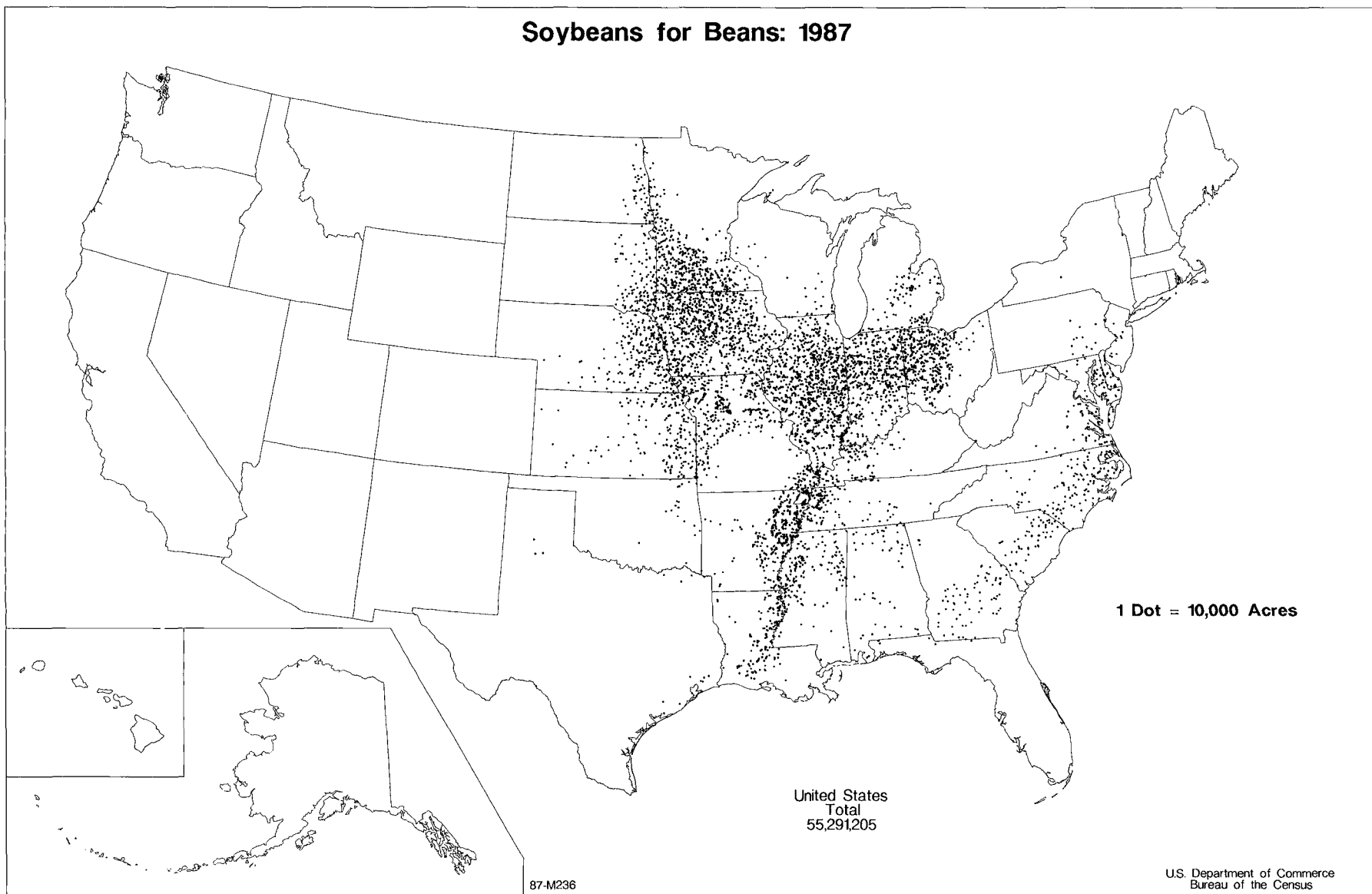


### Rye for Grain: 1987

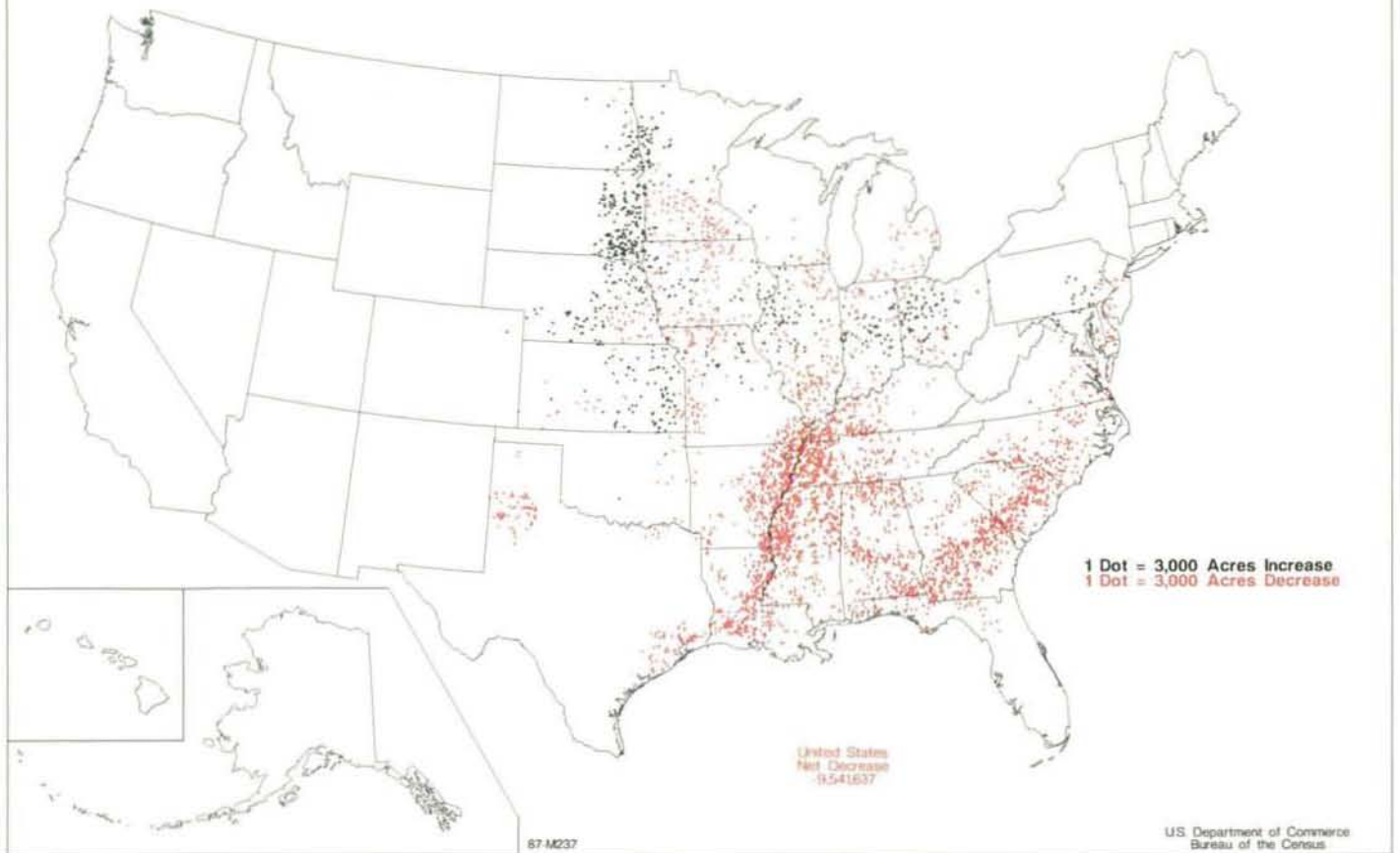


### Rice: 1987

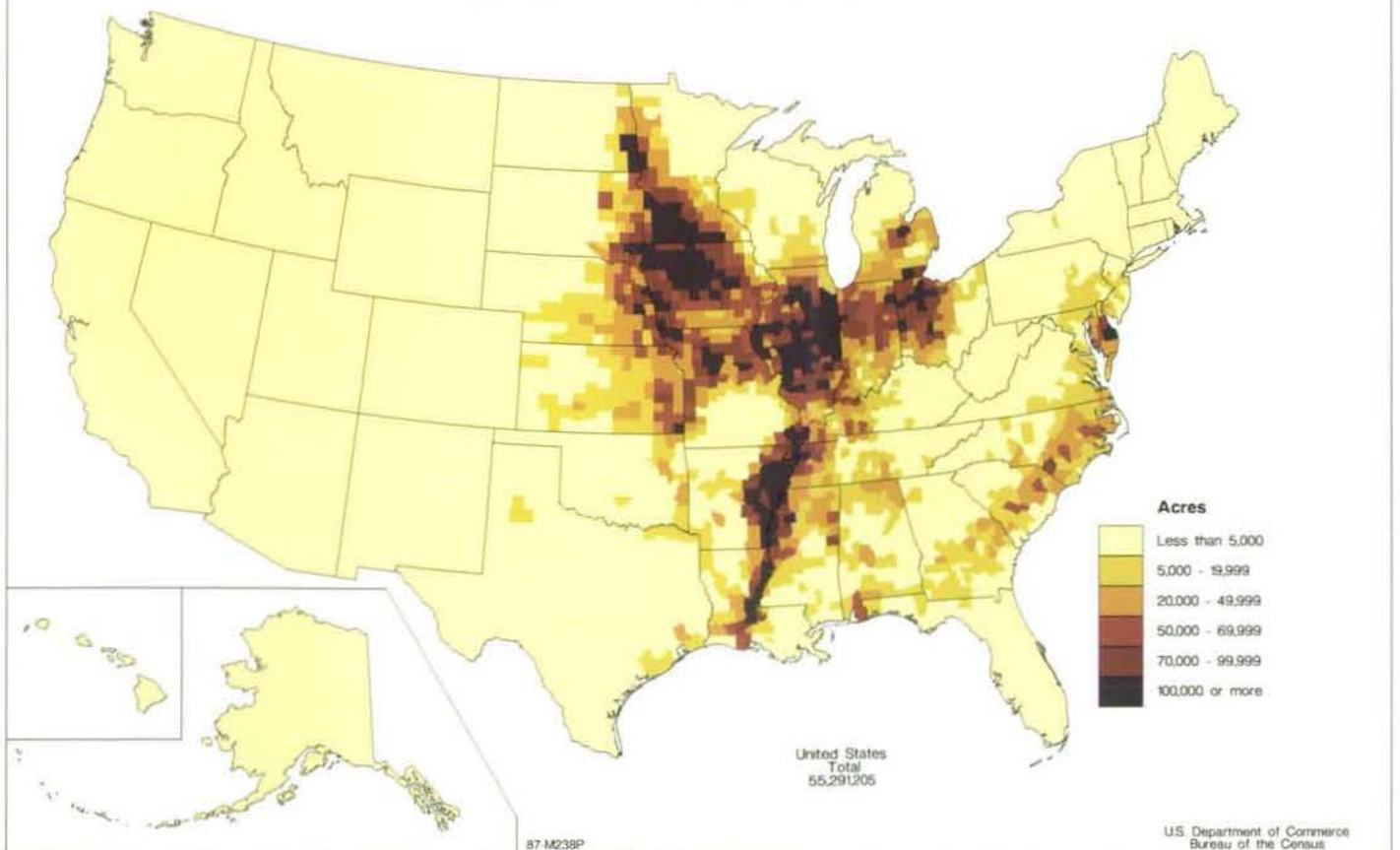




**Soybeans for Beans - Change in Acreage: 1982 to 1987**

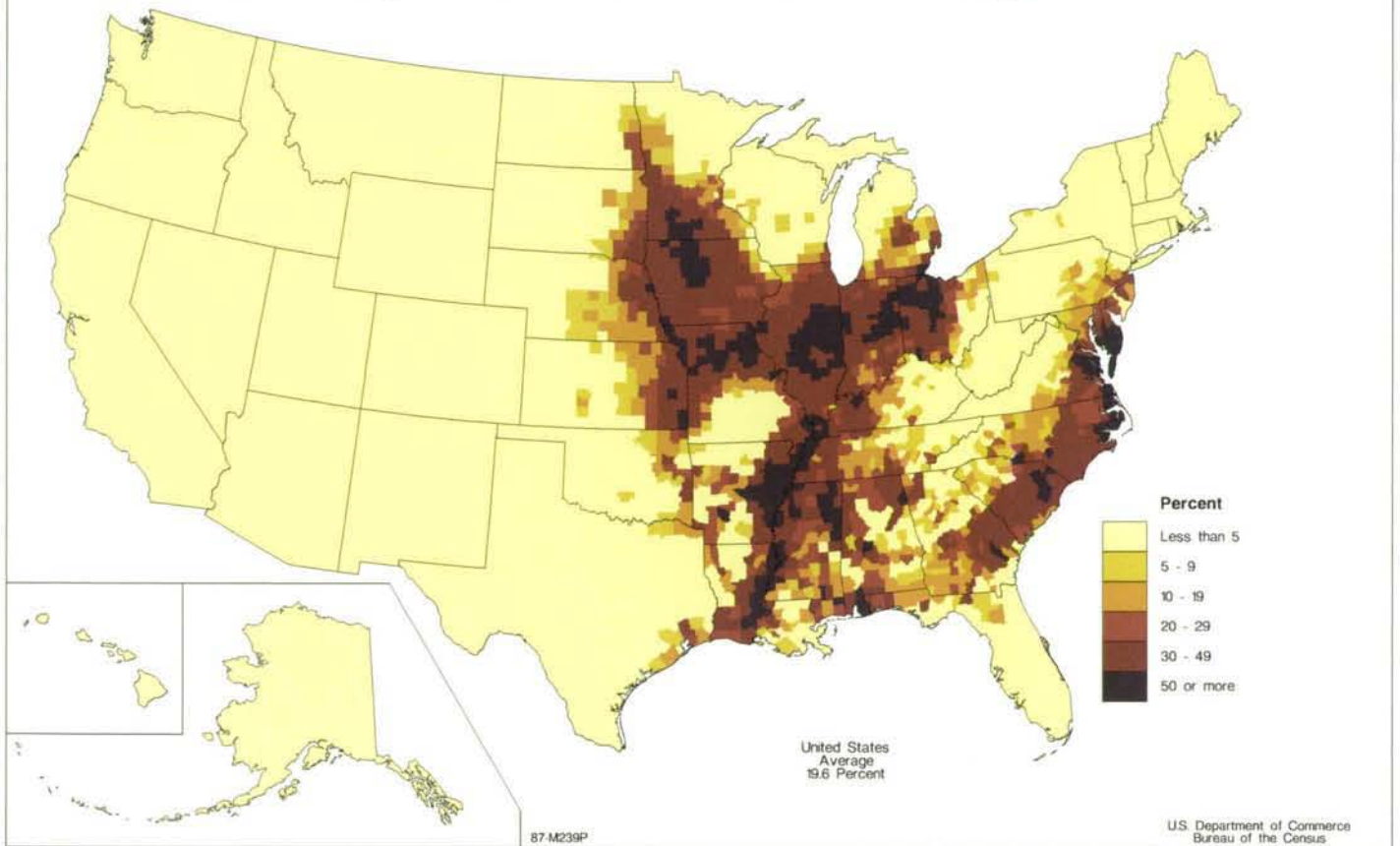


**Soybeans for Beans by County: 1987**





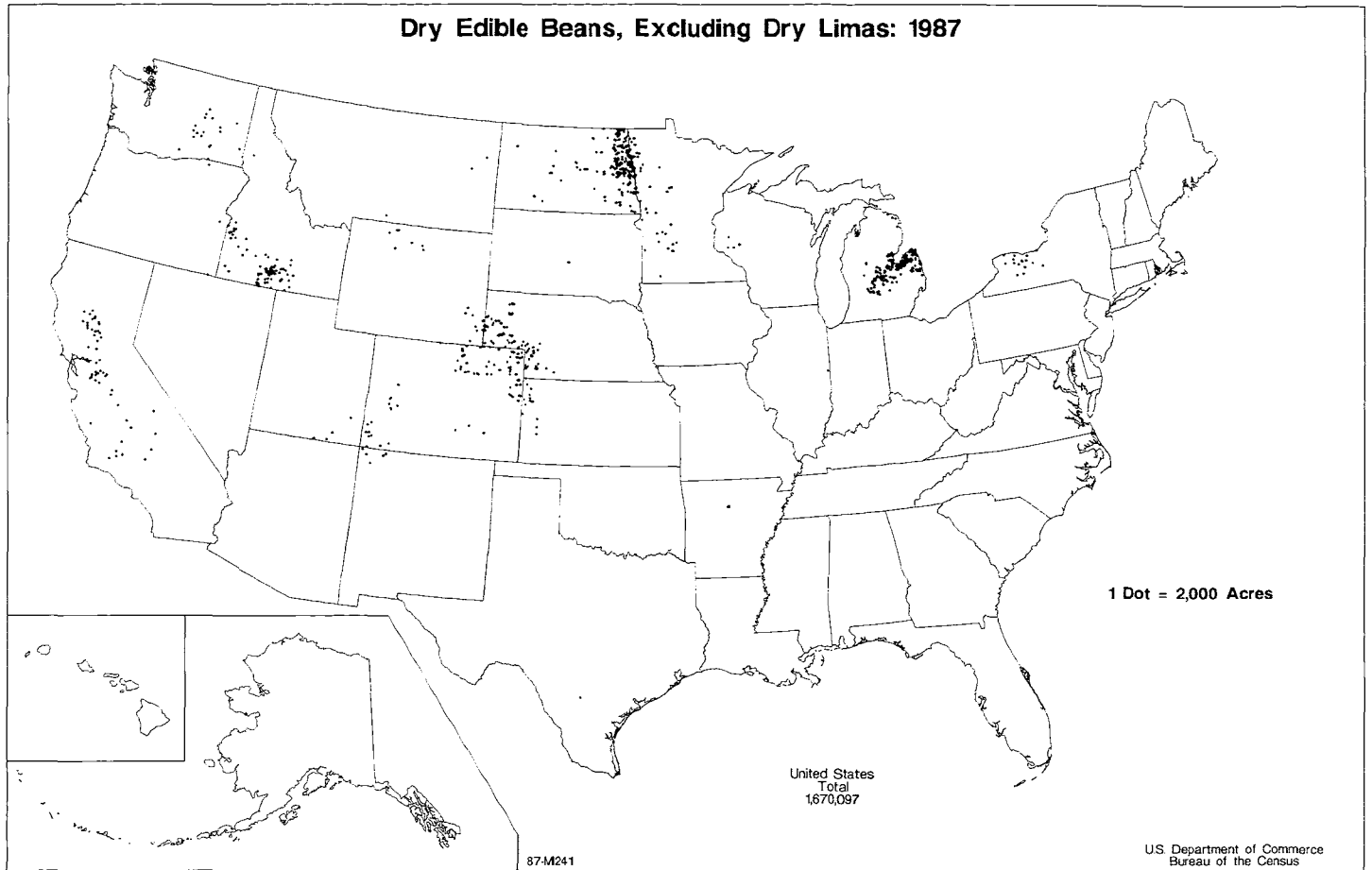
**Acres of Soybeans for Beans as Percent of Harvested Cropland: 1987**



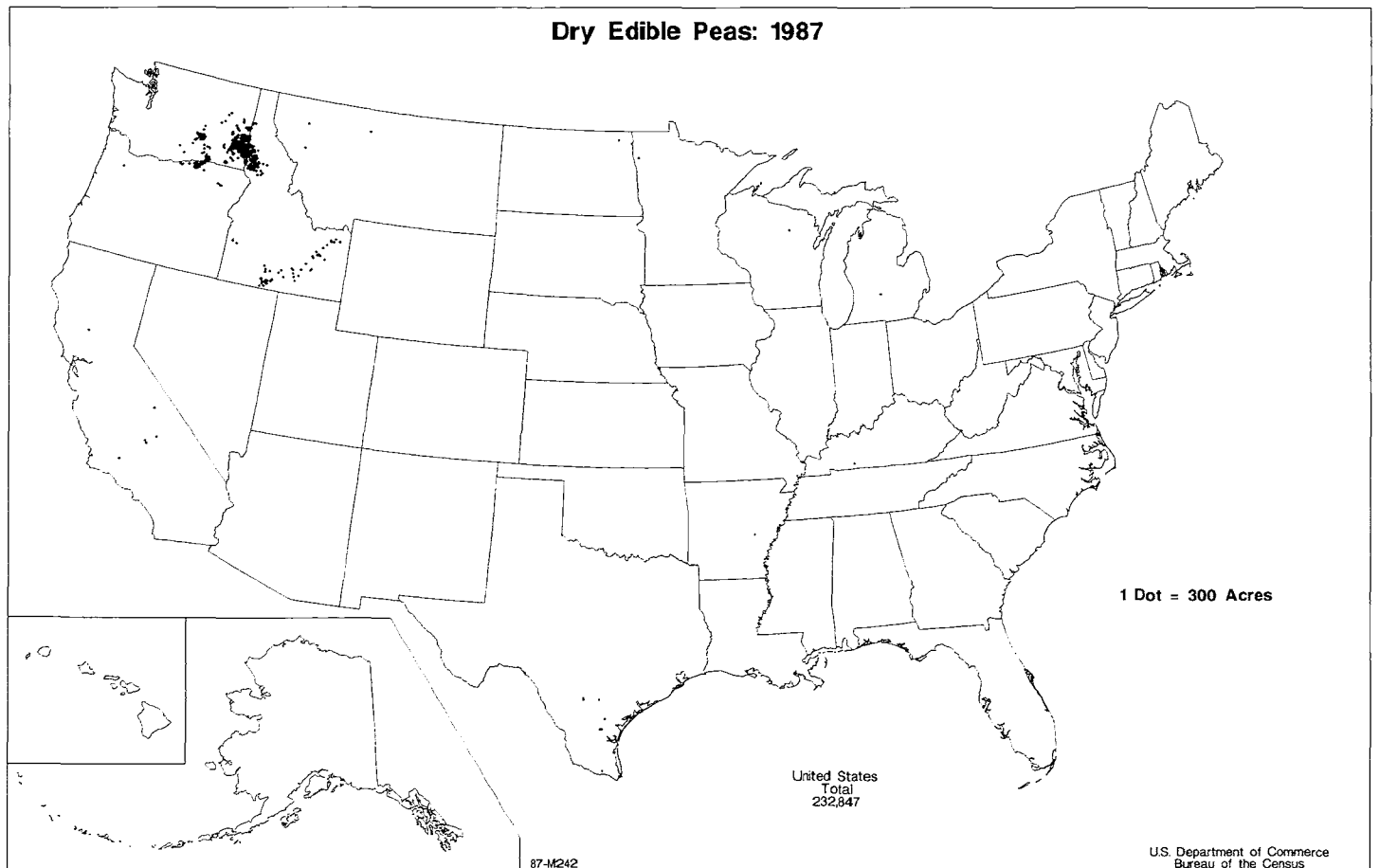
**Peanuts for Nuts: 1987**



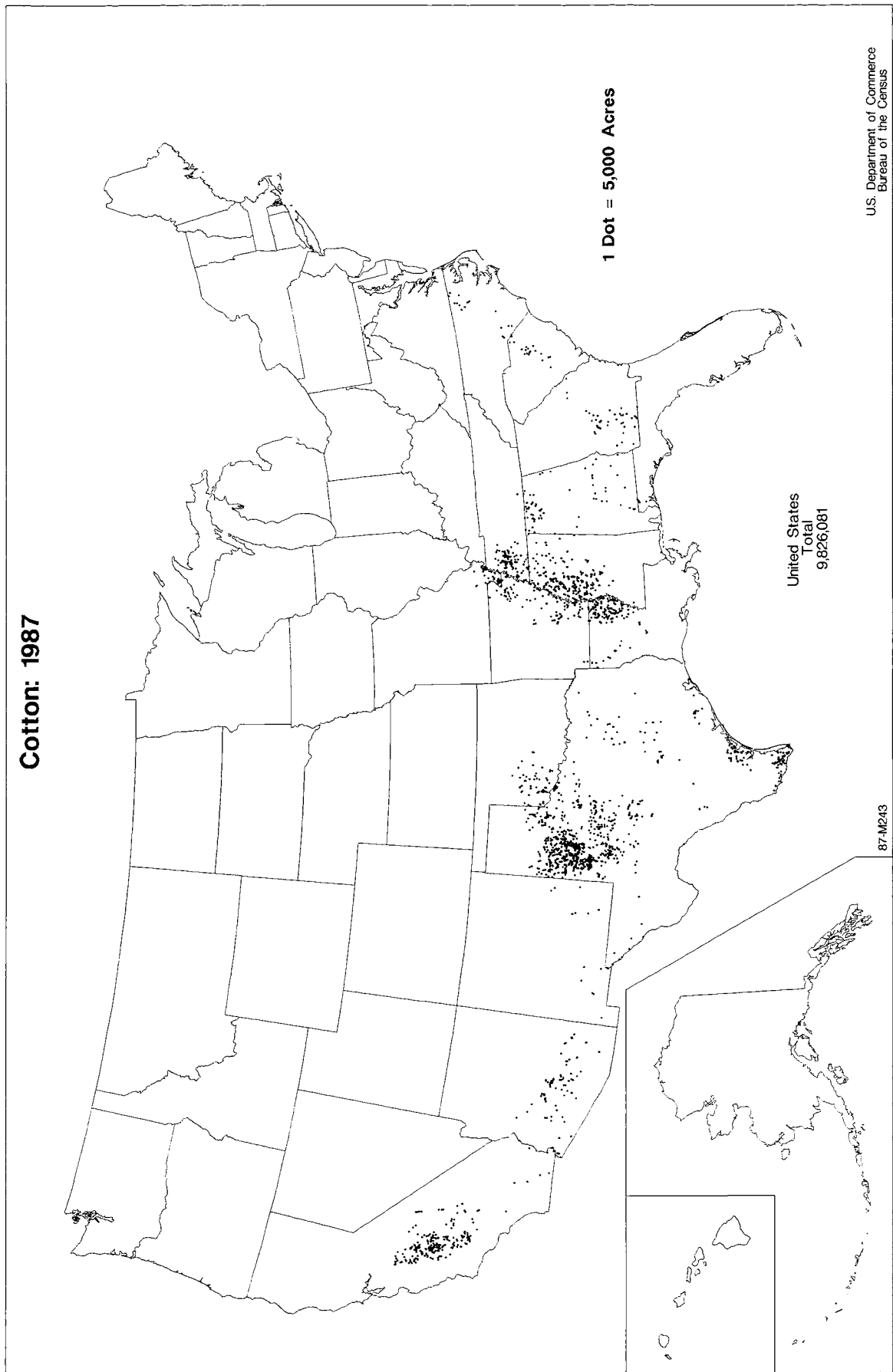
### Dry Edible Beans, Excluding Dry Limas: 1987



### Dry Edible Peas: 1987



**Cotton: 1987**

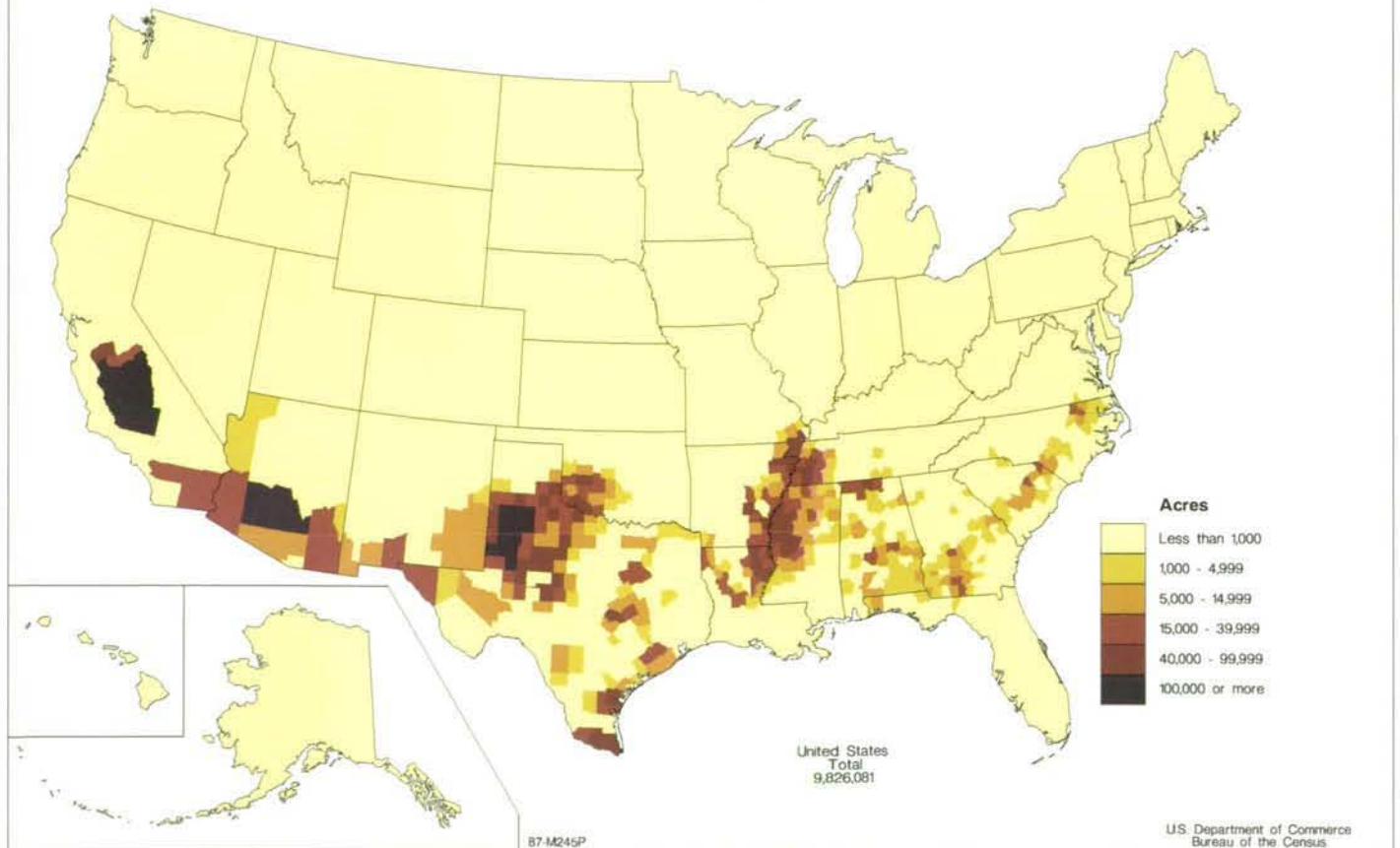




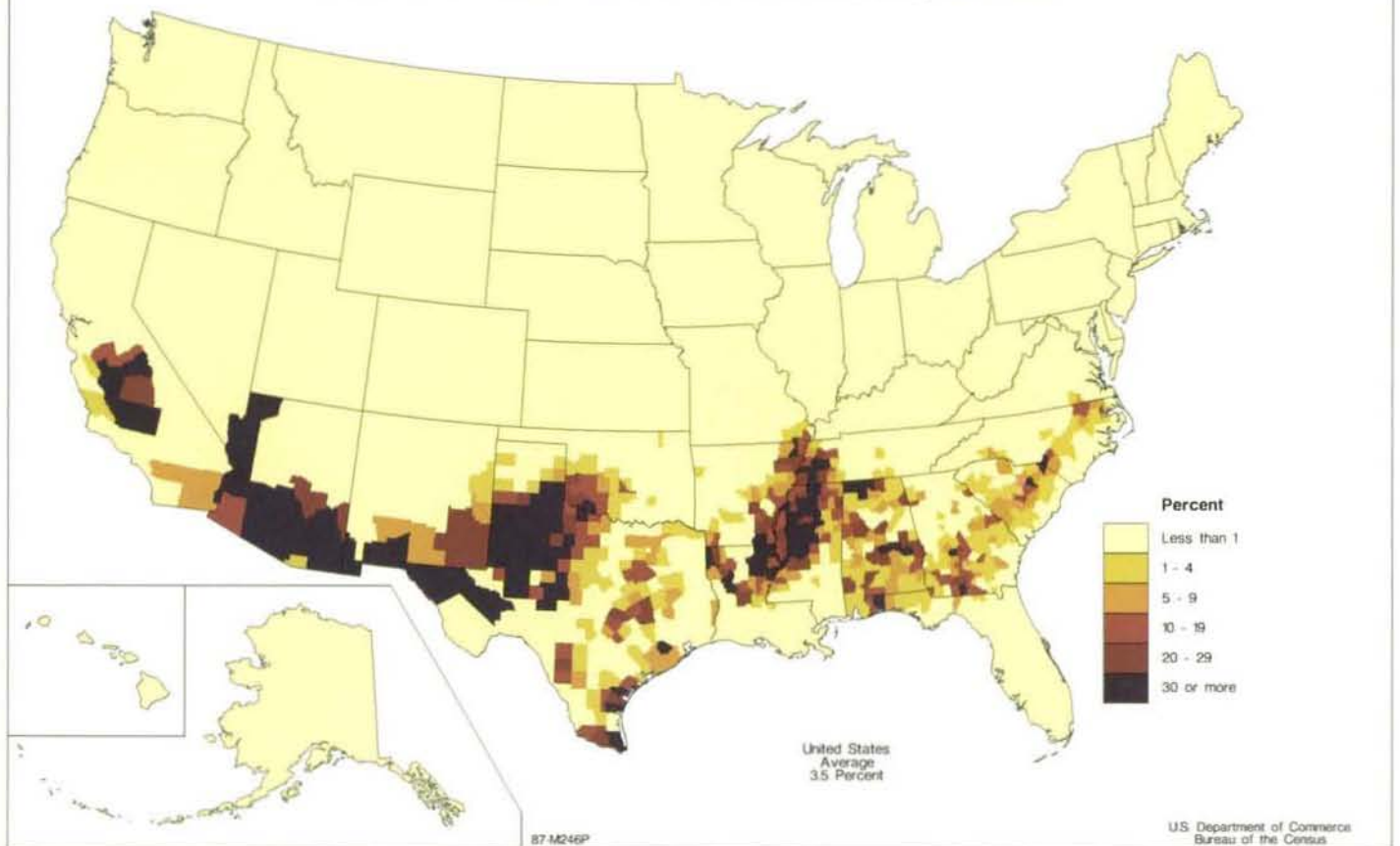
**Cotton - Change in Acreage: 1982 to 1987**



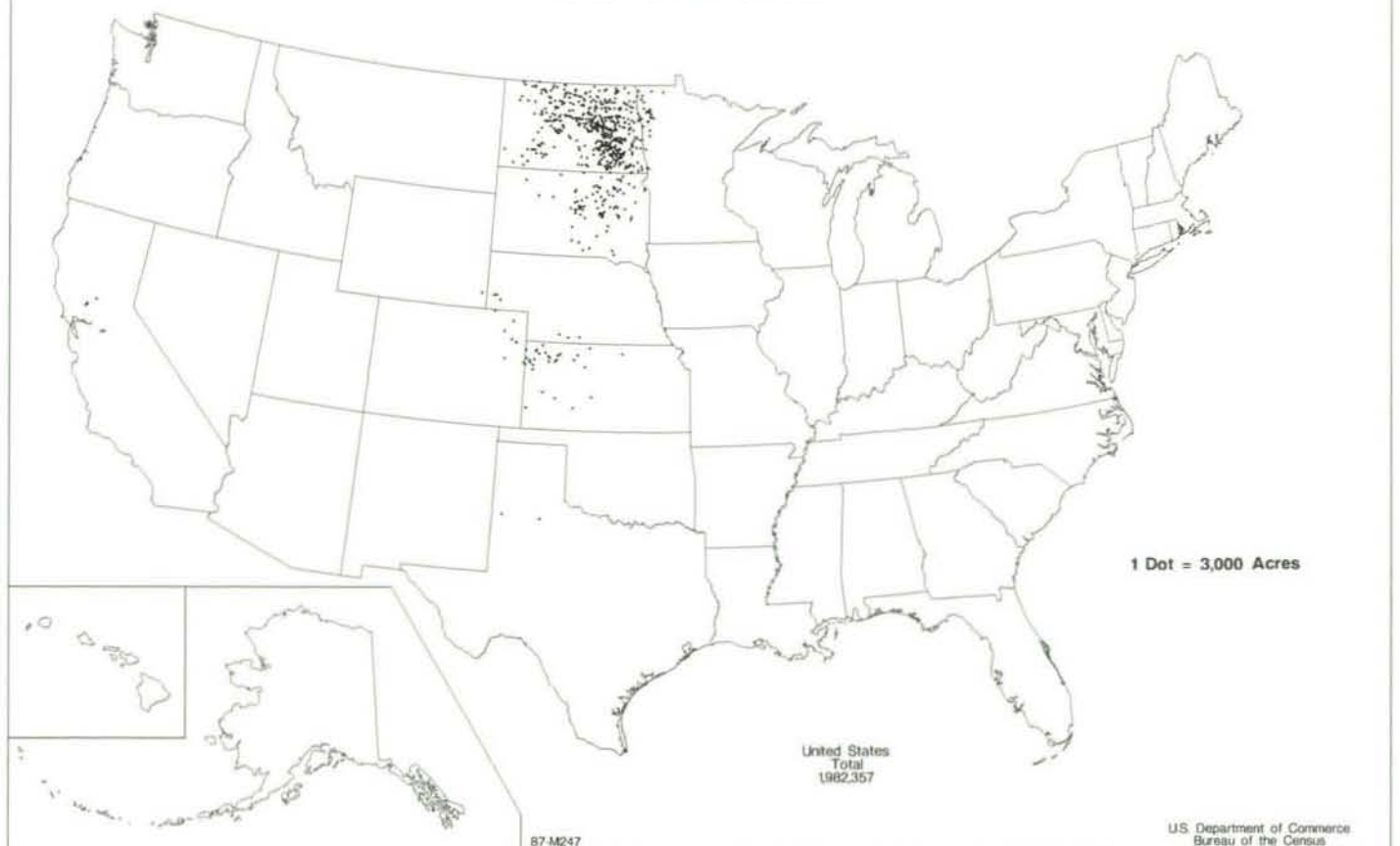
**Cotton by County: 1987**



Acres of Cotton as Percent of Harvested Cropland: 1987



Sunflower Seed: 1987



### Sugar Beets for Sugar: 1987

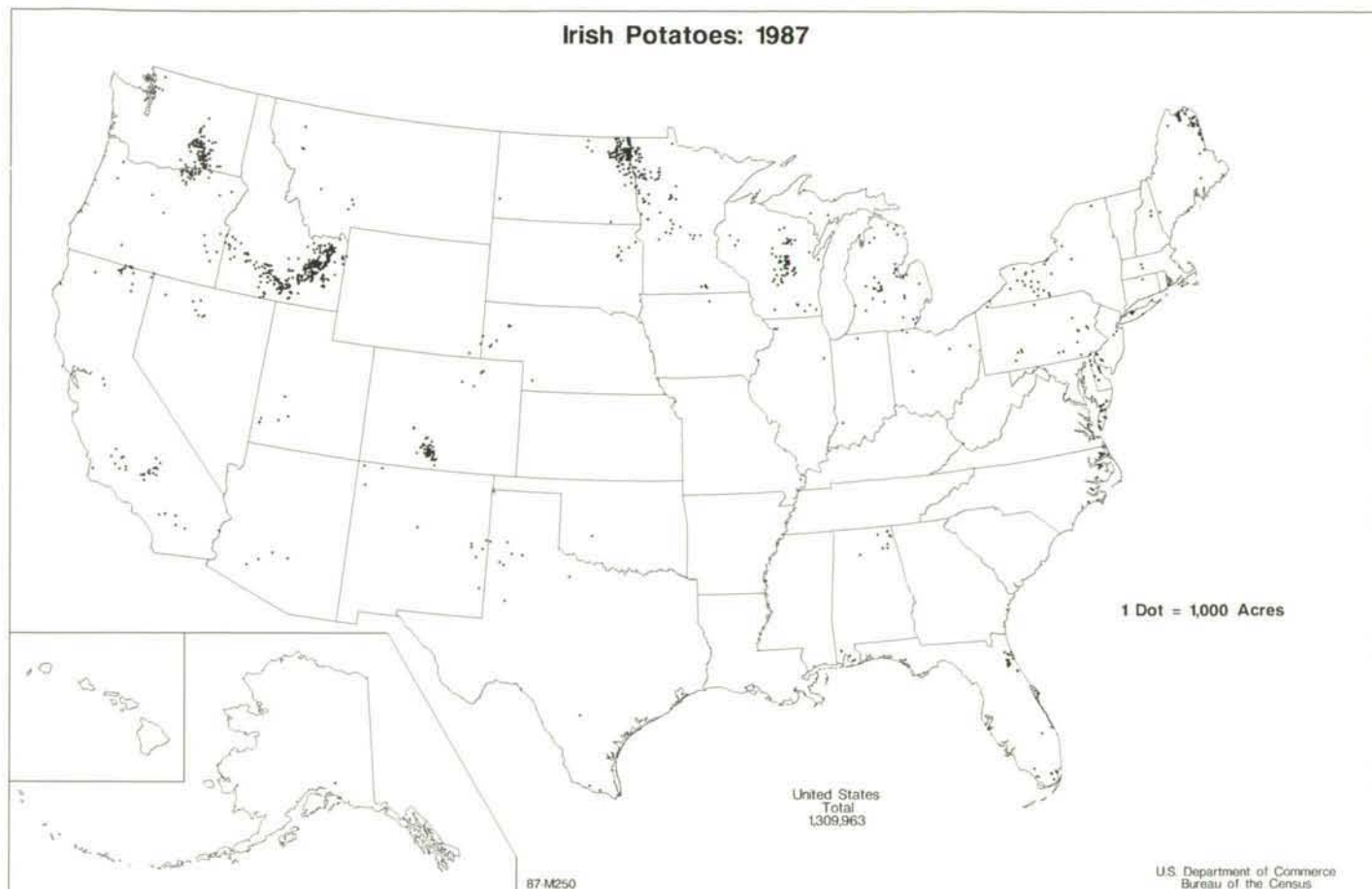


### Sugarcane for Sugar: 1987

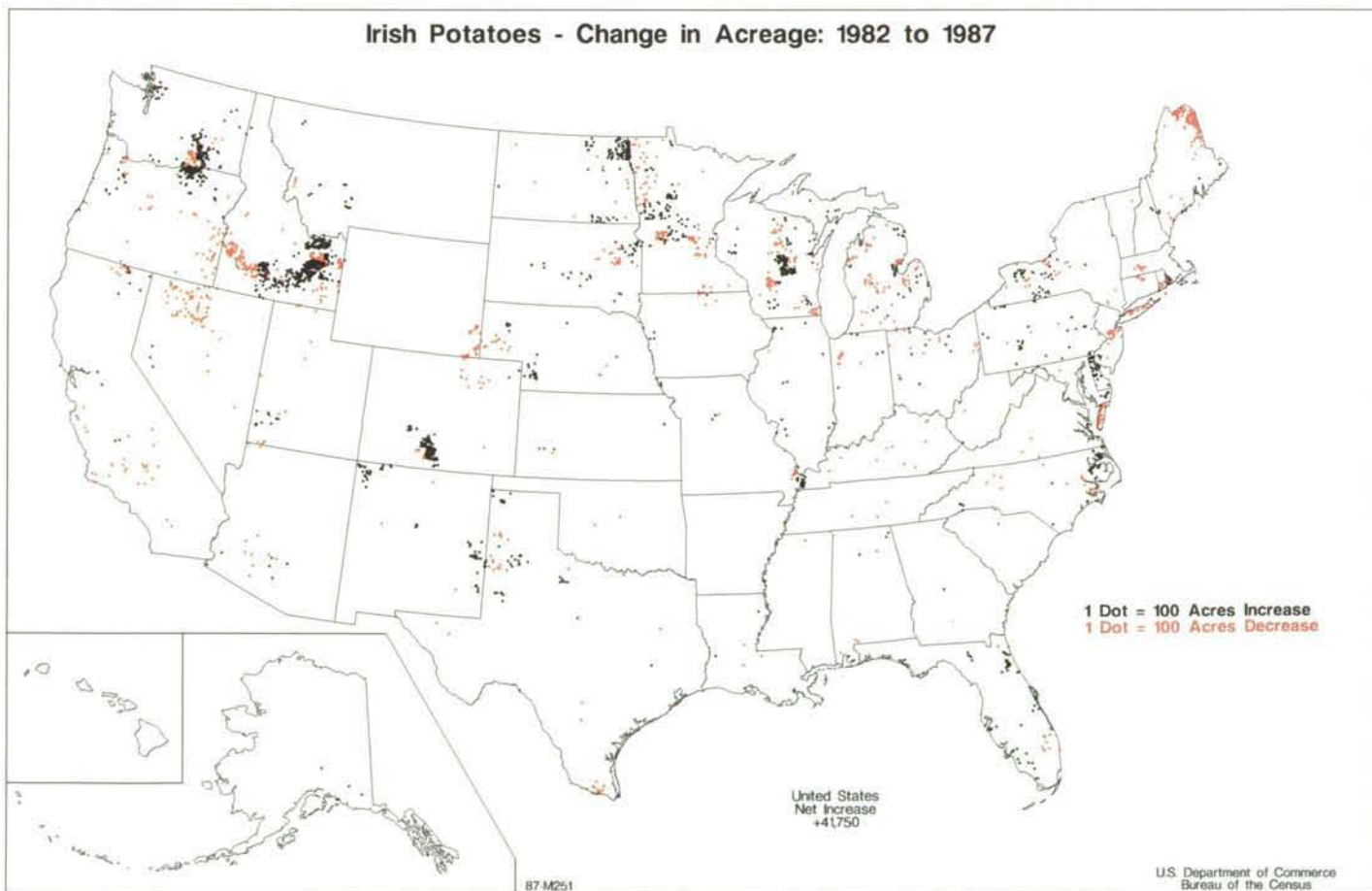




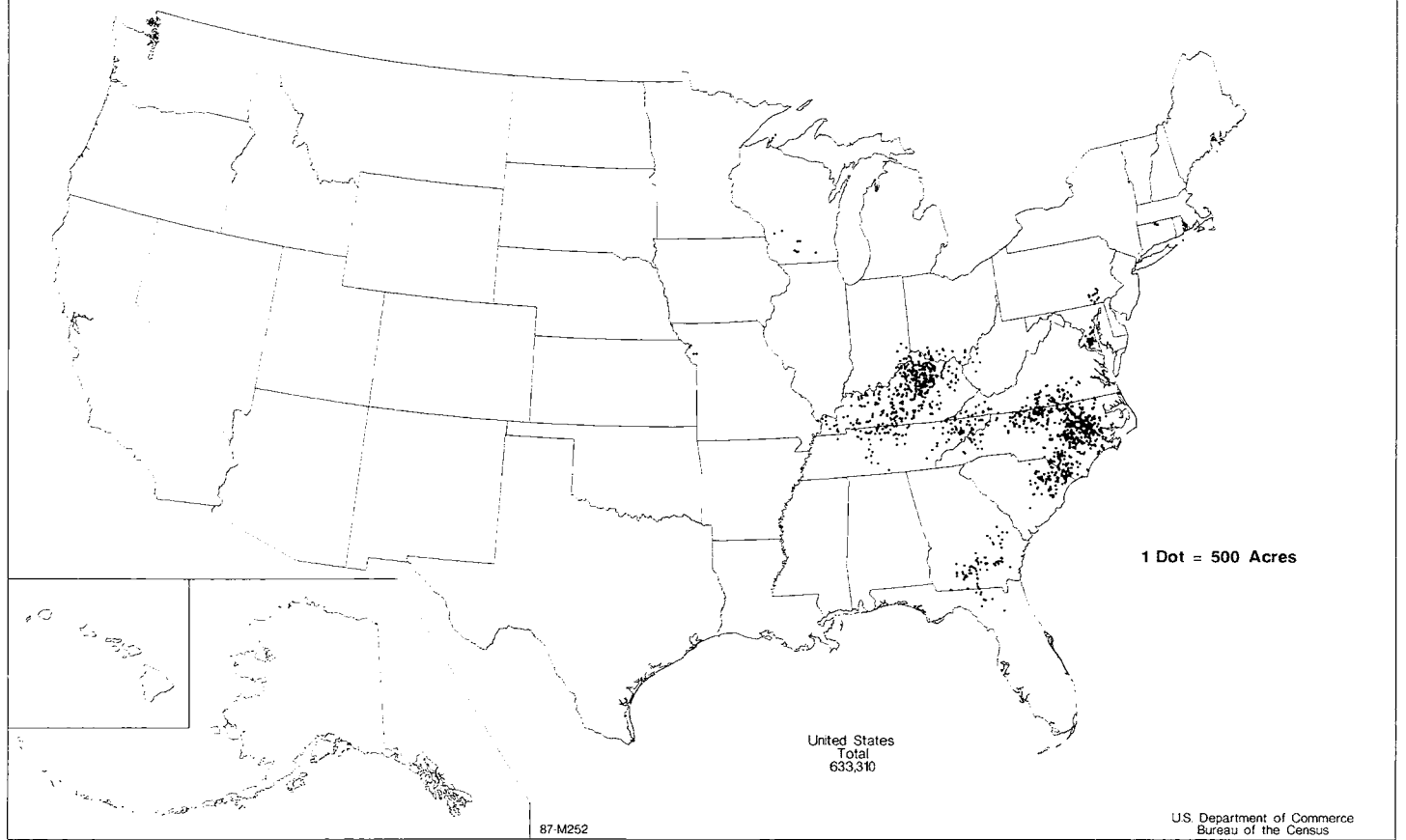
# Irish Potatoes: 1987



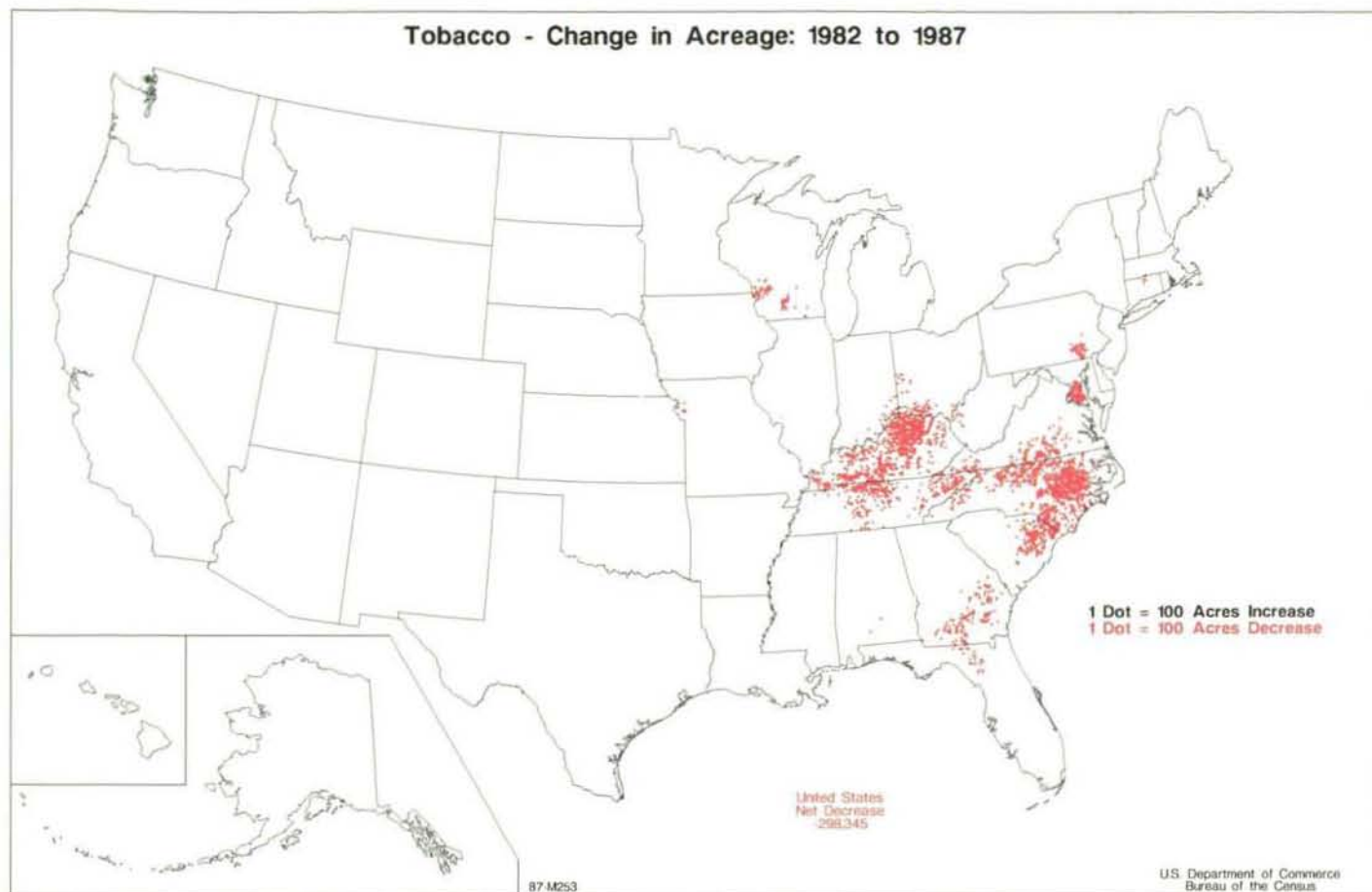
# Irish Potatoes - Change in Acreage: 1982 to 1987



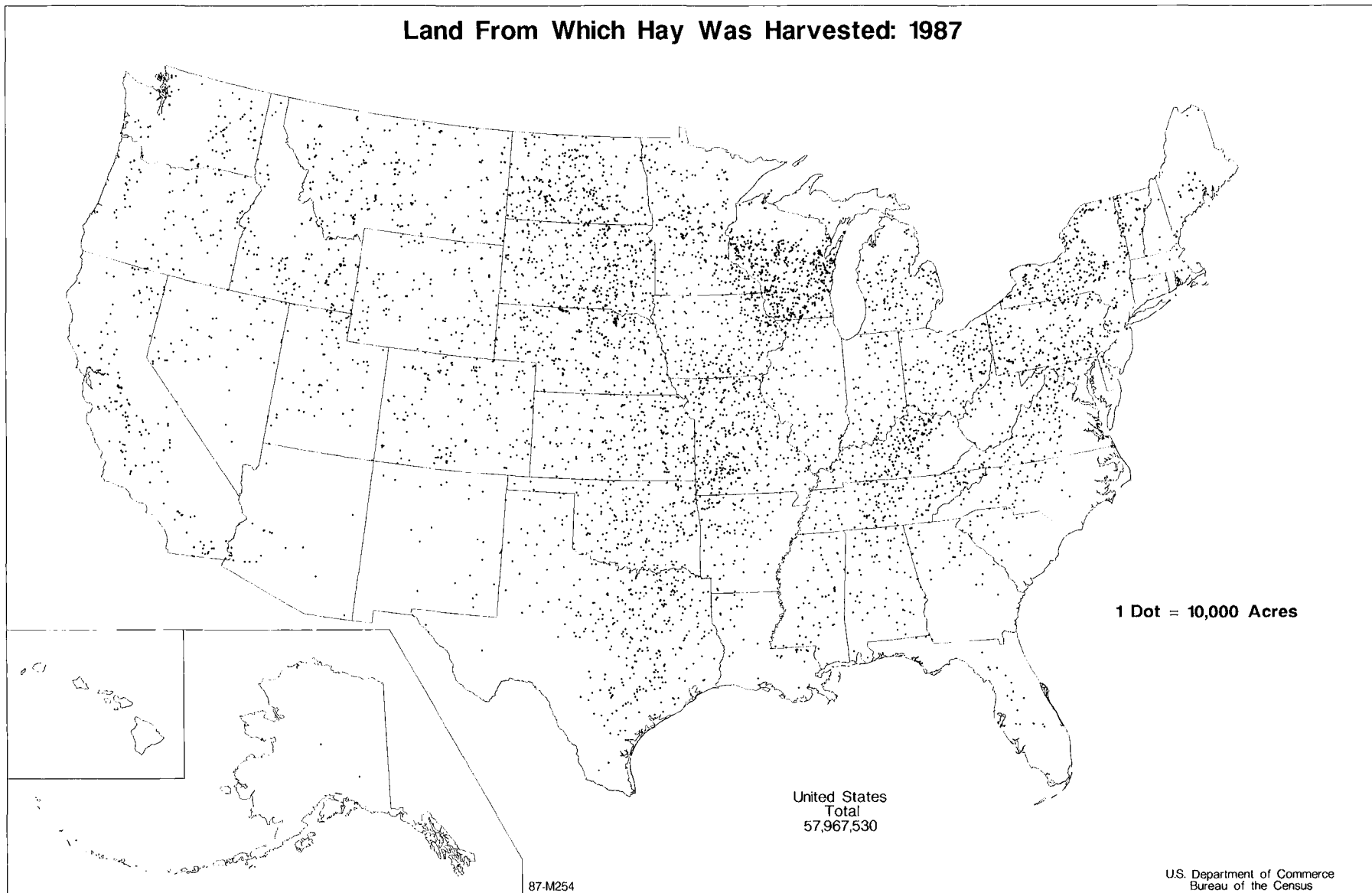
# Tobacco: 1987



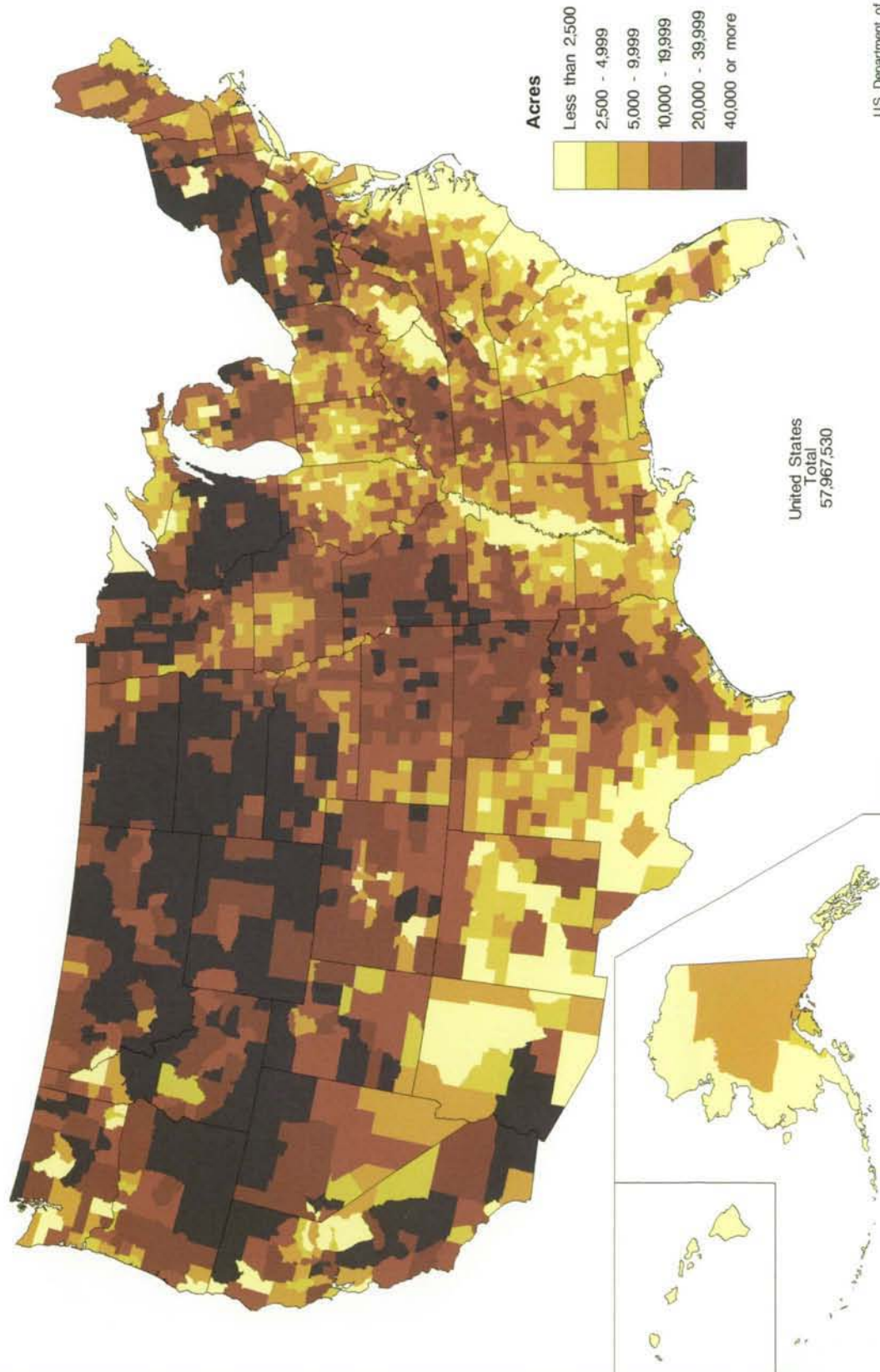
**Tobacco - Change in Acreage: 1982 to 1987**





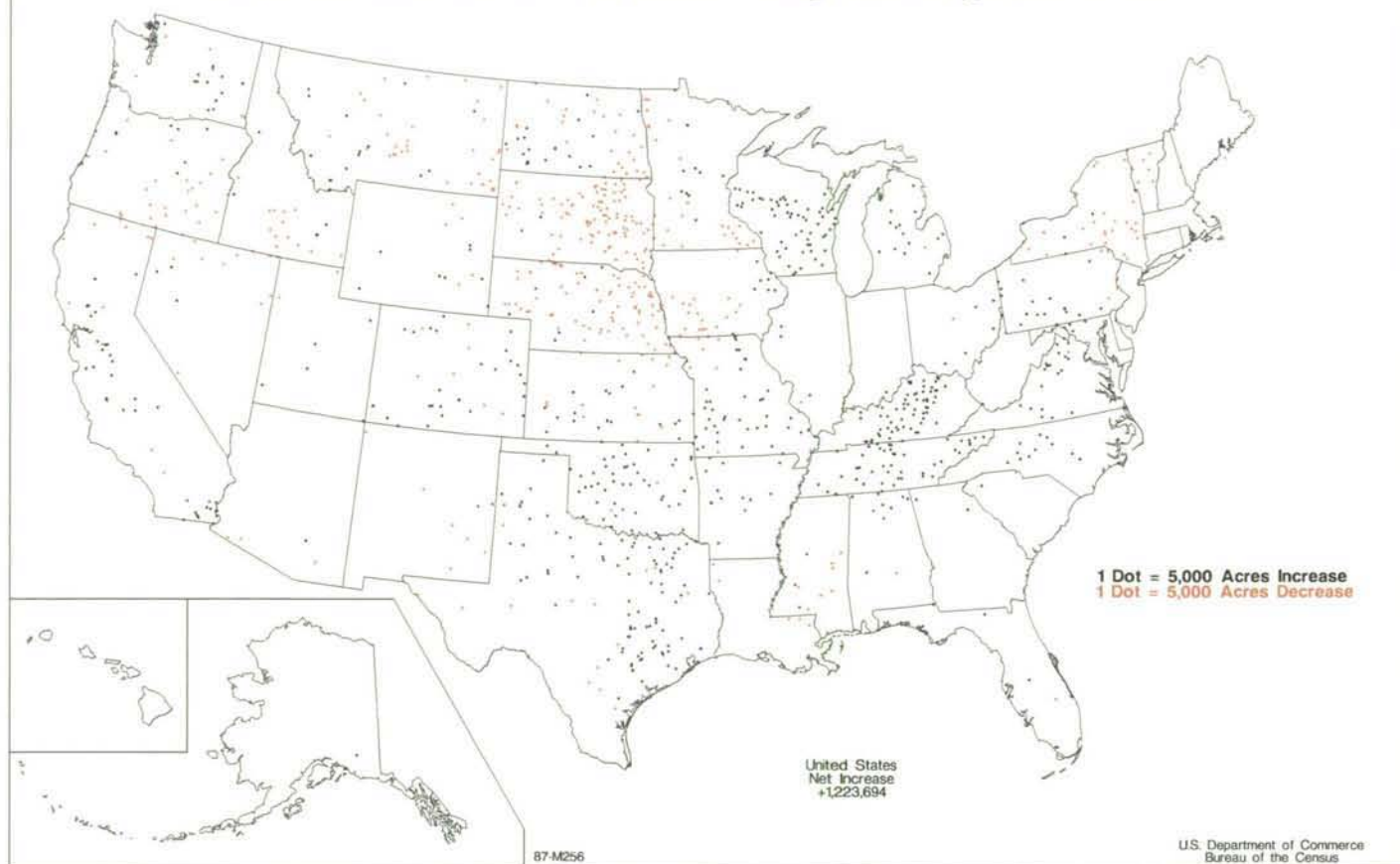


# Land From Which Hay Was Harvested by County: 1987

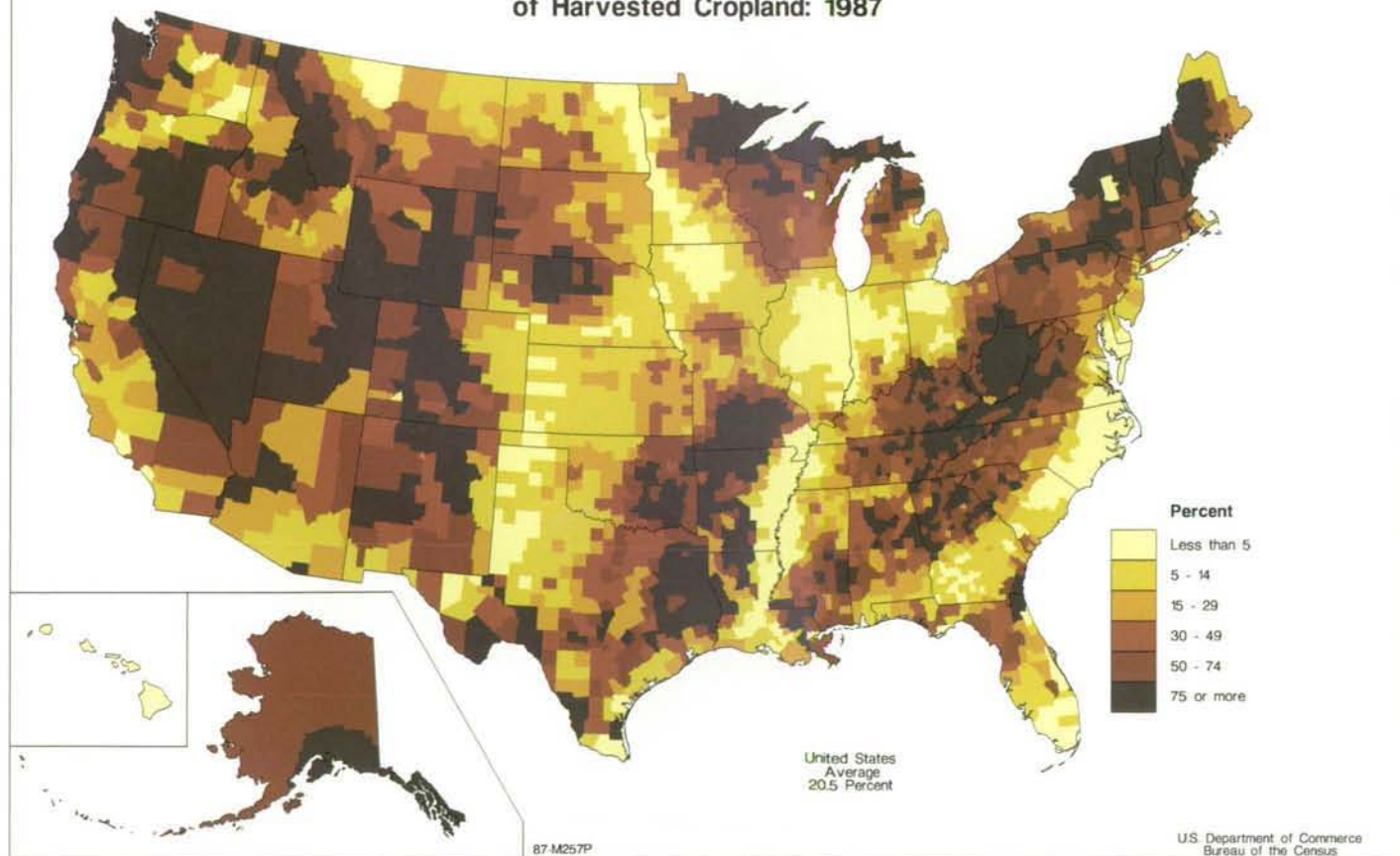


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Land From Which Hay Was Harvested - Change in Acreage: 1982 to 1987

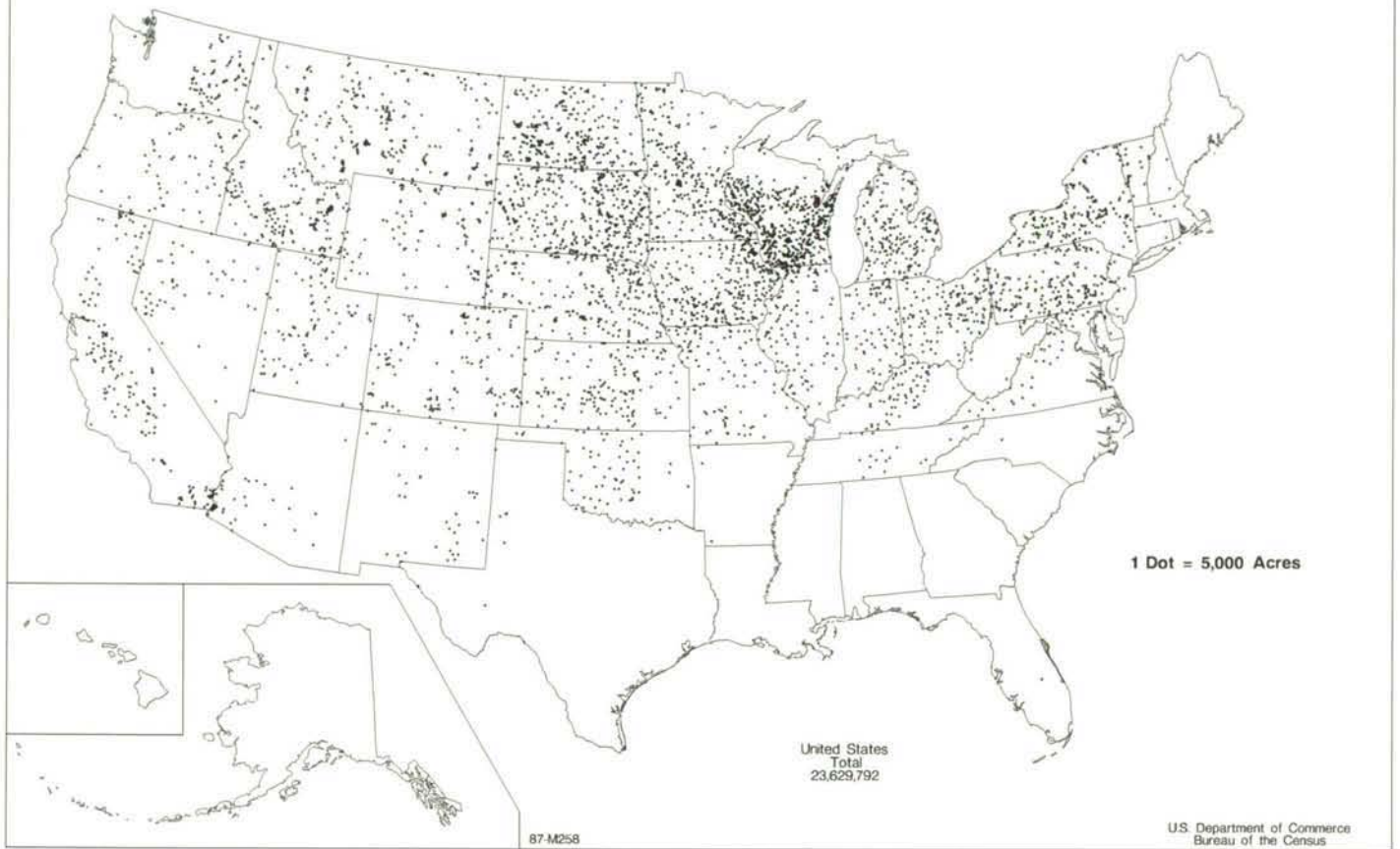


Land From Which Hay Was Harvested as Percent of Harvested Cropland: 1987

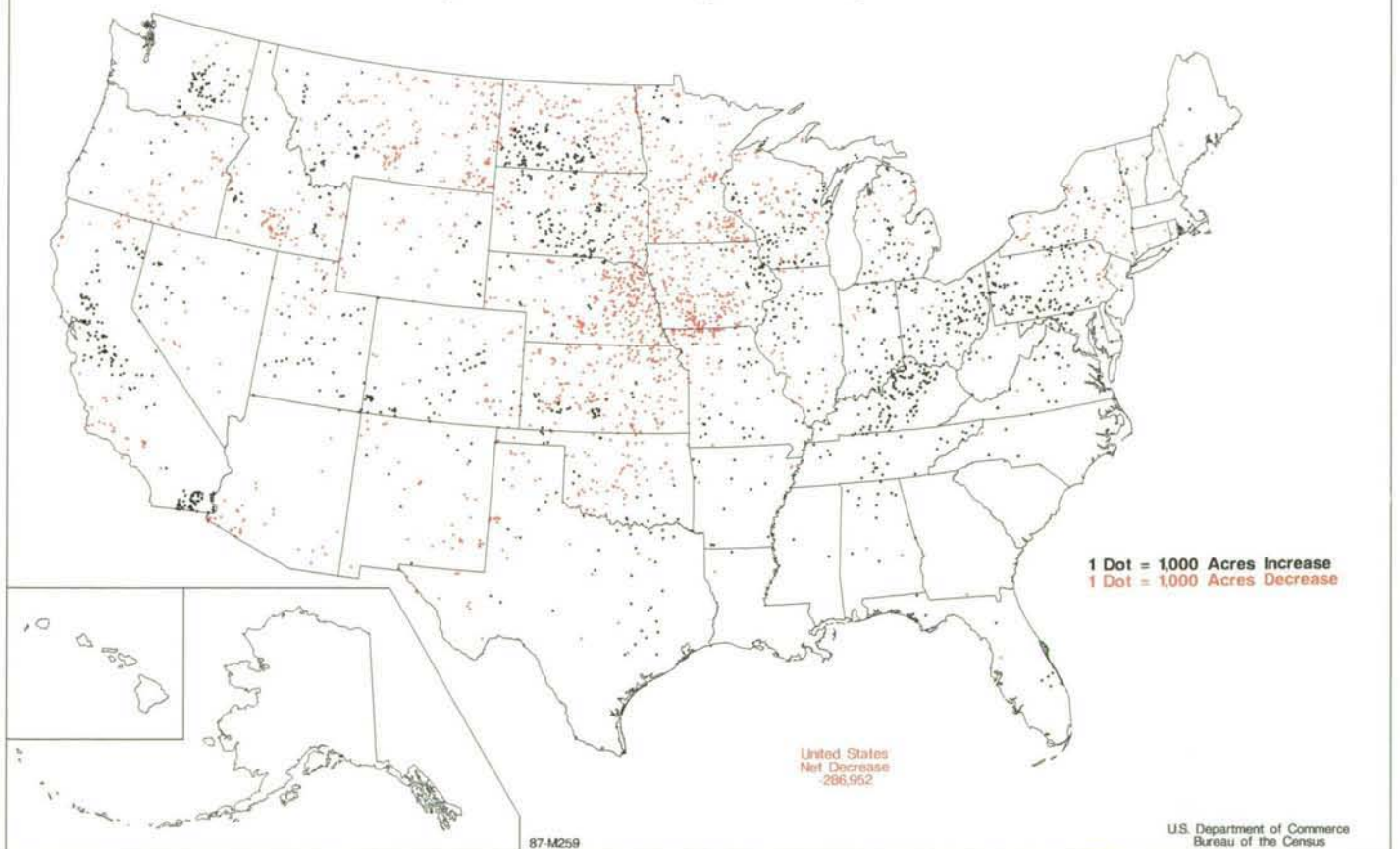




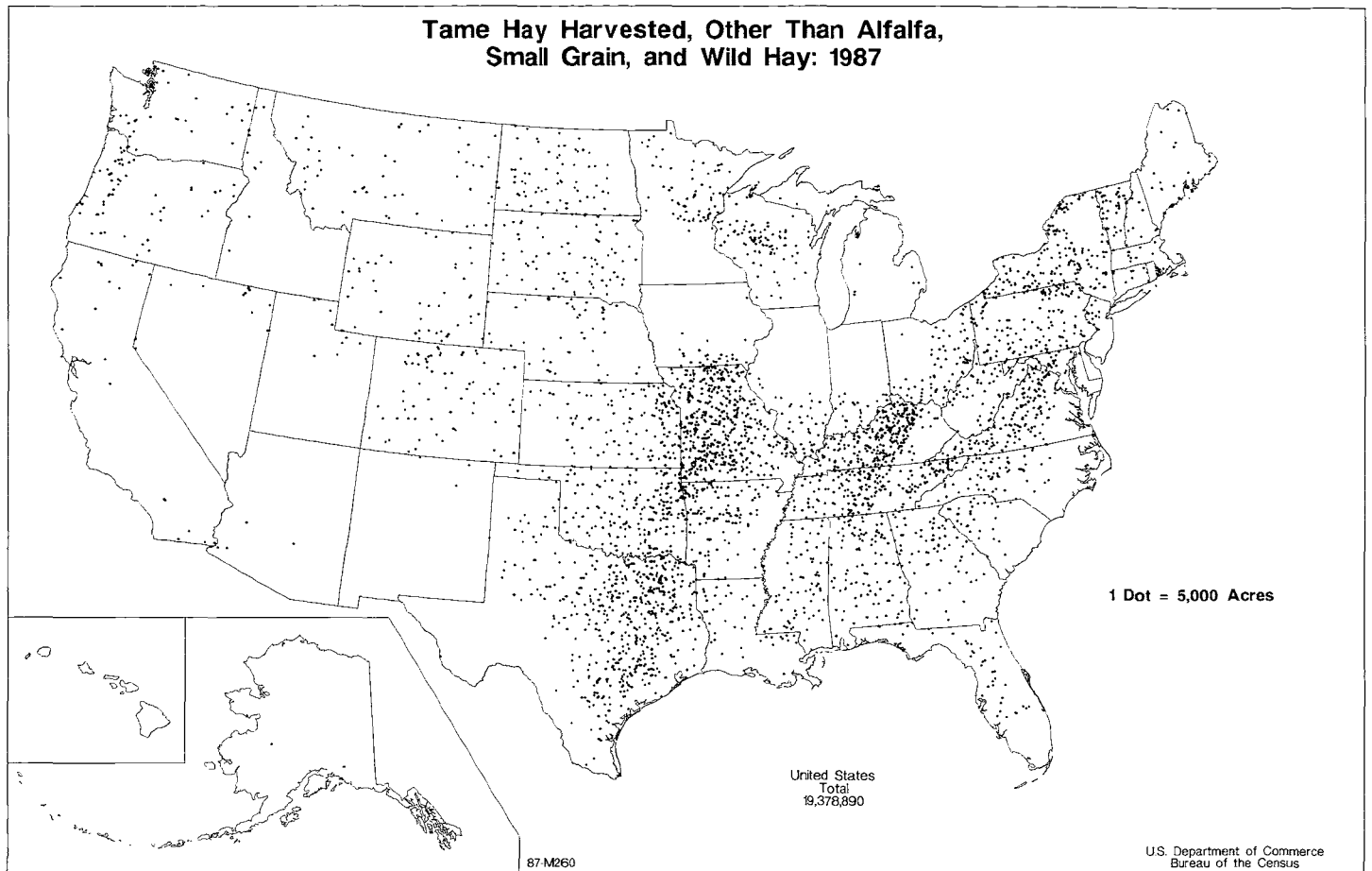
### Alfalfa Hay Harvested: 1987



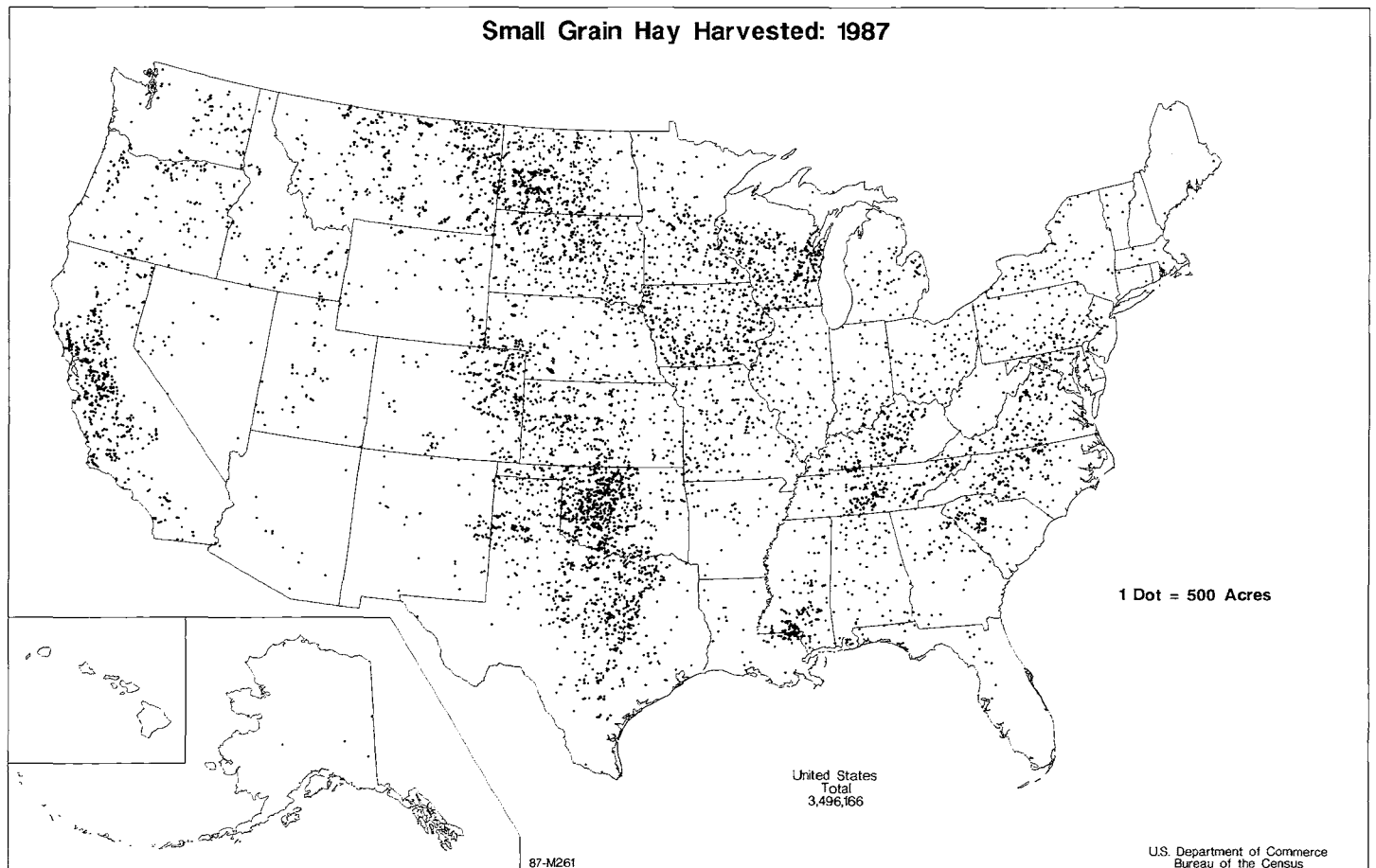
### Alfalfa Hay Harvested - Change in Acreage: 1982 to 1987



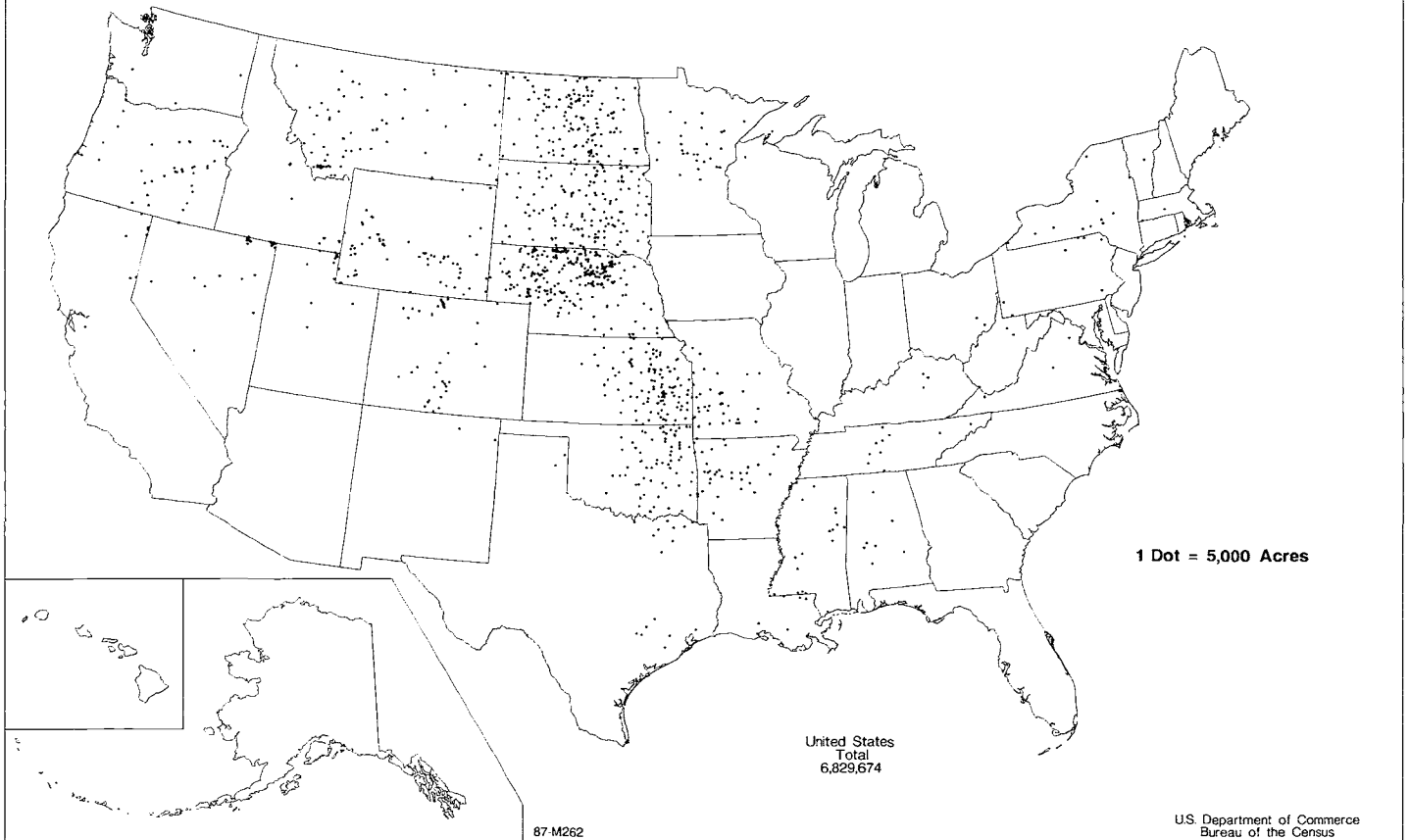
**Tame Hay Harvested, Other Than Alfalfa,  
Small Grain, and Wild Hay: 1987**



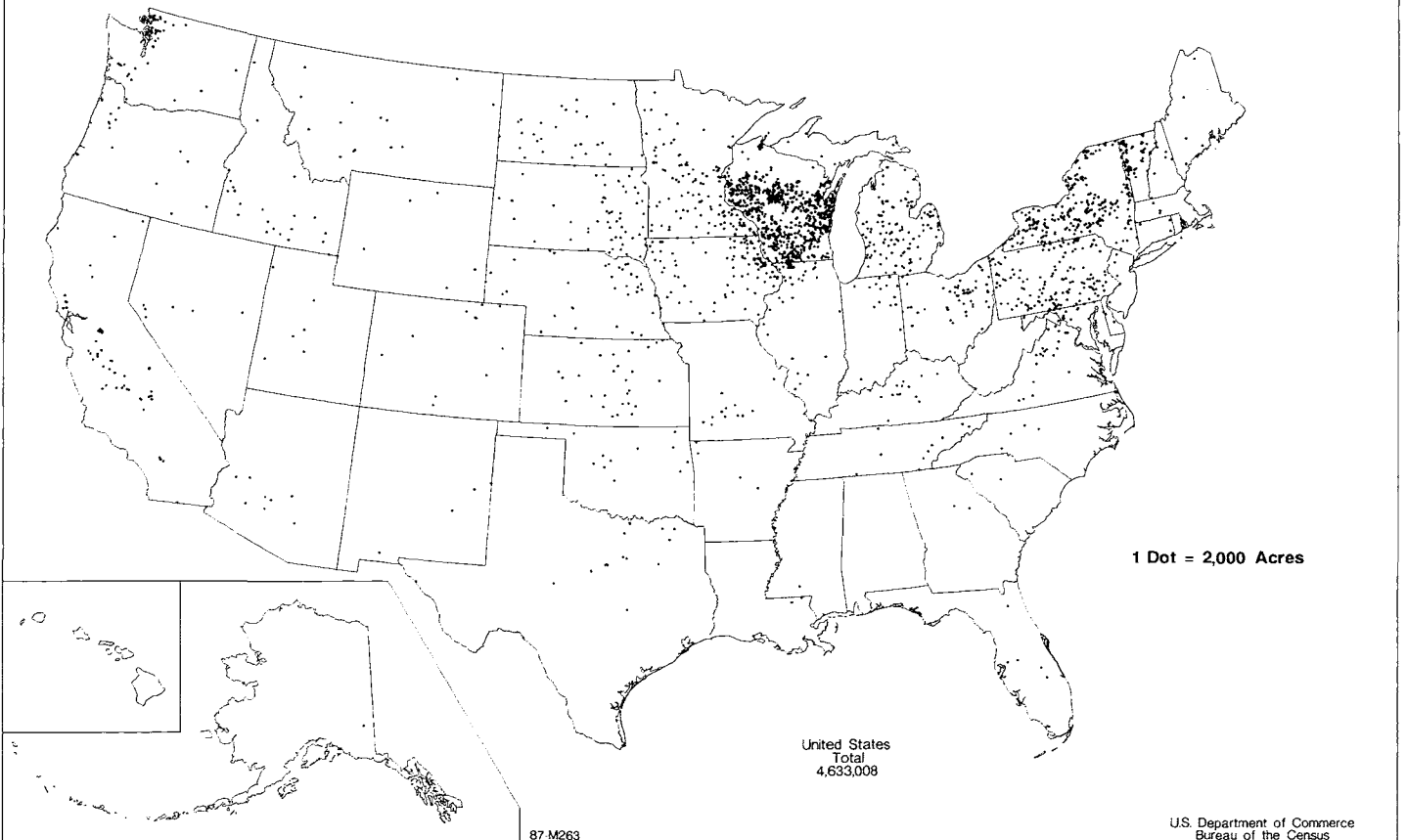
**Small Grain Hay Harvested: 1987**



### Wild Hay Harvested: 1987

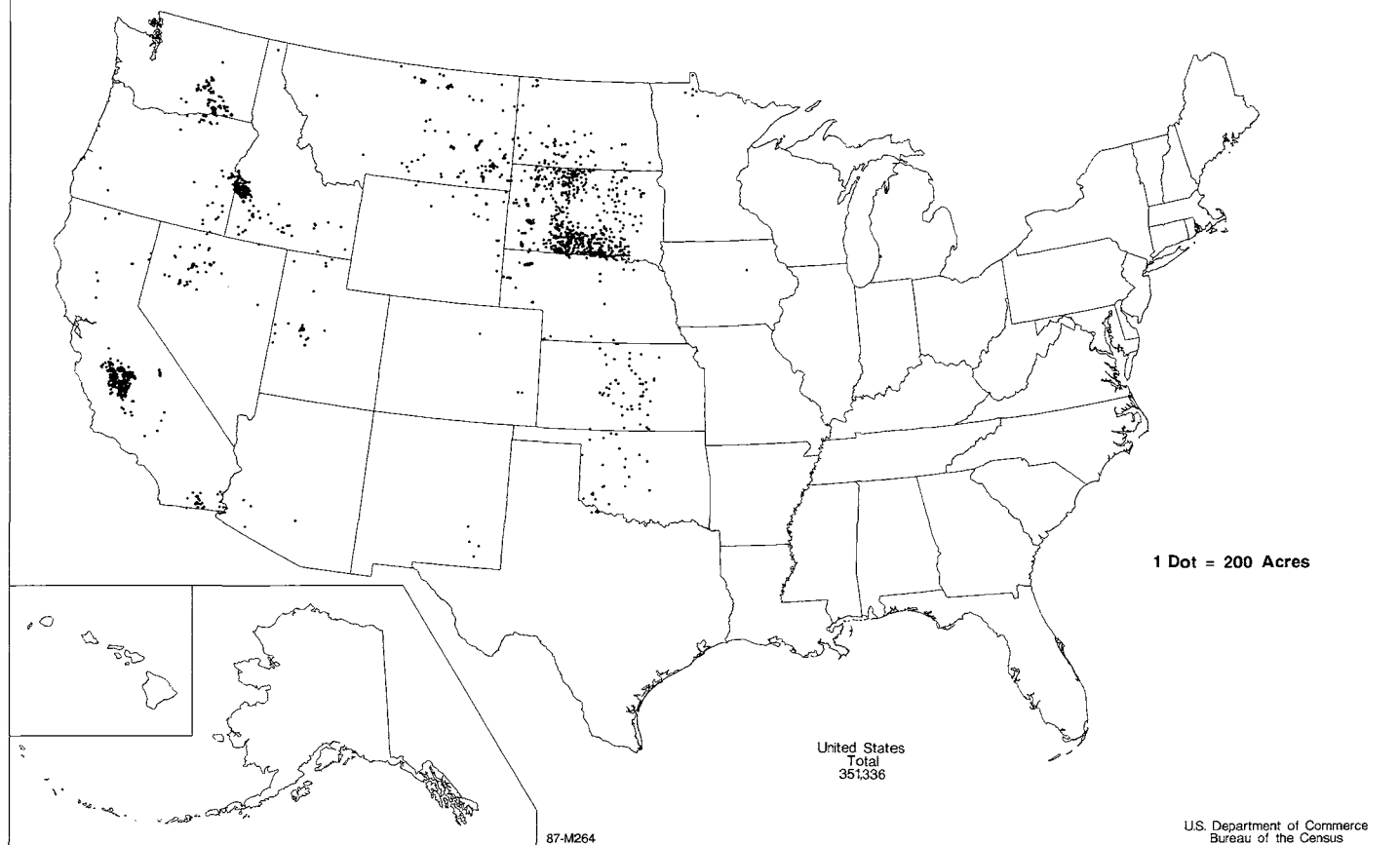


### Grass Silage, Haylage, and Green Chop Hay Harvested: 1987

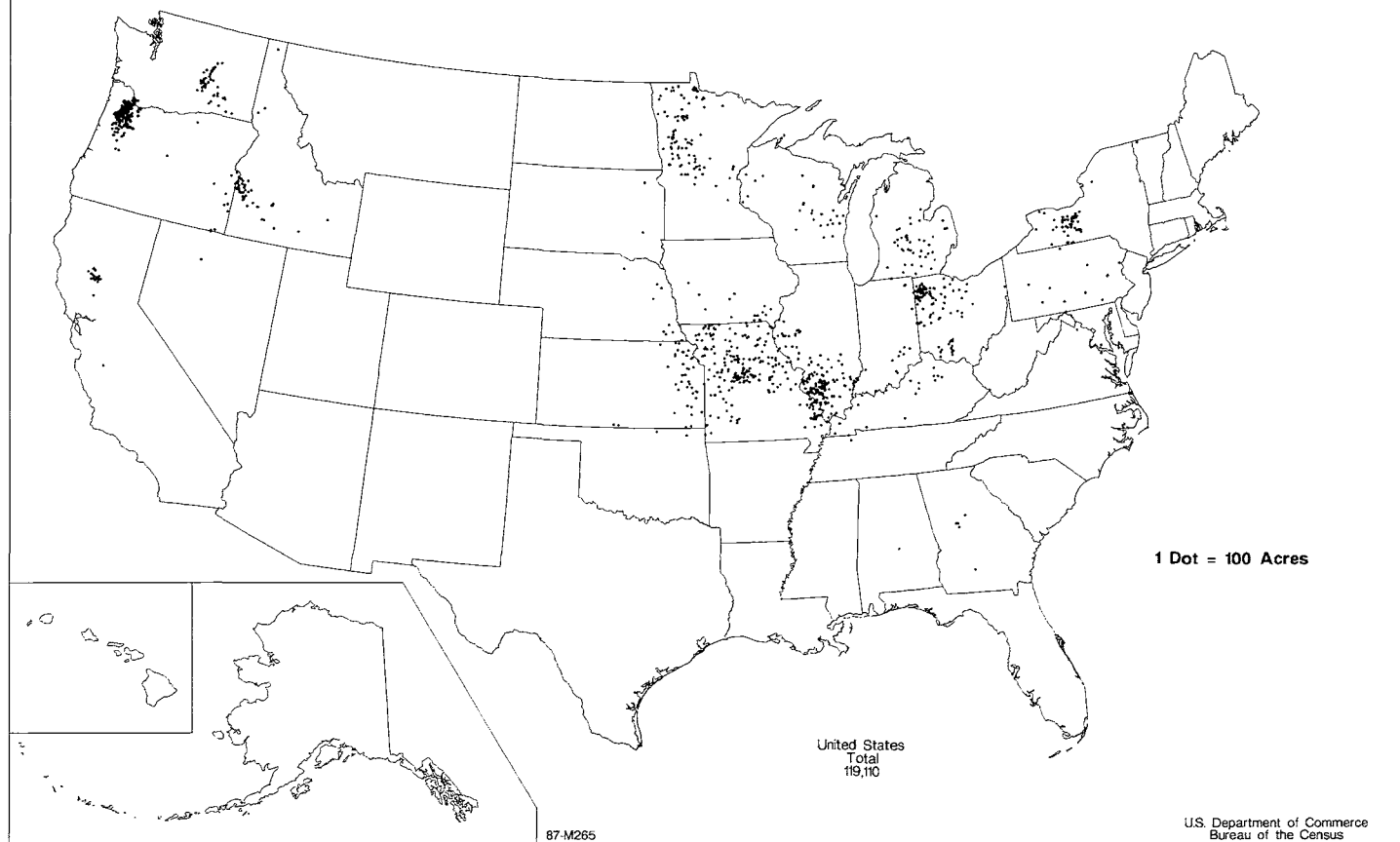




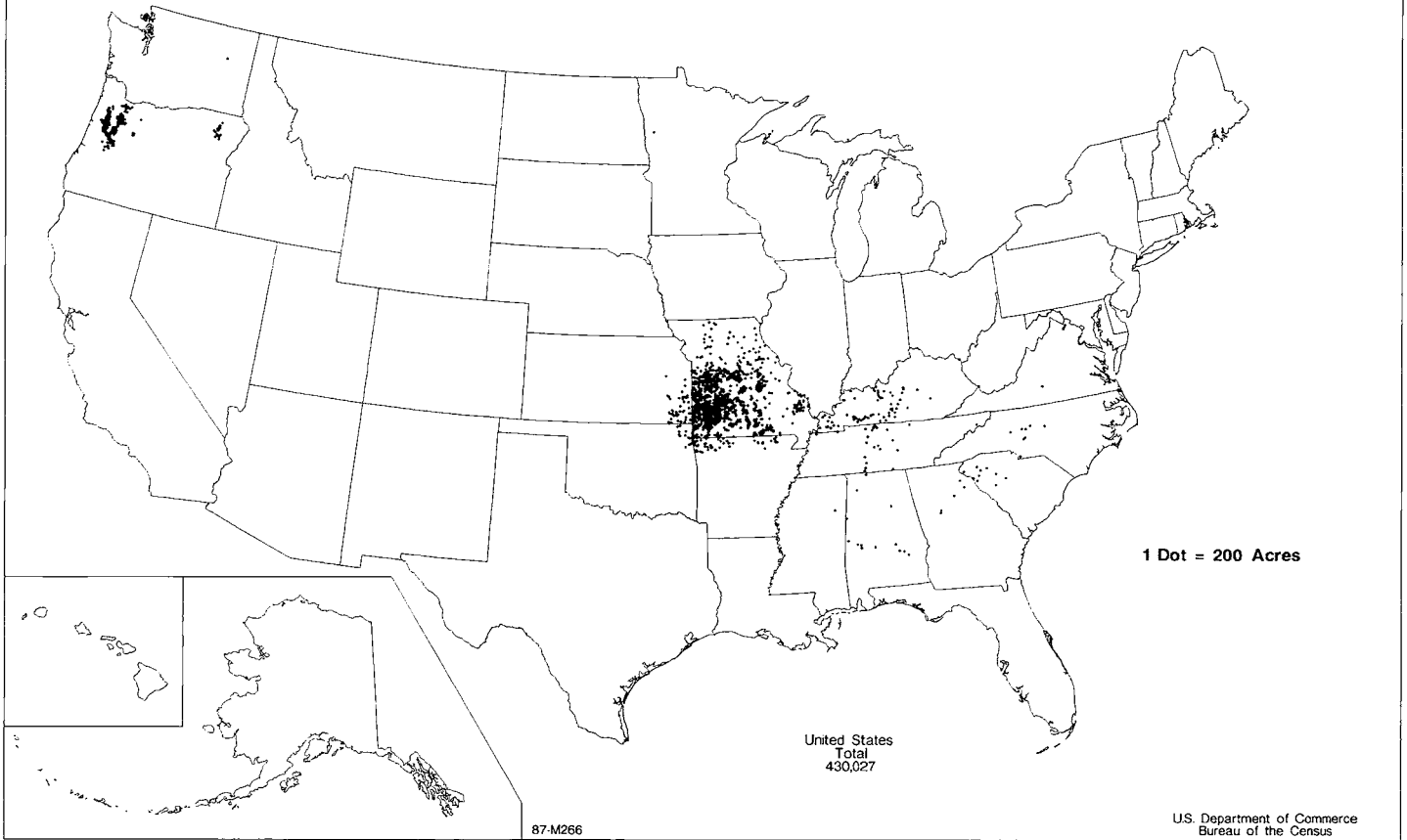
### Alfalfa Seed: 1987



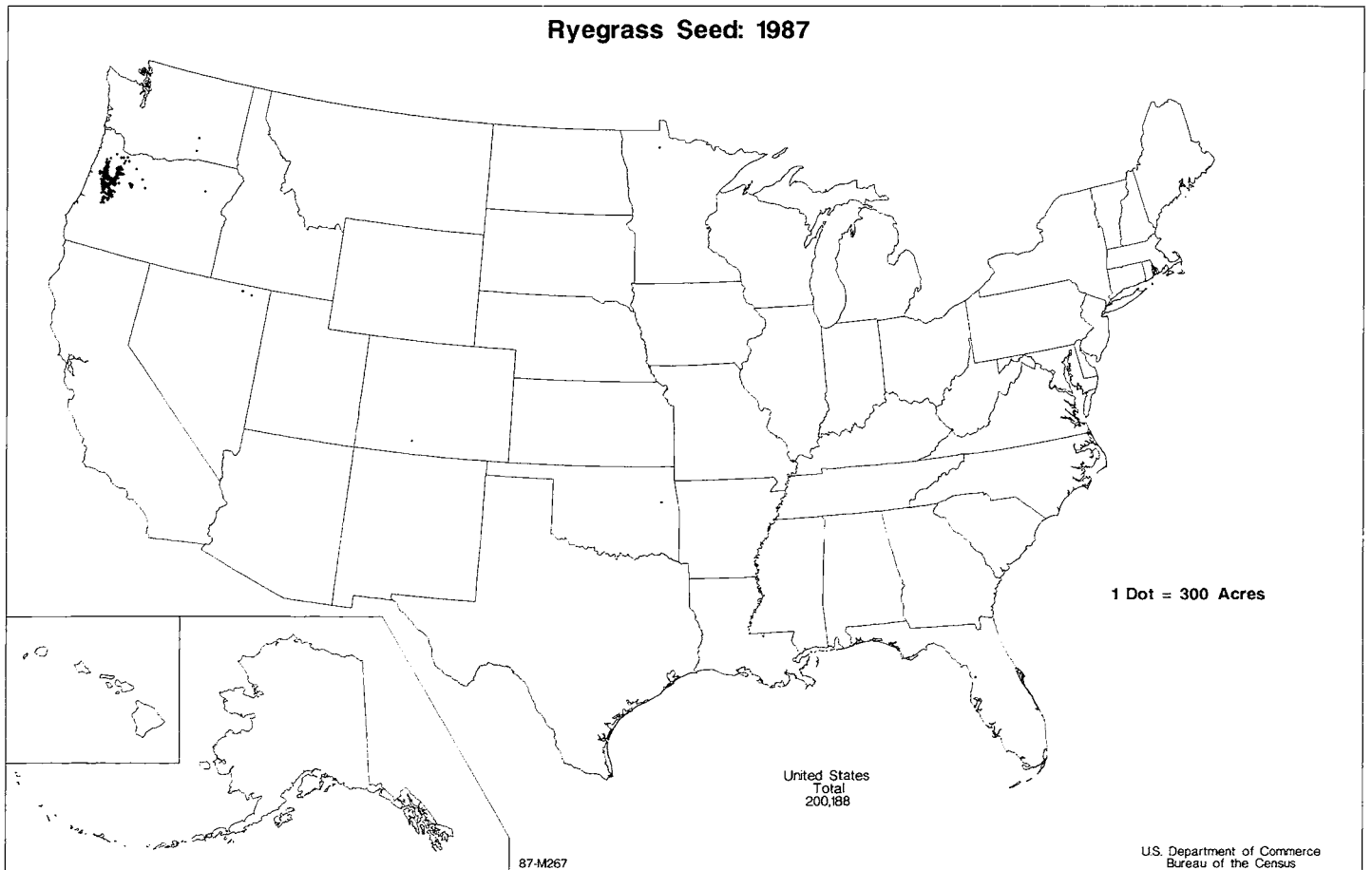
### Red Clover Seed: 1987



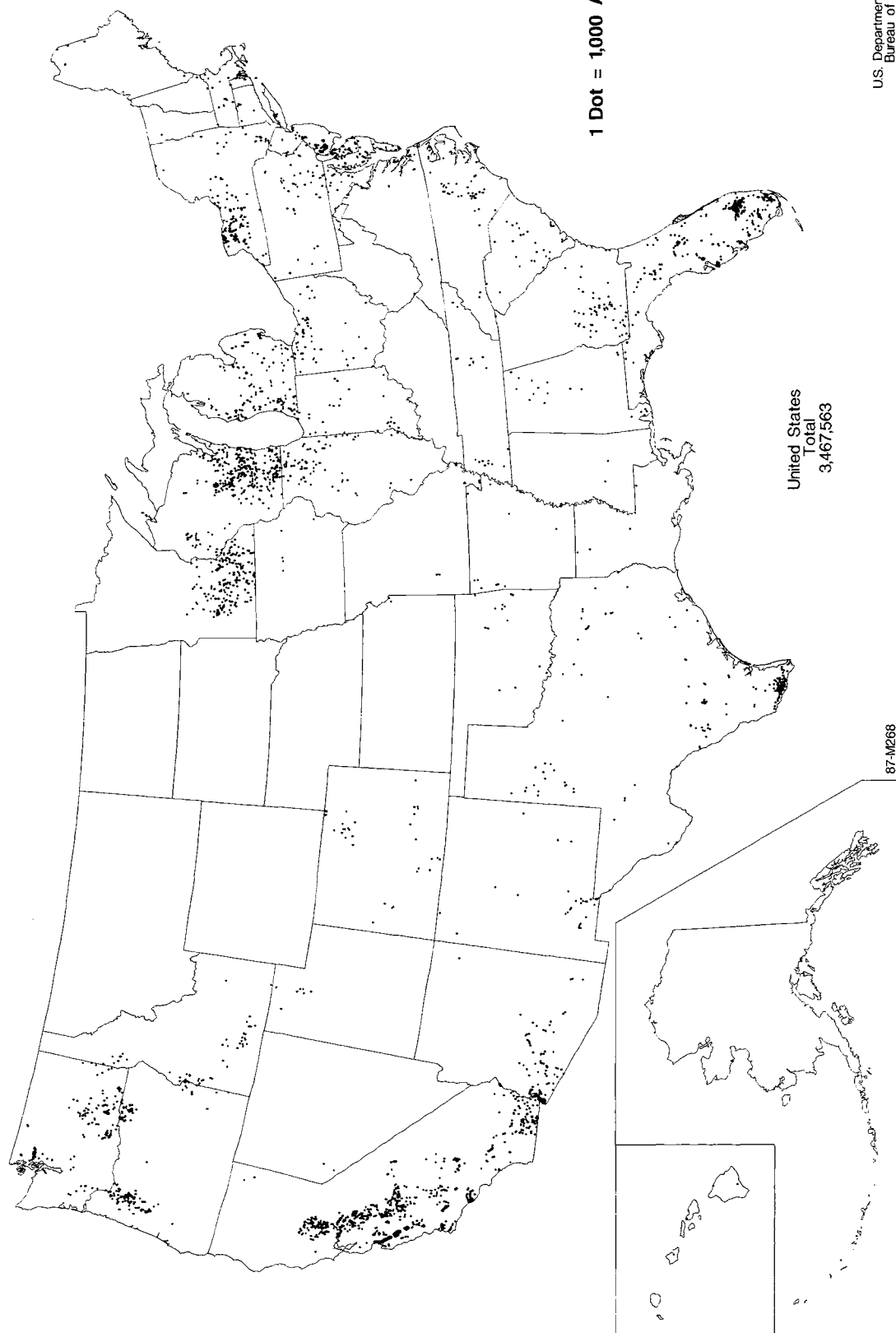
### Fescue Seed: 1987



### Ryegrass Seed: 1987

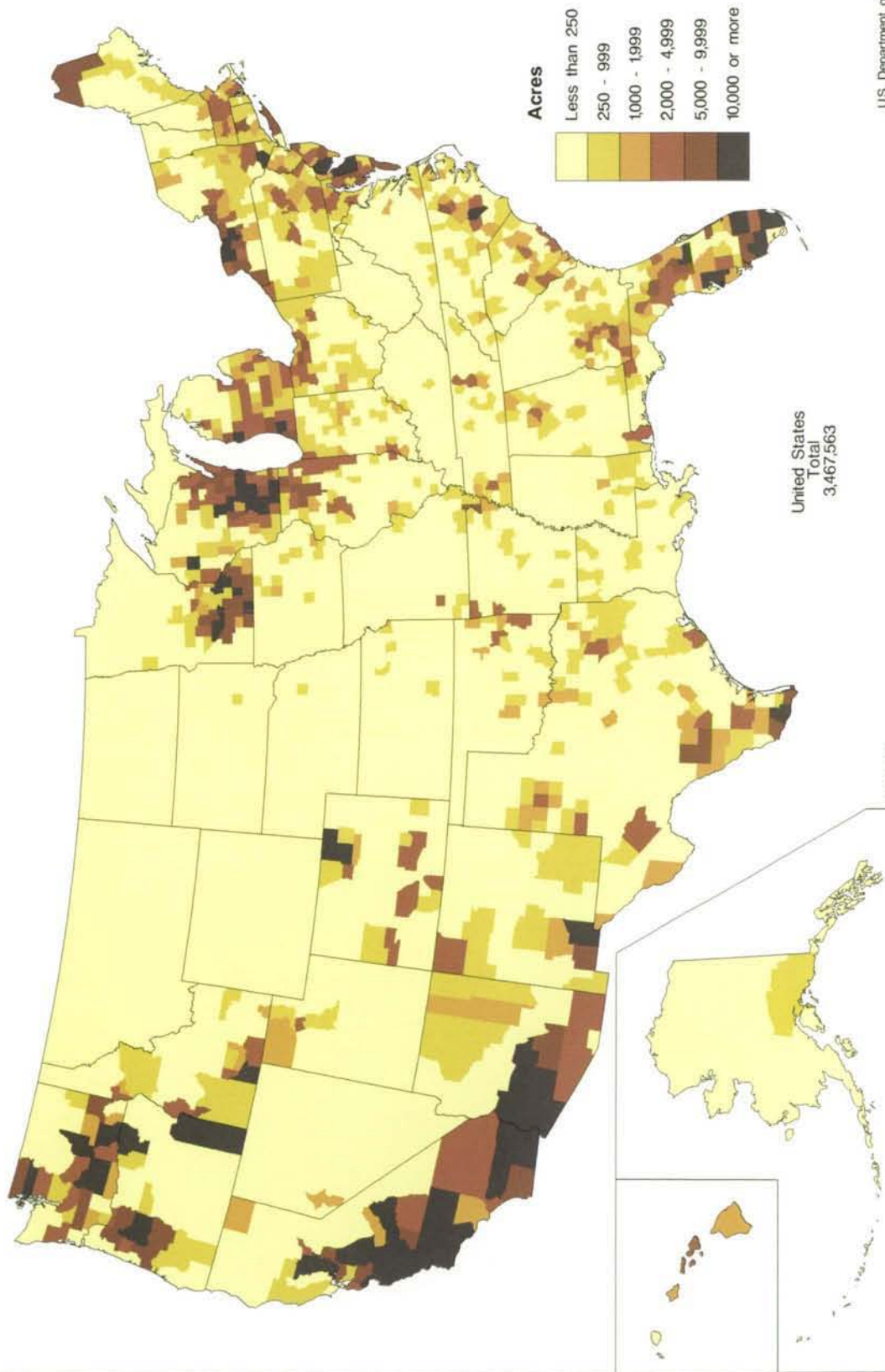


# Vegetables Harvested for Sale: 1987

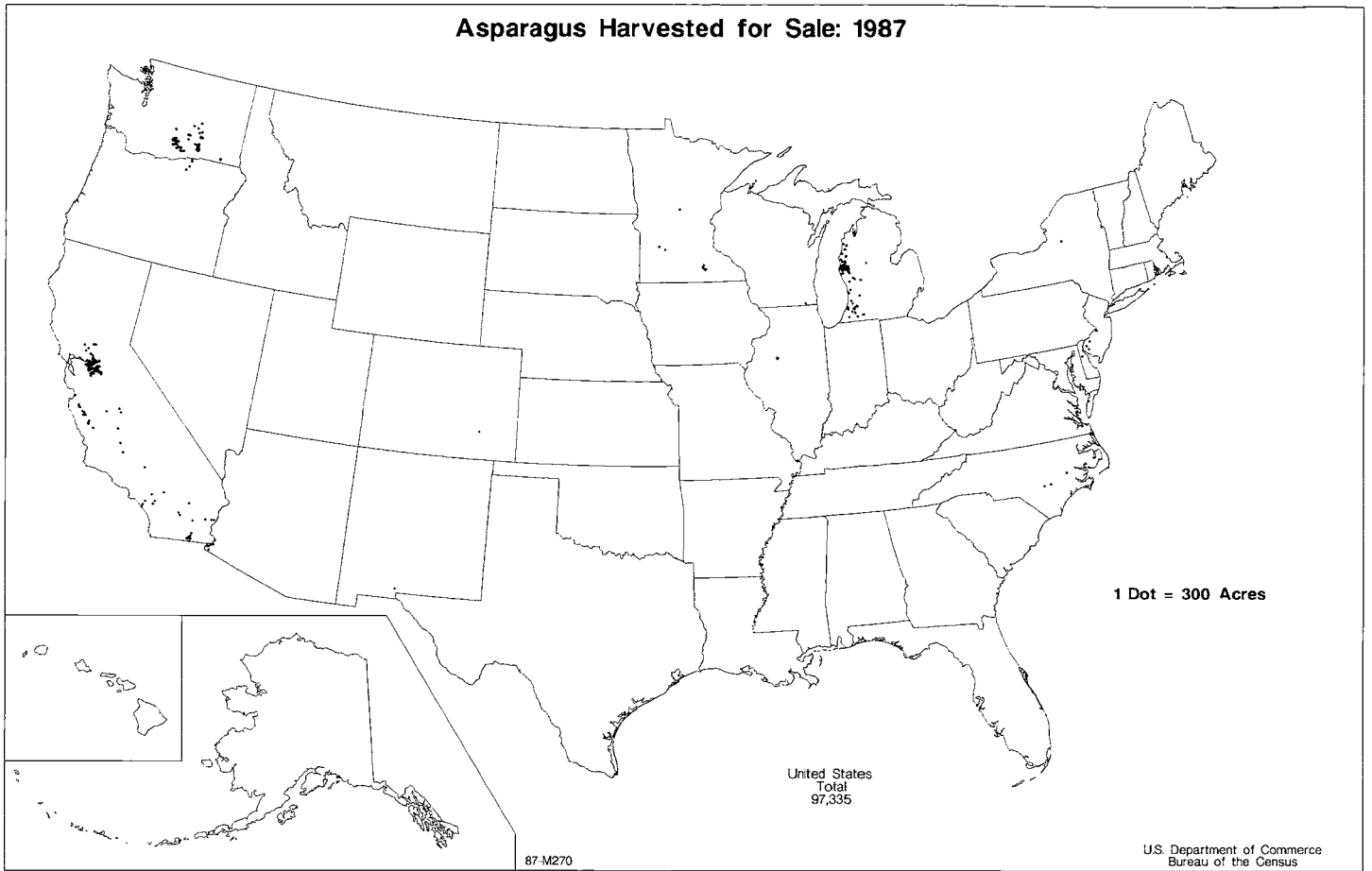




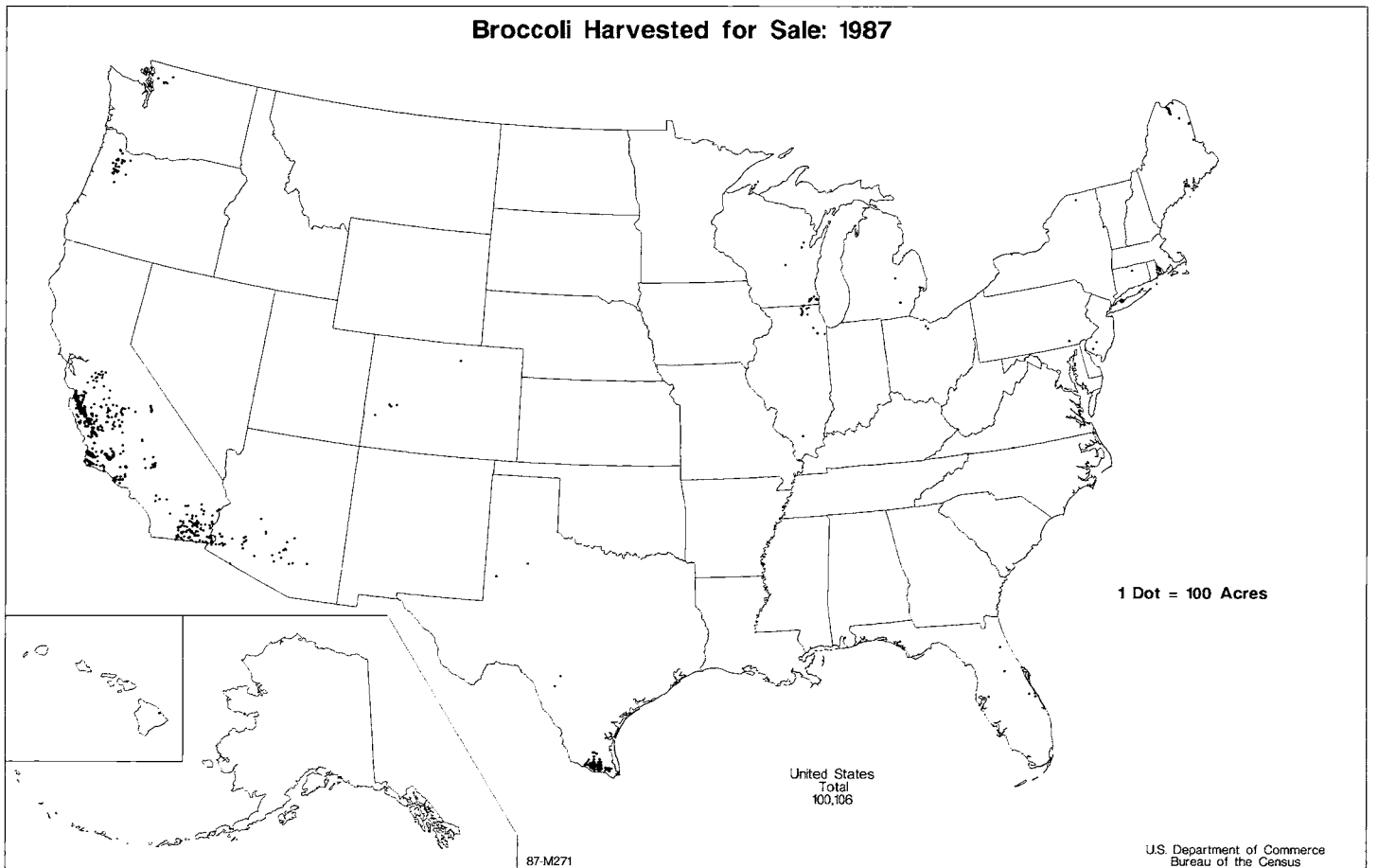
# Vegetables Harvested for Sale by County: 1987



### Asparagus Harvested for Sale: 1987



### Broccoli Harvested for Sale: 1987



### Cantaloups Harvested for Sale: 1987



### Cucumbers and Pickles Harvested for Sale: 1987

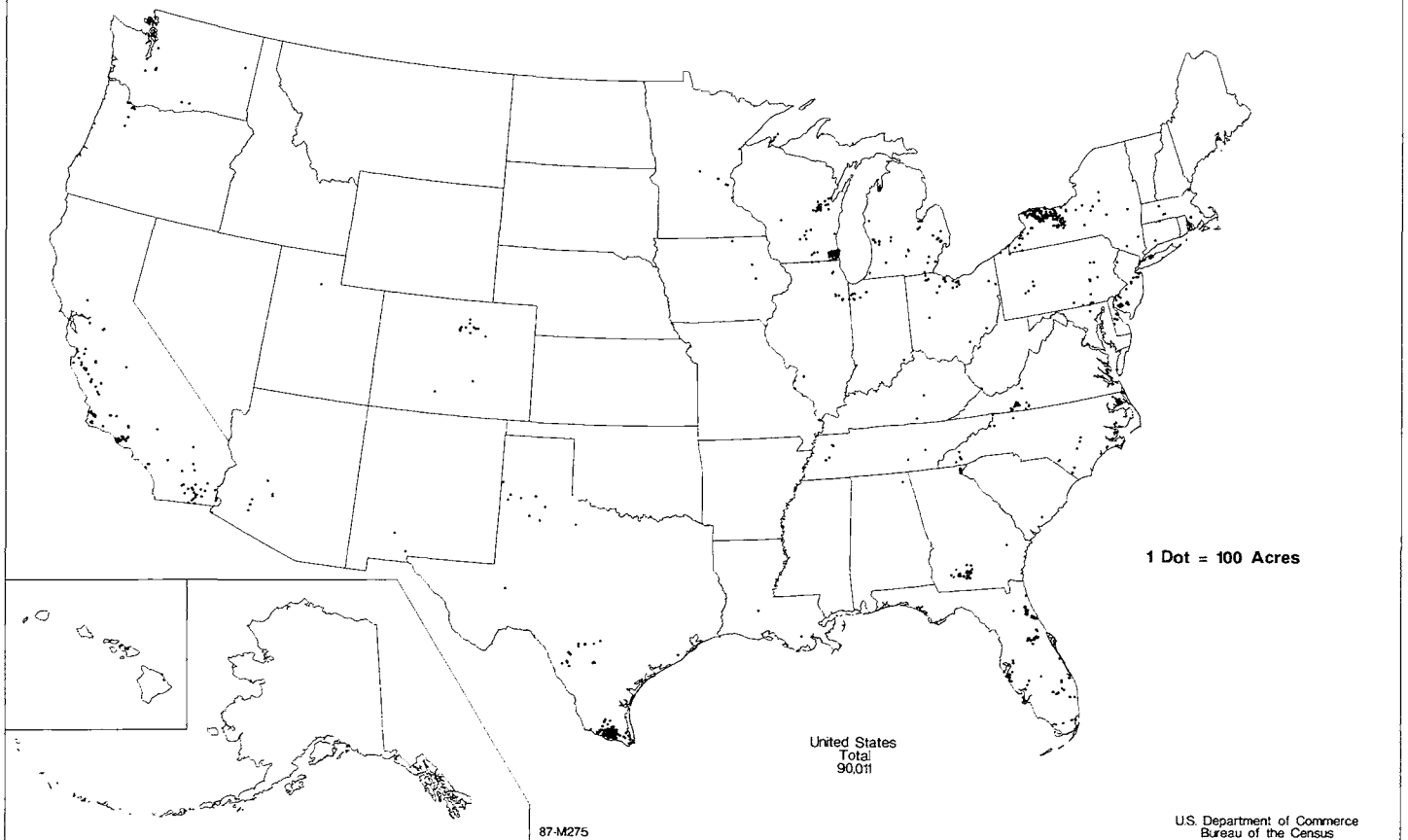




### Green Peas, Excluding Green Cowpeas, Harvested for Sale: 1987



### Head Cabbage Harvested for Sale: 1987



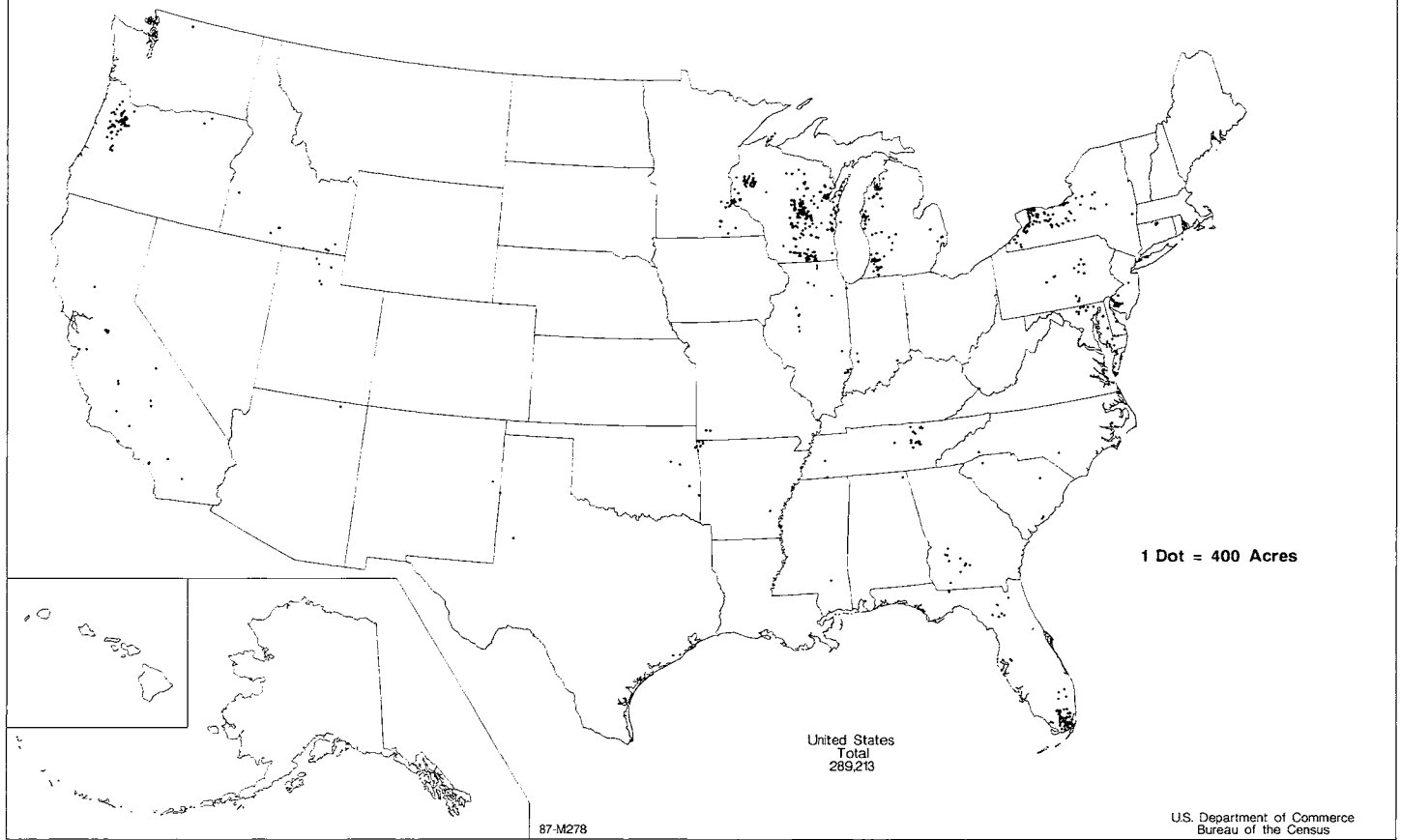
# Lettuce and Romaine Harvested for Sale: 1987



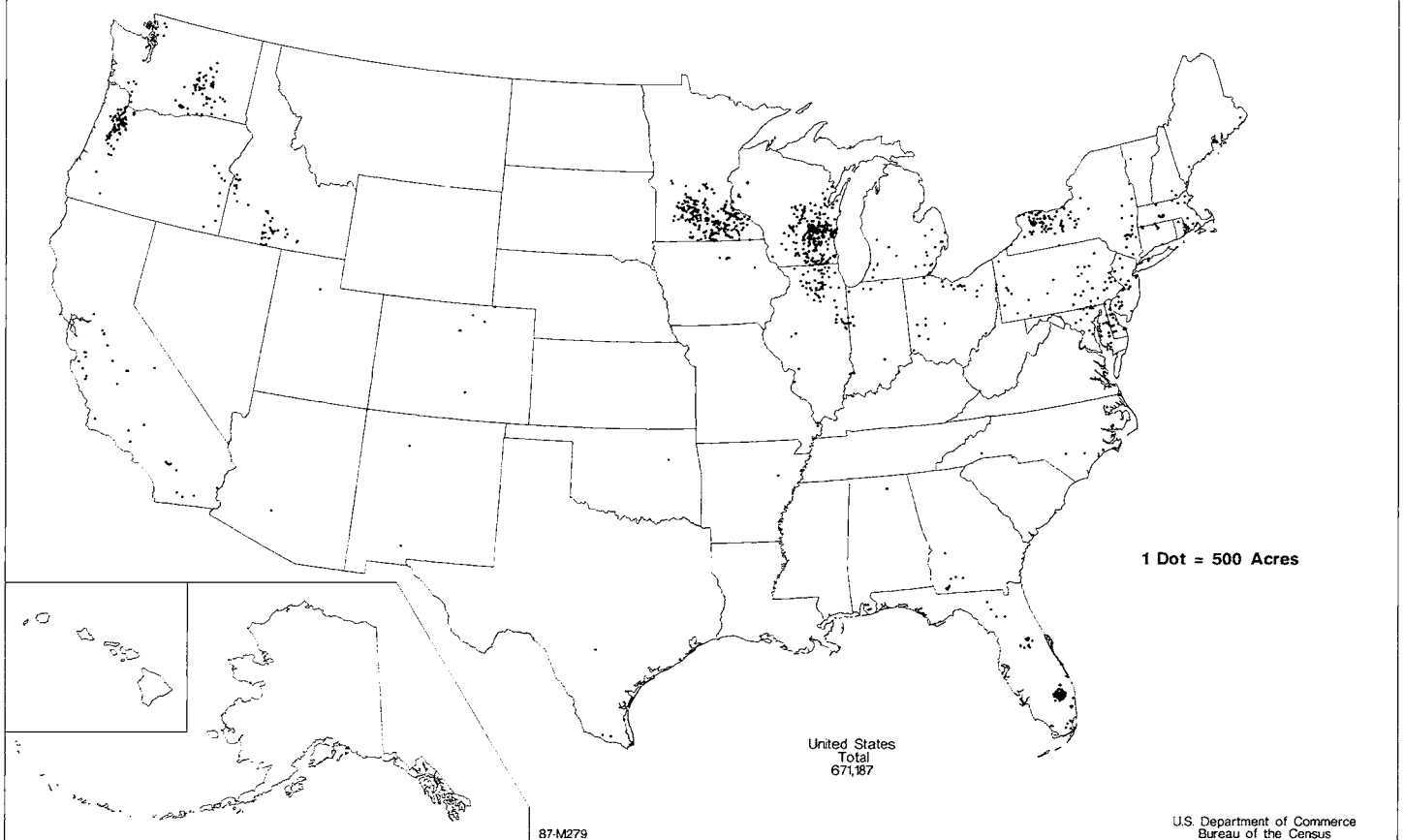
# Dry Onions Harvested for Sale: 1987



### Snap Beans Harvested for Sale: 1987



### Sweet Corn Harvested for Sale: 1987

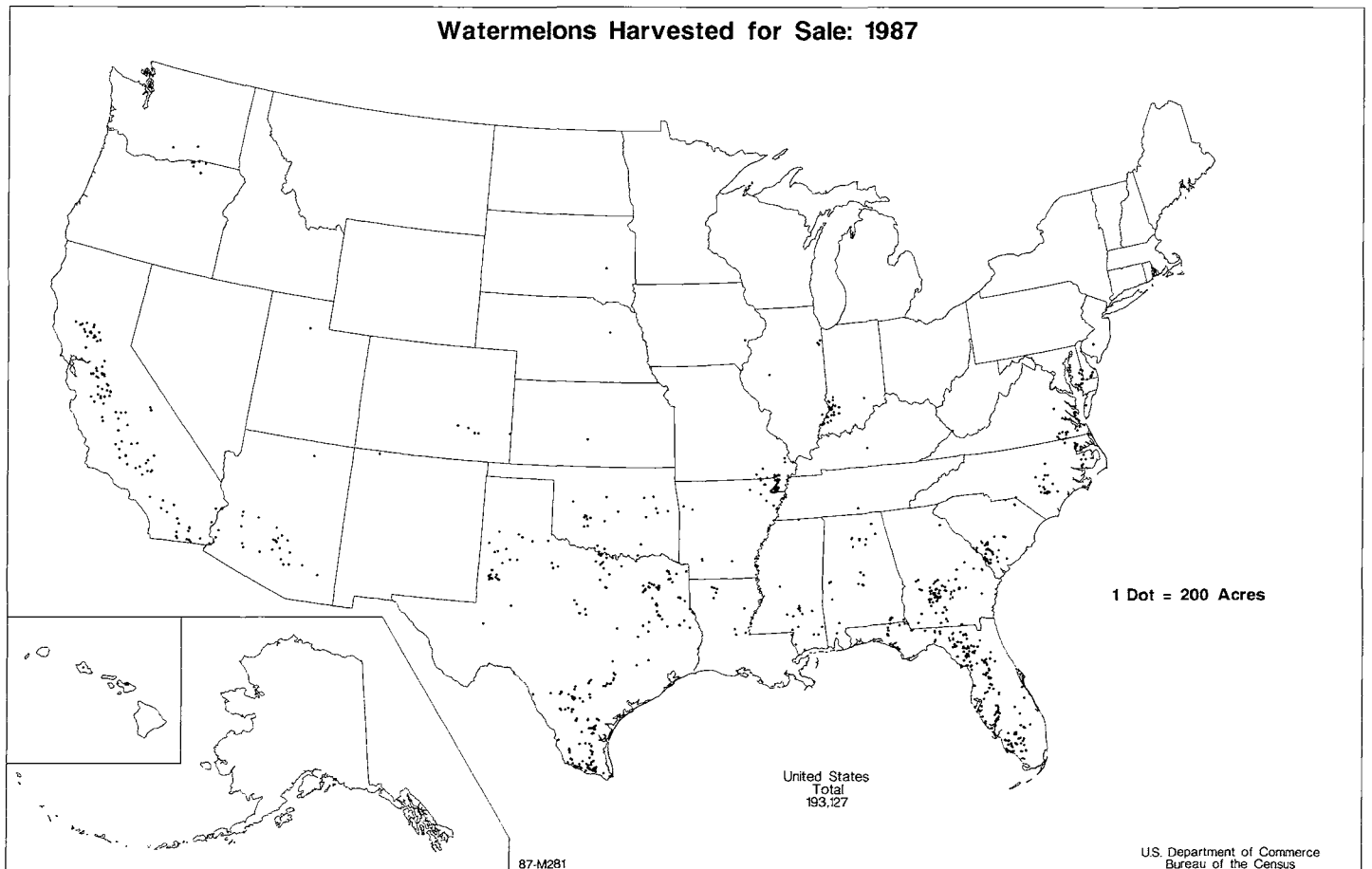




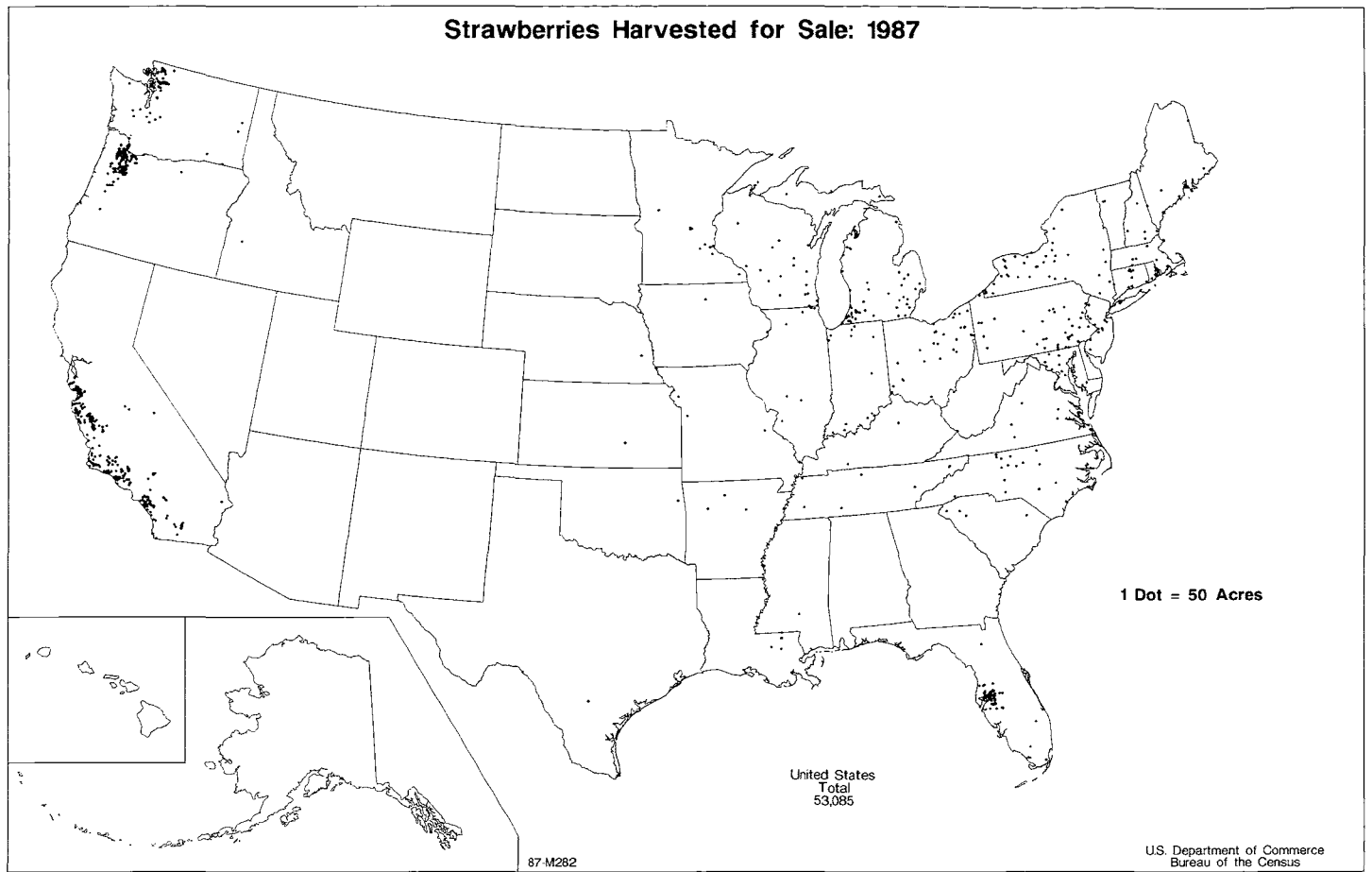
### Tomatoes Harvested for Sale: 1987



### Watermelons Harvested for Sale: 1987



# Strawberries Harvested for Sale: 1987

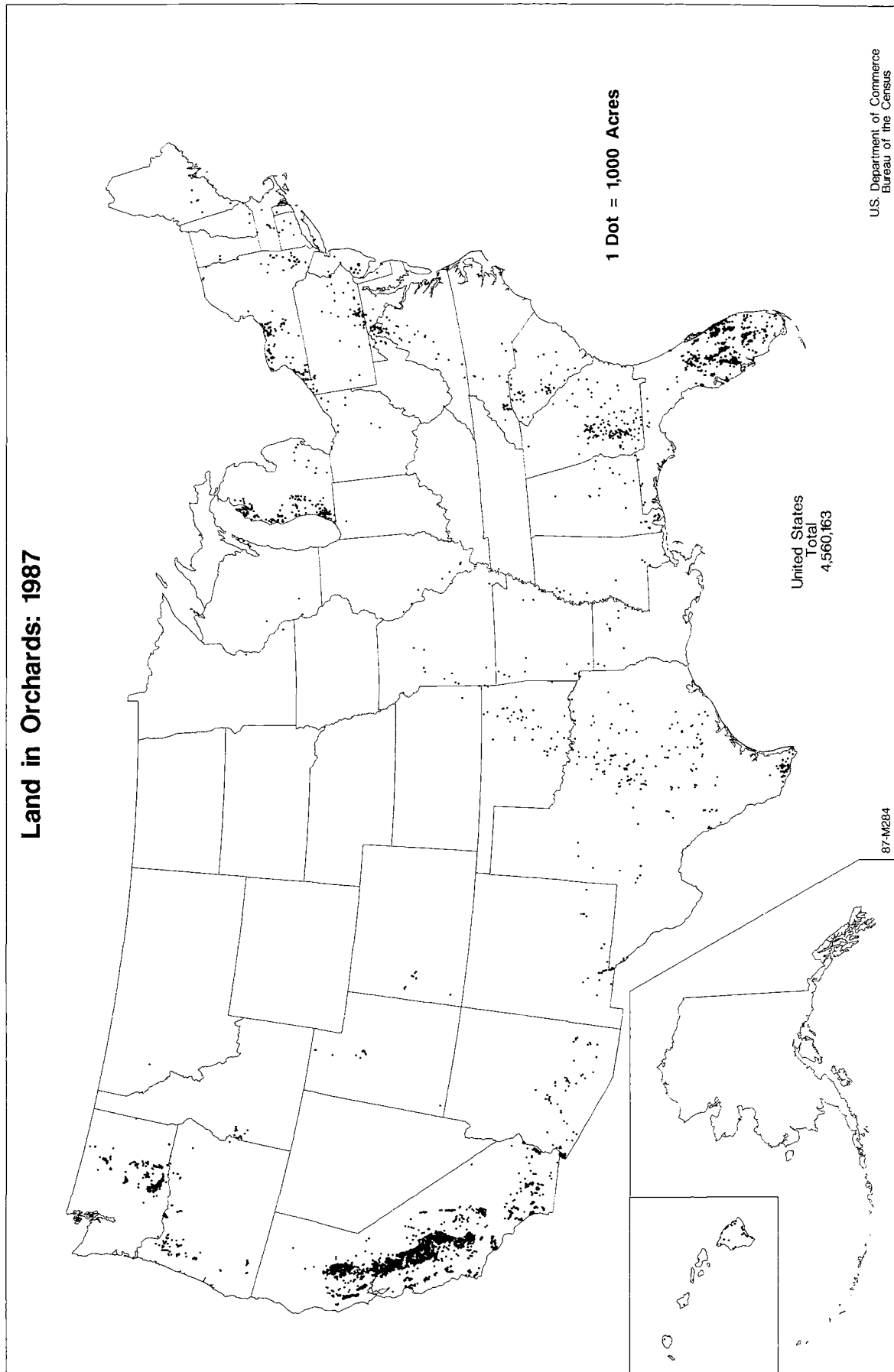


**Tame Blueberries Harvested for Sale: 1987**

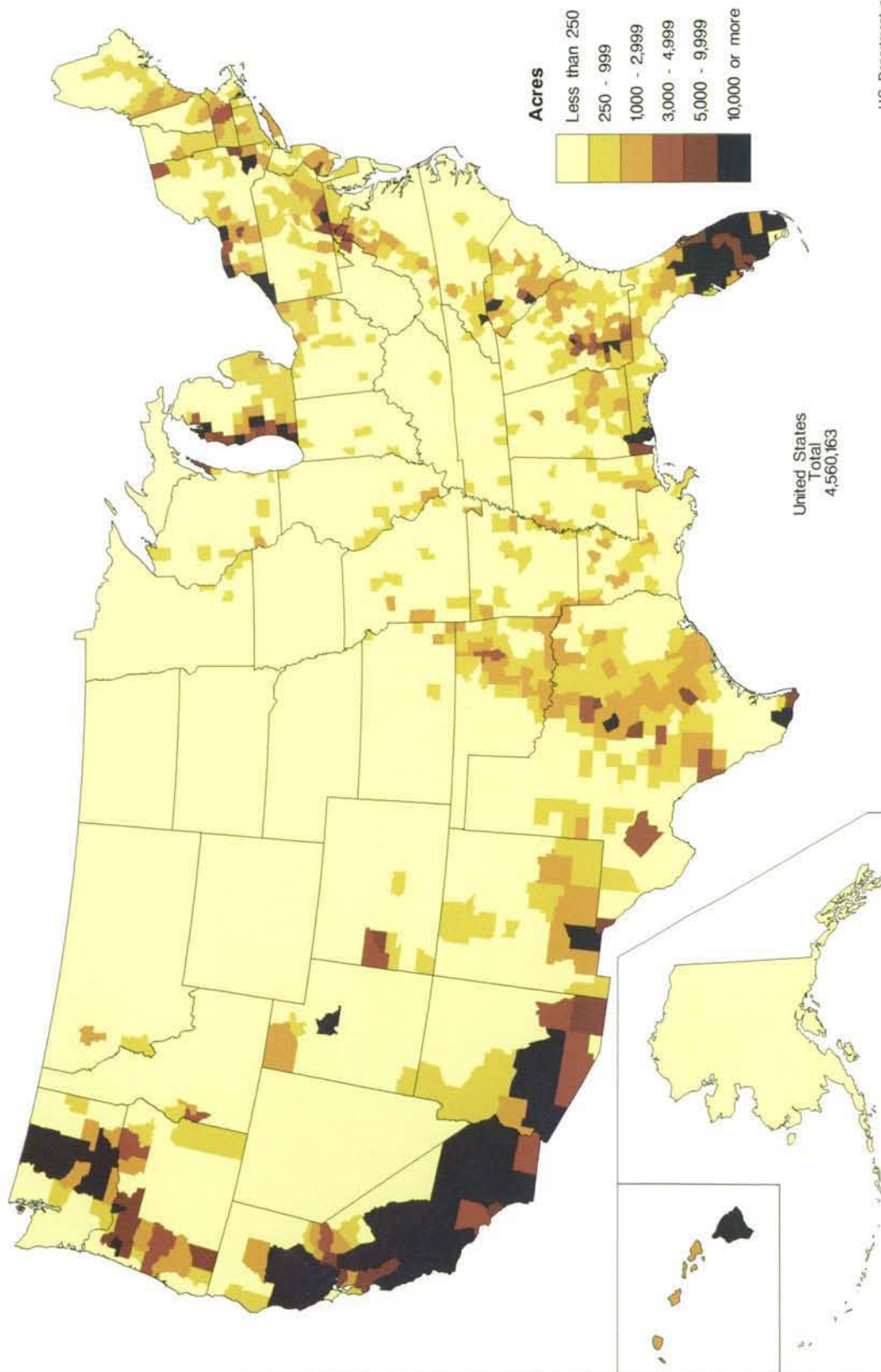




**Land in Orchards: 1987**



# Land in Orchards by County: 1987



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### Acres of Apples: 1987



### Acres of Avocados: 1987



### Acres of Peaches: 1987

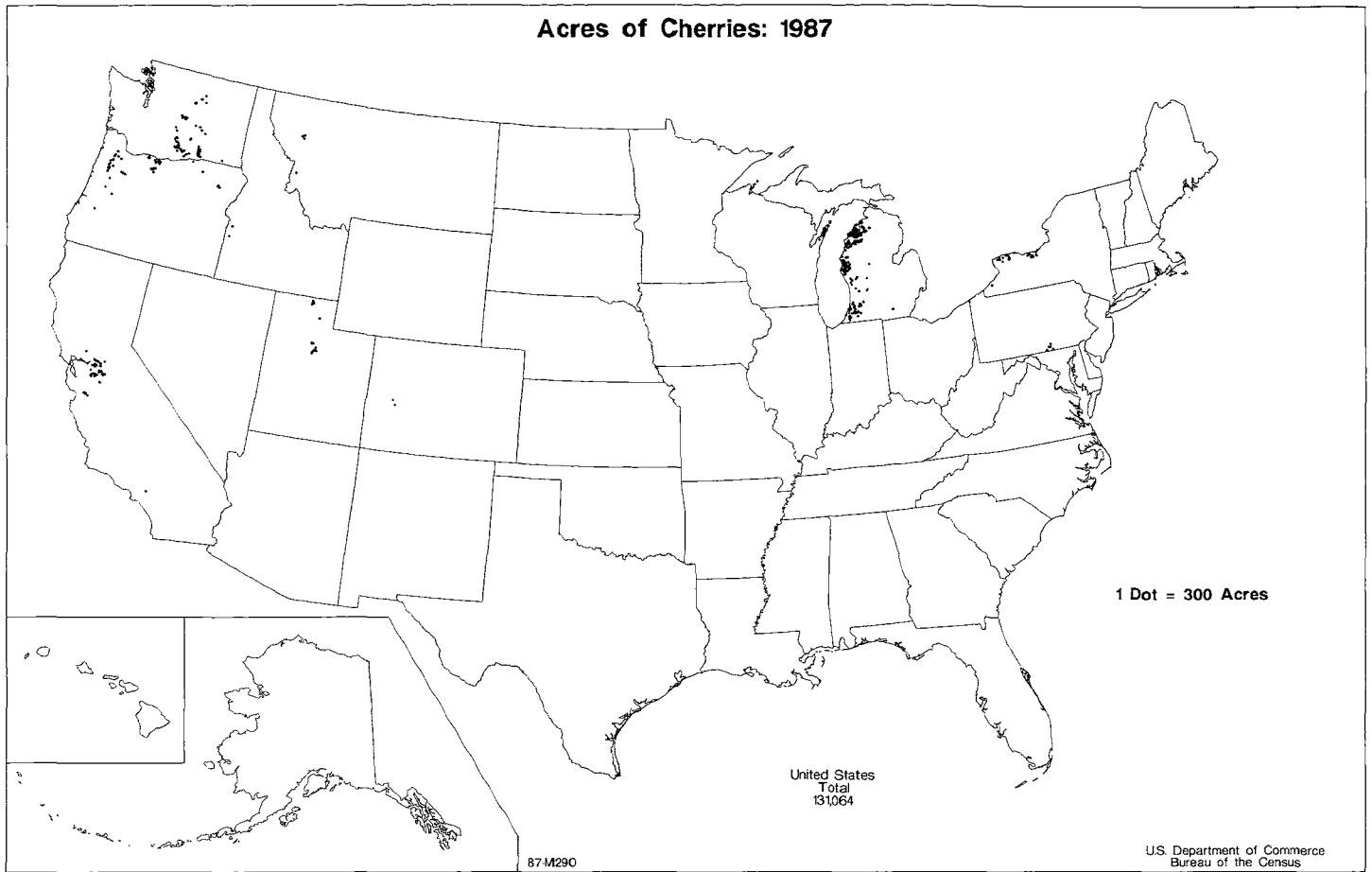


### Acres of Pears: 1987

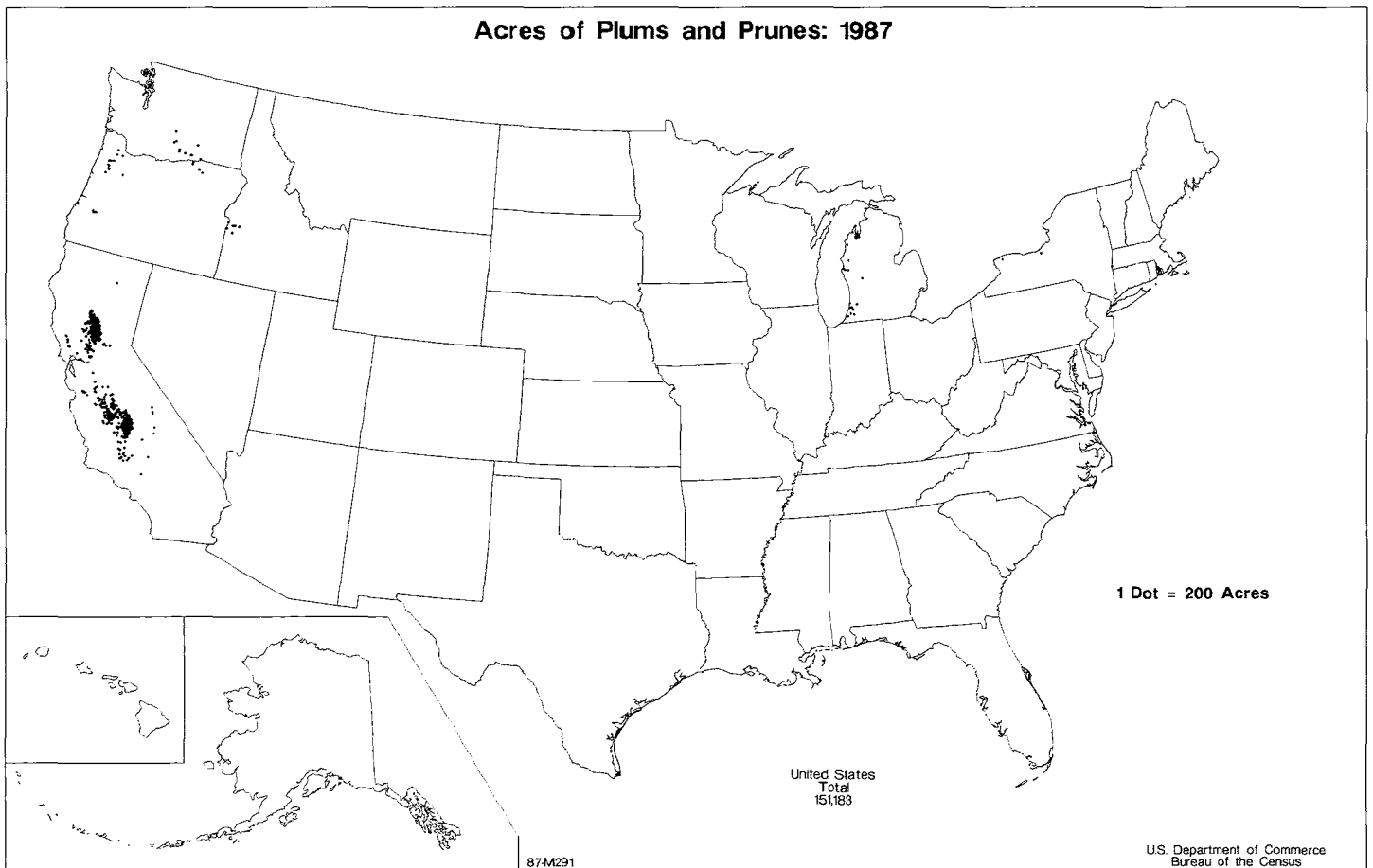


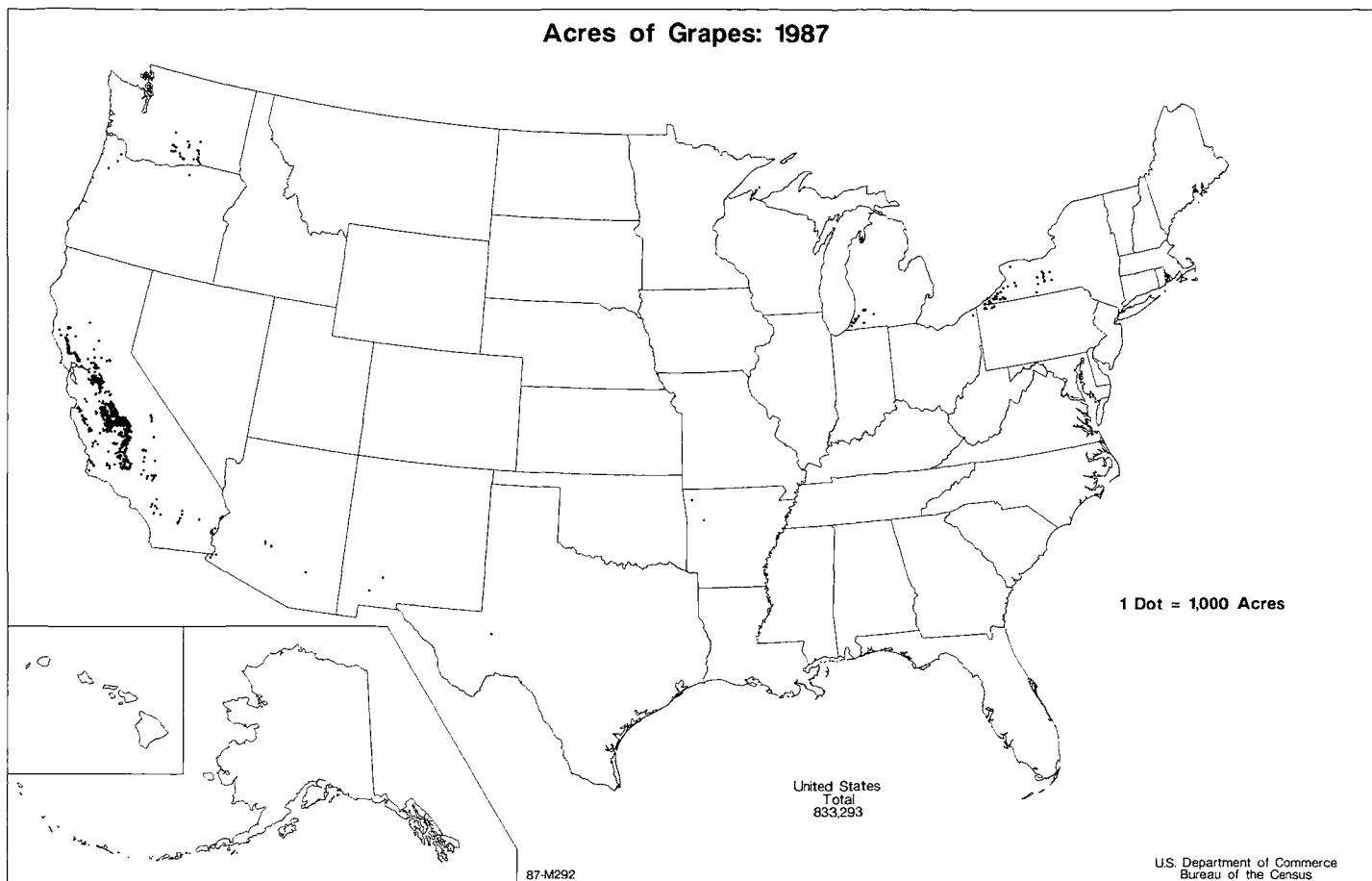


### Acres of Cherries: 1987



### Acres of Plums and Prunes: 1987





### Acres of Oranges: 1987



### Acres of Grapefruit: 1987



**Acres of Lemons: 1987**





### Acres of English Walnuts: 1987



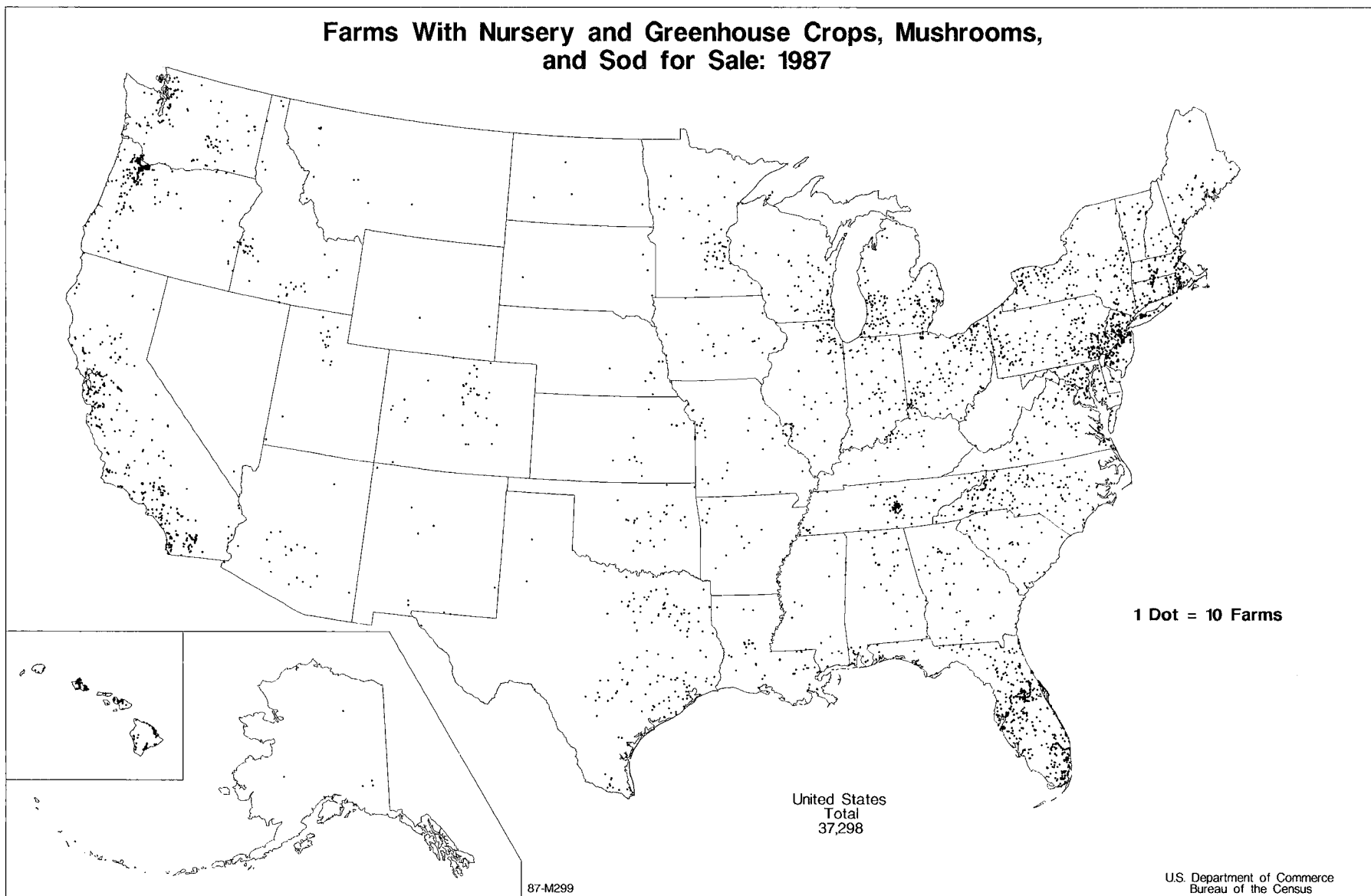
### Acres of Almonds: 1987

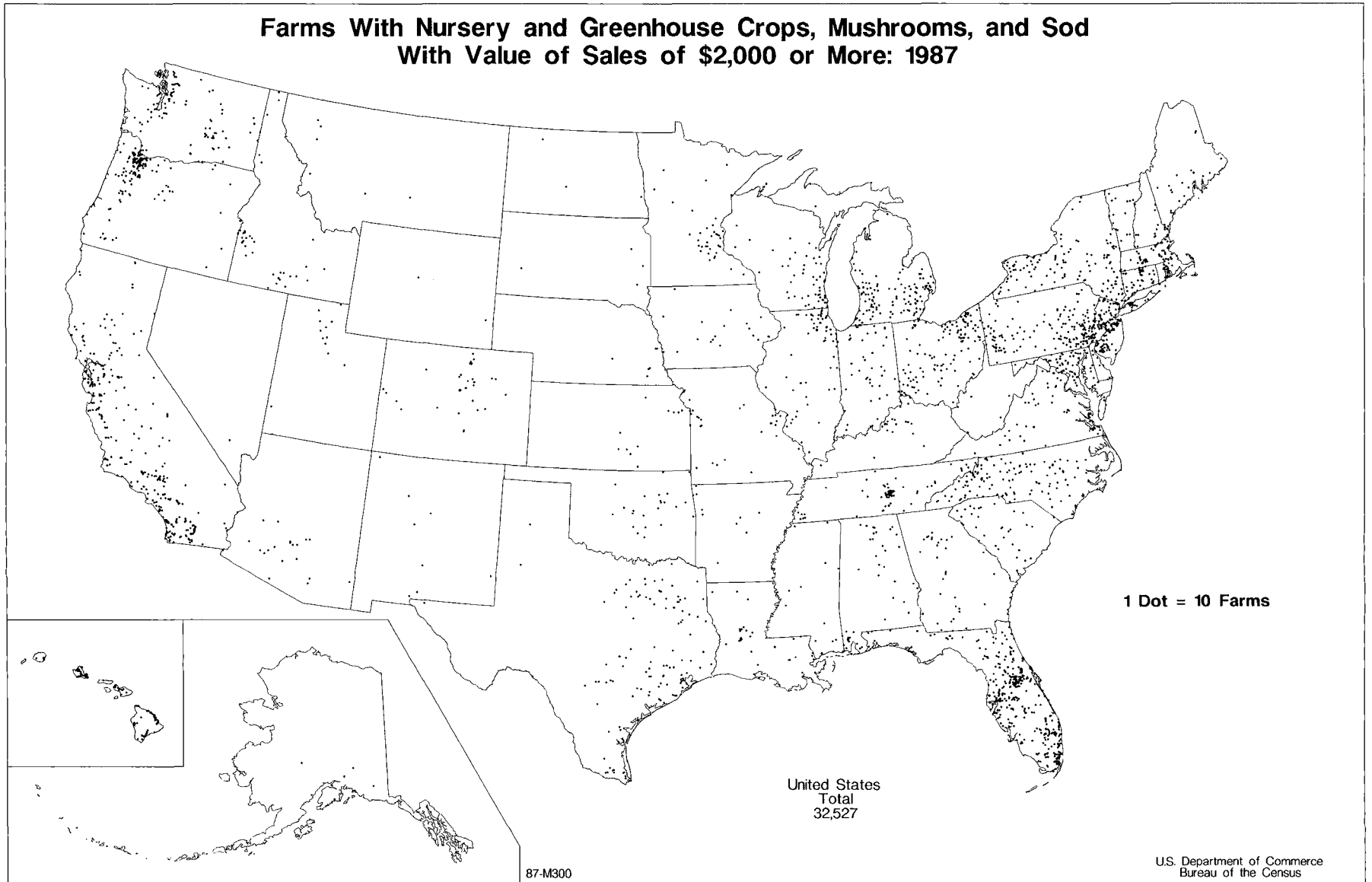


# Acres of Pecans: 1987



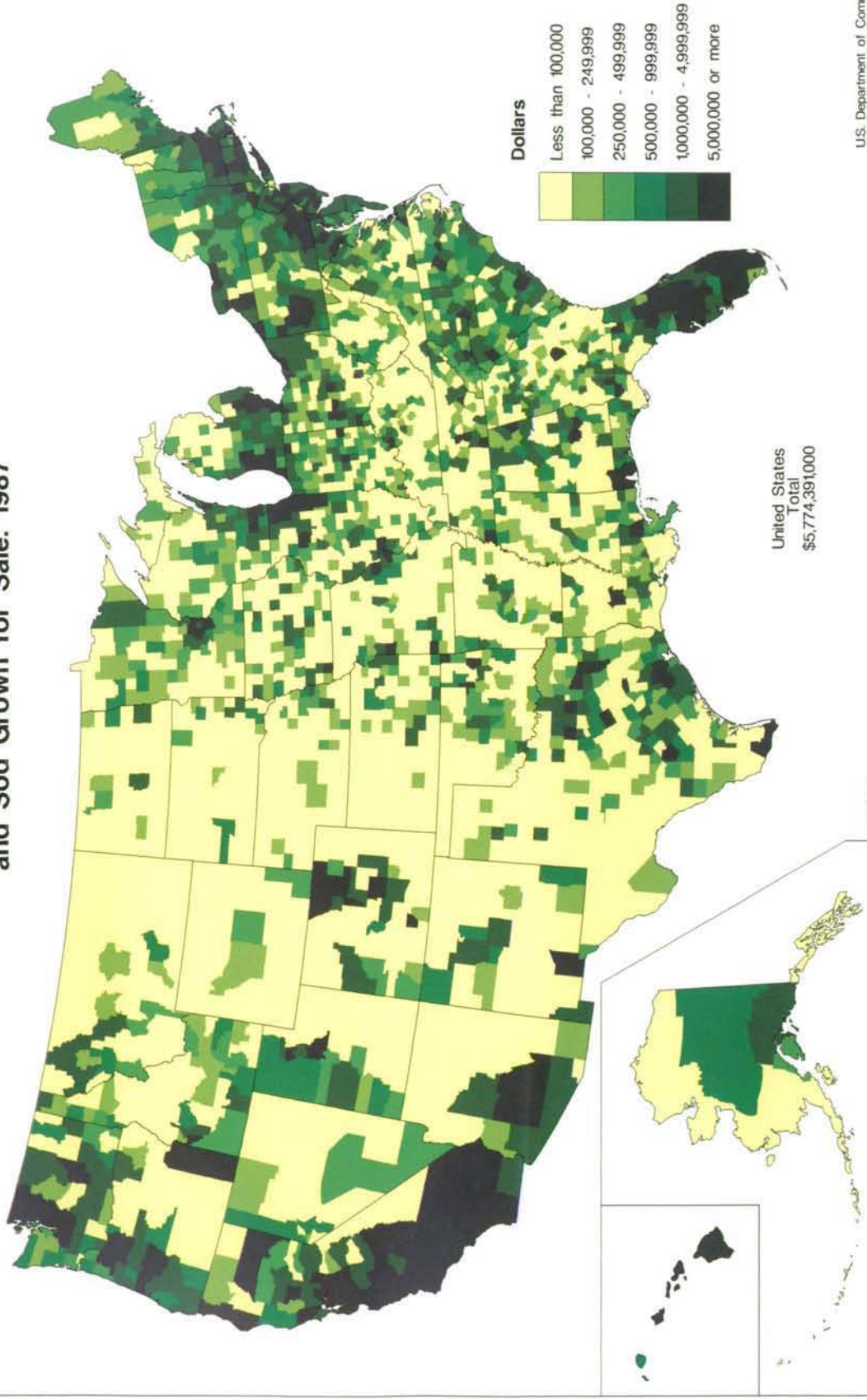
**Farms With Nursery and Greenhouse Crops, Mushrooms,  
and Sod for Sale: 1987**





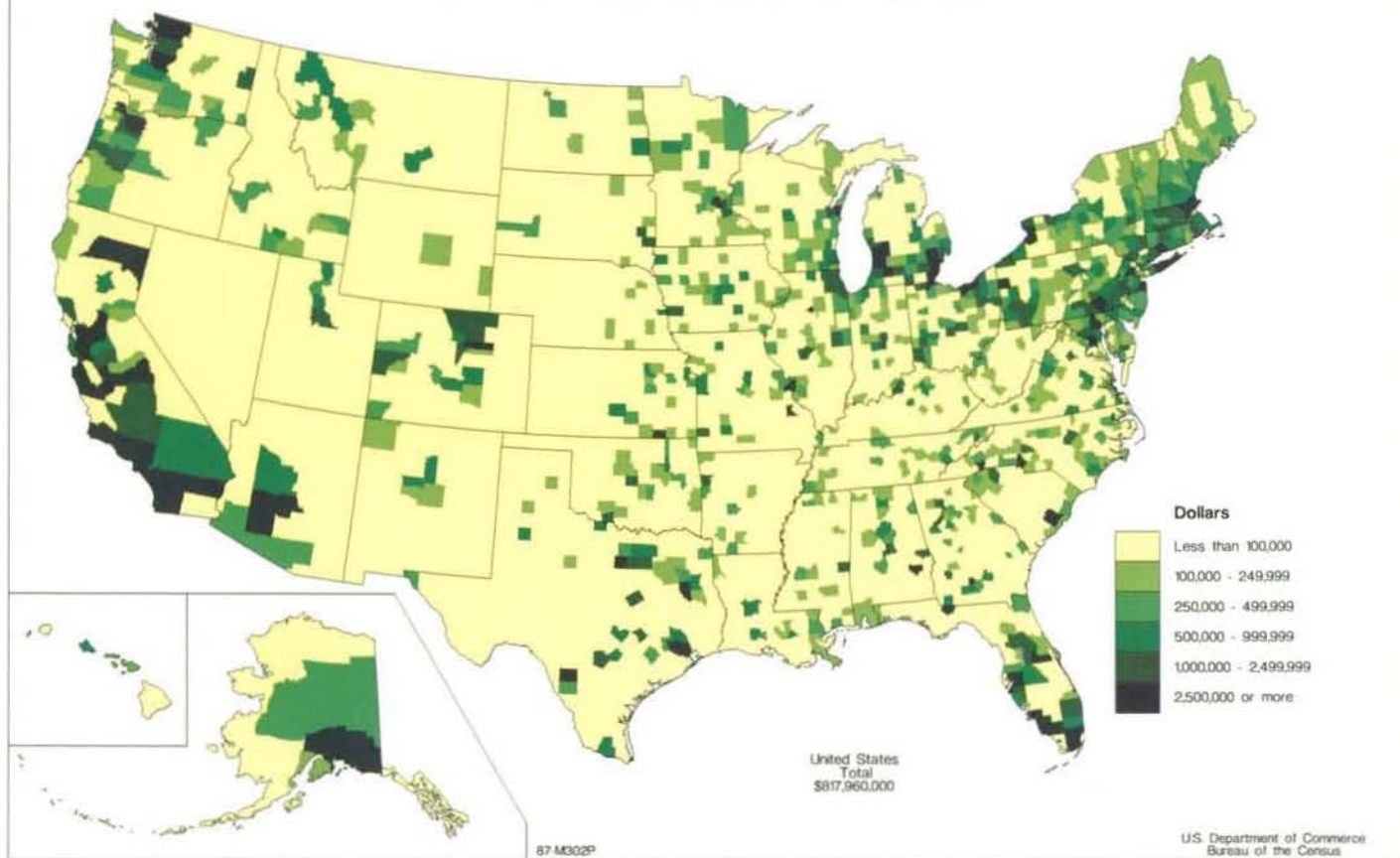


Value of Nursery and Greenhouse Crops, Mushrooms,  
and Sod Grown for Sale: 1987

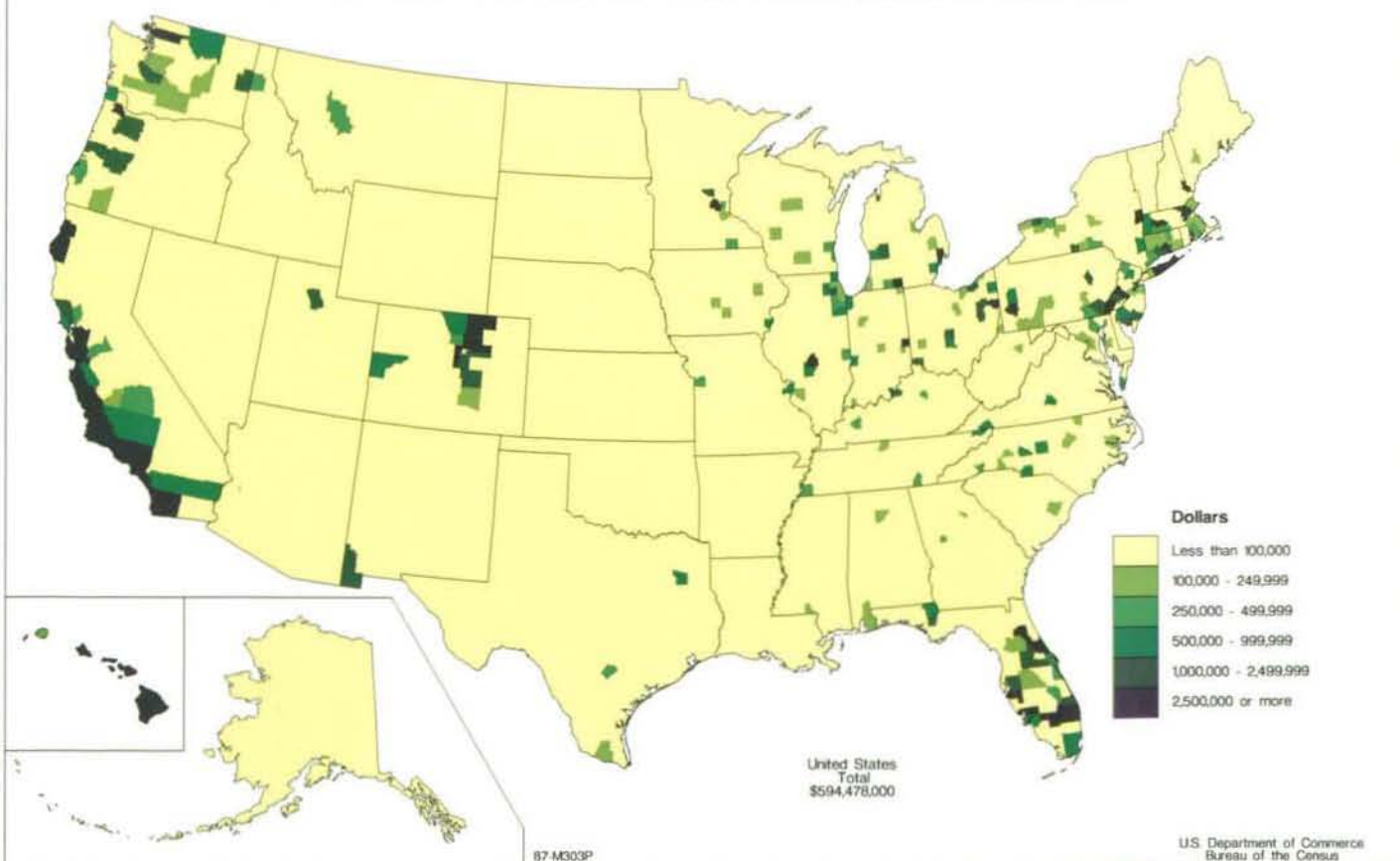


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### Value of Bedding Plants Grown for Sale: 1987

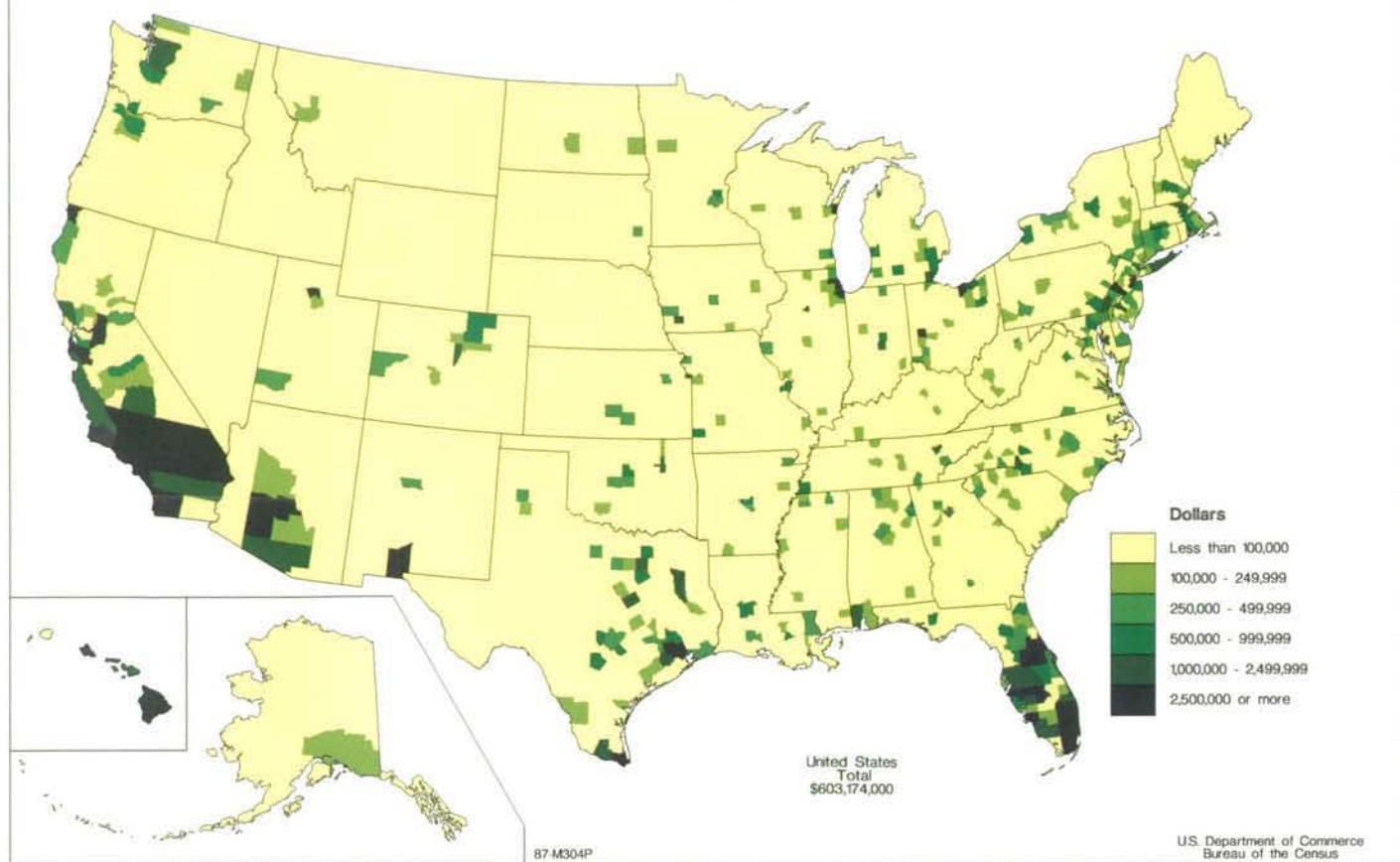


### Value of Cut Flowers and Cut Florist Greens Grown for Sale: 1987

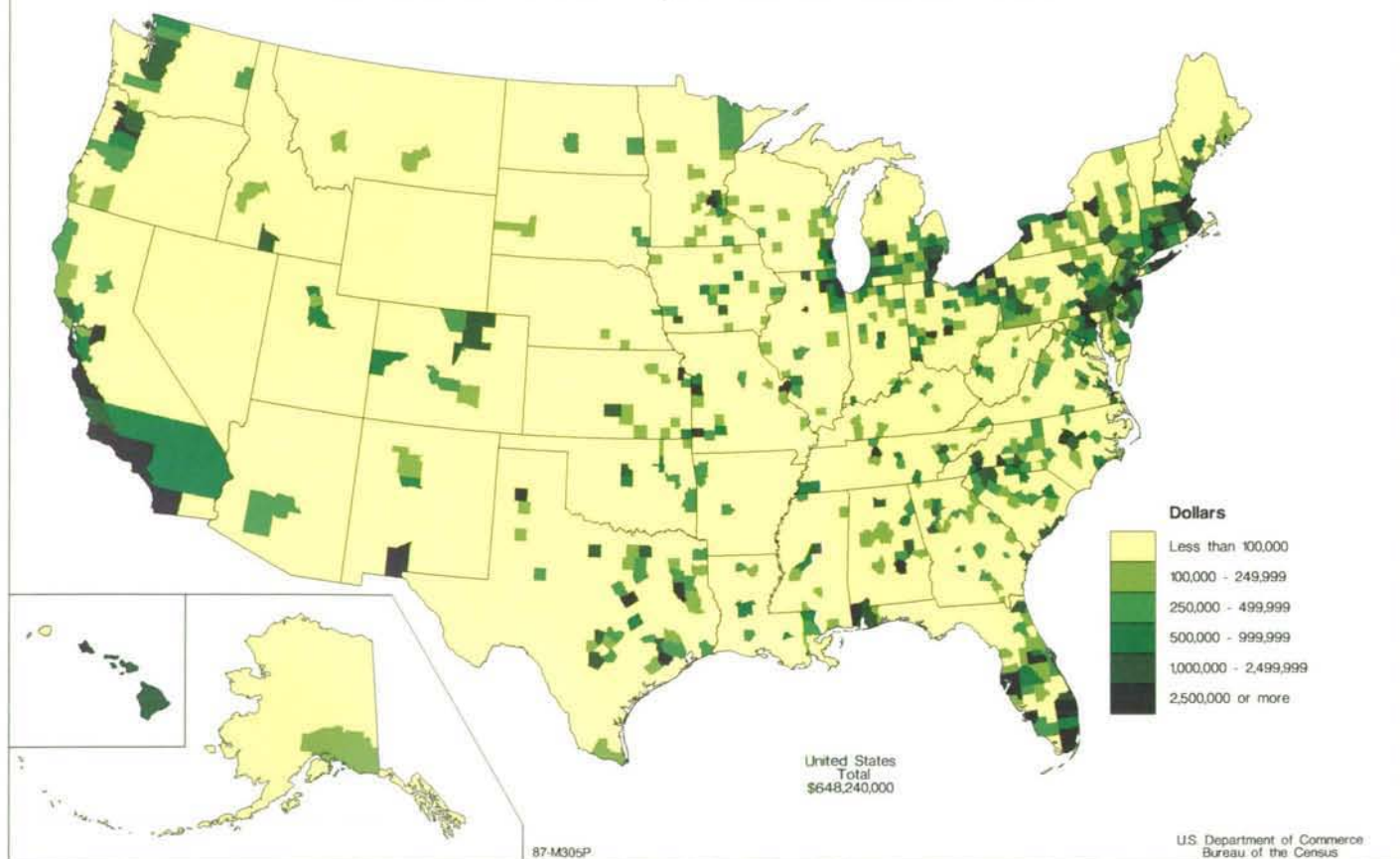




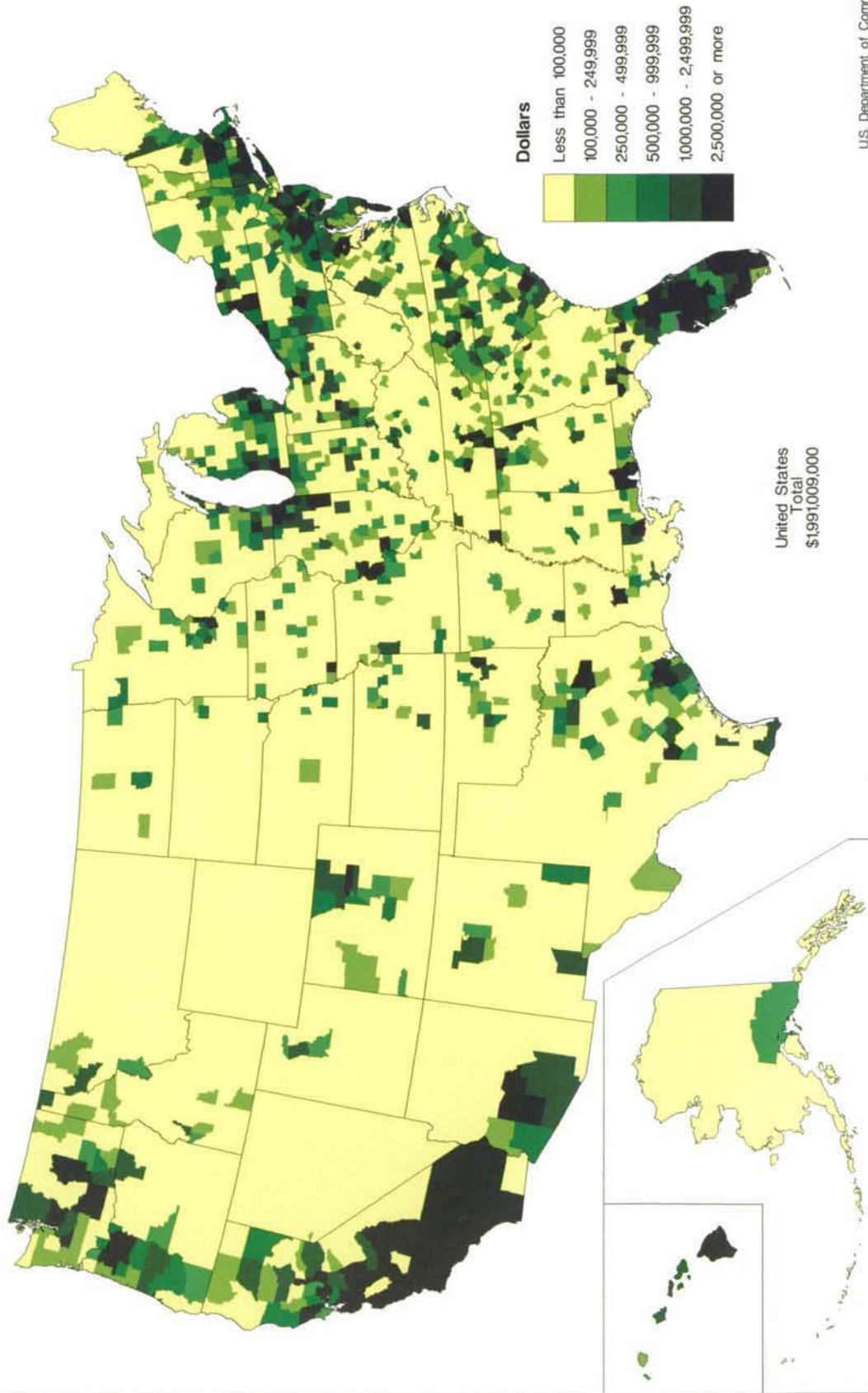
### Value of Foilage Plants Grown for Sale: 1987



### Value of Potted Flowering Plants Grown for Sale: 1987



Value of Nursery Crops Grown for Sale: 1987



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# APPENDIX

## Explanation of Terms

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### 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 cropland 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

Map number	Title	Census year		Change from 1982 to 1987	Percent change
		1987	1982		
	<b>FARMS</b>				
M1	Number of farms -----	2 087 759	2 240 976	-153 217	-6.8
M2P	Percent change in number of farms -----				
	<b>FARMS BY VALUE OF SALES</b>				
M3	Farms with sales of less than \$2,500 -----	490 296	536 327	-46 031	-8.6
M4	Farms with sales of \$2,500 to \$4,999 -----	262 918	278 208	-15 290	-5.5
M5	Farms with sales of \$5,000 to \$9,999 -----	274 972	281 802	-6 830	-2.4
M6P	Percent of farms with sales of less than \$10,000 <sup>1</sup> -----	49.2	48.9	0.3	0.6
M7P	Percent of farms with sales of \$10,000 or more <sup>1</sup> -----	50.8	51.1	-0.3	-0.6
M8	Farms with sales of \$10,000 to \$24,999 -----	326 166	340 254	-14 088	-4.1
M9	Farms with sales of \$25,000 to \$49,999 -----	219 636	248 828	-29 192	-11.7
M10	Farms with sales of \$50,000 to \$99,999 -----	218 050	251 501	-33 451	-13.3
M11	Farms with sales of \$100,000 to \$249,999 -----	202 550	215 912	-13 362	-6.2
M12	Farms with sales of \$250,000 to \$499,999 -----	61 148	58 668	2 480	4.2
M13	Farms with sales of \$500,000 or more -----	32 023	27 800	4 223	15.2
M14P	Percent of farms with sales of \$500,000 or more -----	1.5	1.2	0.3	25.0
M15P	Value of sales from farms with sales of \$100,000 or more as percent of total value of sales -----	76.3	72.4	3.9	5.4
	<b>FARMS BY SIZE</b>				
M16P	Average size of farm -----	462	440	22	5.0
M17P	Average size of farm with sales of \$10,000 or more -----	782	710	72	10.1
M18	Farms with less than 50 acres -----	595 694	636 917	-41 223	-6.5
M19	Change in number of farms with less than 50 acres -----				
M20	Farms with 50 to 99 acres -----	310 867	343 775	-32 908	-9.6
M21	Farms with 100 to 259 acres -----	526 070	579 362	-53 292	-9.2
M22	Change in number of farms with 50 to 259 acres -----	836 937	923 137	-86 200	-9.3
M23	Farms with 260 to 499 acres -----	286 206	315 025	-28 819	-9.1
M24	Farms with 500 to 999 acres -----	200 058	203 925	-3 867	-1.9
M25	Change in number of farms with 260 to 999 acres -----	486 264	518 950	-32 686	-6.3
M26	Farms with 1,000 to 1,999 acres -----	102 078	97 395	4 683	4.8
M27	Farms with 2,000 acres or more -----	66 786	64 577	2 209	3.4
M28	Change in number of farms with 1,000 acres or more -----	168 864	161 972	6 892	4.3
	<b>MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD</b>				
M29	Market value of agricultural products sold -----	136 048 516 000	131 900 223 000	4 148 293 000	3.1
M30P	Market value of agricultural products sold by county -----				
M31P	Average value per farm of agricultural products sold -----	65 165	58 858	6 307	10.7
M32P	Average value per farm of agricultural products sold with sales of \$10,000 or more -----	125 187	112 010	13 177	11.8
M33P	Average value of agricultural products sold per acre of land in farms -----	141	134	7	5.2
M34P	Value of agricultural products sold as percent of value of land and buildings and value of machinery and equipment -----	19.7	15.2	4.5	29.6
M35P	Value of agricultural products sold as percent of value of land and buildings and value of machinery and equipment for farms with sales of \$10,000 or more -----	23.9	17.9	6.0	33.5
M36	Value of crops sold -----	58 931 085 000	62 256 087 000	-3 325 002 000	-5.3
M37P	Value of crops sold as percent of agricultural products sold -----	43.3	47.2	-3.9	-8.3
M38P	Average value of crops sold per acre of harvested cropland -----	209	191	18	9.4
M39P	Value of grains sold as percent of agricultural products sold -----	20.8	27.6	-6.8	-24.6
M40P	Value of cotton and cottonseed sold as percent of agricultural products sold -----	3.1	2.5	0.6	24.0
M41P	Value of tobacco sold as percent of agricultural products sold -----	1.3	2.1	-0.8	-38.1
M42P	Value of hay, silage, and field seeds sold as percent of agricultural products sold -----	1.9	1.7	0.2	11.8
M43P	Value of vegetables, sweet corn, and melons sold as percent of agricultural products sold -----	3.5	3.1	0.4	12.9
M44P	Value of fruits, nuts, and berries sold as percent of agricultural products sold -----	5.2	4.4	0.8	18.2
M45P	Value of nursery and greenhouse crops, mushrooms, and sod sold as percent of agricultural products sold -----	4.2	2.9	1.3	44.8
M46	Value of livestock, poultry, and their products sold -----	77 117 431 000	69 644 136 000	7 473 295 000	10.7
M47P	Value of poultry and poultry products sold as percent of agricultural products sold -----	9.4	7.4	2.0	27.0
M48P	Value of dairy products sold as percent of agricultural products sold -----	11.8	12.4	-0.6	-4.8
M49P	Value of cattle and calves sold as percent of agricultural products sold -----	26.4	24.0	2.4	10.0
M50P	Value of hogs and pigs sold as percent of agricultural products sold -----	7.3	7.5	-0.2	-2.7
M51P	Value of sheep, lambs, and wool sold as percent of agricultural products sold -----	0.6	0.5	0.1	20.0
	<b>FARM-RELATED INCOME<sup>2</sup></b>				
M52	Payments received from federal farm programs -----	9 646 573 000	(NA)	(NA)	(NA)
M53P	Payments received from federal farm programs by county -----				
M54	Income from machine work, customwork, and other agricultural services -----	765 071 000	687 496 000	77 575 000	11.3
M55	Income from rental of farmland, forest products, and other sources of farm-related income -----	1 177 156 000	(NA)	(NA)	(NA)
	<b>FARM PRODUCTION EXPENSES<sup>2</sup></b>				
M56	Total production expenses -----	108 138 053 000	(NA)	(NA)	(NA)
M57P	Total production expenses by county -----				
M58P	Average production expenses per farm by county -----	51 797	(NA)	(NA)	(NA)
M59	Expenses for livestock and poultry purchased -----	19 344 645 000	17 174 334 000	2 170 311 000	12.6
M60P	Expenses for livestock and poultry purchased by county -----				
M61	Expenses for feed for livestock and poultry -----	19 163 364 000	18 591 984 000	571 380 000	3.1
M62P	Expenses for feed for livestock and poultry by county -----				
M63P	Expenses for commercially mixed formula feeds as percent of feed purchased for livestock and poultry -----	59.1	56.0	3.1	5.5
M64	Expenses for seeds, bulbs, plants, and trees -----	3 390 762 000	3 171 752 000	219 010 000	6.9
M65P	Expenses for seeds, bulbs, plants, and trees by county -----				
M66	Expenses for commercial fertilizer -----	6 684 944 000	7 689 365 000	-1 004 421 000	-13.1
M67P	Expenses for commercial fertilizer by county -----				
M68	Expenses for agricultural chemicals, excluding fertilizer -----	4 690 243 000	4 282 213 000	408 030 000	9.5
M69P	Expenses for agricultural chemicals, excluding fertilizer by county -----				
M70	Expenses for petroleum products -----	5 277 227 000	7 888 052 000	-2 610 825 000	-33.1
M71P	Expenses for petroleum products by county -----				
M72	Expenses for gasoline and gasohol -----	1 965 289 000	2 987 134 000	-1 021 845 000	-34.2
M73P	Expenses for gasoline and gasohol by county -----				
M74	Expenses for diesel fuel -----	2 260 987 000	3 150 091 000	-889 104 000	-28.2
M75P	Expenses for diesel fuel by county -----				
M76	Expenses for natural gas, LP, fuel oil, kerosene, motor oil, grease, etc. -----	1 050 951 000	1 750 828 000	-699 877 000	-40.0
M77P	Expenses for natural gas, LP, fuel oil, kerosene, motor oil, grease, etc., by county -----				
M78	Expenses for electricity -----	2 225 206 000	2 041 384 000	183 822 000	9.0
M79P	Expenses for electricity by county -----				

See footnotes at end of table

# Summary of Mapped Data: 1987 and 1982—Con.

Map number	Title	Census year		Change from 1982 to 1987	Percent change
		1987	1982		
FARM PRODUCTION EXPENSES <sup>2</sup> —Con.					
M80	Expenses for hired farm labor, excluding contract labor .....	10 866 236 000	8 441 180 000	2 425 056 000	28.7
M81P	Expenses for hired farm labor, excluding contract labor, by county .....				
M82	Expenses for contract labor .....				
M83P	Expenses for contract labor by county .....				
M84	Expenses for customwork, machine hire, and rental of machinery and equipment .....	2 176 467 000	2 024 693 000	151 774 000	7.5
M85P	Expenses for customwork, machine hire, and rental of machinery and equipment by county .....				
M86	Expenses for interest paid for farm business .....				
M87P	Expenses for interest paid for farm business by county .....				
M88P	Percent of farms with interest expenses paid by county .....	48.6	46.9	1.7	3.6
M89	Expenses for repairs and maintenance for upkeep of buildings, motor vehicles, and farm equipment .....	6 361 980 000	(NA)	(NA)	(NA)
M90P	Expenses for repairs and maintenance for upkeep of buildings, motor vehicles, and farm equipment by county .....				
LAND IN FARMS AND LAND USE					
M91	Land in farms .....	964 470 625	986 796 579	-22 325 954	-2.3
M92P	Land in farms as percent of land area .....	42.6	43.6	-1.0	-2.3
M93	Land in farms—change in acreage .....	964 470 625	986 796 579	-22 325 954	-2.3
M94	Total cropland .....	443 318 233	445 362 028	-2 043 795	-0.5
M95	Total cropland—change in acreage .....				
M96P	Total cropland as percent of land area .....				
M97P	Total cropland as percent of land in farms .....				
M98	Harvested cropland .....	19.6	19.7	-0.1	-0.5
M99	Harvested cropland—change in acreage .....	46.0	45.1	0.9	2.0
M100P	Harvested cropland as percent of land in farms .....	282 223 880	326 306 462	-44 082 582	-13.5
M101P	Pastureland as percent of land in farms .....	29.3	33.1	-3.8	-11.5
M102	Acres idled under annual commodity acreage adjustment program .....	53.5	53.4	0.1	0.2
M103	Acres in the conservation reserve program .....	43 152 685	(NA)	(NA)	(NA)
		9 870 669	(NA)	(NA)	(NA)
IRRIGATION					
M104	Irrigated land in farms .....	46 386 201	49 002 433	-2 616 232	-5.3
M105	Irrigated land—change in acreage .....				
M106P	Percent of land in farms irrigated .....				
M107P	Percent of harvested cropland irrigated .....				
M108	Irrigated pastureland and other land .....	4 618 445	4 569 425	49 020	1.1
M109P	Irrigated corn for grain or seed by county .....	8 003 163	8 465 530	-462 367	-5.5
M110P	Irrigated sorghum for grain or seed by county .....	1 305 706	2 186 499	-880 793	-40.3
M111P	Irrigated wheat by county .....	3 731 218	4 649 935	-918 717	-19.8
M112P	Irrigated soybeans for beans by county .....	2 591 565	2 321 138	270 427	11.7
M113P	Irrigated cotton by county .....	3 543 826	3 422 834	120 992	3.5
M114P	Irrigated alfalfa hay by county .....	5 516 145	5 530 813	-14 668	-0.3
M115P	Irrigated vegetables harvested by county .....	2 204 676	2 028 844	175 832	8.7
M116P	Irrigated land in orchards by county .....	3 358 824	3 347 435	11 389	0.3
VALUE OF LAND AND BUILDINGS <sup>2</sup>					
M117P	Average value of land and buildings per farm .....	289 387	345 869	-56 482	-16.3
M118P	Average value of land and buildings per acre of land in farms .....	627	784	-157	-20.0
MACHINERY AND EQUIPMENT ON PLACE <sup>2</sup>					
M119	Estimated market value of all machinery and equipment on place .....	85 801 360 000	93 662 947 000	-7 861 587 000	-8.4
M120P	Estimated market value of all machinery and equipment on place by county .....				
M121P	Average market value of all machinery and equipment per farm .....				
M122	Motortrucks, including pickups .....				
M123	Motortrucks, including pickups—change in number .....	3 437 042	3 435 194	1 848	0.1
M124	Wheel tractors .....	4 609 388	4 523 849	85 539	1.9
M125	Wheel tractors—change in number .....				
M126	Wheel tractors of less than 40 horsepower (PTO) .....				
M127	Wheel tractors of 40 horsepower (PTO) or more .....				
M128	Grain and bean combines .....	1 641 691	(NA)	(NA)	(NA)
M129	Pickup balers .....	2 967 697	(NA)	(NA)	(NA)
M130	Cottonpickers and strippers .....	667 128	644 311	22 817	3.5
		822 927	799 714	23 213	2.9
		42 914	49 563	-6 649	-13.4
AGRICULTURAL CHEMICALS USED <sup>2</sup>					
M131	Acres on which commercial fertilizer was used .....	211 072 699	224 635 378	-13 562 679	-6.0
M132P	Acres of cropland fertilized, excluding pastureland, as percent of harvested cropland .....	69.1	64.5	4.6	7.1
M133	Acres on which lime was used .....	12 585 961	11 607 206	978 755	8.4
M134P	Average tons of lime applied per acre .....	1.9	1.7	0.2	11.8
M135	Acres of crops, including hay, treated for insect control .....	68 823 002	72 848 009	-4 025 007	-5.5
M136	Acres of crops treated for nematodes .....	5 931 201	7 532 515	-1 601 314	-21.3
M137	Acres of crops and orchards treated for disease control .....	10 467 053	11 685 466	-1 218 413	-10.4
M138	Acres of land treated for weed or grass control .....	171 287 964	176 871 096	-5 583 132	-3.2
M139	Acres treated with chemicals for defoliation or for growth control of crops or thinning of fruit .....	9 497 102	9 322 028	175 074	1.9
TENURE AND CHARACTERISTICS OF FARM OPERATORS					
M140	Farms operated by full owners .....	1 238 547	1 325 773	-87 226	-6.6
M141P	Percent of farms operated by full owners .....	59.3	59.2	0.1	0.2
M142P	Percent of land in farms operated by full owners .....	32.9	34.7	-1.8	-5.2
M143	Farms operated by part owners .....	609 012	656 249	-47 237	-7.2
M144P	Percent of farms operated by part owners .....	29.2	29.3	-0.1	-0.3
M145P	Percent of land in farms operated by part owners .....	53.9	53.8	0.1	0.2
M146	Farms operated by tenants .....	240 200	258 954	-18 754	-7.2
M147P	Percent of farms operated by tenants .....	11.5	11.6	-0.1	-0.9
M148P	Percent of land in farms operated by tenants .....	13.2	11.5	1.7	14.8
M149P	Rented or leased land in farms by county .....	402 319 869	383 519 373	18 800 496	4.9
M150P	Percent of land in farms rented or leased .....	41.7	38.9	2.8	7.2
M151	Farms operated by Blacks and other races .....	44 640	54 367	-9 727	-17.9
M152P	Average age of farm operators .....	52.0	50.5	1.5	3.0
M153	Farm operators 65 years old and over .....	447 341	399 596	47 745	11.9
M154P	Percent of farm operators 65 years old and over .....	21.4	17.8	3.6	20.2
M155	Farm operators reporting any off-farm work .....	1 115 560	1 187 374	-71 814	-6.0
M156P	Percent of farm operators working off their farms 100 days or more .....	43.9	43.0	0.9	2.1
M157P	Percent of farm operators not residing on farm operated .....	21.2	19.2	2.0	10.4
M158	Farms operated by female operator .....	131 641	121 599	10 042	8.3
M159P	Percent of farms operated by female operator .....	6.3	5.4	0.9	16.7

See footnotes at end of table

# Summary of Mapped Data: 1987 and 1982—Con.

Map number	Title	Census year		Change from 1982 to 1987	Percent change
		1987	1982		
OCCUPATION OF OPERATOR					
M160	Farm operators reporting principal occupation as farming .....	1 138 179	1 234 787	-96 608	-7.8
M161P	Percent of farm operators reporting principal occupation as farming.....	54.5	55.1	-0.6	-1.1
M162P	Percent of farm operators with sales of \$10,000 or more reporting principal occupation as farming.....	76.6	78.9	-2.3	-2.9
M163P	Percent of farm operators reporting principal occupation as other than farming.....	45.5	44.9	0.6	1.3
FARMS BY TYPE OF ORGANIZATION					
M164	Farms operated by individual or family .....	1 809 324	1 945 639	-136 315	-7.0
M165P	Percent of land in farms operated by individual or family.....	65.1	65.1	0.0	0.0
M166	Farms operated by partnership .....	199 559	223 274	-23 715	-10.6
M167P	Percent of land in farms operated by partnership .....	15.9	15.4	0.5	3.2
M168	Farms operated by corporation.....	66 969	59 792	7 177	12.0
M169P	Percent of land in farms operated by corporation .....	12.4	12.9	-0.5	-3.9
LIVESTOCK AND POULTRY					
M170	Cattle and calves—inventory .....	95 847 299	104 475 827	-8 628 528	-8.3
M171	Cattle and calves—change in inventory .....				
M172P	Cattle and calves—inventory by county .....				
M173	Farms with 200 or more cattle and calves—inventory .....	88 311	95 653	-7 342	-7.7
M174	Cows and heifers that had calved—inventory .....	41 737 290	45 052 497	-3 315 207	-7.4
M175P	Cows and heifers that had calved—inventory as percent of cattle and calves .....	43.5	43.1	0.4	0.9
M176	Milk cows—inventory .....	10 084 697	10 849 890	-765 193	-7.1
M177	Milk cows—change in inventory .....				
M178P	Milk cows—inventory by county .....				
M179	Farms with 100 or more milk cows—inventory .....	20 359	19 674	685	3.5
M180P	Milk cows as percent of cows and heifers that had calved .....	24.2	24.1	0.1	0.4
M181	Beef cows—inventory .....	31 652 593	34 202 607	-2 550 014	-7.5
M182	Beef cows—change in inventory .....				
M183P	Heifers, heifer calves, steers, steer calves, bulls, and bull calves as percent of cattle and calves .....				
M184	Cattle and calves sold .....	72 603 841	71 216 727	1 387 114	1.9
M185	Cattle fattened on grain and concentrates and sold .....	27 817 762	27 674 400	143 362	0.5
M186	Fattened cattle sold—change in number .....				
M187P	Fattened cattle sold by county .....				
M188P	Fattened cattle sold as percent of cattle and calves sold .....	38.3	38.9	-0.6	-1.5
M189	Farms with 500 or more fattened cattle sold .....	4 516	5 065	-549	-10.8
M190	Hogs and pigs—inventory .....	52 271 120	55 366 205	-3 095 085	-5.6
M191	Hogs and pigs—change in inventory .....				
M192	Farms with 200 or more hogs and pigs—inventory .....				
M193	Hogs and pigs used or to be used for breeding—inventory .....	6 900 268	6 947 861	-47 593	-0.7
M194	Hogs and pigs used or to be used for breeding—change in inventory .....	10 446 090	10 356 971	89 119	0.9
M195	Litters of pigs farrowed between December 1, 1986, and November 30, 1987 .....	96 569 359	94 783 598	1 785 761	1.9
M196	Hogs and pigs sold .....	20 321 767	20 042 797	278 970	1.4
M197P	Hogs and pigs sold by county.....				
M198	Feeder pigs sold .....				
M199P	Feeder pigs sold as percent of hogs and pigs sold.....	21.0	21.1	-0.1	-0.5
M200	Hogs and pigs sold other than feeder pigs .....	76 247 592	74 740 801	1 506 791	2.0
M201	Sheep and lambs—inventory .....	11 059 397	12 438 011	-1 378 614	-11.1
M202	Sheep and lambs—change in inventory .....				
M203	Ewes 1 year old or older—inventory .....				
M204	Sheep and lambs sold .....	6 882 048	7 665 674	-783 626	-10.2
M205	Milk goats—inventory .....	9 965 563	10 766 037	-800 474	-7.4
M206	Angora goats—inventory .....	129 225	166 018	-36 793	-22.2
M207	Horses and ponies—inventory .....	1 702 166	1 240 738	461 428	37.2
M208	Chickens 3 months old or older—inventory .....	2 456 951	2 260 791	196 160	8.7
M209	Chickens 3 months old or older—change in inventory .....	373 577 186	362 464 997	11 112 189	3.1
M210P	Chickens 3 months old or older—inventory by county .....				
M211	Broilers and other meat-type chickens sold .....				
M212	Broilers and other meat-type chickens sold—change in number .....	4 361 975 630	3 516 622 889	845 352 741	24.0
M213P	Broilers and other meat-type chickens sold by county .....	243 336 202	172 034 935	71 301 267	41.4
M214	Turkeys sold .....				
M215	Turkeys sold—change in number .....				
M216P	Value of fish and other aquaculture products sold.....	333 155 000	167 819 000	165 336 000	98.5
CROPS HARVESTED					
M217	Corn for grain or seed .....	58 701 505	69 857 993	-11 156 488	-16.0
M218	Corn for grain or seed—change in acreage.....				
M219P	Corn for grain or seed by county .....				
M220P	Acres of corn for grain or seed as percent of harvested cropland .....	20.8	23.9	-3.1	-13.0
M221	Corn for silage or green chop .....	5 785 360	8 019 270	-2 233 910	-27.9
M222	Sorghum for grain or seed .....	9 760 574	12 678 843	-2 918 269	-23.0
M223	Sorghum for grain or seed—change in acreage .....				
M224P	Sorghum for grain or seed by county .....				
M225P	Acres of sorghum for grain or seed as percent of harvested cropland .....	3.5	3.9	-0.4	-10.3
M226	Wheat for grain .....	53 224 174	70 910 293	-17 686 119	-24.9
M227	Wheat for grain—change in acreage.....				
M228P	Wheat for grain by county .....				
M229P	Acres of wheat for grain as percent of harvested cropland .....	18.9	21.7	-2.8	-12.9
M230	Oats for grain .....	5 981 247	9 131 444	-3 150 197	-34.5
M231	Oats for grain—change in acreage .....				
M232	Barley for grain .....				
M233	Barley for grain—change in acreage .....	9 178 410	8 650 370	528 040	6.1
M234	Rye for grain .....	545 868	449 325	96 543	21.5
M235	Rice .....	2 424 864	3 232 987	-808 123	-25.0
M236	Soybeans for beans .....	55 291 205	64 832 842	-9 541 637	-14.7
M237	Soybeans for beans—change in acreage.....				
M238P	Soybeans for beans by county .....				
M239P	Acres of soybeans for beans as percent of harvested cropland .....	19.6	19.9	-0.3	-1.5
M240	Peanuts for nuts .....	1 436 034	1 237 606	198 428	16.0
M241	Dry edible beans, excluding dry limas .....	1 670 097	1 711 195	-41 098	-2.4
M242	Dry edible peas .....	232 847	262 877	-30 030	-11.4
M243	Cotton .....	9 826 081	9 781 404	44 677	0.5
M244	Cotton—change in acreage .....				
M245P	Cotton by county .....				
M246P	Acres of cotton as a percent of harvested cropland .....	3.5	3.0	0.5	16.7
M247	Sunflower seed .....	1 982 357	4 357 017	-2 374 660	-54.5
M248	Sugar beets for sugar .....	1 249 200	1 033 722	215 478	20.8
M249	Sugarcane for sugar .....	779 249	713 061	66 188	9.3
M250	Irish potatoes .....	1 309 963	1 268 213	41 750	3.3
M251	Irish potatoes—change in acreage .....				
M252	Tobacco .....				
M253	Tobacco—change in acreage .....	633 310	931 655	-298 345	-32.0

See footnotes at end of table

# Summary of Mapped Data: 1987 and 1982—Con.

Map number	Title	Census year		Change from 1982 to 1987	Percent change
		1987	1982		
	<b>CROPS HARVESTED—Con.</b>				
M254	Land from which hay was harvested .....	57 967 530	56 743 836	1 223 694	2.2
M255P	Land from which hay was harvested by county .....				
M256	Land from which hay was harvested—change in acreage .....				
M257P	Land from which hay was harvested as percent of harvested cropland .....				
M258	Alfalfa hay harvested .....	20.5	17.4	3.1	17.8
M259	Alfalfa hay harvested—change in acreage .....	23 629 792	23 916 744	-286 952	-1.2
M260	Tame hay harvested, other than alfalfa, small grain, and wild hay .....				
M261	Small grain hay harvested .....				
M262	Wild hay harvested .....				
M263	Grass silage, haylage, and green chop hay harvested .....	3 496 166	2 585 634	910 532	35.2
M264	Alfalfa seed .....	6 829 674	6 746 127	83 547	1.2
		4 633 008	4 394 988	238 020	5.4
		351 336	252 348	98 988	39.2
M265	Red clover seed .....	119 110	104 789	14 321	13.7
M266	Fescue seed .....	430 027	203 590	226 437	111.2
M267	Ryegrass seed .....	200 188	198 042	2 146	1.1
	<b>VEGETABLES</b>				
M268	Vegetables harvested for sale .....	3 467 563	3 330 637	136 926	4.1
M269P	Vegetables harvested for sale by county .....				
M270	Asparagus harvested for sale .....				
M271	Broccoli harvested for sale .....				
M272	Cantaloups harvested for sale .....	97 335	97 202	133	0.1
M273	Cucumbers and pickles harvested for sale .....	100 106	80 277	19 829	24.7
M274	Green peas, excluding green cowpeas, harvested for sale .....	129 810	113 981	15 829	13.9
		129 940	113 849	16 091	14.1
		290 753	281 350	9 403	3.3
M275	Head cabbage harvested for sale .....	90 011	90 360	-349	-0.4
M276	Lettuce and romaine harvested for sale .....	250 207	229 887	20 320	8.8
M277	Dry onions harvested for sale .....	115 601	117 453	-1 852	-1.6
M278	Snap beans harvested for sale .....	289 213	277 538	11 675	4.2
M279	Sweet corn harvested for sale .....	671 187	642 168	29 019	4.5
M280	Tomatoes harvested for sale .....	375 470	403 469	-27 999	-6.9
M281	Watermelons harvested for sale .....	193 127	184 043	9 084	4.9
	<b>FRUITS, NUTS, AND BERRIES</b>				
M282	Strawberries harvested for sale .....	53 085	49 262	3 823	7.8
M283	Tame blueberries harvested for sale .....	37 247	28 819	8 428	29.2
M284	Land in orchards .....	4 560 163	4 750 667	-190 504	-4.0
M285P	Land in orchards by county .....				
M286	Acres of apples .....				
M287	Acres of avocados .....				
M288	Acres of peaches .....	601 021	590 541	10 480	1.8
M289	Acres of pears .....	87 700	87 390	310	0.4
M290	Acres of cherries .....	239 698	247 561	-7 863	-3.2
		84 247	84 915	-668	-0.8
		131 064	134 194	-3 130	-2.3
M291	Acres of plums and prunes .....	151 183	140 413	10 770	7.7
M292	Acres of grapes .....	833 293	874 996	-41 703	-4.8
M293	Acres of oranges .....	791 248	918 714	-127 466	-13.9
M294	Acres of grapefruit .....	189 416	241 182	-51 766	-21.5
M295	Acres of lemons .....	68 837	76 680	-7 843	-10.2
M296	Acres of English walnuts .....	213 628	204 960	8 668	4.2
M297	Acres of almonds .....	427 705	439 668	-11 963	-2.7
M298	Acres of pecans .....	453 243	435 961	17 282	4.0
	<b>NURSERY AND GREENHOUSE CROPS</b>				
M299	Farms with nursery and greenhouse crops, mushrooms, and sod for sale .....	37 298	35 507	1 791	5.0
M300	Farms with nursery and greenhouse crops, mushrooms, and sod with value of sales of \$2,000 or more .....	32 527	(NA)	(NA)	(NA)
M301P	Value of nursery and greenhouse crops, mushrooms, and sod grown for sale .....	5 774 391 000	3 821 196 000	1 953 195 000	51.1
M302P	Value of bedding plants grown for sale .....	817 960 000	477 188 000	340 772 000	71.4
M303P	Value of cut flowers and cut florist greens grown for sale .....	594 478 000	417 695 000	176 783 000	42.3
M304P	Value of foliage plants grown for sale .....	603 174 000	(NA)	(NA)	(NA)
M305P	Value of potted flowering plants grown for sale .....	648 240 000	(NA)	(NA)	(NA)
M306P	Value of nursery crops grown for sale .....	1 991 009 000	1 155 422 000	835 587 000	72.3

(NA) Not available.

<sup>1</sup>Excludes abnormal farms; see text.

<sup>2</sup>Data are based on sample of farms; see text.



# PUBLICATION PROGRAM

## 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

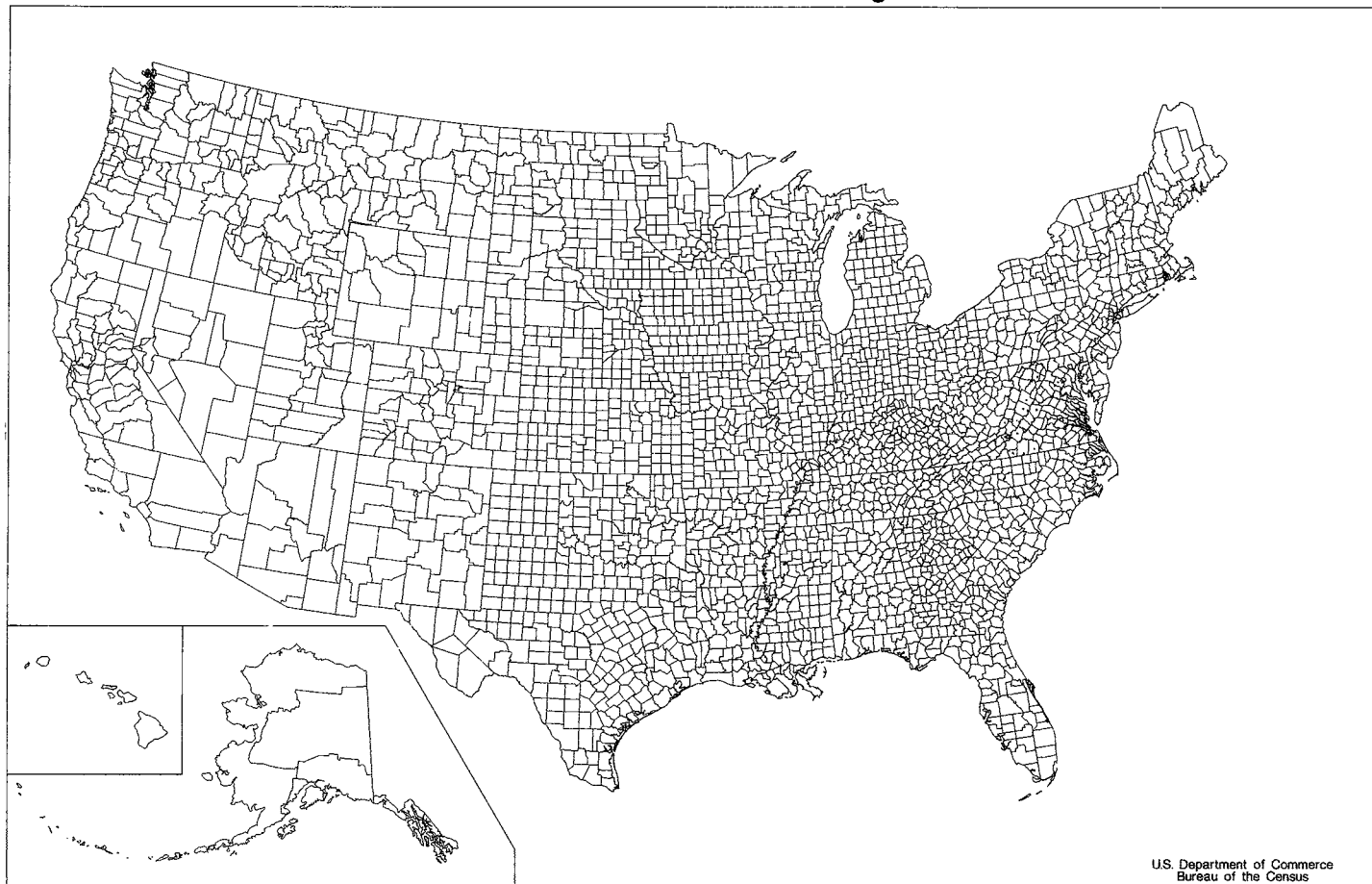
**Flexible Diskette**—The Advance Reports of the 1987 Census of Agriculture are available on flexible diskettes. The files can be used with any compatible microcomputer employing the PC-DOS 2.0 or higher operating system. Diskettes can be obtained by calling (301) 763-4100.

**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).

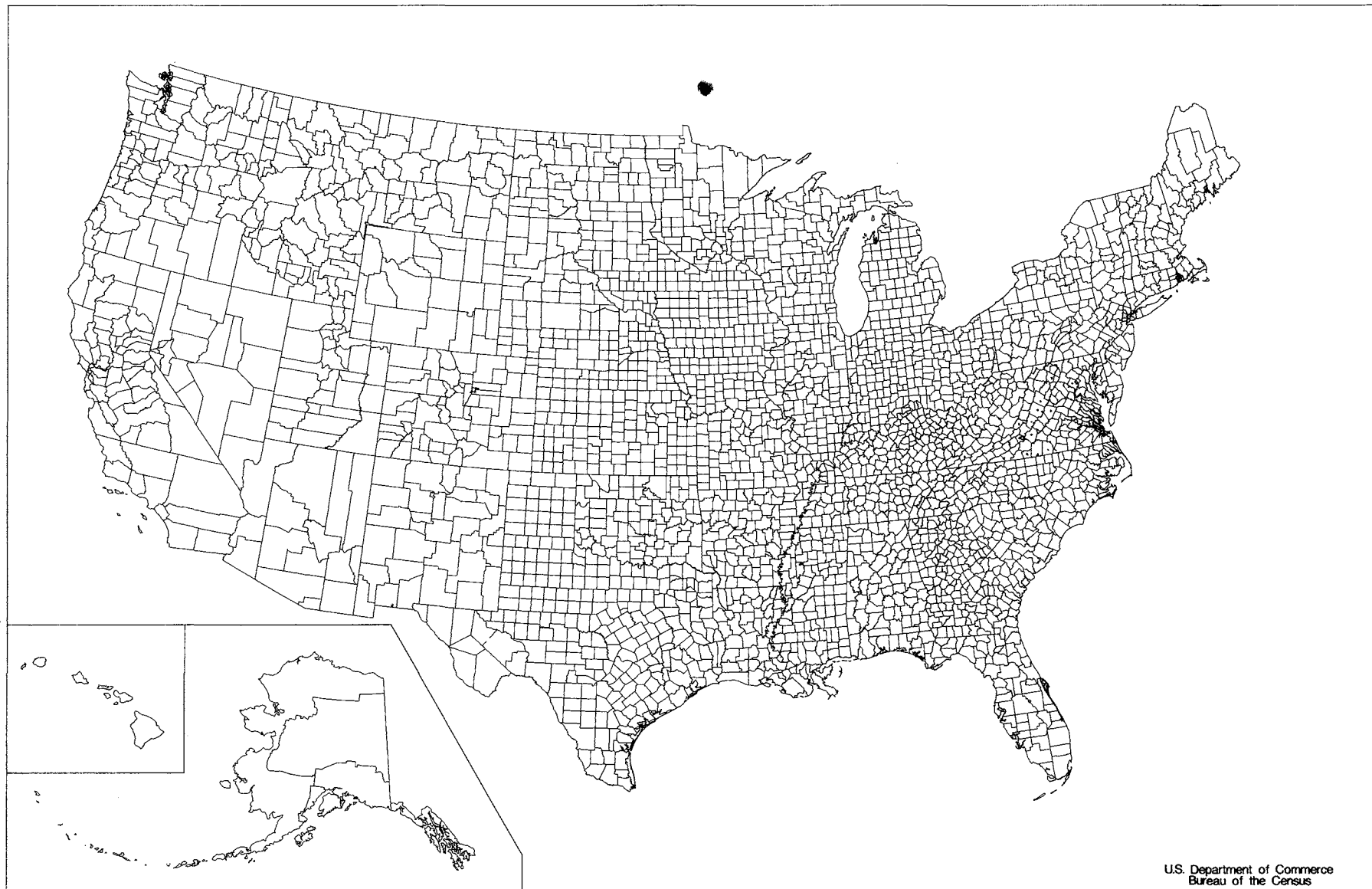
**Compact Disc-Read Only Memory (CD-ROM)**—Data for the conterminous United States and Puerto Rico are available on CD-ROM. The CD-ROM can be obtained from the Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233 (or call (301) 763-4100).

**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 AGRIDATA. For information on these services call (301) 763-4100.

## Boundaries for the 1987 Census of Agriculture



## Boundaries for the 1987 Census of Agriculture



U.S. Department of Commerce  
Bureau of the Census

