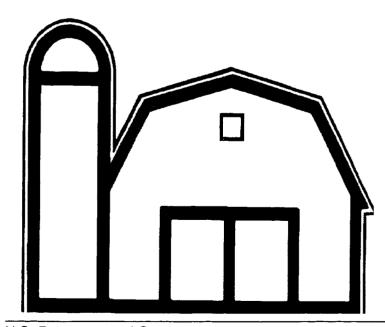
1987Census of Agriculture

AC87-S-4

Volume 2 SUBJECT SERIES

Part 4

History



U.S. Department of Commerce Economics and Statistics Administration BUREAU OF THE CENSUS

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1987

Census of Agriculture

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Part 4
History

Issued September 1992



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CONTENTS

	Page
Chapter 1. Introduction	 1
Background Information	
Legal Authority	
Uses of Agriculture Census Data	
Farm Definition	
1987 Census of AgricultureOrganization of the Census Bureau	
Chapter 2. Planning and Preliminary Operations	
Planning	
Consultation on the Census	
Report Form Design	
The 1985 Content Test	
The 1986 Short Form Test	15
Chapter 3. Preparatory Operations	17
Introduction	19
Address List Design	
Final Mail List	27
Printing and Addressing Report Forms	28
Chapter 4. Public Awareness Program	31
Introduction	32
Census Publicity Campaign	
Post-Census Publicity and Assistance to Data Users	
Chapter 5. Data Collection	37
Introduction	38
Census Mail Operations	38
Telephone Followup	41
Citrus Caretakers	43
Nonresponse Survey	44
Model Drop Survey	45
Results	45
Chapter 6. Data Processing	47
Introduction	48
Precomputer Processing	
Computer Processing	

		Page
Cha	apter 7. Census of Agriculture in Puerto Rico	. 61
	ntroduction	
	Preparatory Operations	
	ield Enumeration	
	Data Processing	
	Comparability of the Data	
Ρ	Publication Program	. 70
Cha	apter 8. Census of Agriculture in the Outlying Areas.	. 73
İr	ntroduction	. 75
	Guam and the U.S. Virgin Islands	
	merican Samoa and the Commonwealth of the Northern Mariana Islands	
	blication Program	
Cha	apter 9. 1988 Census of Horticultural Specialties and Program Sample Surveys	. 89
ı	ntroduction	. 91
	988 Census of Horticultural Specialties	
	988 Farm and Ranch Irrigation Survey	
	988 Agricultural Economics and Land Ownership Survey	
•	our rightsuntainar 200110111100 ama 2ama 0 minoromp our roy	. 0.
Cha	apter 10. Coverage Evaluation and Research	. 103
4	987 Coverage Evaluation	. 104
	987 Advertising Awareness and Response Behavior Study	
	Classification Tree Methodology Evaluation	
L	Disclosure Avoidance Research Study	. 108
Cha	apter 11. Publication Program	. 109
	ntroduction	
	ublication Media	
	Publication Process	
U	Comparability of the Data	. 114
AΡ	PENDIXES	
Α	Provisions of Title 13, United States Code, Relating to the 1987 Census of Agriculture	. 115
В	· · · · · · · · · · · · · · · · · · ·	
C		
D		
E	•	. 149

CONTENTS

Chapter 1. Introduction

	Page
Background Information	2
Legal Authority	5
Uses of Agriculture Census Data	2
Farm Definition	9
1987 Census of Agriculture	3
Legislation Affecting the Census	3
Scope and Reference Dates	3
General information	3
Scope of the 1987 census	4
Reference periods and dates	4
An Overview of the Census Operation	4
Data collection	4
Data processing and publication	4
Expenditures	4
Organization of the Census Bureau	5

BACKGROUND INFORMATION

At its founding late in the 18th century, the United States was a nation overwhelmingly agricultural; the vast majority of its citizens lived on and gained their livelihood from the soil. The situation has changed dramatically since that time, but agriculture remains a vital sector of the Nation's economy, and information about agriculture is crucial to the workings of business and government at all levels. The census of agriculture provides a periodic statistical picture of agriculture in the United States. Many of the same kinds of information are collected in periodic or occasional surveys by various Federal, State, or even private agencies, but the census remains the only source of data, for a specified reference period, comparable, county by county and State by State, for the entire Nation. Moreover, only the census presents these data while classifying agricultural operations by size, type, tenure, type of organization, and market value of products sold.

Article I, Section 2, of the United States Constitution requires that a census of population be carried out every 10 years for purposes of apportioning representation of each State in the House of Representatives, but even as the Constitutional Convention discussed the document in 1787, its principal author, James Madison, urged the census be used for more than counting heads. The first attempt to collect other than demographic data came in 1810—2 years after Madison's election as President—when the census requested information on manufacturing establishments, and included a single item asking whether the person enumerated was involved in agriculture (about 80 percent were). The first census of agriculture was attempted in 1840, as part of the decennial census program that also collected data on manufacturing and mining. The agriculture enumeration was not a great success, but the obvious value of information on agriculture led to the inclusion of agricultural censuses in the decennial programs until 1925, when agriculture was added to the mid-decade enumeration covering economic areas.

The timing of the agriculture census has been adjusted periodically since 1925, although it has continued on an approximate 5-year cycle. Through 1940 the agriculture enumeration was conducted concurrently with the other economic censuses, but changes in their schedules, intended to make more efficient use of the Census Bureau's resources and distribute the workload over the periods between the decennial censuses, caused the reference years to diverge. By the early 1970's, the agriculture census was for years ending in "4" and "9" while the economic censuses used as reference years those ending in "2" and "7." Public Law (P.L.) 94-229, in 1976, included a provision shortening the intercensal periods after the 1974 and the following agricultural census to 4 years each, restoring the concurrent census schedule for the agriculture and economic censuses for enumerations conducted for 1982 and later. (For more information on reference and enumeration dates, see Appendix B, Historical Background.)

The 1987 Census of Agriculture covered all agricultural operations in the 50 States, Puerto Rico, Guam, the U.S. Virgin Islands, and in conjunction with the 1990 Census of Population and Housing, American Samoa and the Northern Mariana Islands.

LEGAL AUTHORITY

The agriculture census is carried out by the Bureau of the Census, an agency of the U.S. Department of Commerce. Title 13, United States Code—Census, governing the agency's operations, establishes the censuses to be conducted, the intervals between censuses, and certain administrative procedures, and describes the duties of specified officials.

Chapter 1 (Administration) of title 13 describes basic administrative procedures within the Bureau, including collection and treatment of census and survey data and the qualifications and duties of census supervisors and other employees. Section 5 assigns the Secretary of Commerce responsibility for preparing census report forms and determining the number and type of inquiries included. Section 9 establishes confidentiality requirements for census data and forbids the "use of the information furnished ... for any purpose other than the statistical purposes for which it was supplied" The section also restricts access to census report forms to sworn Department of Commerce or Census employees and forbids publication of any information from a census or survey that could be used to identify a specific person or establishment.

Chapter 5 (Censuses), section 142, describes the type, frequency, and geographic scope of the agriculture, irrigation, and drainage censuses, and section 195 authorizes sampling to be used to carry out the provisions of title 13 (except for determining population to apportion congressional representation).

Chapter 7 (Offenses and Penalties), section 214, describes penalties (a fine of not more than \$5,000, imprisonment for not more than 5 years, or both) for any employee or staff member publishing or otherwise communicating to any person other than a sworn Department of Commerce or Census Bureau employee any data covered by the confidentiality provisions of the law. Sections 221 and 224 require response to the censuses and establish penalties for noncompliance (a fine of \$100 for individuals and \$500 for organizations).

USES OF AGRICULTURE CENSUS DATA

Agriculture is not only a basic industry within the United States but one of the most successful and productive sectors of the Nation's economy. Sales by agricultural operations in 1987 exceeded \$136 billion. Billions of dollars in investment capital, potential sales of other products, and government programs are at least partially dependent on reliable information on agriculture in the United States. The accuracy and completeness of the

census of agriculture are of vital importance, both to individual farmers and to data users who rely on the census statistics for a clear view of an essential component of the American economy.

Some of the major users of agriculture census data are the following:

- The U.S. Department of Agriculture (USDA) uses agriculture census data to (1) establish benchmarks or comparisons for many of its periodic sample estimates and projections; (2) aid in administering marketing orders, tracking marketing patterns, and promoting sales of agricultural products (including foreign sales—over \$26 billion in 1986); (3) provide information for operating and evaluating community and conservation programs; (4) measure distribution and production of plants and animals to aid in pest control; (5) estimate the effectiveness of Commodity Credit Corporation (CCC) loans and production adjustment programs; and (6) identify economic trends in agriculture.
- · Other U.S. Government agencies use agriculture census data on production, sales, and size and type of farm as part of such composite measures as the gross national product (GNP), farm income estimates, and productivity and price-level indexes. Census data also are used to aid in evaluating chemicals undergoing regulatory review, determine economic justification and financial feasibility of land reclamation projects, prepare studies and reports on trade and tariff matters, and produce studies or reports made at the request of Congress.
- · Administrative and legislative bodies at all levels of government use census data to design farm and rural programs and to analyze the results.
- · Farm organizations use census data to develop positions on agriculture policy and proposed legislation.
- · Private businesses, farm cooperatives, and commodity and trade associations use census data to aid in locating new plants and service and distribution facilities; allocating research resources; managing transportation and processing of agricultural products; market forecasting; selecting marketing areas; and in activities intended to better service the farm commu-
- Farm and agriculture news media use census data to provide technical background for news stories and feature articles, determine market shares, and identify types of agricultural operations they wish to reach.
- · Farm owners and operators can compare their own operations or data for their own county or State with data for other areas that have similar products.

FARM DEFINITION

Any attempt to collect data on a specified subject must first define what it is to trying measure, and what the source of the data will be. For the censuses of agriculture,

the reporting unit always has been the individual agricultural operation—the farm (for census purposes, the terms "farm" and "ranch" are interchangeable). The word "farm" can be applied to virtually any place on which some sort of animal or vegetable matter grows, however, so a definition of what constitutes a farm for census purposes is neces-

The farm first was defined for the 1850 agricultural enumeration, when the census used the term for any place with annual sales of agricultural products of \$100 or more. The definition has been changed several times since 1850 (see app. B), with sales or acreage criteria, but always the land involved must be used for or connected with agricultural operations, and it must be operated under the dayto-day control of one individual or management (e.g., partnership, corporation). Agricultural operations means producing livestock, poultry, or animal specialties and their products, and/or the production of crops, including fruits, and greenhouse or nursery products. The census and farm counts are made on the basis of the individual "farm," but the land making up the farm need not be a single contiguous tract; that is, several separate pieces of land may be a single farm when all are operated as a single unit. In cases where the land for a single farm is located in two or more counties, the data usually are tabulated with those for the county in which the most extensive agricultural operations took place.

The farm definition used for the 1987 Census of Agriculture was identical to that employed for 1982: A farm was any place that met the above requirements with respect to "agricultural operations" and individual control, and that had, or normally would have had, \$1,000 or more in total value of sales of agricultural products during the reference year. The farm definition for Puerto Rico and the other outlying areas involved other minimum sales: \$500 or a minimum of 10 cuerdas1 of land and \$100 in sales for Puerto Rico, \$100 for the other outlying areas.

1987 CENSUS OF AGRICULTURE

Legislation Affecting the Census

The scope of the census of agriculture in the 50 States was changed in 1985 with the passage of P.L. 99-544, which amended Title 13, United States Code, section 142, by eliminating the requirement that a census of drainage be carried out as part of the agricultural censuses. The most recent drainage census (part of the 1978 agriculture census program) had collected data only on public drainage projects.

Scope and Reference Dates

General information-The 1987 Census of Agriculture program included the basic enumeration of agricultural operations in the 50 States, Puerto Rico, the U.S. Virgin

¹A cuerda is approximately .97 acre.

Islands, Guam, American Samoa, and the Northern Mariana Islands, as well as a followon census and survey program including the 1988 Census of Horticultural Specialties, the 1988 Farm and Ranch Irrigation Survey, and the 1988 Agricultural Economics and Land Ownership Survey. The followon operations all used mail lists and samples derived from the lists of respondents to the 1987 agriculture census.

Scope of the 1987 census-The operating unit-generally the individual farm or ranch—is the basis of the agriculture census. The 1987 enumeration covered all places meeting the census farm definition in the areas enumerated (see above). Data collected from all farms in the 50 States (for the scope of the inquiries elsewhere, see chs. 7 and 8) included:

Acreage Crops Fruits and nuts Vegetables Nursery and greenhouse products Value of sales Land use Irrigated land Livestock and poultry Type of organization Characteristics and occupation of the operator Federal farm program participation

An approximate 25-percent sample of all respondents were asked to provide additional data on:

Production expenses Uses of commercial fertilizers or lime Uses of insecticides, herbicides, fungicides, nematicides, other pesticides, or other chemicals Machinery and equipment Current market value of land and buildings Income from farm-related sources in 1987

Reference periods and dates—The agriculture census for the 50 States asked for production, sales, expenditures, and income data for calendar year 1987, and for livestock, poultry, and other inventory data as of December 31, 1987. Citrus caretakers were asked to provide data from the bloom of 1987. For Puerto Rico and the other outlying areas, the reference periods and dates were as follows:

Area	Inventory data as of—	Production data as of—
Puerto Rico	July 1, 1988	12 months ending June 30,1988
Guam	Date of enu- meration	Calendar year 1987
U.S. Virgin Islands	Date of enu- meration	Calendar year 1987

Area	Inventory data as of—	Production data as of—
American	Date of enu-	Calendar year
Samoa	meration	1989
Northern Mar-	Date of enu-	Calendar year
iana Islands	meration	1989

An Overview of the Census Operation

Data collection-Until 1969 the agriculture census was carried out by personal interview; a temporary staff of enumerators visited farms and ranches to collect the information. The Census Bureau adopted the mailout/mailback enumeration method for the 50 States in 1969, and has used it for all succeeding censuses. This method requires compiling a mail list of names and addresses of agricultural operations. The agency assembled a list of over 16 million possible farm addresses for the 1987 census. This list ultimately was reduced to approximately 4.1 million addresses. The census data collection included an initial mailing of questionnaires late in December 1987 to each of the addresses on the census list. A reminder/ thank you card and five followup mailings were carried out at 1-month intervals between the middle of January and June 1988. A telephone followup operation was used for selected large nonrespondent operations.

The 1987 census enumerated a total of 2,087,759 farms, with an average size of 462 acres, and average annual sales of \$65,165. By comparison, the 1982 census figures showed 2,240,976 farms, with an average size of 440 acres, and average annual sales of \$58,858.

Data processing and publication—Data from report forms for the 50 States were entered on computer tape at the Bureau's Jeffersonville, IN, facility. The data were edited using interactive minicomputer systems, tabulated on the mainframe computer in Suitland, MD, and published on a State flow basis. (Data from report forms for Puerto Rico and the outlying areas were partially edited at the Puerto Rico field office, using minicomputer facilities there, then transmitted to headquarters.) The first Advance Reports for States and counties were released in September 1988, while the first Volume 1, Geographic Areas Series report was issued in January 1989. The various publications for the followon surveys and miscellaneous special reports were released on a flow basis after the completion of the data collection and processing for the specific operation involved. The Bureau prepared public-use computer tapes for each State and released them as the printed reports were published. In addition, the agriculture census data were made available on flexible diskette, compact discread only memory (CD-ROM), and online.

Expenditures

The total cost of the 1987 Census of Agriculture and its associated followon surveys came to approximately \$67.5 million. Planning for the enumeration began in 1985,

before the completion of the 1982 census program. The addition of the followon surveys, the censuses in American Samoa and the Northern Mariana Islands, and extensive work on reducing the size of the census mail list, led to an increase in the census program's cost for 1987, compared with the 1982 program (for which expenditures came to approximately \$57.4 million). Expenditures by fiscal year for the 1987 census were as follows:

Fiscal year	Expenditures
Total	\$67,472,000
1985	1,004,000
1986	7,406,000
1987	11,317,000
1988	31,243,000
1989	9,834,000
1990	6,668,000

ORGANIZATION OF THE CENSUS BUREAU

For most of the period embracing 1987 census operations, the Bureau of the Census was organized under a director, a deputy director, and five associate directors responsible for specific operational and administrative areas—demographic fields, economic fields, management services, statistical standards and methodology, and field operations. (A sixth associate director, for decennial censuses, was added in June 1988, assuming responsibility for the divisions most immediately concerned with planning and promoting the decennial census of population and housing.) Subordinate to the associate directors were six assistant directors with specific responsibilities for decennial censuses, international programs, economic surveys, economic and agriculture censuses, administration,

and automatic data processing. A seventh assistant directorate, for communications, directly subordinate to the director and deputy director, was abolished in January 1987.

The associate and assistant directors oversaw the various divisions and offices that comprise the Census Bureau. These units were organized in broad functional categories: (1) subject matter (e.g., Agriculture, Population, Housing and Household Economic Statistics, etc.), (2) data collection and processing (Data Preparation, Systems Support), (3) statistical research and services (Statistical Research, Center for Survey Methods Research), (4) administration and services (Budget, Technical Services, Personnel), and communications and public services (Data User Services, Public Information).

The Agriculture Division carried out the 1987 Census of Agriculture under the overall supervision of the Associate Director for Economic Programs and the Assistant Director for Economic and Agricultural Censuses. Other Census Bureau divisions made major contributions to the census, especially the Economic Programming Division, which prepared many of the programs for mail list development and data processing; Field Division, which operated 12 regional offices and trained and supervised the field interview staffs; Data Preparation Division in Jeffersonville, IN, responsible for handling mailing, part of the telephone followup, and most of the precomputer processing of the report forms; and the various automatic data processing and publication services divisions. (A list of the key personnel and divisions for the 1987 Census of Agriculture, as well as Census Bureau organizational charts for the census period, are included in app. C.)

CONTENTS

Chapter 2. Planning and Preliminary Operations

	Page
Planning	8
Considerations	
Preliminary Planning	
Consultation on the Census	
General Information	
Consultation with Governors, State Departments of Agriculture, and Land-Grant Universities	
Interagency Working Group	
The Census Advisory Committee on Agriculture Statistics	
Report Form Design	12
The Regionalized Report Forms	
The Short Form	12
The 1985 Content Test	
General Information	
Report Forms	
Sample Selection	13
Mailout and Followup	13
Mailing packages	
Mailout and mail followup	
Field interviews	14
Telephone interviews	14
Response rates	14
Processing	14
Analysis and Results	14
General information	14
Mail followup methods	15
Questionnaire style and content	15
Optical mark-recognition (OMR) questionnaire	15
Nonresponse analysis	
Alternate keying methods	15
The 1986 Short Form Test	15
General Information	15
Report Form	15
Sample Design	15
Mailout and Response	16
Results	16

PLANNING

Considerations

The purpose of the agriculture census is to collect and publish data on agriculture in the United States. In planning and carrying out the census, the Census Bureau must weigh the data needs of the Federal Government and other users against the ability, and willingness, of agricultural operators to supply the information requested. Farmers and ranchers are among the most regulated and surveyed members of the American population; the census report form is not only one more questionnaire they are required by law to complete, but it often requests information similar to that collected by the U.S. Department of Agriculture (USDA) and/or other government agencies.

Costs are a major consideration as well. The Bureau adopted a mailout/mailback enumeration procedure for the 1969 census, partly because it was more economical than hiring a field staff of thousands of people to carry out a door-to-door enumeration. Mailing costs represent a significant portion of the cost of each census and there is continued interest in saving money by reducing the size of the initial mail list-by identifying and deleting "nonfarm" addresses from the list. Good, early, response in the data collection also reduces the costs of followup to nonrespondent addresses.

Once the data are collected, they are processed and tabulated, and the more detailed the tabulations and the more cross tabulations (by such factors as race, age, tenure, etc.), the better for data users; but processing and tabulation take time and cost money as well, and in the census neither time nor money are available in unlimited quantities. The more elaborate and detailed the tabulations and cross tabulations, the longer the period between the collection of the data and its publication, and timeliness in the publication of statistics is very important. Consequently, the volume of detailed tabulation and cross tabulation have to be limited to produce reliable statistics for publication within established time and budget constraints.

All this means the planning for any census must take a variety of factors into consideration—data needs, respondent burden, the ability of respondents to accurately report the data requested, cost, timeliness of publication, and such indirect influences as public attitudes toward government operations at a given time, government objectives (such as "paperwork reduction") not directly related to the program being planned, and the economic climate of the Nation in general and the farm sector in particular.

Preliminary Planning

The first appropriations specifically for the 1987 Census of Agriculture operations were part of the Bureau's fiscal 1985 budget, but preliminary planning began well before

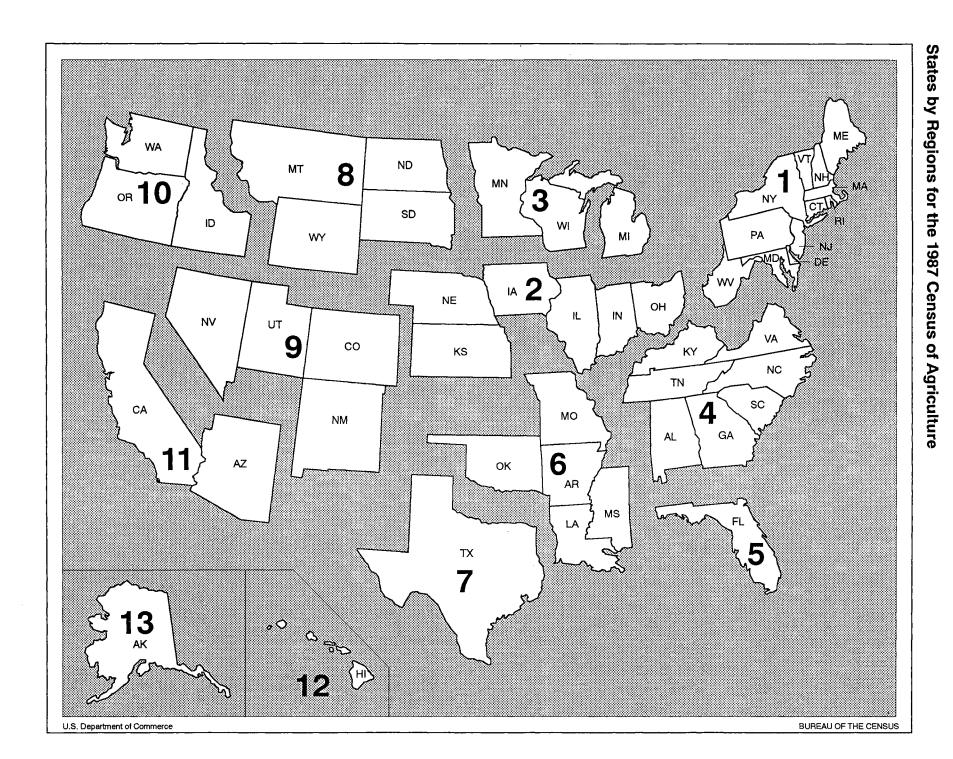
that. Agriculture Division staff began studies for the upcoming enumeration almost immediately after the data collection effort for the 1982 census closed in 1983. A variety of changes and modifications of the basic census program were considered in these early stages, along with plans for the censuses of irrigation (this census actually collected data from irrigation organizations (see the 1978 Census of Agriculture Procedural History for information on the previous census of irrigation organizations)) and horticultural specialties (required by law every 10 years), and for program sample surveys of farm and ranch irrigation and agricultural economics and land ownership.

The early plans for the 1987 program included the census of the 50 States, Puerto Rico, and the outlying areas, plus the decennial censuses of irrigation, drainage, and horticultural specialties. Congress abolished the census of drainage (see ch. 1) and the irrigation organizations census was canceled because of lack of funds. The Census Bureau planned to employ mail enumeration for the 50 States, and field interviewing elsewhere. The census of horticultural specialties would be carried out in the year following the census enumeration (with reference year 1988), using mail lists drawn from the census respondent list for the 50 States.

Preliminary plans did not call for major changes in the format or content of the report forms; as for 1982, regionalized data collection forms would be used, with relatively minor changes in the data requested. The report forms would collect basic inventory and sales data from all farms, while an approximate 25-percent sample of farm operators also would be asked to supply additional information on certain subjects, such as production expenditures, machinery and equipment, income from farm-related sources, and value of land and buildings.

The Census Bureau initially planned to carry out a farm and ranch identification survey, similar to the one prior to the 1982 census, to identify and remove nonagricultural operations from the mail list, but cost and response burden constraints prohibited such a preliminary operation. The Office of Management and Budget (OMB) addressed the cost of the mail census by issuing a directive in 1986 restricting the total size of the initial census mailout to 4.2 million addresses, and the number of regular census report forms that could be included to no more than 3.2 million. The OMB wanted the Census Bureau to use a short, screener report form1 for addresses considered least likely to be farms. The agency adopted this plan, and mailed a two-page report form (the standard agriculture census report forms were four (nonsample) and six pages (sample) long) to approximately 900,000 addresses considered least likely to be farms.

¹Form 87-A0400 was designed as a data collection instrument, but with a "screener" section that enabled respondents that were not associated with agricultural operations to skip to the end of the report form without completing the data information sections.



The Bureau planned to expand the automated processing of census returns by introducing the use of minicomputers to carry out many of the clerical processing and preliminary editing tasks at both the Jeffersonville, IN, processing office and in the field office in Puerto Rico, which would also be responsible for preliminary handling of report forms from the other outlying areas. Plans for data publication also emphasized computerized data files; while the standard printed reports and magnetic tapes would be released, there also would be advance data on flexible diskette as well as advance reports accessible to users through various online systems. The Bureau also decided to release the volume 1 (Geographic Area Series) agriculture census data in the compact disc read-only memory (CD-ROM) format.

CONSULTATION ON THE CENSUS

General Information

The Census Bureau's mission is to furnish statistical data for use by public and private users. Thus one of its major concerns must be to determine which data are needed. Since the data must be supplied by individuals and/or organizations outside the agency itself, a second concern has to be the ability of respondents to provide the data requested.

The Bureau maintains regular contact with data users and suppliers to obtain suggestions and advice on census content, primarily through the Bureau's standing Census Advisory Committee on Agriculture Statistics. Other contacts include direct consultation with the Governors' offices, the 50 States' departments of agriculture, the land-grant universities, an interagency working group established to advise the Bureau on Federal agency data needs, and the Bureau's own outreach to data users.

Consultation With Governors, State Departments of Agriculture, and Land-Grant Universities

State governments are heavy users of agriculture census data and the Bureau routinely requests their assistance in publicizing the census. The Governors and State agriculture departments have a considerable interest in the content of the census questionnaires as well as in the completeness and accuracy of the enumeration. In January 1985, the Bureau mailed letters to the Governors' offices of each State as well as to their respective departments of agriculture, and land-grant universities, requesting advice and suggestions on data content for the 1987 census. By March 1985, written responses had been received from nearly half the Governors' offices and from over 35 of the State agriculture departments and about 30 land-grant universities, and the Agriculture Division began a telephone followup to those that had not replied. Most of the "nonrespondents" indicated that they had no requests for additional data or significant changes to the report forms.

The Bureau established the proposed final content of the data report forms in August 1985, and in the following October, reports on the final content and planned format and design of the report forms were sent to all the offices and agencies that had requested changes for the 1987 census.

Interagency Working Group

The Federal Government is the principal user of the agriculture census statistics. In January 1985, the Bureau contacted 19 Federal agencies that make significant use of the census, requesting them to appoint representatives to take part in a working group to review their agencies' data needs. The working group met only once, on February 9, 1985, to discuss the 1987 census report forms and make recommendations on content, but Bureau staff met separately with agency representatives to consider detailed questions and to better understand their requests. The following offices participated:

U.S. Department of Agriculture

U.S. Department of Commerce

Bureau of Economic Analysis

Economic Development Administration

Congressional Budget Office

Library of Congress

Congressional Research Service

Office of Technology Assessment

U.S. Department of Energy

Energy Information Administration

Environmental Protection Agency

Office of Pesticide Programs

Farm Credit Administration

U.S. Department of Health and Human Services

National Center for Health Services Research and Health Care Technology Assessment

U.S. Department of the Interior

Bureau of Land Management

Geological Survey

U.S. Department of Labor

Bureau of Labor Statistics

The Census Bureau had a separate meeting with representatives of several Department of Agriculture agencies on February 20, 1985, for additional consultation on data content, and the staff met separately with officials of these offices for detailed discussions.

The Census Advisory Committee on Agriculture Statistics

The Census Bureau first established an Advisory Committee on Agriculture Statistics for the 1940 agriculture census. From 1940 through 1959, the Committee remained a temporary organization, assembled before each census and disbanded once the data from that operation were published. (Before 1940, any advice to the Bureau on the

agriculture census or associated programs came from the General Advisory Committee that reviewed all of the agency's programs.) The Bureau obtained a permanent charter for the Committee in 1962, establishing it as one of the agency's five ongoing advisory bodies. As before, agricultural organizations would be selected and invited to participate in the census program in an advisory capacity. Each would send a member to the new Committee, subject to the approval of the Director of the Bureau of the Census and the Secretary of Commerce.

The member organizations and their representatives for the 1987 census period (October 1, 1985, through September 30, 1990) were:

Organization Agricultural Publishers Association	Representative James D. Rieck (from 1986) Richard J. Pommrehn (to 1986)
American Agricultural Eco- nomics Association	Jerald J. Fletcher (from 1989) Darrel L. Good (to 1989)
American Farm Bureau Federation	Terry L. Francl (from 1987) Ronald J. Herr (to 1987)
American Feed Industry Association	Norman Coats
American Meat Institute	Jens Knutson (from 1986) Dewey Bond (to 1986)
Association of Research Directors, Inc.	Sidney Evans
Conference of Consumer Organizations	William Fasse
Farm and Industrial Equipment Institute	David W. Maaske (from 1987) Stanley Pendlum (to 1987)
Federal Statistics Users Conference	John T. Wilkins
The Irrigation Association	Robert C. Sears (from 1987) H. Gene Koch (to 1987)
National Agri-Marketing Association	Allan J. Hietala (from 1988) Orville M. Thompson (to 1988)
National Agricultural Chemicals Association	Jarrad D. Blank (from 1986) Dudley Clark (to 1986)
National Association of State Departments of Agriculture	Thomas W. Ballow
National Association of	B. F. Stanton

Organization	Representative
National Cattlemen's Association	John Ross
National Council of Farmer Cooperatives	Joseph D. Coffey
National Farmers Organization	Willis Rowell (from 1988) Robert Pangburn (1986-87) Dave Kozishek (to 1986)
National Farmers Union	Ivan W. Wyatt (from 1987) John Stencel (to 1987)
National Food Processors Association	Regina Hildwine
The National Grange	Leroy Watson
Rural Sociological Society	Ronald C. Wimberley
U.S. Department of Agriculture, National Agricultural Statistics Service*	Charles E. Caudill (from 1987) William Kibler (to 1987)

^{*}The Statistical Reporting Service (SRS) until 1987.

Statistics Canada, the Office of Management and Budget, the U.S. Department of Agriculture, and the Bureau of Economic Analysis, as well as other Government agencies, private organizations, and the public, frequently sent observers to the meetings. Outside observers and the public could offer comments and recommendations to the Census Bureau and the Committee during periods of each meeting set aside for public comment. Census staff prepared and published minutes of each meeting, including any Committee recommendations and the Bureau's responses.

During the 1987 agriculture census period the Committee met six times, as follows:

Date	Location
November 19, 1985	Suitland, MD
June 19, 1986	Suitland, MD
May 7, 1987	Suitland, MD
May 18, 1988	Clarksville, IN
May 24, 1989	Fresno, CA
April 18, 1990	Alexandria, VA

The Committee served as the Census Bureau's primary contact with users outside the Federal Government and provided advice and recommendations on data needs, the ability of respondents to supply data requested, data collection methodology, content and format of report forms, and publicity for the census. With regard to program and policy matters affecting the 1987 agriculture census, the members addressed a number of specific concerns, advising the Bureau to-

1. Change the scope and content of the 1987 irrigation census to match that of the 1979 Farm and Ranch Irrigation Survey (FRIS).

State Universities and

Land-Grant Colleges

- Retain the farm definition adopted for the 1978 and 1982 censuses (i.e., any place that had, or normally would have had, total annual sales of agricultural products of \$1,000 was considered a farm).
- 3. Try to publish 1987 agriculture census data at the five-digit ZIP Code level.
- 4. Include a survey of farm finance in the 1987 census program.
- 5. Investigate the possibility of developing computer software for use with the new CD-ROM products.
- Make no attempt to define a "commercial farm" in its statistics, but provide data for an array of sales classes so users could make their own "breaks" as needed.
- Ensure that the 1987 census mail list be of adequate size to maintain previously attained levels of completeness.

REPORT FORM DESIGN

The Regionalized Report Forms

The Secretary of Commerce has the official responsibility for determining the content of all census report forms, but delegates this task to the Bureau of the Census. The actual design of the 1987 Census of Agriculture report forms was done by the Bureau's Agriculture Division, assisted by the Forms Design Branch of the Administrative and Publications Services Division (APSD).

The Bureau tested the general design of the report forms in the 1986 content test, using the results to refine the design before finalizing the questionnaire content.

As noted earlier, the 1987 census employed the same "regionalized" format for the regular census questionnaires as was used in the 1982 enumeration. Working from a "base" of standard data to be requested from all agricultural operations, the staff developed separate versions of the sample and nonsample report forms for use in each of 13 geographic regions of the United States. All versions had identical formats and layouts, consisting of a core of standardized nonsample and sample inquiries asked of all agricultural operations in all regions (i.e., acreage, total value of sales, location, and so on), and a set of production, inventory, and sales items (e.g., field crops, fruits, nuts, etc.) that applied specifically to agricultural operations in each region. (The regions are shown on the map on p. 9.) Specific form numbers and ink colors identified the region and type of form to help with sorting and processing. The numbering system used was the same as was adopted for the 1982 census; i.e., the prefix "87-A" identified the report form as a 1987 agriculture questionnaire, and was followed by four digits, the first two identifying the report form as a nonsample (01), sample

(02), or "must" (03) form, and the last two, the geographic region covered by that particular form—01 through 13. A composite form, "014," served as an informational document.

The Short Form

The OMB directive regarding the reduction in the size of the mail list and reduced respondent burden (see p. 8) compelled the Bureau to develop a short (two-page) form, 87-A0400, for use in the census as well. This questionnaire was not regionalized; it asked whether agricultural operations of any scale were taking place and, if so, requested some limited information on those operations. The Bureau mailed this form to addresses on the census mail list that were least likely to represent census farm operations. It was intended to collect enough information on very small agricultural operations to enable the Bureau to determine whether they qualified as census farms, and if so, to impute census data not specifically requested on the form.

The short form was tested in December 1986 in a mailout to approximately 3,100 addresses selected from the 1982 census mail list. The responses received were used to modify the form. (See below for details of this test.)

Appendix F describes the changes in the general content of the report forms and displays facsimiles of representative census questionnaires and other forms.

THE 1985 CONTENT TEST

General Information

The Census Bureau routinely carries out precensus tests of report form content and format and general census procedures to refine plans for each enumeration. Plans for the 1987 census originally called for minimum changes in census content and enumerative procedures because of the generally good results obtained by the methods and report form designs used in the previous two agriculture enumerations. Nevertheless, requests for content changes and the continuous attempt to improve coverage and data quality led to proposals for new data items. Adding new items required the deletion of others to maintain the approximate length and response burden of the 1982 census. The Bureau completed preliminary design work on the basic report form in the summer of 1985. Two versions were prepared for testing. Each version included all the items on which the Bureau proposed to request data from a sample of agricultural operations. The test, between December 1985 and the end of March 1986, of the new report forms evaluated the following factors:

- The collectability of new data items requested by users
- Alternative mail followup procedures, particularly the use of a short questionnaire to follow up "hardcore" nonrespondents

- The effect on quality of response of alternative questionnaire formats
- · Alternative keying methods

Report Forms

The Bureau tested two proposed formats for the sample questionnaire, forms 85-A1 and 85-A2. The A1 form was virtually identical in size and format to the 1982 sample forms—it was an 11" x 14" six-page folder printed in black ink on white stock with a blue screening shading. Since a major part of the test was to obtain information on the collectability of several new data items, the A1 was used as the principal vehicle and as a control for the A2. Approximately 40,000 addresses (see Sample Selection below) received A1 report forms in the pretest. The A2 form was an 8 1/2" x 11" 12-page booklet, printed in black ink on white stock with vellow shading. The last page of each form contained information on the need for the census and the confidentiality of the data.

The principal content changes to the report forms were as follows:

Section 1. Acreage in 1985	Data on grazing permits issued on a per head basis were requested by the agency issuing each permit.
Section 2. Crops	The wheat item was broken out into separate requests for data on winter wheat, durum wheat, and spring wheat other than durum.
Section 5. Nursery and Greenhouse Crops	Separate items requested data on flowering and foliage plants.
Section 7. Fruit Trees	The list item for cherries was broken out into cherries, sweet, and cherries, tart.
Section 9. Gross Value of Crops Sold	A separate item for barley was added under cash grains.
Section 12. Land Irrigated	Item on source of water used for irrigation was deleted.
Section 16. Animal	Several items were deleted

In addition, all questions on expenditures were combined into a single section (21 on the A1, 24 on the A2) on Production Expenditures, and new items on rent paid, property taxes paid, and other production expenses were added to the section. Two new sections were added to the form:

listing.

from the Other Livestock

1. Section 10, Government CCC Payments (Government CCC loan data were collected in the 1982 census in a section combined with customwork). 2. Section 26, Income From Farm-Related Sources in 1985.

A third report form, an optical mark-reader (OMR) form, was developed to use in followup of respondents. It requested certain basic data and asked the respondent to fill in circles on the form with a pencil. An optical scanner read the filled circles and entered the data directly to a computer data file.

Sample Selection

The Bureau selected a national sample of approximately 44,000 farms for the 1985 Content Test. The sample was randomly selected from 1982 census farms with total value of products sold (TVP) less than \$500,000, 1982 farms whose sizes were unknown at mailout (mail size code 13), and 1982 nonrespondents with mail size code 13. The sample was divided into five panels for testing response to various mail enumeration methods. Panels 1-4, including about 40,000 of the sample addresses, received the folder style test forms, while panel 5 (approximately 801 addresses) received a booklet style test form. Panels 1-4 also were used for other test variations; panels 1 and 2 had no pretest contact, while panels 3 and 4 did; all addresses in panels 1 and 4 received a thank you/reminder card after the initial form mailout. All respondents received another report form in the mail 4 weeks after the initial mailout.

A sixth "panel" consisted of about 3,100 addresses from six cluster counties, which would be subjected to personal interviews following the mail test to determine the reasons for respondents' inability or refusal to answer particular items. The specific counties in this cluster sample were selected on the basis of their agricultural characteristics—as reported in the 1982 census—and to provide for some geographic dispersal. The counties were:

Adams County, PA	Fresno County, CA
Brown County, SD	Sampson County, NC
Dawson County, TX	Yakima County, WA

Mailout and Followup

Mailing packages—Four types of mailing packages were used for the pretest:

- 1. A preview package, sent to some 21,000 addresses before the regular test mailing, consisted of a letter and two statistical brochures to illustrate the kinds of data collected in the census
- 2. A data collection package containing the appropriate report form, a cover letter, an information sheet, and return envelope, used for the initial mailout and one followup mailing
- 3. A reminder card used for the first followup mailout only
- 4. A followup letter/card package

Specialties

Mailout and mail followup—The data collection program for the pretest consisted of a preview mailing to addresses on panels 3-5, the initial mailout, and three followup mailings. The initial mailout comprised packages for the five panels and the cluster counties, or 43,936 packages. The details of the mailings are shown in Table 2-1.

The content test included a final followup mailing on April 10 to the remaining nonrespondent addresses in panels 1-5. This final mailout was used to close out the mail test for the A2 booklet form, and to test response to a proposed optical mark-recognition (OMR) form compared with the regular report forms. The staff mailed A1 report forms to approximately two-thirds of the nonrespondent addresses in panels 1-4 (9,128 in all), half with promotional flyers and half without. The remaining nonrespondents (4,452 addresses) were sent the OMR form, half with and half without the flyer.

Field interviews—A sample of 100 respondents in each cluster county were reinterviewed with the object of determining their ability to provide the data requested, and the reasons for nonresponse to specific sections of the report form. The Bureau selected addresses for reinterview based on an inconsistency/nonresponse analysis of the first 175 report forms keyed for each county. The Agriculture Division staff identified sections or items containing responses inconsistent with data reported elsewhere on the form, or else left blank. The Agriculture Division organized staff members in teams of interviewers—one team of five or six for each county-and team leaders distributed the report forms for the assigned county to his or her team. The field teams visited assigned addresses to interview the person who originally had completed the report form, even if that person was not actually the farm operator. When personal visits were impossible, respondents were interviewed by telephone.

Telephone interviews—A telephone interview operation tested the ability of the OMR form to accurately classify addresses as agricultural operations. The Bureau selected a sample of 600 addresses that received the OMR form in the last followup for a telephone reinterview. Between May 12 and May 22, 1986, interviewers contacted and completed interviews with 581 respondents. The Agriculture

Division staff compared the results of the interviews to the status assigned from the information on the corresponding OMR form. The interviews showed the OMR form was not a reliable means of collecting data needed to accurately classify farms.

Response rates—Final closeout for the test was May 14; at that time, the mail test had achieved a 74-percent overall response rate, excluding postmaster returns (PMR's). The response rate for the OMR form was 24.6 percent (with no followup after the single mailing of the forms on April 10), considerably higher than originally anticipated since it was used for what might be termed "hardcore" (i.e., multiple refusal) nonrespondent addresses.

Processing

Respondents returned their report forms to the Census Bureau's Data Preparation Division (DPD) office in Jeffersonville, IN, where the forms were checked in and edited. Tallies of receipts were made by selected characteristics, such as panel, type of report form, type of mail followup procedure, and so on, for later analysis.

During processing, an alternative keying method was tested. The goal of this project was to determine whether an alternative keying method could speed up processing. The test compared the regular method employed in previous censuses with a proposed streamlined procedure. Using the regular method, the operator keyed the code for each individual item of data; in the alternate method, the operator keyed only the first keycode for each line of items, e.g., the code for corn, followed by data for acres harvested, quantity harvested, and acres irrigated, without intervening codes.

Analysis and Results

General information—The Bureau designed the content test to consider five major items:

- 1. Mail followup methods
- 2. The effect of questionnaire style and content on response

Table 2-1. Panels

Item mailed	Date	11	2	3	4	5	Cluster counties
Preview	12/06/85	_	_	10,014	10,010	801	
Initial mailout	12/31/85	10,017	10,017	10,014	10,010	801	3,077
Reminder card	01/15/86	9,903	_	-	9,842	801	3,054
Report form followup	02/07/86	5,555	6,116	6,087	5,444	422	1,591
Card/letter	03/06/86						
Card		1,898	2,134	2,119	1,885	129	-
Letter		1,900	2,132	2,114	1,888	130	

- 3. Use of the OMR questionnaire for "hardcore" nonrespondents
- 4. Reasons for nonresponse
- 5. Alternative keying methods

Overall response rates were used to study items 1-3, while detailed reinterviews of selected respondents provided information on reasons for nonresponse. The staff also reviewed the keyed data files to analyze data keying procedures.

Mail followup methods—The results of the test indicated that (1) the precensus notice was ineffective in improving response, (2) the thank you/reminder card mailing used as the first followup did improve response rates, (3) a letter was more effective than a card in later followup mailings for most addresses (there was no significant difference in the results achieved for addresses with size code 13), and (4) the fact sheet proved ineffective.

Questionnaire style and content—The content test used addresses on panels 4 and 5 to test response achieved by a folder form compared with a booklet form. There proved to be no significant difference in respondents' views of the two types of forms, and participants in the reinterviews in the cluster counties thought the two forms were equally easy to complete. In the cluster counties, however, all respondents received the folder type form, then were shown the booklet form. No reverse of this test was done.

The reinterview operation in the cluster counties was the primary source of information for studying response to questionnaire content and reasons for nonresponse. The principal recommendations were that the form include more detailed instructions for reporting land use, that an item on crops grown on contract be added to section 9 (Gross Value of Crops Sold), that a yes/no box be added to sections 9 and 10 (Government CCC Loans) for use in the skip pattern, and that the word "none" above the column of "none" boxes in sections should be in bold letters.

Optical mark-recognition (OMR) questionnaire—While the short form improved response slightly in the first two weeks following the mailing, there was no significant improvement thereafter, and the information on the form sometimes proved inadequate to accurately classify the operation as a farm or nonfarm. The Jeffersonville staff also carried out tests using contractor-supplied optical readers to determine the readability of the OMR forms. The test showed that the equipment could not read about 12 percent of the forms, necessitating clerical review and classification. These factors led the Agriculture Division to reject using the OMR questionnaire in the census.

Nonresponse analysis—The three most frequently cited reasons given by addressees for not completing the report form were that they (1) did not think the form applied to their operation (16 percent), (2) did not want to give information (14 percent), and (3) other reasons (48 percent).

Alternate keying methods-The regular and proposed alternative keying methods were examined in relation to the number of keystrokes required, quality of keying (i.e., accuracy), keying time, and cost. The results indicated a slight reduction in the number of keystrokes required using the alternative method, and a higher error rate for the alternative method for forms from the southeastern and west north central regions (the Bureau was unable to find any specific reason for this). Cost per form for using the regular method proved to be approximately 8 percent higher than the alternative, due, in part, to the much higher verification rate used (over 50 percent of all report forms were verified; in the census, the verification rate was nearer 7 percent). The results of the alternate keying analysis led the Agriculture Division to recommend continued use of the regular method.

1986 SHORT FORM TEST

General Information

In the summer of 1986, the Census Bureau requested clearance from the Office of Management and Budget (OMB) to conduct the 1987 Census of Agriculture. At that time, plans called for an initial mailout of approximately 4.6 million report forms. The OMB requirements (see p. 8 above for details) restricted the census mailout to no more than 3.2 million regular census forms, but would permit using an additional 1 million or so short forms. The 1985 Content Test showed that the OMR form—which requested ranges of values rather than specific ones—did not provide sufficient data to accurately determine the farm status of an addressee, or for detailed imputation of agricultural commodities, so the Agriculture Division developed another short (non-OMR) report form designed to satisfy these requirements. The new short form was tested in December 1986 by mailing it to a national sample of approximately 3,000 addresses.

Report Form

The test form, 86-A04, was a single-sheet, two-page. 10 1/4" x 14" form, printed with black ink and purple shading on white stock. Its 10 sections included a screening question that asked whether the recipient had grown any crops or had any livestock or poultry during 1986. The rest of the form collected basic data on acreage, land use and irrigation, inventory and sales, Government CCC loans and Federal farm program payments, acres set aside or diverted under Federal acreage reduction programs, and characteristics and occupation of the operator. The mailout packages consisted of the report form, a cover letter explaining the test and requesting a response, an instruction sheet, and a return envelope.

Sample Design

The short form test sample was drawn from 1982 inscope addresses (excluding Alaska and Hawaii) with reported total value of agricultural products sales (TVP's) under \$40,000 and addresses that qualified as farms on the basis of acreage or inventory, rather than on actual sales. The survey sample was divided into four strata based on sales, and each stratum was systematically sampled to extract 1,500 addresses from each. The individual stratum samples then were subsampled; all cases with three-digit standard industrial classification (SIC) codes of 016, 017, or 018 (vegetables, fruit, horticulture) were selected, together with 1 in 2 of all other cases. The final sample size was 3,136 addresses.

Mailout and Response

The test forms were mailed from the Suitland, MD, headquarters, on December 5, 1986, with a response due 10 days after receipt. There was no mail followup. The Bureau set January 28, 1987, as the final cutoff date for responses, by which time 1,713 forms had been returned, including 176 postmaster returns (PMR's, cases returned by the Postal Service as undeliverable). The overall response rate—approximately 54.6 percent (excluding PMR's)—was similar to that achieved by the 1982 census prior to the first followup mailing. The Bureau selected 590 of the respondents (based on a combination of SIC codes and a random sample of all other cases) for telephone followup interviews to verify farm status. The telephone staff obtained data from 533 of the 590 cases, while 10 respondents

refused to be interviewed. Failure to contact the remaining 47 cases was due largely to unlisted telephone numbers or no answer to calls.

Results

Subjective analysis of the responses obtained on the short form, and the information from respondents interviewed, showed respondents found certain sections of the short form difficult to understand. The screener question in section 1 incorrectly eliminated some inscope farms (about 10 percent of operations identified as out of scope because of the response to the screener question were reclassified as in scope after interviews with the respondents) while sections asking the respondent to describe specific kinds of agricultural activity (most particularly section 4, part 9, requesting data on fruit orchards, citrus, vineyards, and nut trees) did not make clear to the respondent what information was needed. The test also appeared to indicate that once respondents started to fill out the report form, they tended to complete the form without regard to "skip" instructions—over 40 percent of the respondents answering "no" to the screener question went on to provide agricultural data on the form.

The Agriculture Division changed the screener question and modified the layout of section 4 (crops) on the basis of the test results. (See app. G for facsimiles of the short form and a representative standard report form.)

CONTENTS

Chapter 3. Preparatory Operations

	Page
Introduction	19
Address List Design	
Introduction	
General Procedures	
Sources	
Preliminary list	
Final list	
Source priority codes	
Format and Standardization	
General information	
Source file numbers (SFN's)	
Source record edit	
Name control	
Surname locator	
Address indentification	
Size coding	
Possible partnership or corporation (PPC) flags	
EIN/SSN Record Linkage	
General information	
EIN linkage	
SSN linkage	
Geographic Coding	
General information	
Master geographic reference file	
Mail-file processing	
Name and Address Linkage	
General information	
Identification of name parts	
Name recode	
Record linkage	
Clerical Resolution of Possible Duplicates	
General information	
ZIP Code sample	25 25
Trace sample	
Control counts	
Statistical Modeling	
General information	
Classification tree methodology	
Mail list preparation	
Source-list record linkage	
Final Mail List	
General Information	27

F	Page
Census File Numbers (CFN's)	27
Must Cases	27
Mail List Sampling	28
Printing and Addressing Report Forms	28
General Information	28
Address Labels	28
Printing, Assembling, and Addressing	28
General information	28
Quantities	29
Quality control	30
Multiunits and abnormals	30
Labeling	30

INTRODUCTION

Discussions about refining plans for the 1987 agriculture census continued practically up to the date of the first census mailing, but by early 1986 specific preparations for the enumeration itself began. These preparations included three major activities:

- 1. Compiling the census mail list
- 2. Printing and addressing the report forms
- 3. Promoting the census (for information on the promotion campaign, see ch. 4)

In addition, continuing discussions with the Office of Management and Budget (OMB) about the size and composition of the initial mailout resulted in the design and test of a new "short" screening report form for use in the census mailing.

Preparing the census mail list required the acquisition, compilation, and "linkage" of records from various sources. Linkage involved identifying duplicate records, analyzing source and address codes, and deleting the record with the lower priority (i.e., from sources considered less reliable in providing current and complete mailing addresses) codes after transferring the identification data to the higher priority record, and attempting to classify by size the various addresses believed to represent farms. A linkage operation was carried out as part of each of the two major address list assembly operations in the winter and spring of 1986-87, and the summer and fall of 1987. After each linkage operation, the Bureau applied a classification tree model (see p. 28) to the resulting address lists, grouping addresses according to their likelihood of being a farm. Once the final list was compiled, final preparations included assigning census file numbers and sampling for data collection.

The Bureau finalized the content of the standard report forms in January 1987, and tested a "screening" form in December 1986 and early 1987. The screening form (87-A0400) design was finalized in March 1987. (See app. F for a description of the report forms and for facsimiles of representative forms.) The report forms and other enumeration materials were printed by private contractors who also assembled the bulk of the mailing packages. Once the mailing list for the first mailout was complete, the Bureau's Jeffersonville, IN, facility printed the address labels and affixed them to the mailing packages. Approximately 4.1 million mailing packages were prepared for the first census mailout in December 1987.

ADDRESS LIST DESIGN

Introduction

The Census Bureau introduced the mailout/mailback procedure for the agriculture census in the 1969 enumeration. While more economical in both workforce and funding requirements than the personal interview

enumeration, the mail census requires a complete and accurate list of addresses for operations that meet the census definition of a farm. Moreover, the ideal list should not include duplicate addresses, or addresses that do not meet the census farm definition; every duplicate or nonfarm address means additional mailing costs, and added response burden that can undermine the cooperation of respondents and the accuracy of the data collected.

Thus, compiling the mail list is a major part of the census operation. This was particularly true for the 1987 enumeration because of the limit set on the total size of the list, and the number of standard and sample report forms that could be included in the first mailing. The OMB directed the Bureau to restrict the number of packages in the first census mailing to no more than 4.2 million; approximately 3.2 million could be regular and sample report forms, while the remainder were to be screening forms used to determine whether suspect addresses met the census criteria for farms. The 1982 census mailing had been somewhat smaller (3.65 million packages), but had been preceded by a Farm and Ranch Identification Survey mailing to over 3.1 million addresses, and the results of that mailing were used to reduce the total size of the census list.

General Procedures

The Bureau compiled the mail list for the 1987 Census of Agriculture from previous census mail lists and from current or nearly current administrative records from various Federal agencies concerned with agriculture. The list was assembled in a two-phase operation, the first between October 1986 and April 1987, using records from previous censuses and the latest available administrative records, and a second phase, carried out between July and November 1987, with additional addresses drawn from the National Agricultural Statistics Service (NASS) and the Internal Revenue Service (IRS). This enabled the Bureau to (1) include more recent records in the second phase than were available for the earlier operation, (2) refine procedures for greater efficiency, and (3) review the use of the classification tree model employed to identify groups of addresses according to the expected proportion of census farms in each group.

The two processing phases employed similar procedures, and included seven major operations:

- 1. Uniform record formatting
- 2. Matching and deleting ("linking") duplicate records based on employer identification number (EIN) or Social Security number (SSN)
- 3. Geographic coding
- 4. Matching and deleting duplicate records based on name and address
- 5. Assigning source and size codes
- 6. Manually reviewing possible duplicates
- 7. Identifying groups of records by expected (or estimated) proportion of census farms in each group

Sources

Preliminary list—The Bureau began preparing the 1987 mailing list in October 1986, using the main computer facilities at Suitland, MD to compile and process the preliminary source list records. This first-phase linkage operation involved approximately 10.2 million records, drawn from the following sources:

Source	Records
Total	10,242,159
1982 Census of Agriculture farm list	2,027,123
1982 Census of Agriculture non-	
respondents	563,848
1982 Census of Agriculture nonfarms	986,360
1982 Farm and Ranch Identification	
Survey nonfarms	1,258,275
NASS farms	1,759,378
NASS nonfarms	488,457
1985 IRS, SSA records*	3,120,644
Special commodity lists	38,074

*Included IRS records for the following forms:

1040F Schedule for Farm Income and Expenses (attached form 1040, Individual Tax Return)

1120 Corporation Income Tax Return (for SIC codes 01, 02, 07)

1065 Partnership Return of Income (for SIC codes 01, 02, 07)

941/94 Employers' Annual Tax Returns for Employers (941 coded SIC 01, 02, and 07 (Agriculture) for nonagricultural workers, and 943 for agricultural workers)

Final list—The Bureau completed the first linkage operation in April 1987 and produced a preliminary mail file of 5,921,660 addresses. All of these addresses were included in the final linkage process—begun in July 1987—together with approximately 3.2 million additional records not available for the first-phase processing. Altogether the second phase mail list linkage program included over 9.1 million records, as follows:

Source	Records
Total	9,174,143
Preliminary list records	5,921,660
1982 Census of Agriculture farms	1,385
NASS farm adds	209,161
NASS nonfarm adds	623
1986 IRS, SSA records	2,911,840
Special commodity lists	113,595
USDA June Enumerative Survey (JES)	15,879

The second-phase matching and linkage operation was completed in September 1987, at which time the mail list consisted of 6,043,157 records.

Source priority codes—The Bureau assigned an address source priority code to each source providing records for the agriculture census mail list compilation operation. These codes were assigned based on the probability of a given source file containing a high percentage of complete and current addresses. (The determination itself was based largely on experience in mail list compilation from past

censuses.) The principal sources and their priority codes were as follows:

Source	Priority code
Multiunits and abnormals*	1
IRS 1040F list	2
IRS 1065 list	3
IRS 1120 and 1120S list	4
IRS 941 and 943 list	5
1982 Census of Agriculture inscope list	6
NASS list frame	7
Special lists	8
1982 Census of Agriculture non- respondents list	9
1982 Census of Agriculture out-of-scope	
list	10
1982 Farm and Ranch Identification	
Survey out-of-scope list	11
NASS list-frame nonfarms	12
#66 # lat ta . 2)	أتسم والمنفيد وفرواريم المفا

^{*&}quot;Multiunits" were companies or organizations with substantial agricultural operations in more than one location. "Abnormals" were farms operated by institutions, such as State research facilities.

Format and Standardization

General information—The Bureau collected over 12 million separate names and addresses from various sources in the two-phase mail list compilation operation, many of which were duplicates. Before any linkage could identify and delete duplicates, the agency had to establish a computer record format compatible with its processing programs, and standardize the different computerized records assembled from the source lists. This required a series of operations to identify each record's components and to reformat them as necessary, including (1) assigning a source file number (SFN—a unique identification number) to each record; (2) editing each record; (3) determining name control (usually the first four surname letters); (4) inserting a surname locator; (5) identifying each address; (6) assigning size codes; and (7) assigning potential partnership or corporation (PPC) flags.

In addition, the format and standardization program identified agricultural services records and records for ZIP Codes outside the 50 States for deletion from the mail file. The following computer files were established to help computer processing of the mail file:

Agriculture services records (for deletion)

Records with ZIP Codes outside the 50 States (for deletion)

Trace sample (used to evaluate processing efficiency)

Records without an employer identification number (EIN) or Social Security number (SSN)

Records with EIN's and/or SSN's

"Short" records with EIN's with or without SSN's

[&]quot;Short" records with SSN's only

"Short" post office name records for records without EIN's or SSN's

Tally file (by size and geographic code)

All serialized records (all records from the input files with their source file numbers (SFN's)

Source file numbers (SFN's)—The format program assigned a unique identification number to each computerized record to locate and identify that specific record, and the source from which it was drawn. Ranges of eight-digit numbers were reserved for each source used in the mail compilation and the computer program assigned numbers from these ranges to the appropriate records during the initial processing run.

Source record edit—The basic edit program placed all source records (i.e., names and addresses from the various sources) into a common format for computer processing. The common format used consisted of four types of fields:

- 1. Primary and secondary name
- 2. Address
- 3. Place (city, State, and ZIP Code)
- 4. Processing codes

The edit program assigned an address priority code to each record to identify the specific source list of origin for use in the linkage operation, and thus determine which source record to retain in the case of duplicates. A special program was used to edit source lists with surnames first, switching the order of the names (e.g., changing "Smith, John," to "John Smith").

The primary edit program also removed commas, periods, and certain special symbols from the name and address fields, inserted spaces between adjacent numeric and alpha characters, and substituted standard two-digit State abbreviations for State names or old-style abbreviations. For example:

Mr. James M. Doe, Jr.
2429 State #345 became 2429 State 345
Hodag, Wis. 55555 Hodag WI 55555

Name control—The "name control" for a record usually consisted of the first four characters of the surname, and was used to determine possible duplicate status when linking records based on the EIN's or SSN's. Many of the source records used for the census list already had name controls, but the various sources used different methods for assigning them; before linkage could proceed, the Bureau had to establish a uniform method to use on all the records. The formatting program read the name field in each record from right to left until it identified a nonnumeric word with three or more characters, and matched that word to a "skip list" dictionary containing a list of words

and abbreviations (such as "Farm," "Dairy," "Bros.," "& Sons," and so on) that might appear in the name field but were unlikely to be the surname. The first nonnumeric word with three characters or more that was not on the "skip list" was used to determine the name control for that record. The first four characters (from left to right) of this word were inserted in the name control field. If the computer program found no usable word after scanning the entire primary name field, the original name control provided was used. (If none was provided, the field was left blank.)

Surname locator—The formatting program inserted an indicator—the surname locator—in each record to identify the field position of the first character of the name control. If the name control field was blank, the record could not be recoded (for details of the name recode, see below) for name and address linkage.

Address identification—The formatting program organized the source records' addresses for alphabetic name linkage. Numeric characters were identified and extracted from the address field. The program identified box, rural route, and street address numbers and placed them in two specific data fields, one for rural route numbers, the other for box and street numbers. The program scanned each address from left to right until a numeric "word" (i.e., one or more numeric characters) was identified. If it was the first word in the field, it was stored in the box/street field; otherwise the word preceding the numeric word was matched to a dictionary of acceptable words (e.g., "Box," "RFD," "Rte,"-although words such as "No." or "Number" were ignored). If the word matched one of those in the dictionary, the numeric then was stored in the appropriate field. Words that did not appear in the dictionary program prompted the computer to scan the rest of the field and, if nothing had been extracted for either of the storage fields but one or more numeric words had been identified, to place the first of the numeric words in the box/street field. For example, for an address that included "Rte 3, Box 324," the computer located the "alpha" words "Rte" and "Box" in the dictionary and inserted "3" in the rural route number field, and "324" in the street/box field. If no numeric words had been found, the storage fields were left blank.

Size coding—The format program assigned a size code to each record based on the size indicators in the records when received from the sources. The code was inserted in a specific data field, depending on the source of the individual record. During record linkage, all the size codes for any record were retained by transferring the code from any record deleted as a duplicate to the appropriate field of the retained record. After linkage and deletion of duplicates, the program had the computer scan the size codes for each record; if multiple codes were present, the particular code retained depended on the size priority code for each source. These sources, and their size indicators were as follows:

Source	Size indicator
Source	Size iliulcat

	4.20
IRS forms 1040F, 1065 and 1120	Gross receipts
1982 Census of Agriculture I/S (in scope)	Total value of prod- ucts sold, from 1982 census report
IRS form 941	Cash wages
IRS form 943	Payroll
1982 Census of Agriculture non- respondents	1982 mail size code
Multiunits	All size code 15
Abnormals	All size code 16
Special lists	Varied by list (usu- ally based on com- modity inventory)
NASS list	USDA Farm Cost and Return Survey (FCRS) farm value
NASS nonfarms	All size code 17
1982 Census of Agriculture out-of-scope and 1982 Farm and Ranch Identification	All size code 17

If no size indicator could be determined from any source, the computer assigned size code 17 ("unknown").

Possible partnership or corporation (PPC) flags—The computer program identified and "flagged" certain records as possible partnership or corporation (PPC) cases to prevent computer deletion of partnership or corporation records that had been matched with individual records. For example, John Doe might operate an individual farm as a sole proprietorship, while also having a partnership operation with Joseph Smith. In this case, the computer could match the partnership record to Doe's individual record on the basis of his name and employer identification number (EIN) and delete one or the other record as a duplicate. A PPC flag on the Doe/Smith record would change the match status to a "possible duplicate" and the clerical review would determine the final disposition.

EIN/SSN Record Linkage

Survey out-of-scope

General information—Employer identification numbers (EIN's) and Social Security numbers (SSN's) provided the easiest way of linking duplicate records from the various source lists. Roughly 9 out of 10 records from the different lists collected for the census mail list included an EIN, an SSN, or both. Computer programs matched these numbers on each record to other records in the files to identify (1) unique records, (2) possible duplicates, and (3) positive duplicates. When possible duplicate records were identified, they were "displayed" (i.e., printed out) for clerical

review. Positive duplicates—those with matching EIN's or SSN's, matched name controls, and without possible partnership or corporation (PPC) flags—were subject to a computerized source priority code review, and the record with the higher numeric priority code was deleted from the file. (Source priority codes were assigned in reverse numerical order; i.e., a priority code of "5" meant the record had a lower priority than a record with a code of "1.")

The programs linked records based on matching EIN's to EIN's and SSN's to SSN's; records with both went through two separate linking cycles. While the EIN and SSN linking processes were carried out separately, review of possible duplicates from both was part of the general clerical review after each phase of the linkage operation in the winter of 1986-1987 and the fall of 1987.

EIN linkage—All records with an EIN were subject to the EIN linkage process. The computer program had the computer sort these records by EIN, and by PPC flag, name control, and address priority code, and then send them into the matching cycle in code priority order. That is, the record that would be deleted always entered the cycle after the record that served as the original, called the "deleting" record. The matching cycle moved the records from the sorted input file to temporary storage for the linkage operation. The computer then "wrote" the processed records to one or the other of two output files, one for records with EIN's only, and all records for deletion, and the other for records with both EIN's and SSN's (the latter would be subject to another linkage operation using the SSN's).

When the EIN's matched, the computer compared the name controls and checked for a PPC flag; if the name control matched and there was no PPC flag, the records were identified as a positive match. The sorting done prior to the linkage operation ensured that Record 2 had a lower source address priority code than Record 1, so Record 2 was flagged for deletion. The computer transferred all of the deleted record's source, size, and geographic codes to Record 1, and then read it into the appropriate output file, while a new record moved into the Record 2 location.

When EIN's matched but the name controls did not, or when one or both records contained a PPC flag, the records were declared possible duplicates. No codes were transferred, but a "possible duplicate pair" number was inserted in both records, linking them so they could be displayed together for clerical review. If Record 1 already had a pair number, the same number was inserted into Record 2; Record 1 then was written into the output file and Record 2 moved into the Record 1 location. This cycle continued until the input file was exhausted, all duplicates had been flagged, and all possible duplicates assigned pair numbers.

SSN linkage—The Bureau merged the "EIN with SSN" output file from the EIN linkage operation with the "SSN only" file to create the input file for the SSN linkage operation. The input file was sorted by SSN, PPC flag,

name control, and address priority in the same fashion as the EIN linkage input file, and the same basic linkage procedures were employed, except for the use of "dummy" file records and assignment of pair numbers.

The SSN linkage operation used "dummy" records (duplicates of the master records except that a second SSN was substituted for the original, allowing linkage of the two records) because some records drawn from the IRS 1040F file contained two Social Security numbers (usually those of spouses) and the records had to be linked to both SSN's. The computer linked only one data field for each record, hence dummy records were created for 1040F records with two SSN's. After linkage, the operation matched the dummy records to the master records for each, transferred any codes picked up during processing to the master, and deleted the dummy records.

Pair number assignment in the SSN linkage operation differed from the procedures used in the EIN operation in that there were cases in which two records were possible duplicates, but each had a different pair number assigned during EIN linkage. During the SSN linkage phase, such suspected duplicate cases retained their original pair numbers, and a secondary "collision" pair number was inserted into each record to tie suspected duplicates to the SSN-linked record.

Geographic Coding

General information—The name and address linkage operation was carried out within five-digit ZIP Code number or ZIP group number (for cities with multiple ZIP Codes), but the records in the mail file had to be geographically coded before any linkage could be done. Every record entering the name and address linkage process had standardized and edited agriculture census geographic codes, i.e., State and county numeric codes, county "alpha" (alphabetic) codes, and ZIP Codes.

Master geographic reference file—The Bureau's master geographic reference file provided the geographic codes needed to standardize and update the geographic information in the address lists. The reference file was created by combining computerized information from the ZIP Code reference file and the 1982 inscope files. The ZIP Code file listed all the post office names and ZIP Codes in the United States; each post office name entry included the standard full spelling and any known variations, as well as a fully recoded spelling, together with the State and county numeric and alpha codes, ZIP Code, and telephone area code. Matching the ZIP Code reference file to the 1982 inscope file produced a master list of unique ZIP Codes with proper and common variant spellings of most post office names, and the most likely county location for each ZIP Code—the latter based on reported primary location of the majority of farm records with that ZIP Code from the 1982 inscope file. (The computerized record for each address included two State/county geographic code fields, one for the mailed State/county geographic code, drawn

from the ZIP Code reference file, and one for the reported State/county geographic code. The reported code was used to establish the census file number (CFN) for each record.) The county location was not used to code all records, since about 25 percent of the post offices listed served more than one county. ZIP Codes not matched to the 1982 inscope file retained their original county code.

Mail-file processing—Once the master geographic reference file was ready, the Bureau used it to edit the census mail file records in a series of computer operations that (1) checked the validity of the ZIP Code/post office name match on each record; (2) inserted ZIP Codes, post office names, and county and State alpha codes into records missing these items; (3) standardized spellings of post office names; and (4) assigned (mailed and reported) county and State numeric codes.

After geographic coding, the mail file was ready for name and address linkage.

Name and Address Linkage

General information—After EIN/SSN linkage and deletion, the records remaining in the mail file underwent a third matching operation using names and addresses. The name and address linkage process recoded name parts using a modified SOUNDEX system¹ similar to that used in the three previous agriculture censuses to compare names and addresses on records in the file. (The 1987 plans incorporated the 1982 improvements to the system to include the use of first and middle initials, and of numeric characters in the address.) The linkage program (1) identified name parts, (2) recoded the name in each record for linkage purposes, and (3) linked names and addresses and deleted positively identified duplicate records from the file.

Identification of name parts—The name parts in the first and second name fields in each record had to be identified before the names could be recoded. To do this, the computer compared all the words in each name field to the "skip list" (see above); words matched to words on the skip list were ignored. The computer then scanned the name fields and classified all the remaining characters and/or "character strings" (i.e., groups of two or more characters) as a surname, single letter, conjunction (e.g., "&," "and," and so on), or "other." The surname was identified using the surname locator assigned in the initial format program (see above); conjunctions were identified

¹An indexing system that keeps together surnames of the same or similar sounds but of variant spellings. This system compensates for errors or changes in spellings over generations. The agriculture census used a modified Soundex system, that gave more weight to the specific spelling of the name, and truncated the surname for easier and more rapid access of computerized records. In this system, records bearing the names "Broom," "Bruem," and "Brume," for example, would be indexed together to check variant spellings of the name, and would be indexed under "BRM-." Other like-sounding variants, however, such as "Brougham," or "Bruham," would be indexed under "BRGH" and "BRHM," respectively.

by comparing each word to another computerized dictionary, and classifying the individual words accordingly. Each word was identified with a numeric designator (e.g., surname = "3," conjunction = "4," single letter = "2," other = "1").

After classifying each character and character string in each field, the operation retained the assigned codes, in sequence, as the name pattern. This pattern for each record then was used to identify each word or letter in the field. The computer compared the name pattern to a file of acceptable name patterns which sequentially identified each word as a first name, first initial (single letter), middle initial (single letter), or last name.

Name pattern matching rejected records primarily because the surname locator code had been set at zero, or because a particular pattern did not match one of the acceptable patterns. The latter situation occurred most frequently with multiple name strings, such as "Joseph A John B and Peter C Doe."

Name recode—With the parts of each name identified, the computer recoded the last name on each record; the first letter of each name was retained, and the second of all double characters deleted, together with all vowels (including "y"). The recoded name then was left-justified (i.e., moved to the left margin of the record) and transferred to a four-character storage cell; any excess characters, reading from left to right, were dropped from the recode, and if any recode had fewer than four characters, the last space(s) was left blank. For example:

HAMILTON became first H-M-LT-N, then H-M-LT, and finally, HMLT

SATTERFIELD became first S-T—RF—LD, then S-T—RF, then STRF

TUTTLE became first T-T-L-, then was left-justified to TTL-.

First names were recoded in the same manner (e.g., JOSEPH became J-S-PH, then JSPH; BENJAMIN, B-NJ-M-N, then BNJM; and so on), while first initials were identified and used alone. Middle names were not recoded, but middle initials were identified and used as a match key. Once the first name was identified, it was checked against a "nickname dictionary" (a list of common nicknames, such as "Bob," "Tom," "Beth," and so on); if the name was found in the dictionary, it was recoded using the proper name ("Robert," "Thomas," "Elizabeth"). Nicknames that could represent several proper names ("Ed," "Hal," "Milly") were recoded using the most frequently encountered proper name (e.g., "Edward" for "Ed"). Abbreviated names ("Geo," "Chas," "Robt") were converted and their proper names recoded.

When the computer identified a record with a multiple name pattern, it created dummy records for each possible name. Each dummy record carried all the identification codes of the original ("master") record so that it could be matched back to the master after linkage. Dummy records also were created for spouse names (except those from the IRS 1040F lists), names in the second name field, and partnership names.

For example, for a record containing in the name field "John Jones & William Smith," the recode operation identified the name pattern as "11413", which was matched to the acceptable name pattern file. The name was recoded with three possible combinations of names, "John Jones," "John Jones Smith," and "William Smith." If only single names were in the name field—e.g., "Jones, Smith, & Green"—each would be recoded with a separate dummy record to enable the linkage operation to identify partnerships that might change name order in different source file records.

Record linkage—After recoding all the master and dummy records, the computer sorted the file successively by name and address recodes within each ZIP Code group as follows: Last name, first initial, PPC flag, dummy flag, box number, rural route number, first name, and source priority code. Once sorted, the file was ready for linkage.

The name and address linkage had the same objectives as the other linking operations, to classify each record as duplicate (for deletion), possible duplicate, or nonduplicate. Six items were used to classify the records—

- 1. Last name
- 2. First initial
- 3. Middle initial
- 4. Box/street
- 5. Rural route
- 6. First name

The operation required the last name and first initial of any two records to match before making any further comparisons (records with matching last names—but no first initials or given names—were processed through the entire linkage cycle). If the last name and first initial did match, the computer compared records on each of the other key items in succession and in all combinations, and classified them based on the extent of agreement among the various matching items. The matching system classified the records, based on the following requirements:

Duplicates/computer deletes. Records matched on first and last names and on address information.

Possible duplicates. Records matched on first and last name recodes, but address information did not match or was absent. Records that matched last name and first initial, that also matched on address information, were classified as possible duplicates.

Nonduplicates. Records matched on last name recode only, or on last name recode but with different first initials. (Records matching on name and first initial recode, but with different middle initials, were classified as possible duplicates.)

When the computer identified a duplicate record during the linkage operation, it transferred the identification codes from the record with the lower source-priority code to the one with the higher priority, and flagged the low-priority record for deletion. Possible duplicates were displayed (i.e., printed out) for clerical resolution.

Clerical Resolution of Possible Duplicates

After the EIN/SSN and name and address linkage operation was completed, possible duplicates from both linkage processes were sorted by pair number and seven computer listings of possible duplicates were prepared:

- 1. EIN/SSN non-PPC
- 2. Name and address PPC cases
- 3. Name and address non-PPC possible duplicates
- 4. Combined EIN/SSN and name/address PPC cases
- 5. Combined EIN/SSN and name/address non-PPC
- 6. "Other" special sets-i.e., "collision" pairs, multiunits and abnormals, etc.

Printouts of each listing showed "sets" of possible duplicate records (two or more linked records comprised a "set") separated by lines of asterisks, each record numbered sequentially within each set with a "label position number" (LPN). Clerks reviewed the records and used written instructions to determine whether the records within each set were duplicates and designated them for deletion by circling the pair number and LPN and entering the "deleting record's LPN" (the DLPN) in the record for deletion so that the computer would transfer its identification codes to the deleting record. The clerical staff determined which was the "deleting record" by comparing the address source priority codes on each; the lower priority code record was retained. When two or more duplicate records had the same priority codes, the clerks retained the one with the most complete address information. Problem cases could be referred to analysts for resolution.

The pair number/LPN/DLPN data were keyed for all clerical deletes and the computer program processed the results of the clerical review by matching them against the possible-duplicate file.

Controls

General information—The Bureau establishes a system of checks and controls on the address list compilation operation in every census to keep track of the actual processing of the source records and to have materials available to test each phase of the operation. For the 1987 census, these controls and checks included a ZIP Code sample, a trace sample for quality control review of the overall operation, and control counts of records in the file at each processing step.

ZIP Code sample-The Bureau selected the ZIP Code sample from initial mail list input files before computer production runs began. The sample consisted of all the records in specified three- and five-digit ZIP groups within various States, and the agency planned to use it for testing each phase of the computerized formatting, linkage, and deletion processes. The plans originally were to process the samples in test runs to identify and correct any problems in the processing programs, but time constraints became so severe that only the "first cut" of the computer run (i.e., the first group of records edited by the computer in the processing cycle—between 100,000 and 200,000) could be checked.

Although Agriculture Division did not use the ZIP Code samples in the mail list preparation, as intended, the samples were also designed for potential mail list linkage research prior to the 1992 census, and were retained for that purpose.

Trace sample—The trace sample was a sample of records used to check the effect of processing on the records themselves. For the 1987 census mail list, the Bureau used the mail list compilation computer program to flag the first record and every 1,000th record thereafter in the file prior to input to the format and standardization operation (a total of approximately 12,000 records). When selected for the sample, and again after each step in the mail file processing operation, each record was "displayed" (i.e., printed out) and reviewed by statistical analysts. This produced a file for each sample record showing it as it entered the compilation and the changes made to it at each point in the processing. The agency's staff used the sample as a quality-control tool, and for research projects concerned with the address file processing.

Control counts—The computer used matching programs to generate control counts at each stage of the processing cycle of the number of records (1) in the input file, (2) in the output file, and (3) deleted from the file (and the stage of the cycle at which those records were deleted). The counts served as checkpoints at each phase of the mail list preparation. For example, the second phase record-linkage control counts included the following:

Count	Records
Total source records	9,174,143
EIN/SSN linkage computer deletes	2,738,335
Name and address computer linkage	
deletes	133,129
Clerical deletes	132,441
Other deletions	118,515
Multiunit deletions	8,566
Automatic drops (primarily nonfarm	
records—out-of-scope census or NASS	
nonfarms—that did not match another	
source record)	1,769,630
Model drops	174,834
Output file (i.e., final mail list)	4,098,693

Statistical Modeling

General information—The objective of the classification tree model program was to classify 1987 mail list records into groups according to their expected farm status. This was achieved by classifying 1982 census mail file records into groups based on responses to 12 questions about each record. Using 1982 Census of Agriculture information, the Agriculture Division determined the proportion of records in each group that represented farms, then applied the same procedure to the 1987 preliminary mail file records (only the dates involved changed (see below)) and created the same groups, with associated farm proportions. The division used a classification tree methodology in this program, employing information (i.e., geography, record source, and expected total value of agricultural products sold—the only common variables for all records in both the 1982 and 1987 mail lists) to predict the proportion of inscope (farm) records for specified groups from the 1987 mail list records. The modeling program resulted in dropping 175,000 addresses from the 1987 census mail file as unlikely to represent census farms.

Classification tree methodology—The classification tree methodology involved a multivariate technique to separate mail list addresses into groups according to specified classification variables, and so to predict their likely status as a census farm or nonfarm. The Bureau divided the 1982 mail list file into 29 subfiles (each including addresses for one or more States), then split each subfile in half. The classification tree procedure then was used to partition the records in the first half of each subfile into model groups according to each record's "response" to 12 questions. The gueries applied to each record were "Is this record(s)—

- 1. A 1978 census nonfarm?
- 2. On a 1982 IRS list?
- 3. A 1978 census farm?
- 4. A 1978 census nonrespondent?
- 5. A 1978 Farm and Ranch Survey nonfarm?
- 6. On any 1982 special list?
- 7. On a 1982 USDA list?
- 8. 1982 expected total value of agricultural products sold (TVP) unknown?
- 9. 1982 expected TVP less than \$2,500 or unknown?
- 10. 1982 expected TVP less than \$5,000 or unknown?
- 11. 1982 expected TVP less than \$60,000 or unknown?
- 12. A multiunit or abnormal, or has a 1982 expected TVP of \$60,000 or more?"

The Bureau used the second half of each subfile to refine the classification tree based on rules for optimal classification. The refinement procedure determined which questions best divided the records by farm/nonfarm status and, in the process, obtained the minimum classification error rate. The resulting classification trees created 2,184 model groups.

The staff used information from the 1982 census to determine the proportion of addresses classified as farms in each model group. The model groups then were ranked according to descending expected farm proportion, numbered from 101 (numbers 0 through 100 were reserved for processing purposes) to 2,284, with model group 101 having the highest expected farm proportion.

Mail list preparation—The Bureau assumed that model groups with low farm proportion in the 1982 census would have low proportion in the 1987 census as well. The 12 questions applied to each record were modified to reflect 1987 census cycle characteristics—i.e., in all questions, references to 1978 and 1982 were changed to 1982 and 1987, respectively. The modified questions were used to place 1987 census preliminary "final" mail file records into model groups 101 to 2284. The final mail list excluded the 175,000 records in model groups with the lowest expected proportion of farms.

Source-list record linkage—The first source-list record linkage operation produced a preliminary mail list of approximately 5.9 million records, of which 1.75 million were from nonfarm sources only. These nonfarm records were retained from the second phase of linkage. The approximately 4.17 million records remaining came from the following sources:

Source	Records
Total	4,167,027
Census farms, NASS farms, IRS, and other source records	2,864,676
1982 Census of Agriculture nonrespondents and other source records	247,660
1982 Census of Agriculture nonrespondents only	272,468
1982 Census of Agriculture nonfarms and other sources	648,769
NASS nonfarms and other sources	133,454

The second linkage operation began in July 1987, matching the 5.9 million records in the preliminary mail file to approximately 3.2 million records from new source lists. After linkage, source and size codes needed for modeling and sample selection were assigned to the individual records and a file containing 6,043,157 mail list addresses was created. A total of 1,769,630 addresses from the following (largely nonfarm) sources were automatically dropped from the file:

Source	Records
Total records deleted	1,769,630
1982 census and 1982 Farm and Ranch Identification Survey nonfarms only	1,313,794
NASS nonfarms only	153,907
Census and NASS nonfarms	124,136
1982 census nonrespondents (unmatched or matched only to NASS nonfarms) with size indicator of less than \$2,500 TVP	177,793
3120 Indicator of 1033 that \$\pi_{2},000 1 1	177,700

The linkage operation and automatic deletions left a preliminary "final" mail file of 4,273,527 for model application. Using the model program, the computer assigned each record to a "model group" based on source and size codes (see "Classification Tree Methodology" above), tallied the records by model group, and then split the file into three subfiles based on those tallies—"drop," "shortform eligible," and "regular census files."²

The Agriculture Division staff reviewed records in each file, and decided to retain 127,961 records (in the "drop" file)—those that had (1) an NASS source, (2) a 1982 census farm source (records with expected sales of less than \$40,000 were eligible to receive the "short form", (the form 87A0400)); (3) a special list source, or (4) an expected total value of products (TVP) sold of \$100,000 or more from any source. The remaining records in the drop file and all addresses in the "short form eligible" file that were "1982 census nonrespondents only" (or matched to NASS nonfarm only) with an expected TVP of \$20,000 or less were deleted from the final mail list. Records in the "short-form eligible" file, with expected TVP's of \$20,000 or more, were moved to the "regular census" list.

After these changes, a total of 174,834 records were dropped from the final mail list, leaving 4,098,693 addresses: 2,702,889 in the "regular census" file, and 1,395,804 in the "short-form eligible" file.

FINAL MAIL LIST

General Information

The final mail list preparation involved (1) assigning census file numbers (CFN's) and other processing codes to each record, (2) identifying "must" and "certainty" cases (see below), (3) selecting records to receive the sample report form, and (4) identifying cases to receive the short form.

Census File Numbers (CFN's)

Processing the census report forms and data required a unique identification for each data record—the census file number (CFN). The Bureau assigned a CFN to each address on the final mail list. Each CFN consisted of 11 digits arranged in three groups: The first five digits were the State and county codes for the expected location of the farm, the second five a serial number identifying the specific operation within its county, and the 11th was a check digit. The check digit provided a mathematical check for quality control during data processing.

Must Cases

"Must" cases were those agricultural operations (1) so large that failure to include their data in the census tabulations would significantly distort the census data, or (2) that required special handling, such as multiunits. "Certainty" cases were expected large farm operations (based on TVP or acreage) that did not qualify as "must" cases in terms of size or type of farm, but were considered sufficiently important to justify intense followup, including telephone followup.

"Must" cases were selected by computer after record linkage was completed for the final mail list. The selection program employed size codes and lists of multiunits from the 1982 census in scope list, and other size indicators from the mail files, and identified records for (1) farms so large that some data had to be collected, rather than imputed, in cases of nonresponse; (2) operations for which an explanation was needed of why the addressee was not engaged in agricultural production; and (3) those addresses for which there were indications that the census return would need a special analyst's review. These general categories included the following types of addresses:

Multiunits. Multiunits were companies or organizations with substantial agricultural operations at more than one location. In general, a multiunit required a separate report form for each agricultural establishment, each of which was considered a separate farm for census purposes. Separate mail files were maintained for each master (i.e., company or organization) record and each associated establishment. Multiunits identified prior to the census mailout were assigned multiunit identification numbers in the alpha/plant field³ of the address label indicating whether the report form was for the master or an associated establishment.

²The "drop" file contained the 263,743 records in the model groups with the lowest expected proportion of farms—i.e., the calculated proportion of farms in this group was 11.7 percent or less; the "short-form eligible file" had the 1,189,265 records with the next lowest proportion of farms (11.7 to 43.22 percent); while the remaining 2.82 million or so records (addresses in groups with a minimum expected proportion of farms of 43.22 percent) were placed in the regular census file.

³Identified the company with a six-digit number in the alpha field of each record. The "plant" code was a four-digit establishment identifier. The master record for a multiunit would have the company identifier in the alpha field and four zeros in the plant field, while each associated establishment had the company identifier in the alpha field and a unique establishment identifier in the plant field. Each report form for a master or associated establishment was assigned a specific serial number; the associated establishments received numbers in sequence following the master.

Abnormal farms. Abnormal farms were those operated by institutions, such as State agricultural research facilities, prison farms, Indian reservations, and so on.

Other farms. The "other farms" category included addresses believed to represent large individual agricultural establishments. The size criterion (expected total value of agricultural products (TVP) sold or total acreage) used to determine "must" status varied from State to State. In Texas, for example, the minimum requirement for identification as a "must" case was a TVP of \$500,000, or a total of 2,000 acres or more. In West Virginia, a "must" case required only \$100,000 in sales or 1,000 acres.

Other large cases were selected for telephone followup on the basis of acreage and TVP. The minimum acreage requirement generally was the same as for the "must" category—i.e., 1,000 to 10,000 acres, depending on the specific State, while minimum TVP varied from \$40,000 to \$100,000. Both the "must" and "large-telephone followup" categories received intensive telephone followup during census processing. In situations in which addresses could not be contacted by telephone, or operators refused to respond, secondary sources, such as the USDA's Extension Service (ES) and/or Agricultural Stabilization and Conservation Service (ASCS) offices were asked to provide information as to whether nonrespondent addresses had agricultural operations. Data from previous census records, in conjunction with other information, were used to impute responses for nonrespondent addresses.

Mail List Sampling

The Census Bureau introduced sampling for data collection in the 1945 agriculture census, but did not use it again, except for selected post census and research surveys, until the 1978 enumeration. The 1978, 1982, and 1987 censuses sampled to collect specified additional data from selected agricultural operations; all farms were asked for basic data, with an approximate 25-percent sample of the mail list sent a "sample" form that requested additional information on such items as production expenses, use of fertilizers and insecticides, value of machinery and equipment, and so on. To further reduce overall response burden, in the 1987 census the Bureau also employed a "short" form (one sheet, front and back) with abbreviated versions of the standard data items. Addresses less likely to meet the census farm definition received the short form.

The sampling technique used in the 1987 census was virtually identical to that of 1982: During mail list compilation, addresses were classified as "certainty" or "noncertainty" based on expected value of sales of agricultural products and acreage (these varied by State), and including all multiunits and abnormal operations. After linkage and unduplication, and statistical modeling of the final mail list, the "regular census" and "short-form eligible" files were merged and sorted by CFN for sample selection. The

sample included all certainty addresses, all addresses in Alaska and Hawaii, all addresses in counties with fewer than 100 farms in the 1982 census, and a stratified sample, by county, from the remainder of the mail list. The sampling rate for each county was determined by the total number of farms in the county in the 1982 agriculture census—counties with 100 to 199 farms were sampled at a 1-in-2 rate, and counties with 200 or more farms at a 1-in-6 rate.

After sample selection, the "short-form eligible" file (excluding cases selected for the sample) was sorted by model group according to descending farm proportion, and the first 906,406 records were selected in sequence to receive the short form. The final mail file was as follows:

Report form type	Records
Total	4,098,693
Sample/certainty	1,107,452
Nonsample	2,084,835
Short	906,406

PRINTING AND ADDRESSING REPORT FORMS

General Information

Private contractors printed the report forms and various mailing materials and prepared the mailing packages for the 1987 agriculture census.⁴ The contractors printed all the materials and assembled the mailing packages to agency specifications, under quality-control supervision by Census Bureau personnel, and then forwarded the packages to the Jeffersonville, IN, facility for final preparation (primarily address labeling) and mailout.

Address Labels

The Bureau prepared the address labels for the 1987 agriculture census mailout "in house." The census mail address list was generated at the main computer facility in Suitland, MD, then transmitted to Jeffersonville, IN, by telephone datalink and copied onto computer tape. The Data Preparation Division (DPD) staff in Jeffersonville used the address list tapes to print the census address labels on high-speed printers.

Printing, Assembling, and Addressing

General information—The seven private contractors employed in printing most of the report forms and other mailout materials also assembled the mailing packages according to Census Bureau specifications. Each contractor printed all of the materials for a specified package (e.g., sample,

⁴Report forms and mailing package materials were printed by seven contractors while eight produced the mailing envelopes and supplied them to the report form contractors for packing. Most of the major contractors were located within 300 miles of the Jeffersonville, IN, office; this facilitated easy delivery of the mailing packages to the Data Preparation Division for labeling and mailout.

certainty, nonsample, or "must" case for a specific geographic region), assembled the packages in envelopes supplied from the envelope contractor, and delivered them to the Jeffersonville office. The contractors supplied complete mailing packages for (1) the initial mailout, (2) the followup mailings, (3) additional sample, nonsample, and "must" packages for mailing to postmaster return (PMR) cases and "adds," and (4) all types of report forms as general reference materials and for mailing to correspondents or respondents on request.

The staff at the Jeffersonville office inspected the mailing packages as part of the quality control program, added any special instructions needed for specific packages (e.g., for such operations as bee and honey producers, contract poultry operations, and so on), and applied address labels for the mailout.

Quantities—The total number of standard report forms printed for the 1987 agriculture census was as follows:

Region	A0400 (Short)	A01 (Non- sample)	A02 (Sample)	A03 (Must)
Total	2,250,000*	6,333,000	2,398,500	620,500
01		399,000	207,000	56,000
02		1,327,000	416,000	100,000
03		577,000	216,000	57,000
04		1,284,000	456,000	90,000
05		134,000	52,000	18,500
06		896,000	324,000	76,000
07		533,000	158,000	56,000
08		278,000	137,000	43,000
09		178,000	83,000	33,000
10		267,000	85,000	41,000
11		310,000	121,000	50,000
12		-	33,000	-
13		_	10,500	_
14		150,000	100,000	100,000

^{*}The 87-A0400 was a standardized form; no regionalized versions were produced.

A facsimile of a representative report form is included in appendix F.

Other printed materials ordered for the data collection mailings included the following information sheets, form letters, and envelopes:

Form number	Description	Quantity	
Information Sheets and Form Letters			
87-A01(I)	Information sheet	9,391,000	
87-A02(I)	Information sheet (Hawaii)	29,000	
87-A04(I)	Information sheet (for A0400 "short" form)	2,250,000	
87-A01(L1)	Transmittal letter (initial mailout)	4,939,000	

Form number	Description	Quantity
87-A01(L1A)	Transmittal letter (PMR's)	140,000
87-A01(L2)	Reminder card	8,800,000
87-A01(L3)	Followup letter	3,079,000
87-A01(L4)	Followup letter	1,950,000
87-A01(L5)	Followup letter	1,652,500
87-A01(L6)	Followup letter	1,300,000
87-A01(L7)	Followup letter	1,186,000
Special Instruct	ion Sheets	
87-A31(A)	Grazing associations	1,100
87-A31(B)	Institutional organizations	5,000
87-A31(C)	Indian reservations	350
87-A31(D)	Farm with multiple farm and ranch operations	6,000
87-A31(E)	Contract poultry producers	45,000
87-A31(F)	Bee and honey production	150
87-A31(G)	Feedlot operations	13,000
87-A31(H)	Fish and other aquaculture	3,300
87-A31(l)	Laboratory animal produc-	3,200
(,)	ers	450
87-A31(J)	Nursery and greenhouse crops	63,000
87-A31(L)	Citrus caretakers	9,000
Envelopes		
87-A7A	Outgoing envelope (initial mailout)	5,000,000
87-A7B	Outgoing envelope (followup)	6,560,000
87-A7C	Outgoing envelope (gen- eral)	700,000
87-A7D	Outgoing envelope (initial mailing, Hawaii, Alaska, and multiunits)	30,000
87-A7E	Outgoing envelope (followup, Hawaii, Alaska, and multiunits)	60,000
87-A8	Return envelope	12,350,000
0,7,0	. Ictairi chitolopo	,000,000

Facsimiles of the general information sheet, transmittal letter, reminder card, and principal followup letters are included in appendix G.

The contents of the initial mailing packages for nonsample, sample, and "must" cases were as follows:

Туре	Report form	Informa- tion sheet	Return envelope	Cover letter
Nonsample	87-A0101 through -A0111*	87-A01(I)	87-A8	87-A01(L1)
Sample	87-A0201 through -A0213*	87-A01(I) or 87-87- A02(I)	87-A8	87-A01(L1)
Must	87-A0301 through -A0311*	87-A01(I)	87-A8	87-A01(L1)
*As appropriate.				

Quality control—Teams of two or three DPD quality control (QC) personnel inspected daily each of the private contractors' printed materials and assembled packages. Report forms and envelopes were subject to a "press inspection" (a visual review to make certain the printing was of acceptable quality, the proper colors and shading were used, and so on), while the QC staff checked a random sample of assembled mailing packages to ensure that the packages were complete and the materials inserted in the right order.

Each contractor boxed each day's production of assembled mailing packages for QC review. The QC staff inspected packages from each day's production, picking three packages at random from each box selected. If the production lot consisted of 9 or fewer boxes of packages, all the boxes were sampled; for lots of 10 to 150 boxes, 5 boxes—selected at random— were sampled, while for lots of 151 to 1,200 boxes, 20 were sampled. In any lots of over 1,200 boxes, 32 were sampled. When the staff identified an error in the packaging, the rest of the packages in the affected box were inspected and, if the problem was found in other packages, the surrounding boxes were checked as well.

The most frequently encountered problems in the package assembly operation were (1) insertion of the mail package contents in the wrong order, (2) failure to seal the outgoing envelope, and (3) use of the wrong report form for a specific package.

All detected errors were corrected before the packages were shipped to Jeffersonville for labeling and mailout.

Multiunits and abnormals—During the agriculture census mail list compilation operations, the Agriculture Division identified multiunits (i.e., companies or other organizations with two or more independent farm operations) and abnormals (institutional farms) and established a separate mail file for them. In November 1987, the multiunit and abnormal computerized address file was transmitted to Jeffersonville and labels were printed. The agriculture census unit in the Jeffersonville office manually assembled and labeled the mailing packages. Treating multiunits and abnormal farms as "must" cases, it assembled the mailing packages with the appropriate regional "must" report forms for approximately 9,000 multiunit and abnormal addresses.

Enumeration packages for abnormal cases were mailed and followed up as part of the general census mailing; packages for multiunit cases were part of the initial mailout, but were followed up separately.

Labeling—Labels for the mailing packages were printed by form number in ZIP Code sequence. Four labeling machines at the Jeffersonville, IN, office addressed the packages by applying the adhesive labels through the open window on the front of the form 87-A7A outgoing envelope. The machines applied the labels at the rate of up to 10,000 per hour between the last week of October and the first week of December 1987. The Bureau released all of the over 4 million mailing packages for the census mailout to the Postal Service between December 16 and December 21, 1987.

CONTENTS

Chapter 4. Public Awareness Program

	
	Page
Introduction	32
General Information	
Theme and Logo	32
Census Publicity Campaign	
Radio and Television	
Audiovisual Program	
Printed Materials	33
General	33
Posters	
Brochures and standardized speeches and statements	
Newspapers and magazines	
Agriculture census guide	
Agriculture census lesson plans	
Special Materials	
Agribusiness and Agricultural Organizations	
Postcensus Publicity and Assistance to Data Users	35
News Releases and Stories	
News releases	
Summary story	35
Feature stories	35
Professional Meetings	
State Farmer Meetings	35
Guide to the 1987 Census of Agriculture and Related Statistics	35

INTRODUCTION

General Information

The pre-enumeration awareness program for the 1987 Census of Agriculture had three major goals:

- 1. Make the agriculture community (farmers, ranchers, and agribusiness data users) aware of the census
- 2. Encourage everyone to respond (to increase the overall response rate)
- 3. Speed response during the early days of the census

The Agriculture Division formed a census awareness working group to prepare an agriculture census data products promotion and marketing plan, and, in cooperation with the agency's Public Information Office, Data User Services Division, and Congressional Affairs Office, developed a multimedia publicity program for the 1987 census. This included premailout activities to inform respondents and data users about the census, an inhand effort to reach respondents and encourage early and complete response while the census questionnaires were arriving in their mail, and a post-mailing effort to provide news about the census operation and the data collected. Bureau staff briefed Members of Congress, farm organization representatives, agriculture magazine and newspaper editors, and farm broadcasters, and distributed informational materials to schools, businesses, private organizations, and individuals throughout the country. Before the census mailout in December 1987, and throughout much of the data collection period, the publicity concentrated on raising general awareness of the census and encouraging response. Once the bulk of the data had been collected, the objectives switched to informing the public (particularly potential data users) about data content, format, media, and availability.

The Bureau added a new facet to the 1987 awareness program when, for the first time, it entered into a formal contract with the Advertising ("Ad") Council to develop selected materials for publicizing the agriculture census. The advertising firm of Ogilvy & Mather contributed staff time and expertise in producing television, radio, and print public service announcements (PSA's) for the agriculture census.

Theme and Logo

The Bureau revised the logo for the 1987 agriculture census, depicting a barn and silo with "AG CENSUS USA" below it.



The theme for the promotion campaign was "America Counts on Agriculture," and this slogan was reproduced on the posters and overprinted on press releases and other publicity materials. Public service announcements (PSA's) produced for use by the broadcast media generated a second theme of "Raise the Flag"—a reference to raising the flag on mail boxes as respondents returned their report forms by mail.

CENSUS PUBLICITY CAMPAIGN

Radio and Television

Agriculture Division staff met with representatives of the National Association of Farm Broadcasters (NAFB) in July 1986 to begin planning the 1987 agriculture census broadcast campaign and to hear recommendations and suggestions from NAFB members, particularly on using radio for the publicity campaign. In August, members of the Agriculture Division, Public Information Office, and other Bureau personnel attended a 2-day seminar sponsored by the Ad Council to brief its members on current and post-census publicity plans, and to discuss the most productive use of advertising agency services.

The broadcast publicity developed for the 1987 agriculture census employed radio, building on the experience gained in the previous two censuses, and television, which had not been part of the 1978 promotion effort and had been used very little for 1982. In November 1987, the Census Bureau began sending news releases, publicity materials, and PSA's on agriculture census activities to some 6,350 radio stations, 1,000 broadcast television stations, and about 560 cable television stations. The press releases were short items concerning specific phases of the census operation, starting with an announcement that the 1987 census soon would begin and continuing with notes on the actual beginning of data collection, return date, and so on. The primary radio broadcast publicity vehicles were two awareness program tapes. The first contained a set of three PSA's (10-, 30-, and 60-second spots prepared by the Ad Council). The second had statements of support from agribusiness leaders and government officials, and interviews with prominent agriculture and agribusiness personalities, such as the national secretary of the National Farmers Organization, the director of economics and planning for Southern States Cooperative, Inc., and the market research manager for the National Rural Electric Cooperatives. The Bureau distributed copies of the PSA's to all radio stations on the media outlet lists maintained by the Ad Council, the Public Information Office, and NAFB-member stations. The Ad Council also prepared a set of three (20, 30, and 60 seconds long) television PSA's. The Bureau distributed copies to some 1,500 broadcast and cable stations, and to NAFB member stations, and the 12 Census Bureau regional offices, which helped promote the agriculture census in their respective regions.

Audiovisual Program

The Bureau employed a private contractor to develop a 12-minute agriculture census promotional program of 75 color slides and a cassette-recorded narration for use by the USDA's Extension Service (ES) and Agricultural Stabilization and Conservation Service (ASCS), the Census regional offices, and other interested parties. Approximately 6,200 copies of the slide show were distributed to ES and ASCS county offices throughout the country, and several hundred more to land grant colleges and universities, State departments of agriculture, the Census Bureau's own regional offices, and the National Agricultural Statistics Service's (NASS's) State offices. On request, county agencies (such as local planning boards, schools, libraries, and so on) could also get the slide show on video cassette.

Printed Materials

General—Despite the inroads made by the electronic media, printed materials—newspapers, magazines, posters, brochures, and the like—remained an important source of information for the public. The 1987 census public awareness campaign made extensive use of these materials, distributing posters, tentcards, and brochures to offices and organizations all over the country for display; providing articles, informational releases, and drop-in advertisements to magazines and newspapers; and producing standardized speeches, agriculture census guides and lesson plans, and a series of census related stories tailored to each State for release to the general news media.

Posters—The Census Bureau printed over 65,000 copies each of the 18" x 24", 10 1/2" x 14", and 8 1/2" x 11" 1987 agriculture census posters, in red, green, and blue ink on heavy white stock. Approximately 38,000 copies of each went to vocational agricultural teachers and programs, together with a cover letter requesting teachers to ask their students to place the posters in the windows of local businesses. Some 3,500 copies of each were delivered to the USDA for use by its various agencies; and 16,800 of the 8 1/2" x 11" version were mailed to U.S. Postal Service rural post offices (these were identified as any responsible for rural delivery routes). The Bureau also sent copies to farm organizations and trade associations.

Brochures and standardized speeches and statements—

The Bureau prepared pre- and post-mailout promotional brochures for the awareness campaign. The pre-mailout brochure, *Preview of the 1987 Census of Agriculture*, was an eight-page folder that outlined the history, legal authorization, and scope of the enumeration, and explained the need for the census, uses of the data, and when operators could expect to receive the report forms. The post-mailout items included the nine-page brochure, *1987 Census of Agriculture*. This included much of the background material in the *Preview*, but also provided basic descriptions of the

data release program and told how to obtain the data or more information on the census and Bureau programs. A second post-mailout item, *Characteristics of Agriculture in the United States*, was a 12-panel, 4-color folder of graphics and maps prepared from 1987 Census of Agriculture data. The Agriculture Division staff distributed these materials at conventions and shows and sent copies of the brochures to USDA's ES and ASCS field offices.

A Bureau staff member also wrote a 5- to 6-minute standardized speech primarily for use by USDA's ES and ASCS staff in their local meetings and presentations. Seven thousand copies were printed and distributed: 3,300 copies to the ES county offices, and 3,200 more to the ASCS's county offices, plus copies to the land grant colleges and universities; various agricultural, trade, and public service (e.g., Junior Chamber of Commerce (Jaycees), and Rotary) associations; and State departments of agriculture.

Newspapers and magazines—The Bureau began distributing printed promotional materials in November 1987, when 2,000 information kits, each containing a copy of the report form, a telephone contact sheet, the data release program, the brochures *A Preview of the 1987 Census of Agriculture* and *Questions Most Frequently Asked About the Census of Agriculture*, and an 8 1/2" x 11" copy of the poster, were sent to congressional offices. In December, 3,200 more of the kits went out to newspaper and magazine news editors (some also were sent to radio news directors).

In February 1987, the Bureau contacted the editors of some 200 agriculture news magazines and requested that they devote one of their editions' covers to an agriculture census story. The Bureau hired professional photographers to produce appropriate pictures from all over the Nation for possible use on magazine covers and offered copies of these photographs to magazines that agreed to use the census material. A significant problem for the magazines was that they were being asked to allocate portions of their holiday and New Year's issuesthe most valuable and productive issues for the publishers in most cases—to the census, as well as the cover. Nevertheless, several magazines agreed to use the census photographs for their cover stories, and a number of others included noncover census stories in their December-January issues.

The Bureau also prepared 5 precensus feature stories on the agriculture census and sent copies to approximately 1,700 print news outlets beginning in December 1987. These were followed by a series of 21 feature stories, providing summaries of the census results for leading agricultural States, and for States that had a low response rate in the 1982 census. Copies of the State stories were sent to the State bureaus of the major wire news services, as well as to 1,700 or so magazines and newspapers that had received the precensus material.

Agriculture census guide—The Agriculture Division prepared Form 87-A10, *Report Form Guide*, as a reference

manual for county agents, vocational agriculture teachers, USDA agencies (National Agricultural Statistics Service (NASS), Farmers Home Administration (FmHA), Agricultural Stabilization and Conservation Service (ASCS), etc.), and others to use in helping farmers, ranchers, and other respondents complete their report forms. The A10 was 42 pages long and contained explanations and detailed instructions for completing each item on both the sample ("long"-including "must" and "certainty") and nonsample report forms. Perhaps as importantly, the A10 had information on what respondents should not include in their response. For example, the instructions for section 1, item 3 on the report forms ("Land rented or leased to others") described what land should be included, and instructed the respondent not to list (1) pastured cropland or pastureland used or rented by others from the addressee on a per-head basis, or (2) land from which another person bought a crop that was ready for harvesting.

Copies of the guide, together with cover letters and/or additional materials (such as the precensus lesson plan), were distributed as follows:

Organization or agency	Copies
Agricultural Stabilization and Conservation	
Service (ASCS)	*3,200
Farmers Home Administration (FmHA)	3,000
Extension Service (ES)	*3,300
National Agricultural Statistical Service (NASS)	
State offices (5 each)	250
High school vocational agriculture teachers	8,500
Land grant college and university agriculture	
departments (2 each)	74
State data centers (SDC's), lead agencies	
(2 each)	100
Census Bureau regional offices (10 each)	120

*The copies provided to the ES and ASCS (these were sent to the field offices) were part of a census information kit that included the *Guide*, the census poster, copies of standardized speeches, the *Preview of the 1987 Census of Agriculture* brochure, a pamphlet on questions most frequently asked about the census, and a prepared news story.

Agriculture census lesson plans—The Census Bureau employed private contractors to develop precensus and postcensus agriculture census lesson plans for use by vocational agriculture classes. The precensus publication, Form 87-A16, Lesson Plans: The Census of Agriculture, provided background information on the census and four specific lesson plans covering production agriculture, agribusiness uses for census data, relating census data to community development, and the purpose of the agriculture census together with its use by public and private agencies. The postcensus Lesson Plans: The Census of Agriculture (no form number was assigned) covered data products available and uses of the census data in more detail.

The Census Bureau distributed approximately 8,000 copies of the plans to high school vocational agriculture programs and 4,000 more to participants in the USDA's "Agriculture in the Classroom" program. About 3,000

copies also were distributed to land grant universities, teacher education programs, community colleges that had agriculture programs, and to farm and trade organizations.

Special Materials

During the 1982 agriculture census program, the Bureau purchased a supply of baseball-style hats bearing the census logo for distribution by NAFB members. As the hats proved very popular and provided additional publicity for the enumeration, the Bureau decided to use them again for 1987, again asking the NAFB to help promote the enumeration by using the hats in contests and publicity activities at their member broadcast stations. The Bureau ordered about 4,000 hats bearing the census logo. One hundred eighteen NAFB member stations agreed to help; the agency sent each station 20 of the hats. The rest were given away at conferences and meetings, and on request. The promotional materials included 10,000 circular presson stickers and 10,000 buttons, half of each bearing the census logo, the other half the motto "America Counts on Agriculture." These were given away at conferences and meetings.

As part of the postcensus promotion campaign, the Bureau ordered 6,000 order form display boards; 3,300 of these were distributed to ES county offices, while others went to ASCS State and county offices, Census regional offices, and State data centers. The boards listed various kinds of data publications available, and included a pocket for publication order forms. The Bureau began distributing supplies of the order forms in January 1989; the publication program was not complete by that time, but the order forms contained the necessary directions as well as the estimated publication schedule for those products not then available.

Agribusiness and Agricultural Organizations

The largest user of agriculture census data, after the Federal Government, is the agribusiness sector of the economy. The Census Bureau and agribusiness have a mutual interest in achieving a complete and accurate census and the Bureau has always tried to enlist the help of agribusiness in publicizing the enumeration and encouraging operators to respond. The Bureau also has made the promotional materials (posters, brochures, guides, "dropin" advertisements, and so on, distributed to the news media, county agents, teachers, and others) available to agribusinesses and agribusiness associations.

In May 1987, the Bureau began a program to work with major farmer and commodity associations to promote the census. In July and August 1987, the director of the Census Bureau sent letters to the State offices of the Farm Bureau Federation, the National Grange, the National Cattlemen's Association, and other agriculture organizations and commodity associations explaining the importance of the census and asking for the support of their organizations in publicizing the census and encouraging

early and complete response. The Bureau supplied copies of news releases and feature articles to farm organizations' publications, and provided staff and materials for information booths at conventions held by various agriculture oriented associations.

The groups represented on the Census Advisory Committee on Agriculture Statistics (see ch. 2 for member organizations and their representatives) cooperated with the publicity campaign, including publicizing the census through their own advertising and promotional facilities, and having their representatives on the Committee record and/or film interviews or supporting statements.

POSTCENSUS PUBLICITY AND ASSISTANCE TO DATA USERS

News Releases and Stories

News releases-After the census, there was a publicity campaign to inform potential data users of the kind of data being published and their availability. The Agriculture Division prepared a series of news releases based on the 1987 census results; beginning in August 1988, 50 stories using the advance data—one for each State—were mailed to the national wire services, national and local newspapers, and agriculture-oriented magazines. Each two-page article contained selected basic data from the 1987 census, together with comparative data from 1982, including information on number of farms, acres in farms, total value of sales, and so on, and graphic displays of selected items. Copies of these news releases also were made available on the Bureau's online information system—CENDATATM—and through an electronic connection, on AgriData Network's online system.

Summary story—The State stories were followed in October 1989 by another, on the Summary of the United States report of the Volume 1, *Geographic Area Series*. The story highlighted the statistics in that publication, concentrating on the increases in the value of agriculture products sold and the number of small farms measured in the census. A detailed analysis of U.S. data also was prepared for release to agriculture finance and marketing media.

Feature stories—During 1990, the Agriculture Division staff wrote and distributed a series of feature articles on 1987 census data for a variety of subjects of special interest, such as farm characteristics, age of operator, aquaculture, and machinery and equipment.

Professional Meetings

Census Bureau representatives attended a variety of trade shows, professional association conferences, agricultural news media conferences, and trade and commodity association meetings to help publicize the census. The Agriculture Division and other Bureau staff made particular efforts to attend meetings of such organizations as the American Agricultural Editors' Association, the National Association of Agricultural Journalists, the National Association of Farm Broadcasters, and the Agricultural Relations Council, to enlist the support of the associations and their members in promoting cooperation with the census. Attendance at such meetings provided opportunities not only to promote census activities and explain census programs, but enabled Bureau representatives to hear suggestions for improving their efforts. Agriculture Division personnel staffed booths, made presentations or speeches. or participated in discussions and workshops at an average of four or five association meetings each month for much of the 1987 census period, including participation at successive meetings for the entire period for a number of prominent organizations.

State Farmer Meetings

The Bureau representatives also attended annual meetings of State-level farm organizations—such as the American Farm Bureau, National Farmers Union, and the National Cattlemen's Association—staffing booths, making presentations, and setting up exhibits, to promote the census to the leaders and members of the State organizations. The agency tried to target meetings in important agricultural States, and in States with a history of low response to the agriculture enumeration.

Guide to the 1987 Census of Agriculture and Related Statistics

In 1988, the Census Bureau's Data User Services Division (DUSD), in cooperation with the Agriculture Division, prepared a 38-page publication—Guide to the 1987 Census of Agriculture and Related Statistics. This publication outlined the background and procedures of the agriculture census, and provided details about the agriculture census data series and the publication media used for each, together with descriptions of other Census Bureau data sets that included agriculture related information, or that might be useful to agriculture census data users. The guide included the publication plans for both the 1987 economic and agriculture censuses and lists of reference sources. The Bureau distributed copies of the guide to its regional offices and professional advisory committee members, State data centers, clearinghouses for Census data services, and as part of its census curriculum support project. The guide was available on request at the Bureau's exhibit booths or presentations at conferences and conventions around the country, and from both Agriculture Division and DUSD.

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CONTENTS

Chapter 5. Data Collection

	Page
Introduction	38
Census Mail Operations	
General Information.	
Initial Mailout	
General	
Multiunits	
Followup Mailings	
General information	
Reminder/thank you cards	
First followup	
Second followup	
Third followup	
Fourth followup	
Fifth followup	
Postmaster Returns	
Telephone Followup	
Introduction	
General information	41
Telephone report form	
Telephone Staff	
Telephone Operations	42
Work assignments	42
Procedures for telephone followup	42
Results	43
Citrus Caretakers	43
Background Information	43
1987 Enumeration	43
Nonresponse Survey	44
General Information	44
Report Forms	45
Mailout	45
Response	45
Model Drop Survey	45
Results	45

INTRODUCTION

The Census Bureau's Data Preparation Division (DPD) in Jeffersonville. IN. carried out most data collection activities for the 1987 Census of Agriculture in the 50 States (Puerto Rico, Guam, and the U.S. Virgin Islands were separately enumerated; see chs. 7 and 8 for details) with close supervision and assistance from the Agriculture Division, Mail enumeration was the primary data collection method, carrying out the initial mailing to approximately 4.1 million addresses in December 1987, with one reminder postcard and five followup mailings sent out between mid-January and June 1988. The census also included a telephone followup, beginning in March 1988, of selected nonrespondent cases (those with large estimated annual total value of sales (TVP) of agricultural products, generally \$100,000 or more) and in counties with unacceptably low response (less than 75 percent). The low-response county telephone followup began in May 1988).

In addition to the mail and telephone enumeration of farms and ranches, there was a supplemental census of citrus producers1 (contacting citrus caretakers for data) in the summer and early fall of 1987.

CENSUS MAIL OPERATIONS

General Information

In the 1982 census, addressees were asked to respond to the initial census mailing by February 15, and the first followup mailing involved sending reminder cards to nonrespondent addresses after that date. For the 1987 enumeration, the Bureau hoped to improve early response by moving up the requested response date to February 1, mailing reminder/thank you cards to all addresses on the mail list before the requested response-due date, and by advancing the schedule for the remaining mail followup operations. The agency mailed the reminder/thank you cards in mid-January 1988; there were five additional mailings to nonrespondents beginning in the first week of February 1988 and at approximately 4-week intervals thereafter. The initial census mailout, and three of the nonrespondent followups, involved complete packages of report forms, instruction sheets, cover letter, and so on, while the others used letters asking for response.

The mail list was organized by State, in eight geographic segments, to more evenly distribute the workload in preparing the followup list, addressing followup letters and packages, and mailing. The States in each segment were as follows:

Segment	States
1	Arizona, California, Colorado, Idaho, Nevada New Mexico, Oregon, Utah, Washington
2	Montana, North Dakota, South Dakota, Texas, Wyoming
3	Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jer- sey, New York, North Carolina, Pennsylva- nia, Rhode Island, Vermont, Virginia, West Virginia
4	Alabama, Georgia, Kentucky, Tennessee, South Carolina
5	Minnesota, Michigan, Wisconsin, Florida
6	Arkansas, Louisiana, Mississippi, Missouri, Oklahoma
7	Alaska, Hawaii, Iowa, Nebraska, Kansas

These geographic segments did not correspond to the "regions" established for the design and use of the agriculture census report forms (see ch. 3), or to the standard census geographic "regions" and "divisions" sometimes used in publishing data.2 They were, instead. primarily administrative and operational conveniences, with staggered response closeout and mailing dates.

Illinois, Indiana, Ohio

Initial Mailout

General—The Bureau mailed the agriculture census packages between December 16 and 21, 1987. This mailing included approximately 4.1 million addresses throughout the 50 States. The Data Preparation Division (DPD) in Jeffersonville, IN, handled the bulk of the mailings, except for packages for "abnormal" farms (i.e., farms operated by institutions, such as prison farms, research facilities, etc.), which were mailed directly from the Suitland headquarters. The DPD staff labeled the packages mechanically on a flow basis as labels were delivered, and held the packages until all could be mailed simultaneously. The census used third-class bulk rate postage for most of the census packages, employing first-class postage only for mailings

¹Citrus producers enumerated in the caretaker operation also received census forms by mail so they could report their other agricultural activities.

²The nine census geographic divisions each consisted of several States, as follows: Division 1: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; division 2: New Jersey, New York, Pennsylvania; division 3: Illinois, Indiana, Michigan, Ohio, Wisconsin; division 4: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; division 5: Delaware, Georgia, Florida, Maryland, North Carolina, South Carolina, Virginia, West Virginia; division 6: Alabama, Kentucky, Mississippi, Tennessee; division 7: Arkansas, Louisiana, Oklahoma, Texas; division 8: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming; and division 9: Alaska, California, Hawaii, Oregon, and Washington.

Divisions 1 and 2 made up the Northeast region: divisions 5, 6, and 7, the South region; divisions 3 and 4, the Midwest region; and divisions 8 and 9, the West region. The agriculture census data were published at the national, State, and county geographic levels (for 1987, selected data also were published by five-digit ZIP Code), but for other censuses the Census Bureau frequently used regions and geographic divisions, among several other levels of geography, for tabulating and publishing statistics.

to multiunits (i.e., companies or organizations with substantial agricultural operations at more than one location; see ch. 3), abnormals, "births" (i.e., newly identified agricultural operations), postmaster returns (see below), Alaska and Hawaii, and for the reminder/thank you cards. (First class postage was always used on the return envelope included in each report form package.) The quantities mailed, by type, were as follows:

Туре	Quantity mailed
Total*	4,095,060
Nonsample (forms 87-A0101 to -A0111)	2,080,183
Sample (excluding abnormals and multiunits)	1,101,747
General sample (forms 87-A0201 to -A0213)	974,253
Must cases (forms 87-A0301 to -A0311)	127,494
Multiunits (forms 87-A0301 to -A0311)	4,895
Abnormals (forms 87-A0301 to -A0311)	1,842
Short form (form 87-A0400)	906,393

^{*}Includes approximately 3,500 "births"-i.e., agricultural operations identified after the finalization of the mail list, and mailed census report forms on a flow basis as they were identified.

The initial mailing packages each contained the form 87-A01(L1) cover letter requesting response, the appropriate report form, the form 87-A01(I) information sheet (form 87-A02(I) for Hawaii), and the form 87-A8 return envelope. and any special instructions sheets (used for known feedlots, nurseries, specified animal specialties, and so on).

Multiunits—Report forms for the 4,895 identified multiunit establishments were part of the initial mailout to over 4 million addresses on the initial agriculture census mail list. A special multiunit processing group in the DPD conducted mail and/or telephone followups of multiunit cases.

Followup Mailings

General information—Private contractors assembled the mailing packages for the followup mailings and delivered them to the Jeffersonville, IN, facility for labeling and mailout on a flow basis. The Bureau employed the same methods used for addressing the packages for the initial mailout to prepare each followup mailing and applied identical quality control procedures for the label printing operation. (See ch. 3 for details of the label printing and package assembly operations.)

The following table summarizes followup mailings for the 1987 census:

Туре	Reminder/ thank you card	First (report form)	Second (letter only)	Third (report form)	Fourth (letter only)	Fifth (report form)
Total	4,089,721	1,765,246	1,231,493	957,048	751,075	658,168
Nonsample	(X)	866,035	(X)	469,414	(X)	333,676
General sample	(X)	448,606	(X)	253,504	(X)	171,647
Must	(X)	67,752	(X)	39,588	(X)	23,928
Short	(X)	382,853	(X)	194,542	(X)	128,917

(X) Not applicable.

Reminder/thank you cards—The DPD mailed form 87-A01(L2) reminder/thank you cards to all the addresses (except abnormals) on the initial census mail list. Addresses were imprinted on the cards as equipment and staff became available after the initial addressing and mailing operation was completed, and the cards were held until all were ready for the mailout. The requested due date for response to the census mailing was February 1; the Jeffersonville office mailed 4,089,721 reminder/thank you cards on January 19, 1988.

First followup—By the first week of February, response to the mail census approached 55 percent, and the nonresponse followup process began. The first mail followup involved mailing complete census packages to addresses on the mail list still nonrespondent by a specified closeout date (which varied by segment from February 5 for segment 1 through February 17 for segment 8). After the closeout dates for this and succeeding followups, the staff identified nonrespondent list addresses from the mail list and printed address labels. The 1,765,246 mailing packages each contained the appropriate report form and instruction sheet, the form 87-A01(L3) (the form 87-A02(L3) through -A02(L7A) letters were used in the respective followups for Alaska and Hawaii) followup letter, and a return envelope. The Jeffersonville staff labeled and mailed the followup packages on a flow basis from February 16 through February 23.

Second followup—The second followup used the form 87-A01(L4) letter to request addressees to respond to the census. Closeout dates, by segment, for response to the second followup ranged from March 7 through March 16 and address labels were printed and the letters mailed on a flow basis from March 16 through March 22. The followup mailings totalled 1,231,493 packages.

Third followup—The Census Bureau used complete report form packages in the third followup mailing, each package comprised the appropriate report form, instruction sheet, and return envelope, and the form 87-A01(L5) cover letter requesting prompt response and including excerpts from Title 13, United States Code, on the legal requirement for response and the confidentiality of the data. Closeout dates for the geographic segments ran from April 4 through April 13, and the DPD mailed the 957,048 followup packages beginning on April 11 and finishing April 21.

Fourth followup-The fourth followup was the second "letter" followup. Form 87-A01(L6) letters asked for response and reminded the addressees that response was required by law. The closeout dates by segment extended from May 9 through May 12 (two segments were closed out each day), and the mailing (May 16-19) consisted of 751,075 letters.

Fifth followup—By the first week of June, the census had achieved an overall mail response rate of slightly over 83 percent. The fifth and final mail followup was carried out during the second week of June. The response closeout dates for the geographic segments ran from June 6 through June 9 (two segments were closed out per day). The mailing package for this followup included the appropriate report, instruction sheet, return envelope, and the form 87-A01(L7) letter that reminded addressees of the legal requirement for response, and listed a toll free telephone number (except for the -A02(L7A) letters for Alaska and Hawaii) for use by respondents who needed assistance. A total of 658,168 packages were mailed (June 14-21) to addresses still considered nonrespondent.

Postmaster Returns

Postmaster returns (PMR's) are mailing packages returned by the Postal Service as undeliverable as addressed. The DPD processing staff in Jeffersonville identified PMR's during the receipt and check-in phase of the processing operation (see ch. 6 for details) and prepared mailing packages for remailing. These packages contained the appropriate report form, instruction sheet, and return envelope as in the initial mailing package, but a form 87-A01(L1A) cover letter replaced the original form 87-A01(L1) letter, and the form 87-A7C (First Class) outgoing envelope was used.

The census plans called for remailing only "first-time" PMR's, and originally scheduled only two closeout dates-January 25 and February 24; however, a third closeout (March 10) was added to allow remailing PMR's for which name and address corrections had not been applied to the address list in time for the second closeout. A total of 202,366 PMR packages was mailed. (See table 5-8 for details.)

Table 5-1, 1987 Census of Agriculture Mailout: December 16-21, 1988

Туре	Quantity
Total	4,095,060
Nonsample (forms 87-A0101 to -A0111)	2,080,183
Sample (excluding abnormals and multiunits)	1,101,747
General sample (forms 87-A0201 to -A0213)	974,253
Must cases (forms 87-A0301 to -A0311)	127,494
Multiunits (forms 87-A0301 to -A0311)	4,895
Abnormals (forms 87-A0301 to -A0311)	1,842
Short form (form 87-A0400)	906,393

Table 5-2. Reminder/Thank You Card (form 87-A01(L2))

Date	Quantity
January 19, 1988	4,089,721

Table 5-3. First Followup: February 16-23, 1988 (report form)

Segment	Check-in closeout	Total	Non- sample (forms 87-A0101 to -A0111)	General sample (forms 87-A0201 to -A0213)	Must (forms 87-A0301 to -A0311)	Short (forms 87-A0400)
Total	_	1,765,246	866,035	448,606	67,752	382,853
1	02/05/88	246,773	103,148	56,793	14,200	72,632
2	02/08/88	271,110	160,488	71,251	11,146	28,225
3	02/09/88	229,114	99,369	60,382	9,337	60,026
4	02/10/88	251,839	103,128	64,656	7,950	76,105
5	02/11/88	201,293	98,535	58,268	7,914	36,576
6	02/12/88	247,439	132,948	57,820	7,636	49,035
7	02/16/88	163,367	91,973	43,719	5,439	22,236
8	02/17/88	154,311	76,446	35,717	4,130	38,018

Table 5-4. Second Followup: March 16-22, 1988 (letter)

Segment	Closeout date	Quantity mailed	
Total	_	1,231,493	
1	03/07/88	155,086	
2	03/08/88	187,760	
3	03/09/88	161,106	
4	03/10/88	181,565	
5	03/11/88	145,203	
6	03/14/88	179,233	
7	03/15/88	113,877	
8	03/16/88	107,663	

Table 5-5. Third Followup: April 11-21, 1988 (report form)

Segment	Check-in closeout	Total	Non- sample (forms 87-A0101 to -A0111)	General sample (forms 87-A0201 to -A0213)	Must (forms 87-A0301 to -A0311)	Short (form 87-A0400)
Total		957,048	469,414	253,504	39,588	194,542
1	04/04/88	118,416	49,113	28,286	7,279	33,738
2	04/05/88	151,745	88,790	41,588	6,855	14,512
3	04/06/88	120,626	52,080	33,031	5,089	30,426
4	04/07/88	139,921	56,434	37,692	5,074	40,721
5	04/08/88	111,914	55,489	33,145	4,537	18,743
6	04/11/88	140,499	74,053	34,459	4,868	27,119
7	04/12/88	91,672	51,947	25,326	3,444	10,955
8	04/13/88	82,255	41,508	19,977	2,442	18,328

Table 5-6. Fourth Followup: May 16-19, 1988 (letter)

Segment	Closeout date	Quantity mailed
Total	05/09/88 05/10/88 05/11/88 05/12/88	751,075 210,485 201,334 203,438 135,818

Table 5-7. Fifth Followup: June 14-21, 1988 (report form)

Segment	Check-in closeout	Total	Non- sample (forms 87-A0101 to -A0111)	General sample (forms 87-A0201 to -A0213)	Must (forms 87-A0301 to -A0311)	Short (form 87-A0400)
Total	06/06/88 06/07/88 06/08/88 06/09/88	658,168 182,717 175,264 181,128 119,059	333,676 94,957 76,020 93,710 68,989	171,647 48,059 45,636 49,431 28,521	23,928 9,225 5,521 6,689 2,493	128,917 30,476 48,087 31,298 19,056

Table 5-8. Postmaster Return (PMR) Mailings

Mailings	Closeout date		Quantity mailed
Total	01/25/88 02/24/88	02/28/88	45,327

TELEPHONE FOLLOWUP

Introduction

General information—The telephone staff was part of the DPD at the Jeffersonville, IN, facility. Agriculture census telephone operations began in January 1988, as soon as respondents began to receive report forms, and continued until completion of telephone followup of nonrespondent or incomplete cases in September 1988.

The cases referred to the telephone staff for resolution included (1) data referrals from the technical review staff in the processing office, (2) large nonrespondent cases (those with estimated value of annual agricultural product

sales of \$100,000 or more, or with 1,000 acres or more [depending on the State]), and (3) a sample of the general nonrespondent list (used for the Nonresponse Survey); and, after May 1988, nonrespondent addresses in certain low-response counties. Initial planning projected a total telephone followup workload of about 132,000 cases; in actual operations, the telephone unit received approximately 154,000 cases for followup, including 71,000 large nonrespondents, and handled some 73,000 inquiries from respondents.

Telephone report form—The telephone enumeration staff used the Form 87-A0314, Telephone Enumeration Report, to record data collected from nonrespondents contacted in the telephone followup. Items appeared as questions to be read to the respondent, with skip instructions that told the interviewer when to skip over nonapplicable items. The form also had space for recording the telephone number called, number of calls attempted, and the name of the interviewer who completed it.

The Census Bureau based the telephone report form on the sample report form used for the mail enumeration. although the telephone form reverted to generalized crop and livestock listings in place of the regionalized lists on the sample forms. The form 87-A0314 was a 10-page. 10 1/2" x 14" booklet, with pages 8 and 9 on a half-page fold, and was used for telephone cases in 48 States (Alaska and Hawaii were excluded from the telephone followup).

Telephone Staff

The Data Preparation Division (DPD) office at Jeffersonville, IN, included a staff and facilities for carrying out telephone enumerations and surveys. DPD and Agriculture Division activated the telephones for the 1987 Census of Agriculture during the first week of January, first to handle incoming calls for assistance from respondents, and referrals; then, from March through September 1988, to carry out telephone followup to selected large nonrespondent census cases, and to nonrespondent cases from censusrelated surveys.

While a small staff was trained and began handling incoming calls in early January 1988, the bulk of the interviewers did not join the unit until March, when telephone followup of large nonrespondents began. By the end of March, there were 91 people in the telephone unit, including supervisors and lead clerks, and it reached a maximum strength of 194 persons in July. Agriculture Division statisticians trained the telephone enumeration staff on a continuing schedule, onsite at Jeffersonville, beginning the first week of March. Each group of interviewers received 6 hours of classroom training covering telephone interviewing techniques, agricultural terms, and completing the agriculture census telephone enumeration report form, followed by 2 hours of instruction on the written procedures—the latter given in the work area by the shift supervisor.

The staff was organized in four shifts; the shifts and typical staffing levels during the most active period of the telephone followup were as follows:

Shift	Times	inter- viewers	Lead clerks	Super- visors
Total		152	10	3
Day	7:00 a.m3:30 p.m.	75	4	1
Middle	12:30 p.m9:00 p.m.	5	1	1
Night	3:30 p.m12:00 p.m.	59	5	1
Part time	5:00 p.m9:00 p.m.	13	-	=

Members of the Agriculture Division provided expert assistance, as needed. Calls were made between 7:00 a.m. and 9:00 p.m. local time (i.e., in the nonrespondent's time zone).

Telephone Operations

Work assignments—The telephone unit (1) resolved "problem referrals" (i.e., cases with inconsistent, incomplete, or obviously incorrect information) from the correspondence and technical review staffs, and (2) followed up large nonrespondent cases3 and other nonrespondent cases as assigned. The first problem referral cases arrived at the telephone unit immediately after operations began, while large nonrespondent cases initially selected for telephone followup arrived in March, after the first mail followup. In May, the processing staff referred 1,862 delinguent cases. in 63 "low response" counties (i.e., with response rates below 75 percent), to the telephone unit for followup.

The telephone staff used the regular central telephone exchange system serving the Jeffersonville office. Up to 122 telephone instruments were assigned to the telephone operation—89 for outgoing, 33 for incoming, calls. (Letters mailed with the census report forms included an "800" telephone number for respondents to call for assistance.) The telephone exchange system normally used the Federal Telecommunications System (FTS) lines available at Jeffersonville for outgoing calls; otherwise, the system automatically switched the outgoing call to one of the Wide Area Telecommunications System (WATS) lines reserved for the agriculture census followup.

Procedures for telephone followup—The Agriculture census staff compiled the initial telephone followup file for three States-Delaware, Maryland, and Wisconsin-on

March 1, 1988, after the first mail followup, and transmitted the label information to DPD's computer for printing a set of address labels. The agriculture census staff continued to compile files of delinquent large-farm cases, by groups of States, periodically during the followup operations, and transmitted them to the DPD office on a flow basis. The labeling staff affixed labels to each Form 87-A0314, Telephone Enumeration Report, by machine and delivered the cases to the telephone staff. The first labeled forms for Delaware, Maryland, and Wisconsin were delivered on March 9, 1988, and followup calling began. Referral cases arrived at the telephone unit from the agriculture analysts in the correspondence and problem-solving units. Cover sheets attached to each referral case described any problem with the case and specified questions to be asked of the respondent if and when contacted by the telephone staff. Most nonrespondent and problem referral cases had telephone numbers, and any that did not were left in the work units until the telephone followup staff was able to call directory assistance to obtain numbers.

The nonrespondent cases were kept in State sequence, and the telephone staff periodically reviewed the check-in status of each case by using interactive computer terminals. Any case with a check-in status indicating mail received was removed from the followup operation. The nonrespondent cases were then batched into work units (of approximately 15 each), which were distributed to the telephone interview staff, one or two work units per interviewer per shift, depending on the rate of case completion.

Each interviewer called the nonrespondents in his/her assigned work unit and attempted to complete the cases. Only three call outcomes were considered completed reports:

- 1. In scope, with data (I/S)
- 2. Out of scope—i.e., the nonrespondent operation did not qualify as a farm (O/S)
- 3. The respondent claims to have completed and returned a report form ("claims filed"—C/F)

Any other results, such as refusals to provide the data, "will file's," requests for another report form, no answer at the number called, no telephone number available, awaiting response from respondent, and so on, remained in the telephone unit to be tried again. The interviewer noted the date and time of each call to each nonrespondent case and the nature of the conversation-if any-on the corresponding report form. Interviewers attempted to complete a report form for each nonrespondent called. When the subject indicated a willingness to cooperate but asked the interviewer to call back, the interviewer marked the date and time of the first call, and the best time to call back, in the reserved space on the report form and set the case aside for a later call. If no response could be obtained (two attempts were made for refusals, four for "no answer when called" cases), the interview staff referred the case for secondary-source followup.

³A "large" nonrespondent case was defined based on the estimated total value of agricultural products sold, or on total acreage, with the requirements varying by State. For most States, either a total value of products (TVP) sold of \$100,000 and/or 1,000 acres qualified an operation as "large." In some States, particularly in the Midwest, the requirements were raised to either a TVP of \$150,000 or a minimum acreage of 2,000. In three States-Illinois, Iowa, and Nebraska-the minimum TVP required for telephone followup was \$200,000 while in five other States -Kansas, Montana, North Dakota, South Dakota, and Texas-the minimum was 3,000 acres if the case did not meet the minimum TVP requirement.

The purpose of the secondary-source operation was to obtain information required to determine the farm status of all cases that were not completed by respondent contact, including refusal and "no telephone number listed" nonresponse cases, as well as "no answer," "will file," "unavailable," and so on. The telephone control unit sorted referred cases into State and county groups, using the CFN, and assigned each county group to a telephone interviewer, who contacted the appropriate county Agricultural Stabilization and Conservation Service (ASCS) office of the U.S. Department of Agriculture to try to obtain necessary data. Prior to contacting the ASCS office, telephone interviewers reviewed the (still blank) labeled reports and sorted them into two groups—those for addresses that had been inscope in the 1982 census and for which data had not been imputed from historical data in 1982, and all others (i.e., cases that were identified as inscope in 1982 and were imputed from previous census data, or cases without previous census history). For the 1982 inscope cases, telephone interviewers asked the ASCS offices only those questions needed to determine whether the cases were in or out of scope; inscope cases were given a census use code and the computer was used to replicate selected data from the 1982 data file. For all other cases, interviewers tried to collect the basic information needed from ASCS or other secondary sources.

Secondary-source reports coded for computer replication of 1982 data were sent directly to the batching unit to be batched for data keying. Reports with 1987 data collected went to the agricultural coverage unit for prekey review before being forwarded to the batching unit. Telephone control clerks updated the check-in status for cases identified as out of scope using the interactive computer processing system in the telephone control unit, then sent the report forms for those cases to central files.

The telephone staff also conducted followup calls to approximately 12,000 nonrespondent cases from the Nonresponse Survey and 3,500 more for the Classification Error Study, beginning in the first week of May and continuing through September 1988. The telephone staff used the standard Form 87-A46, Nonrespondent Sample Survey, and Form A90, Classification Error Study, questionnaires. Control clerks affixed a Form 87-A82, Telephone Record Label, to each questionnaire to provide space for recording telephone call information. The A46 and A90 report forms were referred to the evaluation unit for processing.

Problem referral cases that were resolved by the telephone staff were returned to the originating unit to continue processing. Referral cases not resolved were returned to analysts for further review.

The control clerks on each shift batched completed inscope telephone followup cases and routed them to the check-in unit, which entered the check-in status, then forwarded the cases to the agriculture coverage unit for prekeying review.

Results—Altogether, the telephone staff completed approximately 154,000 cases by interview, and handled over 73,000 incoming calls from respondents. The totals for each type of telephone case were as follows:

Completed Telephone Cases by Type		Incoming Telephone Calls	
Туре	Total	Purpose	Total
Total	153,860	Total	73,307
Referrals	7,157	Request for assistance	3,067
Large farms	71,252	Request for time extension	1,937
Nonresponse Sample Survey	11,898	Request for materials	11,762
Low-response counties	1,884	Claims filed	32,755
Multiunits	336	Out of scope	16,912
Secondary sources	36,836	Other	6,874
Classification Error Study cases (form A90)	3,497		
Advertising and Response Behavior Survey (ARBS)	*21,000		

^{*}Estimated ARBS cases added to the regular telephone followup workload. See ch. 10 for further information on the ARBS.

CITRUS CARETAKERS

Background Information

While general agriculture censuses had been carried out by mail since 1969, the Census Bureau continued to collect data by direct field enumeration for selected citrus caretakers in several States. This methodology avoided the difficulty of identifying and enumerating absentee grove owners, who frequently employed caretakers for their groves (a citrus caretaker is an organization or individual caring for, supervising, or managing citrus groves for owners), and usually did not have the information available to complete the report form.

A special field operation was introduced to collect data on citrus caretakers in the 1964 agriculture census, when those in Florida received special attention in an effort to improve overall coverage of the citrus groves. Field interviewers completed a report form for each caretaker, asking for a list of grove owners' names and addresses and the acres owned by each. The staff matched the owners' names and addresses to the respondent file to eliminate duplicate reports. Direct canvassing of caretakers continued in the following censuses, with coverage extended to include Texas in the 1974 and later enumerations, and Arizona from 1978.

For the 1987 census, the agency used the field enumeration for citrus caretakers in Arizona, Florida, and Texas, where their employment was widespread, and they generally were the most reliable sources of data. Individual caretakers' activities varied considerably in scope; some were responsible for the entire care and management of the groves while others performed only selected grove work, and many did not do the harvesting.

1987 Enumeration

For the citrus enumeration, there was a special version of the standard report form—87-A0215, Citrus Caretakers—that dropped the standard crop and livestock

sections and substituted a section for reporting acres in citrus groves and other orchards. It asked for data on the specific type of citrus, number of trees or vines of bearing or nonbearing age, acreage in citrus, and quantity harvested. The report form had write-in sections for other crops or livestock raised, as well as the sections included in the "sample" forms used in the regular census.

The Agriculture Division compiled a list of citrus caretakers from various administrative records and mailed the census report forms, along with a cover letter, instruction sheet, and return envelope, to identified citrus caretaker operations in Texas in May 1987, to Florida caretakers early in September, and to those in Arizona later in September. Caretakers were asked to look over the report form, complete it if possible, and hold it until a member of the field staff visited to either pick up the completed form. or complete it by interview. This mailing schedule meant that followup visits by field enumeration staff-planned for about 2 weeks after completing the mailout to each State—occurred when the caretakers' workload was lightest and information from the 1986-87 harvest season was available.

The field interviewers assigned each caretaker a "caretaker number" after completing each interview and filling out the report forms, and asked the caretaker to inform his or her grove owners that they should (1) mark "citrus reported by caretaker #" on any regular census report form they might receive, and (2) be certain to supply any data requested for any other agricultural operations they might have. The Bureau matched the list of grove owners' names obtained from each caretaker to the "status report list" of the regular census, and where duplicate reports were identified, the owners' citrus data were deleted from the file. During the census processing, report forms containing remarks about a citrus caretaker were referred for matching to the list of caretakers to delete the grove owner's citrus data from the report.

The number of citrus caretakers, approximate number of grove owners they served, and approximate citrus acreage included in their operations, by State, were:

State	Caretakers	Grove owners	Citrus acreage
Total	92	3,975	196,500
Arizona	7	175	12,000
Florida	65	3,000	170,000
Texas	20	800	14,500

Those citrus operations not associated with caretakers in these selected areas and in other States (e.g., California) were included in the regular census data-collection effort that began in December 1987.

NONRESPONSE SURVEY

General Information

The Bureau surveyed a sample of census nonrespondents to "inflate" the data from respondent farms to represent "all farms," including farms that did not respond to the

census. Farms with acreage and/or TVP exceeding the limits set in their particular State were subject to 100percent telephone followup (see Vol. 1, Geographic Area Series, app. C, for details of the statistical estimation methodology and the reliability and coverage estimates for each State), and were excluded from the sample, together with all must, abnormal, and Alaska addresses. The specific limits varied from State to State; the TVP from \$100,000 to \$200,000, and the acreage from 1,000 to 3.000 acres.

The Bureau selected the Nonresponse Survey sample from the 1987 agriculture census check-in file, and stratified the eligible file based on expected value of sales. information from previous censuses, and form type. The stratum codes assigned were:

Stratum	Description
1	Nonrespondent short form cases.
2	Nonrespondent, nonshort form cases with 1987 estimated TVP less than \$2,500.
3	All nonrespondent, nonshort form cases with 1987 estimated TVP of \$2,500-\$9,999.
4	All nonrespondent, nonshort form cases with a 1982 census inscope source combination code and 1987 estimated TVP of \$10,000 or more.*
5	All nonrespondent, nonshort form cases with no 1982 census inscope source combination code and 1987 estimated TVP of \$10,000 or more.*

^{*}Since TVP cutoff levels for telephone followup varied by State, the mail size codes included in these strata also varied.

The staff used a single stage systematic sample of the eligible records in each State to select a total of 27,109 addresses for the survey. The sample was selected from the nonrespondent list for each State, with sampling intervals calculated to produce a sample large enough to make reliable State estimates. Sample selection was completed for groups of States at five points during the processing, depending on the census data collection closeout dates for the States involved. The States in each group were as follows:

0	Chahaa
Group	States
1	Delaware, Maryland, and Wisconsin
2	Connecticut, Illinois, Maine, Massachusetts, New Hampshire, Rhode Island, and Ver- mont
3	Colorado, Indiana, Iowa, Missouri, Michigan, New Jersey, New York, Ohio, Oregon, Pennsylvania, Virginia, Washington, West Virginia, and Wyoming
4	Alabama, Arizona, Arkansas, California, Idaho, Kansas, Kentucky, Minnesota, Mon- tana, Nebraska, Nevada, New Mexico, Tennessee, Texas, and Utah

Group	States
5	Florida, Georgia, Hawaii, Louisiana, Missis- sippi, North Carolina, North Dakota, Okla-
	homa, South Carolina, and South Dakota

Report Forms

The survey employed two versions of the report form; the form 87A46(A) was a four-page folder that included a cover letter explaining the need for the survey and requesting the addressees' cooperation as its first page, followed by a series of items requesting basic production and inventory information (this basic format had been used in previous nonresponse surveys). The form 87-A46(B), also a four-page form, asked for the same data as the (A) version, but used a separate cover letter. The staff used the two versions to determine if one or the other obtained better response from farmers, sending (A) versions to half of each stratum and (B) versions to the other half. There appeared to be no difference in the response levels obtained by the two versions of the form, but no statistical tests were carried out to substantiate this conclusion.

Mailout

The DPD staff prepared, labeled, and mailed survey packages for each group of States as sample selection was completed for that group. The mailing dates and total report forms mailed, by State group, were:

Mailout date	Group	Quantity mailed
Total	_	27,109
04/05/88	1	983
04/13/88	2	2,134
05/04/88	3	2,827
06/08/88	4	3,106
07/13/88	5	18,059

Respondents to the survey mailed their forms to the Jeffersonville, IN, office, where they were checked in and processed.

Response

Mail response was not overwhelming; the Bureau received 3,820 completed report forms (1,941 A46(A) and 1,879 A46(B) versions), together with 31 PMR's. Approximately 12,000 delinquent Nonresponse Survey cases were referred to the telephone staff for followup, while about 8,500 more were telephoned by the AGR staff from Suitland. Telephone followup obtained 20,415 responses, for total receipts of 24,266. While slightly less than half of the receipts represented inscope agricultural operations, all were used to develop the imputation estimates. (For more information on imputation for nonresponse, see ch. 6.)

MODEL DROP SURVEY

In April 1988, the Census Bureau carried out the Model Drop Survey—a sample survey of addresses deleted from the 1987 agriculture census mail list-to evaluate the efficiency of the classification-tree methodology used in its statistical modeling of the 1987 census mail list. (See ch. 10 for more information on this evaluation.) . The national sample frame consisted of five strata (A through E), defined by specified source combinations and estimated size. Each stratum consisted of addresses believed to represent similar kinds of records, based on expected sizes and on the sources from which the addresses had been drawn. Strata A through D were records removed from the mail list due to statistical modeling used to identify probable nonfarms. (See ch. 3 for more information on the statistical modeling used in preparing the census mail list.) Stratum E records were those that the modeling suggested should be included, but that Agriculture Division staff deleted for "subjective" reasons (e.g., expectation that particular types of operation would qualify as farms). The Suitland office staff drew systematic samples of approximately 1,000 addresses from each of the five strata, and mailed survey packages (each consisting of a Form 87-A90, Census of Agriculture Classification Error Survey, a cover letter explaining the survey and requesting response, and a return envelope) to a total sample of 5,339 cases on May 18, 1988. Two mail followups, each using complete survey mailing packages, were carried out to 3,216 and 2,400 nonrespondents during the first and last weeks of June, respectively. The Agriculture Division staff contacted approximately 900 of the remaining nonrespondent cases in a telephone followup conducted between August 4 and August 19, 1988.

A total of 2,643 responses (49.5 percent) were obtained, but only 2,471 of these could be classified as farm or nonfarm. The remaining 172 were postmaster returns.

RESULTS

The 1987 Census of Agriculture achieved an overall response rate of 86.2 percent (excluding PMR's), obtaining responses from approximately 3,404,000 addresses, out of a total mailing of some 4,095,000. Postmaster returns accounted for an additional 148,000 cases. Telephone followup accounted for over 110,000 completed cases—73,472 from interviews with respondents and 36,836 from secondary sources.

The census published data for 2,087,759 agricultural operations that met the census definition of a farm. These operations represented over 964 million acres of land in farms; a value in land, buildings, and equipment of almost \$690 billion; and \$136 billion in total value of sales of agricultural products.

CONTENTS

Chapter 6. Data Processing

	Page
Introduction	
Precomputer Processing	
General Information	
Receipt and Check-In	
Receipt and initial sort	
Batch and check-in	
Mechanical sort	
Manual sort	
Correspondence	
General information	
Reading subunit	
Mailout subunit	
Correspondence analysts	
Interactive processing subunit (keyers)	
Quality control	
Suspense file	
Special Case, "2+," and Multiunit Processing	
Special cases	
"2+" cases	
Multiunits	
Interactive Research Unit	
General information	
Name and address searching	
CFN searching	
Data Entry	
General information	. 53
Data keying operations	53
Quality control	. 56
Computer Processing	. 57
General Information	57
Format and Simple Edit	
Complex Edit	
Failed Edit Correction and Data Merge	
Failed edit correction	
Data merge	58
Statistical Estimates	59
General information	
Nonresponse estimation	
Sample estimation	
Tabulation and Data Review	
General information	
Analytical review and data correction	
Tabulations for counties, States, divisions, regions, and the United States	
Disclosure analysis	

INTRODUCTION

The Census Bureau carried out the 1987 economic and agriculture censuses concurrently, and processed the report forms from the data collection phase, except those for Puerto Rico and the outlying areas (see chs. 7 and 8), in Jeffersonville, IN, at its Data Preparation Division (DPD) facility. While many of the processing activities for the censuses were integrated (e.g., receipt and check-in, and correspondence), separate staffs keyed the data, and each of the various censuses used specialized computerized edit and tabulations programs.

The staff processed the agriculture census data in three main phases:

- 1. A precomputer operation at Jeffersonville
- The computer edit and tabulation operation using the Census Bureau's mainframe computer system at the Suitland, MD headquarters
- A failed edit correction operation, carried out at Jeffersonville concurrently with the computer edit

The Jeffersonville staff also conducted a post-tabulation data review of the census data tables.

The various operations used interactive systems and linked Suitland electronically with work stations and the processing staff in Jeffersonville. The Jeffersonville staff used approximately 70 terminals, each with a keyboard, screen, and access to one of several minicomputers located at the Suitland facility. These minicomputers had substantial data storage and processing capacity; they dispensed with many of the paper printouts previously used by displaying the data on the Jeffersonville terminals' cathode ray tube (CRT) screens.

The main computer facility at Suitland carried out the computer edit and tabulation of the census data, using the mainframe computer to format, edit, and tabulate the data received from Jeffersonville. Census records failing the computer edit were electronically referred back to Jeffersonville and displayed on terminal screens there. The processing staff reviewed the problems and entered corrections to the data file through the terminals. This eliminated the need to write corrections on paper batch edit listings and send them to the data keyers, as had been done for the 1982 census.

PRECOMPUTER PROCESSING

General Information

The DPD mailed approximately 4.1 million 1987 Census of Agriculture report forms in December 1987, and carried out a series of mail and telephone followups over the succeeding 7 months. Census responses began arriving at the DPD office in January 1988, with receipts totaling over 1.43 million by the end of that month. The DPD staff required for the agriculture and economic census data

processing activities varied during the processing cycle. Prekeying staff (i.e., for receipt, check-in, sorting, correspondence, and so on) peaked at over 300 employees in February 1988, while the keying staff reached its highest level in April, with approximately 203 employees. The precomputer processing phase involved—

- · Receiving and checking in the report forms
- Sorting report forms and removing contents from envelopes
- Evaluating and responding to census-related correspondence
- Reviewing special cases (mostly nonagricultural), "2+" cases, and multiunits¹
- Keying the data from the report forms to computer disk

The DPD staff was organized into sections and units based on the specific tasks each was to perform. Some units, such as mail receipts and check-in, and the correspondence, processed both agriculture and economic census reports, while other units were dedicated to either the agriculture or economic census processing operation.

Receipt and Check-In

Receipt and initial sort—After identifying incoming mail by the different ZIP Codes assigned to the economic and agriculture censuses, the Postal Service presorted these materials for the DPD office into four categories:

- 1. Ariculture census receipts
- 2. Agriculture census postmaster returns (PMR's)
- 3. Economic census mail
- 4. Other mail

The clerical staff sorted the agricultural receipts by type, and removed those without visible barcodes. Packages without visible barcodes went to the remove-contents and sort unit; packages with visible barcodes went to the batching unit for check-in; and multiunit PMR's were sent to the multiunit processing unit.

Batch and check-in—The batching unit received mail receipts from the initial sorting operation, the opening operation, and the barcode equipment operations areas. Clerks collected receipts and grouped them into batches, by type (i.e., agriculture, economic, and so on); mail receipts still in envelopes were collected in batches of 300-400 pieces each and placed in mail trays, while correspondence receipts and single-unit report forms out

[&]quot;2+" cases were those for which two or more report forms were received in one envelope. "Multiunits" were generally companies or partnerships that had significant agricultural activities at more than one location, functioning as separate economic entities.

of their envelopes were grouped into batches of approximately 100 each and placed in plastic bags. The staff completed two documents for each batch before sending it along for check-in:

- 1. A Form EC-14, Batch Cover Sheet, with the batch number, date prepared, check-in status, estimated number of forms and destination after check-in
- 2. A Form BC-1476, Batch Log, for Check-in Control, for maintaining a record of each batch number.

The check-in unit clerks performed the bulk of the check-in operations using two laser barcode-reading machines, each with a six-pocket mechanical sorter. The barcodereader terminal operator keved the batch number and status codes from the form EC-14 for each batch to the laser machine's microprocessor. The computer program checked the codes, and if they were unacceptable, the terminal operator determined the correct codes, and entered those codes for the batch before submitting the materials for check-in.

Once a batch was accepted, the terminal operator placed the materials in the loading tray so that the barcodes faced the laser. The laser equipment "read" the barcodes on the address labels-which included a tradearea code identifying the type of activity (e.g., "agriculture"), and the census file number (CFN-an identification number assigned to each address in the census mail file) for the address-checking in each receipt to update the census control file. The laser machines checked in and sorted up to 400 receipts per minute each (real average production was 100-150 receipts per minute), using the six-pocket sorter to group them into unreadable barcodes (pocket 1), agriculture receipts (pockets 2 and 4), PMR's (pocket 3), all other trade area codes (pocket 5-nonagriculture census receipts inadvertently included in the agriculture census batches), and unable to sort (pocket 6). Initially, the operator resubmitted "unreadables" and "unsortables" to the laser check-in three times; those still unread after three tries went back to the receipts unit for opening and rebatching. PMR unreadables went to wand/ keyboard check-in. As processing progressed, this practice was changed to improve efficiency: In the revised procedure, the operator allowed pocket 1 and 6 materials to accumulate until all of each day's receipts had been run through the machine, then rebatched and reran the rejected receipts. If the sorter still was unable to "read" the barcode, the receipt was opened, batched, and checked in at the wand/keyboard station.

Materials the laser barcode-reading machines could not check in were referred to laser wand/keyboard check-in. These included—

- Unreadable barcode receipts (including those with barcodes not visible through the envelope window)
- · Report forms out of their envelopes

- Multiunit report forms when several forms were returned in a single envelope
- · Respondent originated correspondence (ROC) and Census Bureau originated correspondence (BOC)
- Out-of-scope recycles

Clerks using laser wand equipment ran the wands over visible barcodes. When the laser wand equipment failed to read a barcode, or when no barcode was present (e.g., with letter correspondence), the clerks used conventional keyboard stations to key the trade-area code and CFN. The staff referred materials without CFN's to the research

As the materials were checked in, clerks entered the check-in data from the laser barcode-reader machines, the laser wand stations, and the keyboard stations, on "pooler" tapes. When each tape reached capacity, or at the end of the daily check-in run, the clerks completed a Form DP-133, Pooler Lot Batch Number Control Record, with the processing project number (a four-digit identification number) and date, project title (i.e., 1987 Economic and Agriculture Censuses), phase (check-in barcode reader), and the pooler lot number. The check-in data were transmitted to the Suitland computer facility daily. The staff sent the paper documents to the pooler lot hold area, to await verification of successful check-in transmission and database update.

Mechanical sort—After check-in, the DPD staff used two laser barcode reading machines, each with 24-pocket mechanical sorters to sort report forms still in their envelopes. This required two sorting passes, the first by type of case (i.e., "must," sample, nonsample, and "short" form) and census geographic division (for a description of the census geographic divisions, see ch. 5), and the second by State. In the first pass the laser reader scanned the barcode on each address label and the sorter mechanically sorted the receipts into groups of forms as follows:

Pocket	Туре	Geographic division
1	Machine rejects (unable to read barcode)	(X)
2	Must	1, 2, 3, and 6
3, 5, 7	Nonsample	1, 2, 3, and 6
4	Must	4 and 5
6	Must	7, 8, and 9
8, 10	Sample nonmust	1, 2, 3, 6
9, 11	Nonsample	4 and 5
12, 14	Sample nonmust	4 and 5
13, 15	Nonsample	7, 8, and 9
16	Sample nonmust	7, 8, and 9
17	Short form	1, 2, 3, and 6
18	Coverage evaluation	All divisions
19	Short form	4, 5
20	Abnormal farms	All divisions
21	Short form	7, 8, and 9

Pocket	Туре	Geographic division
22	Multiunits	All divisions
23	Non-agriculture receipts	(X)
24	Machine failures (unable to sort)	(X)
(X) Not	applicable.	

The coverage evaluation (pocket 18), abnormal farms (20), and multiunits (22) receipts were not subject to the State sorting operation but were sent directly to the remove-contents and sort unit.

All other receipts already sorted by type of form (i.e., must, sample, nonsample, and short) went through a State sort in three waves by geographic division. Materials in divisions 1, 2, 3, and 6 were in the first wave; cases from divisions 4 and 5 in the second; and those from divisions 7, 8, and 9 in the third. The sorter automatically opened the envelopes during the second sort and grouped receipts, still in their envelopes, by State. Pockets 1 and 24 of the sorter were reserved for rejected materials and machine failures, which were submitted for resorting three times. If they remained unreadable, the staff referred them to the remove-contents and sort unit. As the sorting progressed, clerks collected the sorted materials, by State, and also referred them to that unit.

Manual sort—The remove-contents and sort unit received the bulk of materials for processing from the mechanical sorting equipment, on a flow basis, in State batches. The staff removed the contents of envelopes, maintaining the State groups, and sorted the receipts into groups of "2+" reports, agriculture special case reports,² and all others. For the "short" form 87-A0400, additional review was performed to identify obvious out-of-scope (O/S) cases. These were short forms with both "no" boxes checked in section 1 and no remarks, correspondence, or data entries anywhere on the form.

Coverage evaluation cases received additional processing; the staff photocopied each coverage evaluation report form, as well as any attached correspondence, and sent photocopies to the evaluation unit. The original report forms then were sorted into groups of "2+" cases, special cases, and all others. The "all others" group was sorted again by type of form (i.e., must, sample, nonsample, and short) and by State.

The remove-contents and sort unit referred the sorted receipts, in State batches, as follows:

Form type	Destination
Coverage evaluation (photocopies)	Agriculture evaluation unit
"2+" cases	Batch for check-in

²This occurred when (1) correspondence was received with the report form, (2) the front page of the report form was blank or no positive data were entered, (3) the respondent entered remarks on the front or back page of the form, or (4) acres were entered in section 1 of the report form, but no data appeared in the crops or livestock sections.

Form type Special cases Agriculture special case processing Multiunit (non-"2+") Short form O/S recycles All others All others Destination Agriculture special case processing Multiunit processing Batch for check-in Batch for Data Systems Branch

Correspondence

General information—The correspondence unit at Jeffersonville handled the bulk of the census-related correspondence receipts and documented requests referred from incoming telephone calls. The unit consisted of several subunits responsible for (1) reading and classifying correspondence and telephone referrals, (2) keying correspondence category codes to the computer file to take actions assigned by the readers, (3) interactive research (primarily to identify missing CFN's and duplicate names) in the mail file, (4) mailing standard letters and report forms in response to correspondence or telephone requests, (5) adding addresses to the mail list by assigning CFN's to newly identified operations, (6) updating the data base and mailing out related blank report forms and instruction sheets to newly identified agricultural operations, (7) handling Census Bureau-originated correspondence (BOC) that required a reply from the respondent and maintaining the suspense file for such cases, and (8) quality control.

Reading subunit-The reading subunit staff read and sorted incoming correspondence. The subunit referred BOC materials to the suspense file, sent documents without CFN's to the research unit, and routed requests that seemed to require a tailored letter in reply to analysts. The readers evaluated all other respondent-originated correspondence (ROC), using a list of problem descriptions and recommended responses for the closest match to the correspondence subject to determine the appropriate corrective action. After reading and evaluating a case, readers annotated the correspondence with a two-digit unit code, a three-digit correspondence category (COR-CAT) code, and a time extension date, if required. The unit code designated the processing unit to which the reader referred the case (e.g., "45" = correspondence analysts, "50" = mailout, and "C-" = correspondence category keying), while the CORCAT code identified the general type of problem or subject of correspondence (e.g., "118"= Title 13 quote request, "730" = quit farming, sold farm). The time-extension code showed the date after which the case, if still delinquent, would be included in further followup.

The readers also prepared Form A301, Mail File Update Document, for cases with name and address corrections and sent the A301's to name and address keying.

Mailout subunit—This subunit prepared and typed special request letters and address labels. It also prepared and affixed computer generated or typed address labels for

mailing packages based on CORCAT codes or special instructions. (The computer generated labels were printed in the analysts' office daily, derived from data keyed the previous day.) The unit also received BOC cases, matched them to the suspense file, and referred them to the appropriate analyst for resolution.

Correspondence analysts—Analysts received unresolved cases (e.g., agriculture census cases, economic census cases, multiunits, and so on) and cases requiring a tailored reply for evaluation and resolution. Usually, this involved routing the case to the appropriate processing unit or preparing a letter responding to ROC cases. The Jeffersonville staff referred all congressional correspondence to Suitland for response, while Agriculture Division analysts at Jeffersonville handled all other ROC cases. The Agriculture Division staff prepared "standard paragraphs" addressing frequent questions or objections concerning the census and analysts used these to "assemble" letters, modifying the specific wording of the paragraphs to respond to specific points, or drafted entire letters for particular cases.

Interactive processing subunit (keyers)—The interactive processing subunit used computer terminals and the interactive processing system to update the computerized census mail list. For the majority of cases, the keyers began by entering the date, then the 11-digit CFN for each case, the CORCAT code, and the time extension code. Up to 30 CFN's and their associated codes could be keyed at a time, after which the data were subjected to quality control checks. A keyer (usually the lead clerk) then was able to write the data directly to the file by pressing two keys on the terminal keyboard. For name and address corrections, clerks had prepared a Form A301, Mail File Update Document, and sent it to the data keying unit, while holding the source document until the computer added the corrections to the file so that corrected address labels would be generated for mail followup. (In some cases, because of particular time constraints, address labels were typed and the letters prepared and mailed directly by the mailout subunit.)

Quality control—Quality control (QC) of the correspondence reading operation involved clerical review of materials from each batch submitted to the correspondence reading and keying subunits. The QC clerks verified batches of 60 or fewer pieces on a 100-percent basis, and larger batches on a sample basis varying from 1 in 3 pieces to 1 in 25 (from a random start) with a minimum sample size of 15 items.³ Clerks reviewed each piece selected for verification and corrected any error identified; batches verified 100 percent were accepted if the error rate was 3 percent or less, while sample-verified batches were

accepted if the number of errors was less than a specific number—ranging from 2 to 5—depending on the size of the sample (e.g., a sample of 15-27 pieces with 2 errors was acceptable).

The QC clerks reviewed each piece of correspondence selected for verification to confirm that (1) it had been processed according to established procedures; (2) the date processed was stamped on the case; (3) each case was correctly annotated with the unit number, category code, and check-in status codes; and (4) all information to be keyed was clearly marked. The clerks corrected any errors, and listed errors identified on the Form DP-697, Clerical Quality Control Record. All batches verified 100 percent were released for further processing, together with acceptable sample verified batches. The sample-verified batches rejected because of too many errors were referred for recycling through the correspondence unit and the QC verification procedures.

Suspense file—The suspense file held all ROC cases requiring a reply, regardless of the unit of origin, as well as all BOC cases. Cases remained in the suspense file for a maximum of 35 days; if at the end of that time no additional responses had been received, the cases were referred directly to an analyst who determined what additional action, if any, should be taken.

Special Case, "2+," and Multiunit Processing

Special cases—Reports with attached correspondence, remarks entered on the front or back page, blank front page with no positive data, or acres reported in section 1 but no crops or livestock on the report, were designated "special cases" by the remove-contents and sort unit, and were referred to the special case unit. The unit staff (1) determined whether referred cases represented agricultural operations meeting the census farm definition and assigned inscope or out-of-scope codes as required, (2) identified possible "2+" cases, (3) assigned CORCAT codes to cases requiring written replies or more data on the report form, and (4) referred cases to other units or analysts as required. Most special cases proved to be out of scope (i.e., not farms) and were sorted by reason for being out of scope and then sent to the check-in unit for updating the census data base. Once the status had been updated, the check-in unit sent the forms to central files. Report forms determined to be in scope and without other referral problems were sent for data keying. The staff referred the remaining cases as follows:

Туре	Referred to—
"2+"	"2+" processing
Problem cases	Agriculture analysts
Form letter assigned	Correspondence category keying
Claims filed	Interactive search

³The actual rates of verification by batch size were as follows: 61-99 pieces, 1 in 3; 100-150, 1 in 5; 151-199, 1 in 6; 200-600, 1 in 10; and 601-1,000, 1 in 25. The typical batch contained between 75 and 150 pieces of correspondence.

Type

Referred to—

Report forms, requiring correspondence other than a form letter

Correspondence analysts

Quality control procedures in the special case unit subjected the cases completed by each clerk to sample verification before the work was released from the unit.

"2+" cases—Most "2+" cases were the result of mailing two or more report forms to (1) an individual, who may or may not have operated more than one farm; (2) different individuals involved in the same operation (e.g., husband and wife, two or more partners, several heirs to an estate, and so on); or (3) an accountant or trust manager of a bank who returned the report forms for several operations in a single envelope. The "2+" case folders, each containing all the reports forms connected with each case, were routed from check-in to the "2+" unit on a flow basis.

Clerks in the "2+" unit reviewed all referred cases to determine (1) whether the report forms represented one or more separate operations that met the census farm definition, (2) the scope of any operations reported, and (3) whether the report forms needed to be linked for reference during further processing. Clerks linked report forms by CFN if different CFN's were being used for the same operation, or the respondent owned or operated more than one agricultural operation. The reviewing clerk linked operations by first determining which CFN was to be assigned the one-digit primary code, and then assigning a one-digit secondary code to the other reports or CFN's. The linkage codes of the primary CFN characterized the scope of the primary case (e.g., in scope ["1"] or out of scope ["2"]). The linkage codes of the secondary CFN's characterized the status each individual secondary report form/CFN related to the primary CFN (e.g., "5" indicated an out-of-scope CFN linked to an in scope CFN). If three or fewer reports had to be linked, and one was in scope, the clerk involved listed the CFN's and linkage codes on the inscope report for keying as part of the data entry operation. If more than three report forms had to be linked, the clerk involved completed a Form 87-A306, Linkage Document, for the situation. The clerk entered the CFN's and linkage codes for all the report forms on the A306 and added this document to the case folder. Identical linked CFN cases—i.e., the secondary or other duplicate, linked report forms-were annotated "void duplicates" and sent for disposal. The quality control staff verified the "2+" unit's work using procedures similar to those employed for the reading and other precomputer processing units. After verification, the disposition of cases for further processing was as follows:

Type

A306 documents and inscope reports
Abnormals, Hawaii, Alaska

Multiunits

Disposition

Batch for data keying

Agriculture analysts (Suitland)
Multiunit processing unit

Type

Referrals

aries)

Correspondence cases

secondaries)

Void duplicates

Out of scope (except linked

Disposition

Agriculture coverage ana-

lyst

Correspondence unit Batch for check-in

Out of scope (linked second- Central files

Burn box

Multiunits—The Agriculture Division established multiunit company folders for agriculture multiunits identified prior to the 1987 census, and mailed the report forms for these cases as part of the regular census mailout. Analysts accumulated report forms from a multiunit in its company folder until they were able to account for all of its identified agricultural operations, then reviewed the contents of the folder before forwarding them for data keying. The analysts checked the report forms of each company for completeness; reviewed and edited data entries; compared data between sections of the report forms to ensure consistency: and carried out historical data comparisons for land in farms, value of sales, and major commodities for specified operations.4 The staff made telephone calls to problem cases and respondents who had returned incomplete report forms and held the company folder involved out of the processing cycle until followup was completed. All report forms for a given company were reviewed and corrected before they were released for data keying. Analysts determined what action should be taken to correct the most frequently encountered problems (e.g., bracketed entries (see p. 55), reporting in units other than specified fractional entries, and so on), decided whether specific report forms should be referred to Suitland for resolution of special problems, and completed Mail File Update Documents (Forms A301 and A301A) when needed. After reviewing and correcting any problems, and verifying suspect data, the analysts sent in scope report forms and correction documents for data keying. Jeffersonville analysts annotated out-of-scope (O/S) report forms, made O/S check-in action updates, returned the forms to the company folder, and refiled the folders.5 The A301 and A301A documents went to the batching unit for name and address keying to update the mail file.

Interactive Research Unit

General information—The research unit resolved coverage problems for selected cases, usually by searching the 1987 census mail file to match names and addresses for the following kinds of cases:

⁴Analysts made historical data comparisons for a particular operation if (1) the reported acreage was 1,000 acres or more, or if the change in acreage from 1982-87 was 1,000-5,000 acres or more; (2) the reported total value of products sold (TVP) was \$500,000 or more; or (3) if a multiunit showed a significant difference in operation from 1982.

⁵The multiunit folders remained on file for possible referral to the economic census processing operation; operations out of scope for the agriculture census could represent other economic operations of a company that were in scope for another of the economic censuses.

- Successors. Successors were the current operators of farms listed in the census file under different operators' names. Successors' names for must cases not matched to the census mail list became "adds" to the census file. (Only must cases were subject to successor search.)
- Partners. Partners cases were those in which a respondent supplied the name or names of other persons who had filed or would file a report form for the same operation.
- Claims filed. There were three types of "claims filed" cases:
 - a. A respondent provided another name but no additional census file number (CFN).
 - A respondent did not indicate any other name or CFN under which he or she might have reported.
 - c. A respondent claimed to have reported under another CFN.

Approximately 96,000 cases were sent to the research unit during the processing of the 1987 agriculture census report forms.

Research clerks used interactive routines on computer terminals to search the census data base to try to match cases to report forms already checked in. Analysts in the various processing subunits annotated report forms or correspondence referred to the research unit identified in the upper margins of the first page of the form by symbols indicating the type of referral: "S" for successor, "CF" for claims filed, or "P" for partner.

Name and address searching—Research clerks entered into the search routine the last name and ZIP Code, if known, for each case being researched. If the respondent did not provide an address, the clerk entered the original label ZIP Code. The computerized search routine used the SOUNDEX principle (see ch. 3 for information on SOUN-DEX) to search the census data base using the reported last name of the operator involved and the ZIP Code of the farm in question.6 The search program carried out searches at three successive geographic levels—five-digit ZIP Code, three-digit ZIP Code, and State. The system displayed possible matches for the clerks, who then annotated the report forms with identifying CFN's and check-in status codes, and with match codes "M" (matched), "PM" (possible match), "NM" (nonmatch), or "NA" (nonacceptable name (i.e., illegible, obviously fictitious, or government agency)). The clerks referred annotated report forms for further processing, and routed matched ("M") and possible match ("PM") successor cases to agriculture analysts.

CFN searching—The census file number (CFN) was the primary numerical identifier for each report form or case received and/or processed, and report forms or correspondence received with incomplete or missing CFN's were submitted to the correspondence research unit for searching along with other cases. These cases were matched to the mail file to try to determine the original CFN. When successfully matched, the CFN from the mail list was assigned to the receipt and the case was checked in and routed for further processing. Unsearchable cases were sent to central files, while other problem cases were referred to analysts for resolution.

Data Entry

General information—Data entry (or keying) required transcribing data responses from the census report forms to a machine-readable data file. The DPD staff used a key-to-disk system with interactive edit programs that selected the next program based on a question asked on the previous program, performed preliminary edits, and displayed questions to identify various situations in each record as the data were keyed. The questions helped lead the keyer through the interactive routine.

The data entry staff used key stations, each consisting of a keyboard with a cathode ray tube (CRT) viewing screen, which allowed the operator to monitor and edit keyed data as well as receive messages or questions displayed by the input program. Quality control procedures included reviewing samples of each keyer's work and, when necessary, correcting keying errors.

After data were keyed and verified, a lead operator transferred the data from the disks to magnetic "pooler" tapes for transmission to the Suitland computer complex by telephone datalink. The keying unit received work units (WU's) of census questionnaires batched by State, so each of these "pooler" tapes contained data for only one State. Once the Economic Programming Division (EPD) programmer "ran" the data from a given pooler tape, verifying that the data had been received at Suitland and was acceptable, the DPD unit erased the tape for reuse.

Data keying operations—The batching and control subunit weighed report forms using electronic scales (instead of hand counting into batches), batched the report forms by type (must, sample, nonsample, and short), placed each batch of forms in a plastic envelope, and attached a Form 87A405, Batch Cover Sheet, with a WU number assigned by the computerized data entry production control system. The batched reports then were placed in a rolling bin and sent to the data keying staff. The data keying staff in DPD's Data Systems Branch received report forms, linkage documents, and mail file update documents in WU's of 50-100 documents each. Supervisors assigned these materials to the keying staff according to State priorities, or closeout schedules. Agriculture Division requested that Data Systems Branch key and transmit 5,000-10,000 cases per State closeout.

⁶When no ZIP Code was provided by the respondent, the research unit used the outgoing address label ZIP Code. When the one from the respondent differed from the label code, the case was referred for ZIP Code research for confirmation of the reported address's correct code.

Data entry combined clerical screening and data entry into a single operation. Keyers identified problems on the report forms and made decisions as to whether a given problem should be keyed, flagged, ignored, or handled in some other manner. Keyers opened the plastic envelopes containing the report forms/documents, wrote his/her "keyer ID" on the form 87-A405 cover sheet, and checked the report forms for problems as data were entered. Report forms were pulled from the batch and rejected at data entry for the following reasons:

- Report form was not keyable. The majority of data values and their location could not be determined.
- Linkage code missing. The linkage code for the extra CFN (i.e., a different CFN than the one in the label area) was missing.
- Remark requiring reply. There were remarks on the form, or attached, requiring a reply.
- Blank report. No data were reported in sections 1-29. (For telephone followup report forms, no data were reported in sections 1-29 and "Census Use Only" box 037 was not equal to "9"—i.e., the computer replicated selected 1982 data from the census data base.)
- Maximum values were exceeded. Data field(s) exceeded the maximum value allowed.
- Geographic area code (GAC) validation. The State reported for the principal county location of agriculture operations did not match the State reported in item 5 on the Form 87-A405, Batch Cover Sheet.
- Check digit failure. The input edit program rejected the CFN, extra CFN, or "Census Use Only" box 036 check digit after three attempts to key the field.

The keyers pulled rejected report forms from the batch, circling check digit rejects, maximum value failures, and extra CFN's with missing linkage codes in red ink; and wrote other reasons for rejecting the report in the label area (also in red ink). They held rejects aside from the rest of the batch until all report forms in the batch had been keyed, then counted and posted the number of rejects to the A405 Batch Cover Sheet. The keying staff referred rejects to supervisors, who sent them daily to the batching and control subunit for rerouting to the appropriate processing subunit (e.g., correspondence, agriculture evaluation).

Keyers employed a series of input programs to key data from the Batch Cover Sheet and report forms, usually in the following order:

Batch header. Assigned to key batch header information from the Batch Cover Sheet.

Identification. Key the CFN, extra CFN's, and "Census Use Only" boxes 035-042 from the report forms.

Name/address correction. Key corrections made to the name and/or address by the respondent.

Geographic area code validation 1. Key answers to questions about the principal county located in section 1, item 8 (Location of Agricultural Activity for "This Place").

Geographic area code validation 2. A continuation of GAC validation 1, this program checked county/ State location.

Reported data (29 programs in all). Assigned to key section identifiers and keycodes with reported data.

Telephone number. Key the area code and telephone number located in section 29 on regular report forms, or above section 1 of the telephone enumeration report forms.

Rejects. Key the number of rejected report forms.

Help. Display the last 15 records keyed for reference.

The header and identification programs identified the batch number, State, number of report forms, CFN, and other relevant information about the batch/report forms. The name/address correction and GAC validation 1 and 2 programs were "interactive," that is, the routines guided the keyers as they keyed the information required. The first of these programs enabled the keyers to make name and address corrections, if necessary; the second was used to confirm county location; and the third to confirm State location if the county reported by the respondent did not match the four-letter county code on the address label, and the State reported did not match the State listed on the Batch Cover Sheet. In each case, the interactive program displayed questions identifying conditions that required action by the keyer, and provided guidance for keying corrections to the names, addresses, and geographic locations.

To enter reported data from sections 1-28 and the telephone number (if any) from section 29, the keyer first keyed the three-digit section identifier for each section containing data,⁷ followed by the yes/no response to the question for data. The keyer next entered a three-digit main keycode for each cell containing data (including write-in cells)or a three-digit subkeycode (001-005) for certain data cells with coded crops or animal specialties, followed by the reported data within the data cell (up to nine digits). The section-identifier code also "called" the input program for that section (e.g., the input program for

⁷The keyers did not key section identifiers for blank sections except for sections 1 (acreage in 1987), 11 (land irrigated in 1987), 24 (fertilizers. phosphates, and lime used in 1987), 25 (insecticides, herbicides, fungicides, nematocides, and other pesticides, or other chemicals used in 1987), and 29 (person completing this report and the date) on must and sample report forms; and sections 1, 11, and 29 on nonsample report forms.

section 7 was activated by keying "-07" on the previous program). For example, in section 7 (other crops), a respondent might report that 75,000 pounds of shelled popcorn was produced on 5 acres of land on "this place" in 1987. The keyer entered

- 1. The section code "-07" ("-" was used for "S" as a section code digit), indicating the section,
- 2. "1," indicating the yes box was marked (keyed for
- 3. Keycode "662" to identify the crop as popcorn (pounds, shelled),

- 4. "5," reporting acres for data,
- 5. "001," the subkeycode for quantity harvested,
- 6. "75000"—the quantity harvested for data.

Keyers proceeded through the report form, entering the various codes as needed. They were expected to decide whether to ignore, key, or flag data for any problem item, as shown in table 6-1.

Table 6-1. Keyer Problem Instructions

Problem	Description	Keyer action
Alpha enties	Respondent used an alphabetic equivalent for a numeric value (i.e., "ten" acres, instead of "10" acres).	Keyer interpreted the value and keyed it in numerics.
Dollars/cents	Respondent reported dollars and cents instead of dollar value only.	Keyer entered only dollar value.
Altered stub (The "stub" was the list of items or descriptions usually running down the left side of a section.)	An altered stub involved a change or addition to the preprinted items.	Keyer flagged this problem by keying a "+" for the data item; no data were keyed.
Bracketed entries	A single entry reported for multiple data cells.	Keyer keyed the reported data followed by a "-" flag.
Data field exceeded nine digits	-	Keyer rejected report form after circling the data cell.
Data reported outside of a data cell	Data were reported but were written outside corresponding data cell.	Keyer keyed the data for the nearest data cell or handled the item as a bracketed entry if the response appeared to be bracketed.
Double entries	More than one entry in a single data cell.	Keyer repeatedly keyed the key code and data until all data values were keyed.
Fractions and decimals	Fractions and/or decimals reported when not requested, or fractions and/or decimals reported when "tenths" requested (i.e., "1/2," "1/3").	Keyer decided how to handle based on rules given in the keying instructions.
Range entries	Data reported with an upper and lower limit instead of a specific number.	Keyer keyed upper limit only.
Reference to other data	Symbols such as arrows, ditto marks ("), or remarks ("all"), used to indicate "the same as" reference to other data.	Keyer decided to key or flag, based on instructions and examples in the keying instructions.
Wrong units	Units used in reporting data were inconsistent with those listed in a data cell or preprinted to the right of crop names below write-in sections.	Keyer compared the reported units to the preprinted units and keyed the data if the units were the same, or flagged the data by keying the reported data followed by a "+" if the units differed.
Negative entries	Negative values reported for acres or dollars.	Keyer keyed a "-" flag for the section.

Table 6-1. Keyer Problem Instructions—Con.

Problem	Description	Keyer action
Remarks	Comments or reporting errors that (1) required a change to reported data, (2) contained data, (3) related to the manner in which data were reported, or (4) required a reply. Other categories of remarks were (a) illegible entries (not interpreted by supervisor), (b) nonkeyable sections, (c) sections that were full and data were reported below, (d) the section was not distinguishable or there was a question as to how the data were to be keyed.	

Quality control—There were quality control (QC) procedures for the data keying operation to ensure that the information on the report forms was accurately recorded for editing and tabulation. For the 1987 census, verifiers checked keyers' work to identify any errors made by the keyers. All errors identified during the verifiers' review of keyed work were corrected and reverified before the data were transmitted to Suitland for computer processing. The procedures defined errors as either keyer errors—essentially miskeying that resulted in such problems as miskeyed fields, field or document omission or duplication, field keyed unnecessarily, and so on—or nonkeyer errors, which included mechanical or supervisor errors, verifier corrections, etc.

Data keyers progressed through four stages of verification of their work. These began with 100-percent review or verification of two batches, followed by sample verification, and then qualification for the final stage of post-proficiency status. After initial training, including instruction on the specific agriculture data entry procedures, keyers entered "stage 1" of the verification program.

In stage 1, which was part of the keyer training program, all keyers' work was verified on a 100-percent basis with all detected errors corrected. Two complete WU's (a WU consisted of approximately 50 sample or nonsample, or approximately 100 short (A400) forms) had to be keyed before the keyers could proceed to stage 2.

In stage 2, keyers' work was sample verified⁸ and the quality control reviewers used decision tables that established the acceptable number of errors (again, all errors, keyer and nonkeyer, were counted with respect to acceptability) within specified numbers of data fields verified from the sample questionnaires. For example, a WU with 1,057 to 1,116 data fields verified was acceptable if the total number of defective fields was less than 22, or about

2 percent. (Rejected WU's were sent through a rectification process, which involved 100-percent verification and correction.) Keyers remained on stage 2 until completion of the proficiency training period, at which time they progressed to stage 3.

In stage 3, keyers tried to qualify for the final stage. WU's were sample verified at the same rates as in stage 2, but the allowable error rate was reduced (in a WU with 1,108-1,187 fields, more than 17 defective fields, or less than 1.5 percent, required rejection of the unit). Only keyer errors were counted to determine qualification. If a keyer received 5 consecutive "accept" work unit decisions in a sequence of 10 or fewer decisions, the keyer advanced to stage 4. Each decision represented one keyed batch. (Keyers failing to qualify were further instructed and then allowed to reenter stage 3.)

In stage 4, each keyers' work was sample verified (except for small WU's) and all errors, keyer and nonkeyer, were counted in accepting a keyed WU. Overall error rates for keyers at stage 4 were not to exceed 1.2 percent. Once qualified for stage 4 verification, keyers remained at that stage for the duration of the census processing.

After data keying and verification, the processing staff moved the batches of keyed report forms to a holding area, keeping them there until disposition listings were received showing which records had failed and which had passed the computer edit. The processing staff pulled the report forms for cases that failed the computer edit from the keyed batches and regrouped them into edit review WU's for the interactive edit review and correction process. Thereafter, the forms went to central files for sorting, boxing, and storage.9

⁸The WU's were sampled using a sliding scale: small WU's (i.e., 9 or fewer sample or nonsample forms, or 19 or fewer short forms) were verified 100 percent; the sampling rates for larger units varied from 20 percent for those with fewer than 19 questionnaires (39 short forms), to 5 percent for units with 40 (80 short forms) or more.

⁹The 1987 agriculture census report forms remained at Jeffersonville until Sept. 1989, when the DPD staff pulled the report forms for 270,000 "large" farms (the definition of a large farm varied from State to State) and retained these for the Agriculture Division's large farm reference file (used in compiling the 1992 census farm list). The staff sent the remainder to the Federal Records Center, Dayton, OH, where they were to be stored for 11 years after the date of the census. After that, the individual report forms were, by law, to be burned. (Unlike the decennial census of population and housing procedure, the Bureau did not microfilm the agriculture returns.)

COMPUTER PROCESSING

General Information

The data, once clerically processed and keyed to computer tape (as described above), were transmitted the mainframe computer facilities at Suitland, MD, which carried out the bulk of the data formatting, sorting, editing (validating, cross-checking, and refining the data file), and tabulation, while the Jeffersonville staff did most of the data review and correction, using the interactive minicomputer system.

This computer work cycle began as soon as the first data from report forms were keyed and transmitted to Suitland in mid-January 1988, and continued until the final tabulations were completed in March 1989. Approximately 2.4 million individual census records were edited, of which some 2.088 million met the agriculture census's farm definition and were included in the agriculture census file. The computer processing cycle consisted of three major operations:

- · Formatting and simple editing
- · Complex editing and edit correction
- · Data tabulation

Format and Simple Edit

The format and simple edit operation (1) converted individual data records into binary records that could be manipulated by using the data processing programs, (2) carried the informational flags set during keying operations to the computerized record, (3) added historical individual-cell data to the file for comparison purposes, and (4) "flagged" problems identified during the formatting process.

The data records created for each census report form during data entry contained "fixed" record layouts that, for computerized editing and tabulation, had to be converted to "variable" output records with binary coding for numeric values. The data entry format program converted the data records into a series of fixed and variable portions; the fixed ones contained each record's identification information—State and county codes, CFN, SIC code, and so on—while the variable portions included a field for each data item reported, imputed, or changed, but nothing for items left blank in the original record. The computer recognized the individual data items from keycodes at the beginning of each segment, and ignored blank segments.

The format and simple edit program carried the flags set during the data entry to the computer records, but also established new flags for problems identified during the formatting cycle, such as (1) illegal geographic or reportform codes, (2) cases with no reported sales or livestock inventory, and (3) cases with individual items flagged (i.e., illegal keycodes, invalid crop codes, etc.).

The computer also added historical data for individual items to the file at this time. Later, the computer program checked the information in the record against these historical data for completeness and reasonableness. Cells or records identified through a comparison program as incomplete, or that exceeded established limits, were flagged and displayed for analyst's review.

Complex Edit

The format and simple edit program converted the raw data records into binary codes and flagged selected problem cases. The edit programs used were capable of carrying out several thousand individual operations in all, although usually only a fraction of this number were required for editing any particular record. Agriculture subject matter specialists wrote and transmitted the computer edit specifications to the computer programmers using "decision logic tables (DLT's)." Each DLT was a tabular display of the elements comprising a specific edit operation from its inception to the solution.

The computer processing staff carried out the complex edit by State, in batches consisting of formatted records sorted within State, by county, and CFN. The edit checked each record in the data file and

- Determined whether it represented an agricultural operation meeting the agriculture census farm definition and deleted out-of-scope operations from the data file.
- 2. Supplied missing entries based on similar farms within the same county.
- Assigned farm classification codes needed for tabulating the data, including acreage, tenure of operator, value of agricultural products sold, type of organization, and standard industrial classification (SIC) code (by type of farm).
- 4. Reconciled acres reported for individual items with the total acreage reported.
- 5. Checked consistency between and within sections of each record.
- Checked values for products sold, using average prices in each State for each production item, and substituted calculated values if the report values exceeded acceptable limits.
- 7. Identified nonsample records representing farms that met the "certainty" criteria established for each State, and converted these records to sample records. (Certainty criteria varied by State from minimum acreages of 1,000 to 10,000, or minimum sales of \$40,000 to \$100,000. Institutional and other special cases were included in the certainty classification-even if they failed to meet the other criteria, as were

- all farms in counties that had fewer than 100 farms in the 1982 census.)¹⁰
- 8. Identified and "flagged" cases with substantial computer generated data changes for clerical review and verification.

The edit also identified and retained in the data file records for agricultural operations that *normally* would be expected to have sufficient agricultural sales to qualify as farms, but failed to do so, for whatever reason, during the census reference year. The edit tested the records for such places against criteria developed to identify agricultural operations that normally would meet the farm definition.

Failed Edit Correction and Data Merge

Failed edit correction—The Jeffersonville processing staff used the interactive edit referral/data correction system to carry corrections to the data file. The mainframe computer at the Suitland, MD, facility began editing agriculture census records in January 1988, reviewing each data record, comparing recorded data item responses to established specifications, and identifying any problems. The edit established a failed edit file, and listed there each record that failed the edit, together with the particular item(s) that had failed. By mid-February, the Agriculture Division had begun reviewing and correcting these cases.

The Economic Programming Division (EPD) staff in Suitland moved data for records that failed the edit to the minicomputer system, using a software system that electronically linked the mainframe and minicomputer systems at the Suitland facility. Two data files were established in the system, one for interactive processing, and a second external to the interactive programs. The EPD staff programmed the mainframe computer to organize new WU's of failed edit cases, which then were moved to the minicomputer system. The maximum edit review WU size was 99 cases and the WU's were established as follows:

- Cases reporting \$1 million or more in value of sales of agricultural products and/or 30,000 acres or more in place.¹¹
- Must cases (both preidentified, i.e., with estimated sales qualifying them as must cases in the initial mailout, and nonmust cases with reported sales qualifying them for inclusion in the must category).
- 3. Sample and nonsample cases.
- 4. Short form cases.

The EPD staff printed out disposition listings of the CFN's and other identifying information for all cases in each WU. The Jeffersonville clerical staff located and removed the report forms for the failed records from the original keying work unit, placing all the report forms for each WU in a single batch so that the questionnaires involved would be available to the edit review processing clerks.

To begin the review and correction of the unacceptable records, processing clerks in Jeffersonville retrieved assigned WU's from the failed-edit file using interactive terminals linked to a minicomputer in Suitland, and called up the first record in each for display on their terminal screens for review, comparison with the original report form when necessary, and correction. The clerks worked through each record, making any corrections identified on the screen display and reviewing each record after correction before proceeding to the next.

After all the records in a WU had been reviewed and any necessary corrections had been made, the clerk released the WU for quality control review. Each edit correction clerk's work was subjected to quality control review. During the first 2 weeks of activity, quality control staff reviewed a sample of each clerk's work. There were no quality control requirements during this period, as the clerk was considered to be undergoing training. After 2 weeks, quality control staff began sample verification of each clerk's work for production. During the decision period, samples from 10 consecutive WU's were checked, and 8 had to be of acceptable quality (samples checked depended on the size of the particular WU, varying from 1-in-6 for WU's of maximum size (99 cases) down to 1-in-3 for units of 27-53 cases; WU's with 26 or fewer cases were verified 100 percent). After quality control procedures were completed, the WU was released for further processing by EPD.

Each day, EPD staff transferred the corrected files from the interactive file to the mainframe's failed edit file. The corrected records were matched to the original failed records and the latter were deleted from the data file. The "new" records then were reedited. This cycle of editing and correction continued until each record passed the computer edit and could be incorporated into the data file. The failed-edit correction program began in mid-February 1988, and continued for over 8 months, until the end of October 1988. During that period approximately 738,500 individual census records, including 45,000 "repeat edit failures," failed the computer edit and were referred for correction. No record was added to the passed-data file until all corrections had been incorporated and the computer edit record accepted.

Data merge—After editing and failed-edit correction, the data files for each State were merged into a single file, in sequential order by State, county, and identification number. Using a "merge" program, the computer tallied agricultural operations by size (i.e., acreage, head of livestock, etc.), value of products sold, and type (used to aid in adding data for nonrespondent cases), and identified and

¹⁰The Census Bureau obtained the data required for these conversions by correspondence with the addressees involved, or by imputation based on responses from farms of similar size in the same geographical area.

¹¹At the beginning of the edit correction work, Agriculture Division staff in Suitland reviewed and corrected these "\$1 million" cases, but once the interactive systems staff had begun working on the corrections, they were referred to Jeffersonville for processing with other failed-edit cases.

displayed problem cases for review and correction before tabulation. The processing staff unduplicated the computerized main data file, using a census file number (CFN) matching program to identify and display duplicate records for review. Usually the first of any duplicate records identified was retained, while the rest were deleted from the record.

Statistical Estimates

General information—About 13.8 percent of the addressees on the 1987 agriculture census mailing list never responded, and selected data were collected from only a sample of all farms on the list. Nevertheless, the data published from the 1987 census represent all farms in the United States because the Census Bureau used statistical estimation procedures to inflate the respondent data to compensate for nonresponse and the use of sampling.

Nonresponse estimation-The Bureau carried out the nonresponse weighting operation editing the data files. Addresses on the census mail list were classified as representing "large" (i.e., with \$100,000 or more in expected annual sales or with 1,000 or more acres (the acreage requirement) varied by State) or "other" agricultural operations. There was an intense followup of nonrespondent large farms, including a telephone followup beginning in February 1988. In April 1988, the agency began selecting a sample of approximately 27,000 of the "small" nonrespondent addresses for inclusion in the Nonresponse Survey, carried out in the following 3 months. The survey data were used to compute stratified State-level estimates of the number of nonrespondent cases that actually represented farms. (The telephone followup and Nonresponse Survey are covered in ch. 5.)

The strata were defined by form type, expected value of sales, and previous census status. The estimated survey proportion of farms was multiplied by the number of census nonrespondents to estimate the number of census farms among the census nonrespondents within each stratum. The number of nonrespondent farms was proportionately distributed to each county within each stratum; and a systematic sample of respondent farms was selected to represent the nonrespondents. This was done by assigning a "nonresponse weight" of "2" to the selected records (i.e., the data responses for each selected record were doubled). The "large" nonresponse cases and records not selected were assigned nonresponse weights of "1." This procedure assumed that the respondent and nonrespondent farms had similar characteristics, such as value of sales, acreage, and so on.

Sample estimation—The 1987 agriculture census collected selected data (items 23-28 on the sample report forms) only from an approximate 20-percent sample of the agriculture census mail universe. The following types of addresses received the sample form:

- 1. All addresses in Alaska and Hawaii.
- 2. All "must" cases.
- 3. All addresses expected to represent "large" farms (the definition of a large farm varied by State, from a minimum of 1,000 acres or \$40,000 in sales in New England, to as high as 10,000 acres or \$200,000 in sales in some Western States).
- 4. All farms in counties with less than 100 farms identified in the 1982 census.
- 5. A systematic sample of 1-in-2 addresses for counties that contained 100 to 199 farms in the 1982 census.
- 6. A systematic sample of 1-in-6 addresses of counties that contained over 200 farms in the 1982 census.

The sample data estimates were designed to estimate the totals that would have resulted had all census respondents been asked for the data requested in items 23-28 of the report forms. The staff used a ratio-estimation procedure to assign a sample weight to each record. This inflated the sample data to represent all farms in the subject population.

The sample records were classified into "certainty" farms (i.e., mostly large) and "noncertainty" (mostly small) farms. The certainty farms were defined as the first four types of addresses listed above, and were assigned a sample weight equal to "1." To calculate estimates for the noncertainty sample addresses in the fifth and sixth listings above, the addresses were partitioned into 32 mutually exclusive strata, formed by 8 sales groups, in turn divided by 2 standard industrial classification (SIC) code groups, then by 2 acreage classifications, as follows:

Value of sales	SIC	Acres
\$1 to \$999	01 all crops	0 to 69
\$1,000 to \$2,499	02 all livestock	70 or more
\$2,500 to \$4,999		
\$5,000 to \$9,999		
\$10,000 to \$24,999		
\$25,000 to \$49,999		
\$50,000 to \$99,999		
\$100,000 or more		

Each farm record was assigned an initial weight equal to the ratio of the total farm count to the sample farm count for the stratum containing the sample farm. Where necessary, the procedures combined strata to increase the reliability of the final estimates. (The staff used a specific "collapsing" pattern to combine strata that (1) contained less than 10 sample farms, or (2) had a ratio of total farms to sample farms that was more than twice the mail sample rate—1 in 2 or 1 in 6.) The resulting total and sample farm counts were used to compute the sample weights to assign to the record.

The final weight assigned to a sample record was the product of the nonresponse weight and the sample weight. The totals for the sample data were calculated by multiplying the reported sample data values by the final weight.

Tabulation and Data Review

General information—After editing, correction, and data merge, the data records were ready for tabulation. The computer tabulation programs produced a series of detailed data matrices, each consisting of several thousand different items, that would provide the basic material for most of the data tables drawn from the census file. The staff used the data matrices to extract analytical data for analysis and correction in a detailed county-level format.

Once the analytical tabulations had been reviewed and any problem records corrected, a listing was produced showing any change expected. Once the change listings were reviewed, the data matrices were retabulated to serve as the data source for the Advance Reports and the Volume 1, Geographic Area Series, reports.

Analytical review and data correction—The Agriculture Division staff at the Suitland headquarters used county-level analytical tabulations to interactively review the aggregated data on the minicomputer system. All the data items reported on individual report forms were tabulated for each county and State, for all farms and for farms with \$10,000 or more in reported value of agricultural product sales. The analysts used historical data from the 1982 agriculture census to review the 1987 data for reasonableness and accuracy. They employed analytical tables developed for review purposes as their basic review reference documents, but also used related data, drawn mostly from USDA estimates. The analysts used the interactive system on the minicomputers to electronically search the data file for records containing the questionable data and recommended corrective action.

Representatives of the USDA's National Agricultural Statistics Service (NASS) reviewed the analytical tables produced during the review, as well as the analysts' criticisms and recommendations. The NASS reviewers identified any additional problems they found in the tabulations, and suggested additional corrections or alternative solutions to problems previously noted.

The Jeffersonville staff carried corrections to the data records and all deletions from the data file using the interactive minicomputer systems. Agriculture Division staff reviewed all corrections for accuracy and to ensure that the data criticisms cited for changes were satisfied. The data then were released for tabulation.

Tabulations for counties, States, divisions, regions, and the United States-The Bureau drew the county and State tables directly from the data matrices, and State cross tabulations from the detailed data file itself. Using the tabulating programs, it summed the State totals to produce data for census geographic divisions, regions, and the United States. The published tables included historical data from the 1982 and 1978 censuses. The tabulation program for the 1987 census had "advance" tabulations of selected data from each State and county file for the Advance Reports, followed by the general tabulations for the Volume 1, Geographic Area Series.

Disclosure analysis—Title 13, United States Code— Census, prohibits the publication by the Census Bureau of data that could be used to identify any individual respondent to any of its censuses. The agency used a procedure called "disclosure analysis" to maintain the confidentiality of the data by reviewing all the data tables before releasing them for publication. This procedure identified and suppressed data items, the publication of which (1) would result in the direct disclosure of data reported by a particular respondent individual or company, or (2) would reveal information about an individual by derivation—that is, by the user adding or subtracting a published subtotal from a published total to reveal individual data. However, the number of farms associated with a particular data item was not considered a disclosure of confidential information in itself; only the associated data values were. While most of the disclosure analysis was carried out by computer, the automated equipment and programs could not perform the entire analytical function. Agriculture Division staff had to check many tabulations and cross tabulations manually before the data tables could be sent for publication.

As a general rule, the Bureau did not publish any agriculture census data for counties with 10 or fewer farms in the census reference year. The disclosure procedures set minimum numerical limits for publishing data values for farms reporting a particular item. Since the tables included identical information arranged under several different classifications, the identification and suppression of a figure in one table required reviewing all related tables and the suppression of the relevant datum in each of them.

Disclosure analysis and suppression for the 1987 agriculture census tabulations for the 50 States, and the 3,079 counties or county equivalents, was completed in July 1989, and for the U.S. summary volume in November 1989.

CONTENTS

Chapter 7. Census of Agriculture in Puerto Rico

	—
Pag	ge
Introduction6	62
	62
	62
	62
	64
	64
	64
	64
	64
	64
	65
	65
	65
	65
	66
·	66
·	66
	66
• · · · · · · · · · · · · · · · · · · ·	66
·	67
Callbacks 6	67
	68
	68
	68
·	68
	68
	69
	69
	69
	69
	69
· ·	69
, 0	69
	69
	69
	69
	69
	70
	70 70
	70
Publication Program	70

INTRODUCTION

Historical Background

The Census Bureau first included Puerto Rico in the agriculture census program in the 1910 decennial enumeration, and continued to carry out agriculture censuses of the Commonwealth every 10 years, in conjunction with the decennial population censuses, through 1950. Congress authorized quinquennial censuses of agriculture for the United States in 1915, although the first was not actually conducted until 1925, but neither Puerto Rico nor the other outlying areas (see ch. 8) were included in this program until 1964. (The only nondecennial agricultural enumeration for the Commonwealth in the intervening years was conducted by the Puerto Rico Reconstruction Administration in 1935.) Congress altered the dates of the agriculture censuses in 1952, requiring that they be carried out every 5 years in years ending in "4" and "9." While Puerto Rico still was not part of the regular quinquennial agricultural program, the 1960 enumeration collected data for the 1959-1960 crop year—approximately the same production period as in the census for the United States proper. The Commonwealth was included in the quinquennial census of agriculture for the first time in the 1964 enumeration.

Following legislation passed in 1972 requiring that the agriculture and economic censuses use the same reference years, the Bureau shortened the periods between the two subsequent agricultural enumerations by 1 year each. This enabled the agriculture census to be brought into conjunction with the economic enumerations (carried out for years ending in "2" and "7") for the 1982 and following censuses. The censuses in Puerto Rico had converged somewhat earlier, when, for the 1978 agricultural enumeration, the Bureau retained the offices and office staff organized for the 1977 Economic Censuses, and advanced the schedule for the agricultural enumeration by a full year. The agency made similar arrangements for the 1982 census, but because of the alteration in the general agriculture census schedule, the Puerto Rico enumeration began (as it had prior to the 1978 census) just as the census of the 50 States was being completed.

For the 1987 censuses, the Bureau's Agriculture Division (AGR) assumed responsibility not only for the agricultural enumeration in Puerto Rico, but also for all the economic censuses there. This combining of all agricultural and economic activities in a single staff and organization made possible certain economies of scale, and simplified the total operation. In addition, the planners decided that for the 1987 agricultural enumeration, as much as possible of the edit work on the report forms should be done in Puerto Rico, including computer editing using a minicomputer system and staff in the San Juan office. (The Puerto Rico office also keyed report forms for Guam and the U.S. Virgin Islands, all of which were routed through the San Juan facility before being sent on to Bureau headquarters for editing and tabulation.)

Legal Authority and Special Agreement

Title 13, United States Code, sections 142(a) and 191 provide for a census of agriculture in Puerto Rico every 5 years for years ending in "2" and "7." The conduct of the census is governed by the provisions of Title 13 and relevant acts of the legislature of the Commonwealth of Puerto Rico, to the extent the provisions of such acts are not in conflict with Federal law. The Director of the Bureau of the Census and representatives of the Commonwealth Government signed a special agreement in September 1986 establishing the respective functions and responsibilities of the Bureau and the Commonwealth in the conduct of the agriculture census. (This agreement also covered the conduct of the 1987 Economic Censuses in Puerto Rico.) The Commonwealth Government agreed to

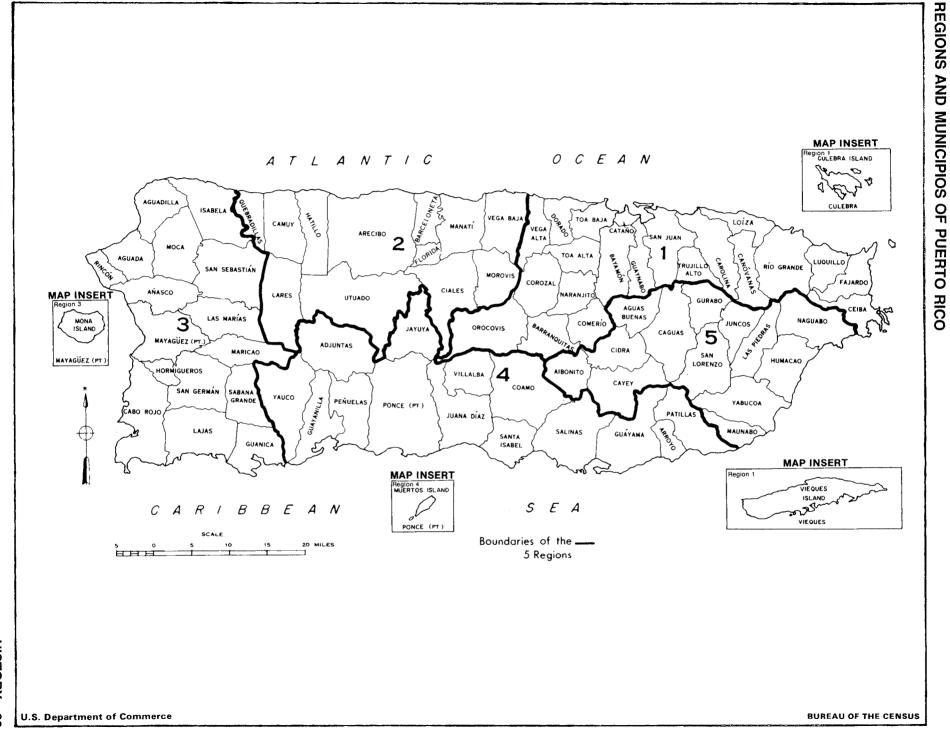
- 1. Provide office space for testing and training enumeration personnel
- 2. Cooperate in publicizing the census
- 3. Identify possible candidates for filling required posi-
- 4. Assist the Census Bureau in collecting maps and boundary information

The Bureau had final responsibility for planning and carrying out the census, including appointing the census supervisor, assigning Bureau staff as census advisors. recruiting and training the census staff, and maintaining confidentiality of the census data. It retained final authority to determine report form content and design, enumeration procedures, tabulations to be made, and data to be published, but agreed to consult advisory committees and interested agencies of the Government of Puerto Rico on these matters. The Bureau bore the entire cost of the basic census program, but agreed to make available to the Puerto Rico Planning Board or other Commonwealth Government agencies, on a reimbursable basis, special statistical tabulations and tapes not included in the publication program.

Farm Definition

For the 1987 Census of Agriculture in Puerto Rico, a farm was any place that had, or normally would have had, sales of \$500 or more of agricultural products during the 12 months between July 1, 1987 and June 30, 1988, or that had 10 cuerdas1 of land or more from which \$100 or more in agricultural products were sold, or normally would have been sold, during the same 12-month period. This was the same definition introduced in the 1982 census. and brought the Puerto Rico farm definition closer to that used in the 50 States, where farm status depended on value of agricultural products sold.

^{1.97} of an acre.



Planning

Preliminary planning—The Bureau started planning the 1987 Census of Agriculture in Puerto Rico in mid-1984. when the Agriculture Division staff began drafting preliminary table outlines. Detailed planning of the enumeration and publication programs started in the first week of December 1986, with the first of several meetings between Agriculture Division personnel and representatives of the Puerto Rico Planning Board. Planning became more complicated in June 1986 when the responsibility for conducting the 1987 Economic Censuses in Puerto Rico was transferred to the Agriculture Division. (For more information on these censuses, see the History of the 1987 Economic Censuse's.) During the summer and early fall of 1986, the Bureau and the Commonwealth Government drew up the special agreement covering the two parties' responsibilities in the enumeration (see above for details of the agreement), and began preparations for the census.

General plan of the census—The agriculture census in Puerto Rico remained primarily a field canvass operation, but, as for the 1982 census, the Bureau compiled a list of "special" farms. ("Special" farms were "large" operations—i.e., those identified in the 1982 census as having had minimum annual sales of agricultural products of \$10,000 or more, or that had 49 cuerdas or more in land.) The census plans called for these farms to be mailed agriculture census report forms, together with an information booklet and a cover letter asking the recipient to complete the questionnaire and hold it until a field enumerator picked it up during the canvassing operation. (If an enumerator did not visit a "special" farm, the respondent was asked to mail the report form to the census field office in San Juan.)

All farm operators were asked to report basic production and inventory data, while information on such things as expenses, use of agricultural chemicals, and machinery and equipment, were collected from a representative sample. The Bureau then used statistical methods to "weight" the sample data and produce estimates at the municipio level for the sample items. Sampling allowed reduced respondent burden on sensitive questions.

The 1982 microcomputer operations at the Puerto Rico field office had been successful, and in 1987, a minicomputer was installed to expand the processing capability. Functions such as check-in, data keying, edit processing, and coverage analysis were handled in Puerto Rico by the minicomputer system. Data analysis and detailed tabulations were carried out at Bureau headquarters in Suitland, MD, using comparable computer resources.

Census schedule—Preparations for the 1987 Census of Agriculture in Puerto Rico began in November 1985, and the census operations in the Commonwealth closed in October 1988. The census office was opened in January 1988, although agriculture census operations did not actually begin until July (the economic censuses were carried

out before the agriculture operation). For a complete schedule, see Appendix E, Chronology of Major Census Activities.

PREPARATORY OPERATIONS

Report Forms

There was a single report form for the agriculture census in Puerto Rico, 87-A1(PR)SP. The questionnaire was a single 22" x 14" sheet of white stock, folded to 11" x 14", with printing and shading in brown ink, with four numbered pages. The standard version employed the Spanish language (hence the "SP" suffix); an English-language version also was produced with printing and shading in black ink on green paper.

All farm operators were asked to complete items 1-20, which requested data on the following:

Cuerdas owned, rented, or leased

Location of the operation

Sugarcane

Coffee, tobacco, or pineapple

Grains and farinaceous crops

Fruits

Vegetables

Cultivated and/or improved pasture

Ornamental and flowering plants, cut flowers, and lawn grass

Other crops

Land use

Irrigation

Hogs

Cattle

Other livestock

Poultry

Farm organization

Sales by selected products (listed)

Other farm-related income

Farm operator characteristics

A sample of all farms—consisting of all "large" farm (i.e., farms with 1982 sales of \$10,000 or more, or wit 49 cuerdas or more in 1982), all farms in municipios the

had 250 or fewer farms in 1982, and a 1-in-5 sample of farms in municipios that had more than 250 farms in 1982—were asked to complete items 21-25, requesting data on:

Products for home consumption

Insecticides, herbicides, fungicides, pesticides, lime, and other chemicals used

Expenses

Machinery, equipment, buildings, and other facilities Hired workers, agregados², and sharecroppers

Section 26 requested identification information on the person completing the report form. (A facsimile of the form 87-A1(PR) is reproduced in app. C.)

Inventory data, information on machinery, equipment, and facilities, and on agregados or sharecroppers on the place, were collected as of July 1, 1988. Sales and harvest data were requested for "the last 12 months" prior to enumeration.

The Bureau printed 60,000 copies of the 87-A1(PR)SP (Spanish language) questionnaire, together with 700 form 87-A1(PR) English language versions. The field staff used the Spanish-language version of the report form with the Form 87-A5(PR), Record Books, 1,200 of which were printed for use in the enumeration. For the mailout to special farms, the Bureau printed 8,100 copies each of the form 87-A1(PR)SP-L1 cover letter and the Form 87-A1(PR)SP(I), Instruction Booklet.

Field Organization and Training

General organization—The Bureau established a local office in San Juan for the agricultural census in the Commonwealth. This office and a field enumeration staff carried out the data-collection portion of the census—a combined mail/field enumeration, while the agency's headquarters staff provided supervision and technical assistance. The Bureau's Field Division had primary operational responsibility for the field enumeration, although the Agriculture Division's Outlying Areas Branch developed plans for the census, compiled the list of special farms, and also provided technical advice and assistance. The Data Preparation Division (DPD) assisted in the assembly of datacollection materials and mailed out report forms. The Bureau assigned members of its professional staff as census manager and as subject-matter analysts during the enumeration, but the remainder of the office and field staffs were recruited locally. The Puerto Rico field office

staff included a census manager, an office operations supervisor, a field supervisor, 6 assistant field supervisors, and a clerical staff of approximately 30.

The Puerto Rico office opened in the first week of January 1988, in the San Juan suburb of Hato Rey. The Field Division leased approximately 3,000 square feet of office space and rented or borrowed furniture and other standard office fixtures from local Federal offices. The minicomputer facility installed in the office employed 16 terminals for entering data, and 2 printers. Satellite communications made it possible for programmers and analysts at Suitland to communicate with the computer system in Hato Rey. An electronic security system was provided by the owner of the building and the Bureau established the usual security systems for the computer facility. (The Hato Rey office and its staff conducted not only the 1987 Census of Agriculture in Puerto Rico, but also the 1987 Economic Censuses, and also carried out preliminary processing and data entry for report forms from all of the outlying areas.)

Recruiting and training—The agriculture census in Puerto Rico began as the 1987 Economic Censuses sample data collection operation closed down, so that many of the office staff and enumerators from the economic censuses were carried over to the agriculture census staff. However, the agriculture enumeration required a considerably larger field staff than had the economic censuses. The agriculture operation employed 68 crew leaders, 50 quality control (QC) enumerators, and 610 enumerators. Recruiting the field enumeration staff began in April 1988 and continued into July, with hiring based on the results of written tests. Field operations assistants began administering the tests in mid-April and by the beginning of July over 5,000 applicants had been tested. The enumeration staff was selected from the qualified applicants with the highest test scores. The census office and field enumeration staffs were salaried temporary employees of the Bureau and were paid on standard U.S. Government general schedule (GS) pay scales for the appropriate grades.

Crew leaders, who would be the immediate supervisors of the enumerators, had been chosen by the second week of June, and the field operations assistants carried out the 3-day crew leader training course during the period June 20-July 1. The crew leaders then trained the enumerators for their own crew leader districts (CLD's) July 1-8. By July 8, the main recruiting and training effort had been completed and the enumeration began.

Training and reference materials—The Agriculture and Field Divisions prepared training and reference guides for use in the agriculture census in Puerto Rico. The principal administrative reference used in the field office was the Office Procedures Manual (Form A46(PR)SP), which covered basic administrative operations of the field office, and procedures for field office processing of the census report forms. The six assistant field supervisors had primary responsibility for training the crew leaders, and used

²A member of a family living on a farm not operated by any member of the family. An agregado may or may not be an employee of the farm operator and may or may not produce any agricultural products. An agregado might own, rent, or use rent-free, the house he/she lives in. The land operated by, livestock belonging to, and the products marketed by an agregado are included in the totals for the farm operator in charge of the place on which the agregado lives.

the Guide for Training Crew Leaders (Form A53(PR)SP) as their primary training manual. Each crew leader received a copy of the Crew Leader's Manual (Form A7(PR)SP) as the primary reference for that position, and used the Guide for Training Enumerators (Form A52(PR)SP) for training the enumeration staff. Each enumerator received a copy of the Enumerator's Manual (Form A10(PR)SP) as the primary reference source for the field enumeration. The crew leaders also used the Guide for Training Quality Control Enumerators (Form A54(PR)SP) for training their quality control (QC) enumerators, and QC enumerators were given the Quality Control Enumerator's Guide (Form A51(PR) SP) and the Quality Control Enumerator's Handbook (Form A54.1(PR)SP) as their principal training and reference materials.

The Suitland staff initially prepared all of these reference and training materials in English, then translated them into Spanish for printing and distribution. The materials distributed in Puerto Rico generally were in Spanish, although English versions were available for reference if needed.

Maps

The census office and field enumeration staff needed detailed maps to carry out a complete enumeration. Three basic kinds of maps were required:

- 1. Master maps for the census office to use in planning and supervising the census
- 2. Crew leaders' maps covering each crew leader's area of responsibility
- 3. Enumeration district (ED) maps for every ED in Puerto Rico

The 1987 agriculture census ED's corresponded generally to those of the 1980 decennial census-i.e., they were drawn within the recognized barrio boundaries-although some boundaries were altered in urbanized areas to allow for changes in land use. The ED maps were inserted in the A5 Record Book for each ED for use in the field enumeration.

The Census Bureau used the new Topologically Integrated Geographic Encoding and Referencing (TIGER) system to produce the census maps for Puerto Rico by computer. The Bureau developed the TIGER system in a cooperative project with the U.S. Geological Survey (USGS), using the 1980 census geographic data base, with additional information from USGS's geographic data files. In Puerto Rico, the new system's ability to produce detailed maps of rural areas represented a continuing effort to improve mapping resources.

Publicity

The publicity program for the census of agriculture in Puerto Rico had two major objectives, to

1. Recruit census staff

2. Encourage cooperation and response by farmers

The Bureau's Agriculture Division (AGR) and Public Information Office (PIO) cooperated in developing publicity for the 1987 census.

For the 1987 effort, the Bureau produced the form 87-A70(PR)SP(P) poster, announcing the census and census staff job openings. In April 1988, the Bureau shipped 2,500 copies of the poster, each with a supply of job application/reply cards, to Puerto Rico for distribution through local government offices. The Agriculture Division included copies of the poster in information kits prepared for the Bureau's participation in the Agro-Expo Fair in Puerto Rico in May 1988. (The kits each contained the poster, a list of questions frequently asked about the census, a pamphlet outlining census activities, copies of the report forms, and a list of telephone contacts.) The Bureau also developed the form 87A70(PR)SP(F) flver. announcing the census, briefly describing the kinds of information that would be requested, and urging cooperation. The agency shipped 40,000 copies of this flyer to Puerto Rico also in May, for distribution through the field offices of the Puerto Rican Departments of Agriculture and Labor, and to the Postmaster General for distribution to local post offices.

The Bureau prepared a set of four 20-second, one 30-second, and one 60-second radio spots, and distributed copies to radio stations throughout the Commonwealth for broadcast as public service announcements. In addition, beginning early in April, Bureau officials participated in a series of radio and television interviews about census activities.

For the agriculture census, the Census Bureau asked the Governor of Puerto Rico to proclaim July 1987 "Agriculture Census Month." The Governor's representative and Bureau officials met at a public ceremony on June 29. 1988, to formally announce the proclamation to the media and public.

FIELD ENUMERATION

Taking the Census

Enumeration portfolios-Each field enumerator had an enumeration portfolio containing the report forms, listing sheets, and other materials required for the census. Each portfolio contained a map of the enumeration district (ED) assigned to that enumerator, a supply of report form 87-A1(PR)SP, the Form A10, Enumerator's Manual, and the Form A5, Record Book. The ED map showed the boundaries of the ED outlined in heavy orange lines, as well as the principal surface features and roads within the ED. (Usually, the individual ED boundaries corresponded to local barrio boundaries, but in some cases portions of more than one barrio were included in a single ED.) The enumerator was to complete a report form for each farm in the ED. The Form A5, Record Book, included Form A3(PR), Listing Sheets, and a supply of Form 87-A4(PR), Nonresident Operator/Closeout Data Cards. The A3 sheets served as a record of the canvass of the ED and contained (1) prelistings of any special farms in the ED, (2) a series of screening questions for use in identifying households operating farms, and (3) space for listing each household canvassed. Enumerators used the A4 cards to obtain basic information about nonresident operators or households they were unable to contact.

The cover of the A5 Record Book served also as the enumerators' progress report. At the end of each week of canvassing, the enumerator completed a column in part 1 of the cover with the date, the number of (1) households canvassed and either enumerated or identified as out of scope, (2) A1 report forms completed, (3) A4 cards filled out, and (4) hours worked.

Field enumeration procedures—The census staff used two canvassing procedures in the field enumeration, procedure "A" in predominantly rural ED's, and procedure "B" in urbanized ED's. Procedure A was a door-to-door canvass of every household in an ED, except in built-up residential areas identified as "clusters." A cluster was any group of 25 or more houses, buildings, or other structures, each on half a cuerda or less of land. Known clusters were shown on the enumerators' ED maps, but enumerators were instructed to identify "new" clusters and to outline them on their maps, assigning a code letter ("A," "B," and so on, in sequence). In clusters, enumerators spot-checked households to find out which ones operated farms, and then visited and completed report forms for those households only.

The field staff employed procedure B in urbanized ED's or in ED's with 10 or fewer farms listed in the 1982 census. For procedure B, ED's, the names and addresses, or name alone, of farm operators located in the ED were prelisted on the listing sheets of the Record Book for the ED, and enumerators canvassed each prelisted address. The interviewers completed a report form for each place qualifying as a farm, and also asked respondents whether anyone else in the area operated a farm. The enumerators visited any places mentioned that were not already prelisted, checked possible farm status, and filled out a report form for any newly identified farms.

Enumerators began interviews in both procedures by asking for the name of the head of the household, and a series of screening questions to identify farm operations. These questions asked whether

- The respondent, in the last 12 months had raised, produced, or sold any crops, vegetables for sale, ornamental or flowering plants, or had 1 or more cattle, 1 or more pigs, or 15 or more poultry.
- 2. The operator had sales of agricultural products in the last 12 months or expected sales this year of \$400 or more.
- 3. This place had 10 or more cuerdas and sales of agricultural products in the last 12 months, or expected sales this year of \$100 or more.

Enumerators assigned a farm serial number³ and completed a report form for each place that qualified as a farm under the census definition. The enumerators tried, whenever possible, to interview the head of the household of each agricultural operation to complete the screening questions; in cases where the head of the household was not available, some other responsible adult member of the household could be asked to provide the necessary information.

Enumerators completed Form 87-A4(PR)SP, Nonresident Farm Operator/Closeout Data Cards, and assigned an A4 serial number for any place that qualified as a farm but (1) contained no housing unit, or (2) had no operator(s) living there, or (3) for which no responsible and knowledgeable person could be located to provide the required information after repeated callbacks. A4 cases were identified as "nonresident operators" or "closeout cases," and the A4 card listed the name and address of the nonresident or absent operator and whatever basic information (i.e., cuerdas, kinds of livestock, major identifiable types of crops, and so on) could be obtained from neighbors or other sources. The enumerators gave copies of the A4 cards completed each week to their crew leaders, who referred the nonresident cases either to the appropriate enumerator in their own area of responsibility, or to other crew leaders responsible for canvassing the ED in which the absentee operator lived.

As they canvassed their own ED's, the enumerators plotted on their ED maps each farm, nonfarm operator, cluster, and so on, so that they and their crew leaders could monitor each ED's coverage.

Callbacks—Callbacks were additional contacts with a household after an enumerator's initial visit, and were necessary when the farm operator was not available to provide the required agricultural data for completing the report form. When the operator was not available, enumerators asked for the best time to attempt to contact the operator and made a note of the suggested time in the "callback" column of the A3(PR) Listing Sheet for that farm's line. Enumerators tried to schedule and complete all callbacks as quickly as possible, including scheduled callbacks in each day's regular work so that they did not accumulate. Except in special cases, the enumerators attempted no more than two callbacks for any specific household. If after two callbacks the enumerator still was unable to interview the farm operator, another responsible adult in the household familiar with the farm operation or a foreman or hired manager who supervised the farm operation could be asked to provide the data needed to complete the report form for the farm.

³Enumerators assigned farm serial numbers beginning in each ED with 001 and continuing sequentially 002, 003, and so on. At the same time, a census file number (CFN) was assigned; the CFN was an 11-digit number consisting of the municipio and barrio numbers, the farm serial number, and a check digit (the latter assigned to each CFN during subsequent processing).

Special Farms

Compilation of the special farms list and mailout-A "special farm" in Puerto Rico was any place with 49 or more cuerdas of land, or with expected annual sales of agricultural products of \$10,000 or more. Coverage of these comparatively large operations was particularly important if the census was to obtain accurate data on agriculture in Puerto Rico. For the 1982 census, the Census Bureau had compiled a special farms list from the results of the 1978 census, and mailed enumeration packages to some 4,200 addresses, with a request that the recipient hold the report form until an enumerator stopped to pick it up. This methodology proved reasonably successful, and the agency adopted a similar plan for the 1987 census. The special farms list was extracted from the 1982 Puerto Rico agricultural census in-scope file, resulting in a mail list of approximately 5,000 addresses. The Bureau's Data Preparation Division (DPD) office in Jeffersonville, IN, assembled mailing packages, each consisting of a report form 87-A1(PR)SP, a form 87-A1(PR)SP(I) information and instruction booklet, and a form 87-A1(SP)PR(L1) cover letter requesting the respondent to complete and hold the report form until an enumerator visited the operation. In the first week of June 1988, the DPD staff at Jeffersonville shipped the mailing packages to the central San Juan post office, which then mailed them to the addressees.

Field followup—Enumerators visited the special farms in the course of their regular canvassing and collected the completed questionnaires, or, when necessary, conducted personal interviews with farm operators to obtain census information. The listing sheets attached to each enumerator's A5 Record Book identified special farms in each ED, and enumerators were directed to visit and make certain a report form was completed for each.

Field Review and Quality Control

The quality control plan for the 1987 agriculture census in Puerto Rico involved (1) an observation period for selected enumerators, (2) field review of each enumerator's work, and (3) a coverage check that matched enumerators' farm lists to prelisted addresses for each ED.

Crew leaders supervised the field quality control effort. Each crew leader selected the four enumerators he or she considered most likely to have difficulties completing the assigned work satisfactorily and spent approximately half a workday with each during canvassing. The crew leaders noted any procedures that caused the enumerators difficulties and then scheduled and carried out any retraining needed. No enumerators selected for observation began canvassing without crew leader supervision until they demonstrated to their supervisors the ability to adequately perform the assigned job.

Crew leaders also formally reviewed each enumerator's completed work at weekly meetings, and again at the completion of canvassing for each ED. The formal review involved five major steps:

- Matching records on the listing sheets with plotted line numbers on the ED map to ensure the interviewer was canvassing the ED properly and thoroughly.
- Checking the A3(PR) Listing Sheets and A4(PR) Nonresident Operator's Cards to ensure that both were completed legibly, completely, and correctly.
- 3. Matching completed report forms to the listing sheets in the record book.
- 4. Checking the content of the completed report for legibility, completeness, and accuracy.
- 5. Checking that Procedure B listing areas and special farms were being adequately covered.

The reviewing crew leader discussed any problems discovered with the enumerator concerned and observed the field work of enumerators who were having difficulties to make certain they were canvassing correctly.

Crew leaders also checked the coverage of their crew leader districts (CDL's) at their weekly meetings with their enumerators. The coverage check of each enumerator's farm list involved recanvassing selected dwellings in each ED to determine whether the enumerator had adequately canvassed the ED. Prior to the enumeration, quality control (QC) enumerators visited each ED. The QC enumerators carried ED maps with four "starting points" marked with an identifying letter (A, B, C, or D) and a directional arrow. The QC enumerator began canvassing at each starting point in succession, traveling in the direction indicated by the arrow at that point, and listed the first five houses visited. When the QC enumerator encountered a second starting point before listing 5 houses, he or she continued listing houses after the second point until 10 were listed for the 2 points together. The QC enumerator visited each place and carried out a short interview to determine whether a report form should be completed for it, and entered the information obtained on A3 Listing Sheets. The crew leaders used these sheets to check coverage obtained by the regular enumerator for each ED. The QC enumerator joined the crew leaders and the regular enumerators for each ED at their weekly meetings until the regular enumerator had covered the entire ED concerned. The enumerator's A3 Listing Sheets were checked against the prelisted addresses for the part of each ED enumerated; then the prelisted addresses were checked to see whether a report form should have been completed for each. In cases where a matched address was identified as a farm operation in the prelisting operation, but not by the regular enumerator, the QC enumerator revisited the address to resolve the guestion. The crew leaders visited and completed a report form for any prelisted farms missed by one of their field enumerators.

Results

The agriculture census for Puerto Rico enumerated 20,245 farms, with a total land in farms of 886,846

cuerdas, and a total value of agricultural products sold in 1987 of approximately \$415 million.

DATA PROCESSING

General Information

The 1987 census used a minicomputer system in the Hato Rey office to check in reports, key data, edit, and research data base records. After the processing office closed in October, the report forms were shipped to Bureau headquarters in Suitland, MD, for further processing. Upon completion of the final computer edit, all data were tabulated and reviewed before publication.

Field Office Processing

Check-in-The receipt and check-in staff of the Hato Rey office sorted incoming ED portfolios and stored them in municipio and ED order until processing. The portfolios were opened and the contents sorted; the A5 Record Books, ED maps, and completed A4 Nonresident Operator/Closeout Data Cards went to storage to await shipment to Bureau headquarters after the Hato Rey office closed; and completed A1 report forms were sorted into special and nonspecial farms, batched into work. The work units then went to check-in, where the census file number from each form was keyed to the check-in file-the CFN's for special farms were keved to a separate special farms mail file. Each work unit, or batch, had a Check-in Batch Cover Sheet attached. (The Hato Rey minicomputer system also processed the report forms from Guam and the U.S. Virgin Islands, so as each work unit entered processing, the keyer concerned had to first select the appropriate geographic area.) The keyers entered the batch number for each batch, then the CFN for each report form. The computer program automatically checked each CFN to determine whether it was legitimate-i.e., that the municipio and ED codes within the CFN were acceptable.

Clerical operations—The clerical unit carried out a screening routine for report forms received from the special farms and portfolio check-in units. Screening clerks checked each report form and (1) changed all spelled-out numbers to numeric entries, (2) deleted bracketed entries, (3) converted fractional and decimal parts of "cuerda" entries to centesimos, and (4) checked section 15 (Other Livestock) for correct item coding. After screening, all report forms were referred to the data keying unit for keying.

The clerical unit also received computer printouts of report forms that failed the computer edit. The clerical staff pulled any report forms that failed, in the order they appeared on the printout, and referred them to agriculture analysts for review and correction. The analysts used an online computer system to correct failed records. All corrections were resubmitted for edit processing and acceptance. Upon completion of keying and editing, the report forms were returned to the clerical staff for filing.

Data keying—The data keying unit received work units of completed report forms after check-in and clerical review. Data keyers entered the batch number for each work unit, then the CFN for the first case. The computer program matched the CFN to the check-in file and, if the CFN had been checked in, accepted the record for data keying. The keyer then keyed the data on the report form; skipping blank items and items with a response of "zero." "none." "NA" (not applicable), and so on. The keying program performed a series of tests on the data as they were entered, checking for nonnumeric entries, illegal values. and for entries either too long or too short for a particular data cell. After keying any report form, the keyer could review the entire record for that form and correct any problems. All keyed data were subjected to verification, and all discrepancies were resolved before releasing the data for each batch.

Local tallies—As the data were keyed, the computer system program produced weekly tallies of total number of farms and selected items by municipio and for Puerto Rico. These tallies provided the census manager with information needed to detect potential coverage problems, and enabled corrective action to be taken while the field enumeration was still underway.

Office closeout—The Census Bureau closed the Puerto Rico census office in mid-October 1988. The staff packed the questionnaires and review materials for use by Agriculture Division analysts and shipped them to Suitland for further processing.

Computer Processing

General information—The minicomputer system in the Puerto Rico census office performed complex edits of the individual census data records. Additional editing, as well as statistical estimation for sample weighting, and tabulating the data, were carried out using the mainframe computer facilities at Suitland.

Editing—The edit program comprised an item-by-item check of each data record that (1) checked consistency between reported data totals and the sum of reported data detail; (2) flagged questionable items; (3) imputed data for missing or obviously incorrect entries, or printed a code indicating the type and location of any problems; and (4) coded each record for size by cuerdas, economic class, type of farm, and age and tenure of operator.

The edit stored all flagged records for analysts' review and correction. Any given flagged case might undergo several edits, since changing a specific entry might cause the edit program to detect inconsistencies elsewhere in the record. No record was added to the data file until it had passed the edit program. Once all the data records had been edited and corrected, the data file was ready for tabulation.

Sampling and Statistical Estimation

To reduce overall respondent burden, the agriculture census report form requested detailed data in sections 21-25 only of a sample of farms in the Commonwealth. This sample included "certainty" farms—i.e., those with expected agricultural sales greater than \$10,000, or more than 49 cuerdas—plus all farms in municipios that had fewer than 250 farms in the 1982 census, and a 1-in-5 sample of all farms in municipios that had 250 farms or more in 1982.

During processing, the "noncertainty" sample farms in each municipio were stratified into 32 strata based on total value of agricultural products sold (TVP), type of farm, and size of farm. The variable groups used for this stratification were as follows:

Type	Size
Crop	0 to 9 cuerdas
Livestock	10 cuerdas or more
	Crop

For each municipio, the estimation program assigned each sample farm record an initial weight equal to the ratio of the total farm count to the sample farm count for the stratum containing the sample farm. Any stratum with fewer than 10 farms, or that had a ratio of total farms to sample farms of more than twice the sampling rate, was combined with another stratum within the same variable group. When all strata satisfied the criteria, the ratio adjustment procedure was used to readjust weights for the sample farms to ensure agreement between the expanded sample counts and the census counts. Fractional weights were randomly rounded to whole numbers (e.g., if the farms in a sample group had a final weight of 5.2, then one-fifth were randomly assigned a weight of 6, and the remaining four-fifths were assigned a weight of 5). The tabulation program estimated municipio total values for sample data items by multiplying the data items for each sample farm by the corresponding sample weight and summing overall sample records in the municipio.

Appendixes to the Volume 1 data report for Puerto Rico provided estimates (with associated reliability) for sample data items for all farms and for farms with sales of \$2,500 or more, for all farms in each municipio, and for the Commonwealth.

Tabulation

Between November 1986 and October 1987, Agriculture Division subject matter specialists prepared table outlines and specifications for tabulating the Puerto Rico

census data. The Bureau's Economic Programming Division (EPD) developed table programs, and the Administrative and Publications Services Division (APSD) used its table image processing system II (TIPS II-for a description of TIPS II, see ch. 11) software packages, with a combination of the mainframe computers and minicomputers at Suitland, to prepare three sets of tabulations for publication-15 tables for all farms in Puerto Rico, 56 for farms by agricultural region (as defined by the Commonwealth Government) and municipio, and 6 tables of more detailed data for farms in Puerto Rico with sales of \$2,500 or more. Subject-matter specialists reviewed the tables for accuracy and consistency as they were produced early in March 1989. Corrections were keyed by support staff at headquarters and corrected tables were produced for review. Only when all the tables had been corrected and approved was the file released for publication.

COMPARABILITY OF THE DATA

The Bureau used much the same combination of mail and field enumeration for collecting data for the 1987 agriculture census as it had employed in the 1982 enumeration. Once again, the census collected sample data on home consumption, chemicals used, expenses, machinery and equipment, and hired labor. These items comprised sections 21-25 of the A1 report form (see above for details on the sampling procedure). The detail and volume of data published for the 1987 census was virtually the same as that released for the 1982 enumeration. The 1987 data in the published tables were accompanied by 1982 historical data.

PUBLICATION PROGRAM

The Census Bureau did not issue an advance report for Puerto Rico, but published the final census data in July 1989 in Volume 1, *Geographic Area Series*, Part 52, *Puerto Rico*, that included data for all farms for the Commonwealth as a whole, for 5 agricultural regions, and for 75 individual municipios. Tables 1-15 provided data on agricultural operations for the Commonwealth; tables 16-71 contained more detailed tabulations for major data items (i.e., specific crops, livestock operations, and so on) for the Commonwealth, the agricultural regions, and individual municipios; and tables 72-77 presented detailed data for farms with sales of \$2,500 or more. The basic data shown for all farms included:

Number of farms

Land use

Operator characteristics by main occupation

Hired farm labor

Machinery, equipment, buildings, and facilities on the place

Agricultural chemicals used

Irrigation

Selected production expenses

Market value of agricultural products sold

Farm-related income

Livestock, poultry, and their products-inventories and sales

Crops harvested and sales of selected crops

Ornamental and flowering plants, cut flowers, and lawn grass

Products for home consumption

The tables showed the 1987 data, with 1982 census data for comparison.

For farms with sales of \$2,500 or more, summary statistics on tenure of operator, type of organization, main occupation and age of operator, size of farm, market value of agricultural products sold, and type of farm-all for 1987-were presented.

The Bureau provided users with data highlights from the printed report through the CENDATATM "online" system. No other electronically readable files or unpublished data were made available for the 1987 agricultural enumeration in the Commonwealth.

CONTENTS

Chapter 8. Census of Agriculture in the Outlying Areas

	Page
Introduction	75
General Information	
Historical background	
Scope and legal authority	
Guam and the U.S. Virgin Islands	
General Information	
Special arrangementsFarm definition and reporting periods	
Preparations	
Report forms	
Farm lists	
Training and reference materials	
Staffing and training	
Taking the Census	
Enumeration materials	
Methods of enumeration	
Callbacks	
Refusals	
Controls and reports	
Field review	
Results	
Data Processing	
Introduction	
Check-in and screening	
Preliminary clerical review	
Precomputer edit and data entry	
Computer edit and tabulation	
American Samoa and the Commonwealth of the Northern Mariana Islands	
General Information	
Special arrangements	
Farm definition and reporting periods	
Preparations	
Report forms	
Maps	
Training and reference materials	
Staffing	
Taking the Census	
General information	
Enumeration methodology	
Field review and quality control	
Results	
Data Processing	 86

	Page
Field office operations	86
Precomputer edit and data entry	86
Computer processing	86
Publication Program	86

INTRODUCTION

General Information

Historical background—The United States carried out its first agricultural census of Guam in 1920 along with the decennial population census of that year, and the agriculture enumeration continued as part of the decennial effort through 1960. The United States purchased the Virgin Islands from Denmark in 1917, and conducted a special census that included agriculture that same year. The second census of agriculture in the islands was carried out in 1930, when the Federal Government incorporated the islands into the general decennial census program. In 1964, Title 13, United States Code, section 191(a) was changed to include both Guam and the U.S. Virgin Islands in the quinquennial censuses of agriculture. The 1987 census was the 11th such in these areas.

The Census Bureau's first agriculture enumeration in American Samoa was part of the 1920 Decennial Census program, and agricultural censuses have been carried out every 10 years since, in conjunction with the population and housing censuses. Farms in the Northern Mariana Islands were first enumerated for agricultural purposes as part of the 1970 Census of Population and Housing, but the agricultural data were published as part of the 1969 agriculture census publication program. As in the case of American Samoa, the agriculture census in the Northern Mariana Islands continued with the decennial population and housing census program, rather than as an integrated part of the quinquennial agriculture census. Title 13 was not changed to require all outlying areas to be included in the guinguennial censuses until 1986, so American Samoa and the Commonwealth of the Northern Marianas were omitted from the 1974 and 1982 agricultural censuses.

Scope and legal authority—Title 13, United States Code—Census, authorized the collection of agriculture data in the outlying areas. Section 142(a) directed that there be censuses of agriculture in 1979, 1983, and every fifth year thereafter; section 191(a) authorized the inclusion in the census of the U.S. Virgin Islands, Guam, the Commonwealth of the Northern Marianas, and other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Section 191(b) stated that the Secretary of Commerce could use data collected by the Governors or other Federal officials (provided the data were collected in accordance with plans prescribed or approved by the Secretary) for censuses in any of these places.

GUAM AND THE U.S. VIRGIN ISLANDS

General Information

Special arrangements—In April 1987, the Director of Commerce for Guam, and in December 1987, the Commissioner of Agriculture for the U.S. Virgin Islands, signed

agreements with the Census Bureau for the censuses of agriculture in their respective jurisdictions. The Bureau agreed to provide special training as census project managers for representatives of each of the governments involved, and to provide report forms, training materials, and instructions for the census staffs. The territorial governments accepted responsibility for recruiting and training local field and office staffs, supervising appointments and payrolls, and local administrative matters.

The 1987 agriculture census on Guam was carried out in late February and March 1988, immediately before the 1987 Economic Censuses for the island, and in the Virgin Islands in July 1988, immediately after closing the economic enumeration there. (See App. E, Chronology of Major Census Activities.) The Agriculture Division conducted both the economic and agriculture censuses in the outlying areas, so that office space was used for both enumerations; in Guam, the Bureau established a census office in Tamuning, while in the Virgin Islands, the census office was in space lent by the Department of Economic Development and Agriculture in Charlotte Amalie, St. Thomas

The Bureau began preparation for the 1987 censuses in the outlying areas early in 1985, when, in cooperation with the territorial governments, it developed a farm definition and started planning the censuses.

Farm definition and reporting periods—The 1987 censuses on Guam and in the U.S. Virgin Islands defined a farm as any place from which \$100 or more of agricultural products were sold, or normally would have been sold, during the census year. This differed from the 1982 definitions for both areas; for 1982, a farm on Guam was any place from which any crop, vegetable, or fruit was harvested or gathered, or on which there were livestock or a specified number of poultry on Census Day. The definition for the 1982 census in the Virgin Islands also required products harvested or gathered, as well as a minimum acreage, and specified numbers of (1) fruit trees, nut trees, or plants, or (2) livestock or poultry.

Reporting periods differed between the two areas. On Guam, the census collected inventory data as of the day of enumeration, while crop and livestock production, sales, and expense data were requested for the calendar year 1987. In the Virgin Islands, inventory data were asked as of the day of enumeration as well, but crop and livestock sales and production and expense data were for the 12-month period between July 1, 1987, and June 30, 1988.

Preparations

Report forms—The Census Bureau designed the 1987 agriculture census report forms for Guam and the U.S. Virgin Islands in cooperation with the respective governments. The report forms—the form 87-A1(G) and form 87-A1(VI)—were similar in format, consisting of 21" x 14" white stock, folded to 10 1/2" x 14". The A1(G) had

printing in green ink, while the A1(VI) was printed and shaded in blue ink. Each requested data on the following topics:

Land in agriculture

Crops harvested during reference period

Land use

Livestock and poultry (inventory and number sold in reference period)

Selected expenditures

Equipment and facilities

Operator characteristics

The A1(G) included an additional section requesting the pounds of fish caught, pounds sold, and total value of sales during 1987.

All the report forms were printed in English and included a section that served as the enumerator's record of the census interview, which the enumerator completed with information on the person who furnished the data in the form, any remarks, the address of the place, and the enumerator's signature and the date of enumeration.

Maps — The Bureau's Data Preparation Division (DPD) in Jeffersonville, IN, prepared a series of maps used by the outlying areas' census offices and staffs, using 1980 Census of Population and Housing maps for reference. Each census office received a set of maps that included a central office map of each area, crew leader maps, and enumeration district maps; all showed enumeration districts (ED's) and ED numbers, with the ED boundaries marked in heavy orange lines. Crew leaders checked each map for their area of responsibility and (1) familiarized themselves with the ED's, (2) checked the accuracy of his/her maps and the individual ED maps, (3) made any notations on the maps that might be needed to help the enumerators complete their assignments, (4) checked the size of each ED to make certain none was too large for a single enumerator to cover, and (5) identified places with special enumeration problems (such as farms split between two ED's).

Farm lists—The Bureau prepared lists of "special farms"—i.e., agricultural operations considered to be large farms in the local context—before the censuses on Guam and in the Virgin Islands. The agency assembled these lists using 1982 Census of Agriculture data and information from the local Departments of Agriculture to identify probable special farms. Special farms were any that had, or were believed to have had, 20 acres or more of land, or annual sales of agricultural products of \$500 or more. The special farms in each enumeration district (ED) were listed on the A2 Listing Sheet included in the A5 Record Book for that ED.

Training and reference materials—The Form 87-A25(G) and (VI) *Procedures Manual* and the Form 87-A20(G) and (VI) *Supervisor's Reference Manual* for Guam and the

Virgin Islands, respectively, served as the principal reference guides for organizing the census staffs and carrying out the enumeration. The A25 described the duties of the various members of the census staff and the operations of the census office, while the A20 explained the specific responsibilities of the census supervisors and the procedures for the field enumeration. The Bureau provided copies of the A20 guide to each supervisor and crew leader, together with the A15 Enumerator's Training Manual for use in training the enumeration staff. The enumerators themselves received the Form A10(G) or (VI) Enumerator's Reference Manual, which detailed the duties of an enumerator and gave specific instructions for conducting interviews and completing the required documents.

Staffing and training—The census staffs in the outlying areas were organized into a small field office staff, and the field enumeration staff. The census manager functioned as both the general supervisor for the census and the head of the census office. Staff composition in the respective areas was as follows:

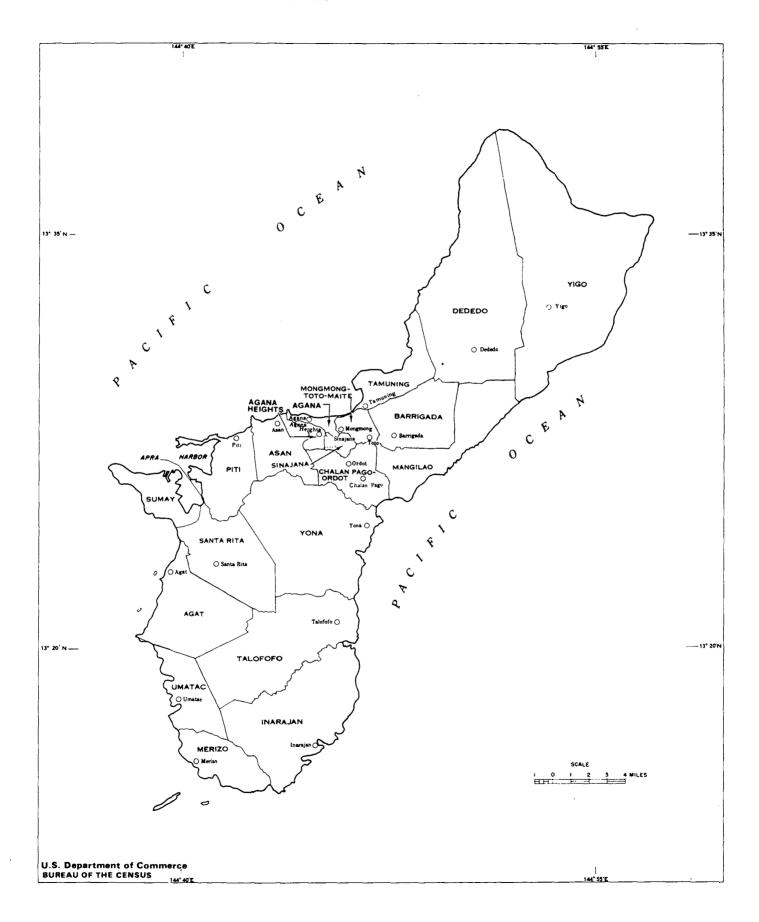
Staff	Guam	Virgin Islands
Total	24	10
Project manager	1	1
Crew leaders	2	2
Office clerks	3	1
Enumerators	18	6

The census staffs received salaries as temporary employees of the local governments, paid on the standard U.S. Government general schedule (GS) pay scale for the appropriate grades.

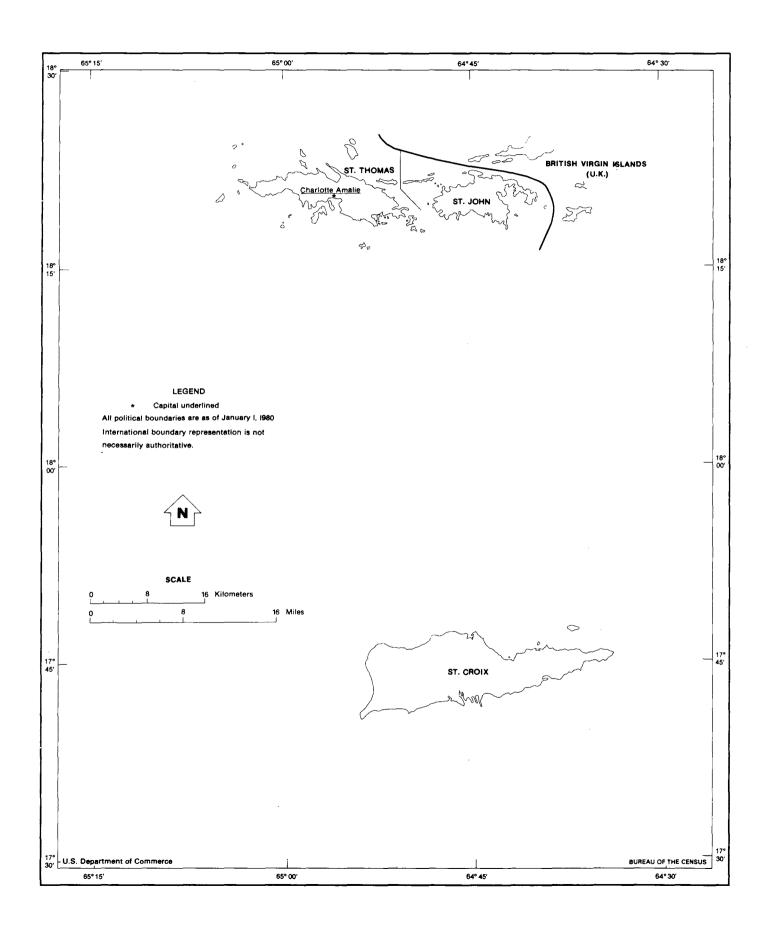
The project managers were appointed by the territorial governments and were responsible to the Director of the Census Bureau for the conduct of the enumeration in their areas. Their broad responsibilities included precensus preparatory activities—such as securing office space and equipment; recruiting, testing, and selecting personnel; training crew leaders and enumerators; and publicizing the census-as well as the enumeration and the clerical operations of the local office. They also kept Bureau headquarters informed of the progress of the census through periodic reports. The crew leaders functioned as assistants to the managers and directly supervised the field enumeration, as well as reviewed enumerators' work, made periodic progress reports to the manager, and carried out any related duties assigned by the manager. The enumerators actually carried out the enumeration, interviewing agriculture operators in their assigned districts in a door-to-door canvass.

Census Bureau staff personnel went to the Virgin Islands in January, and Guam in February 1988, to train the census managers (appointed by the local governments) and their crew leaders. The agriculture census managers in the

GUAM ELECTION DISTRICTS AND PLACES



THE VIRGIN ISLANDS OF THE UNITED STATES



outlying areas also were responsible for the 1987 Economic Censuses in those areas. While the agriculture census in Guam began in February, the economic enumeration in the Virgin Islands was first, with the agriculture census getting underway in July (the agriculture census in the Virgin Islands was timed to begin at the end of the local crop year, which ran from July 1 to the following June 30). Recruiting for the respective census enumeration staffs began in January and June 1988, and the census managers carried out the 2-day enumerators' training during the second week of February 1988 on Guam, and during the last week of June in the Virgin Islands.

Taking the Census

Enumeration materials—Each enumerator received an enumeration portfolio containing the forms and records needed for the field canvass: 100 copies of the report form (87-A1(G) or 87-A1(VI)), and a Form 87-A5 Record Book. The A5 Record Book included three forms the enumerator used daily: the Form A2, Listing Sheet; the Form A3, Enumerator's Daily Report; and the Form A4, Daily Record of Progress. The A2 Listing Sheets served as the record of the canvass of each ED and contained a series of screening questions used by the enumerators to determine whether a place qualified as a farm. The A2 had prelisted names and addresses of large agricultural operations in each ED. (See p. 76.) The crew leaders for each area also familiarized themselves with their respective districts, and added the addresses of locations they believed required special enumeration procedures to the A2 Listing Sheets before issuing them to the enumerators. After canvassing each day, each enumerator filled out an A3 Enumerator's Daily Report—a postcard listing the island's or ED's name. ED number, date, miles traveled, hours worked, number of report forms completed each day and to date, and number of cases pending-and turned it over to the responsible crew leader by the next morning. The A4 Daily Record of Progress contained similar information, but was kept in the Record Book for reference by the enumerator.

Each enumerator canvassed a specific geographic area, called an enumeration district (ED), and was responsible for its complete enumeration. Guam was divided into 19 ED's, corresponding generally to the island's political election districts, while the Virgin Islands were divided into 6 ED's—4 on St. Croix and 1 each on St. Thomas and St. John.

Methods of enumeration—The agriculture census required the enumerators to interview each head of household in an assigned ED, asking a series of screening questions to determine whether anyone in the household was involved in agricultural operations that met the census farm definition. If no one was at home, enumerators tried to obtain information from neighbors or other persons, such as hired workers, to decide whether a report form needed to be completed for that place. If so, the enumerator made a

"callback" later to complete the enumeration of the operation. Enumerators identified as the operator the person who had the day-to-day management of the farm operation. For partnerships, the partner in charge of the actual farm operations, or the senior partner, was identified as the operator. In the cases of corporations and institutions owning land used for agricultural purposes, the institution owning the land was identified as the operator, and the name of the person in charge was entered as "manager" in the "Remarks" section of the report form.

Places with two or more tracts of agricultural land, or with land in two or more ED's, required special handling. For multiple-tract places, enumerators used the same report form for all the land operated by one person, regardless of where that land was located—although the location of each tract of land was identified to prevent duplication of the data. The land and agriculture operations for an operator with land in more than one ED were enumerated in the ED where the operator resided.

The specific procedures used in the enumeration differed slightly between Guam and the Virgin Islands, although in each area every agricultural operation in each ED was to be enumerated. On Guam, a procedure code—"A," "B," or "C"—based on density of population was assigned to each ED to indicate how it was to be enumerated. The area descriptions and general instructions were as follows:

Code A: Rural areas—Enumerators visited every occupied dwelling, completed A1 forms as needed, and entered an A2 Listing Sheet line number and dwelling symbol on their assignment maps for each dwelling.

Code B: Built-up areas (known built-up areas were outlined in green on the assignment maps)—Enumerators followed Code A procedures except for localities with 25 or more dwellings, each on 1 acre or less of land. For such areas, only households associated with agricultural operations were listed.

Code C: ED's that had 10 or fewer farms listed in the 1982 census—Farm operations were prelisted for these areas and enumerators visited each address. They also checked with respondents, local merchants, and so forth to obtain information about any other place in the ED that might qualify as a farm. Enumerators visited any nonlisted places that might qualify as a farm and completed an A1 form, if needed.

Enumerators also visited every household not listed for their assigned ED, but which appeared to have agricultural operations.

Callbacks—When an enumerator was unable to complete a report form on a first visit to a household because the operator was not at home, available records were incomplete, or for some reason other than the operator's refusal

to cooperate, the enumerator made arrangements for a return visit—a "callback"—to complete the enumeration. Whenever possible, callbacks were made by appointment, at the respondent's convenience and within 3 days of the first visit. The enumerator could complete the canvass by telephone if it was possible to do so.

Refusals—In cases of refusal, enumerators tried to persuade the respondent to provide the data requested by explaining the legal requirement to do so, emphasizing that the data reported would be kept confidential, and describing the importance of the census information. If the respondent continued to refuse to answer, the enumerator identified the case as a refusal and reported it to the responsible crew leader, who determined whether further followup should be attempted. If a respondent answered some, but not all, of the census questions, the case was identified as a partial refusal, with the items refused noted, and was referred to the responsible crew leader. The crew leader determined whether sufficient information had been collected to make a further visit unnecessary. If not, the crew leader visited the operator to try to complete the enumeration. If the respondent remained uncooperative, the crew leader referred the case to the field supervisor for resolution.

Controls and reports-At the end of each working day, each enumerator completed a Form A3, Enumerator's Daily Report, with (1) hours worked "today" and hours worked to date, (2) A1 forms completed today and to date, (3) total A2 Listing Sheet lines filled out to date, and (4) callbacks to be made. The enumerators submitted the A3's to their respective crew leaders, who, in turn, summarized the information from the field staff to complete their Form A6, Weekly Progress Report of Enumeration. The A6 provided the census manager with summary information on the number of (1) A2 lines filled, (2) questionnaires completed, and (3) callbacks pending. Crew leaders sent A6 reports to the census manager every Monday on Guam, and every Wednesday in the Virgin Islands. The managers then cabled this information to Census Bureau headquarters as a weekly progress report.

Field review—The census managers had overall responsibility for the conduct of the census, but the day-to-day supervision of the data-collection effort was the immediate task of the crew leaders in each area. Crew leaders supervised and reviewed the work of their enumerators, checked enumerators' reporting programs as needed, reviewed each enumerator's canvassing plan to ensure the most efficient enumeration, and carried out two systematic evaluations of each enumerator's work—an initial check 3 or 4 days into the census, and a final review after the enumerator completed canvassing his or her assigned ED. In the first field review, the crew leader checked to make certain each enumerator (1) used proper procedures in covering the assigned area, (2) entered all information correctly on the appropriate listing pages and maps,

(3) properly completed required A1 forms, and (4) made callbacks in a timely manner. The reviewing crew leader identified any errors and ensured that the enumerator involved corrected those problems.

As each enumerator completed his or her assignment, the responsible crew leader carried out a final review, examining all of the enumerator's materials, checking points covered in the initial review, and also looked at a sample of completed A1 report forms. On Guam, every fifth, and in the Virgin Islands every third, report form was checked, unless there were fewer than 10 report forms in the assignment, in which case all were checked. If the crew leader found two or more forms associated with an assignment incomplete or incorrectly filled out, all the report forms for that assignment were reviewed. Unless there was a satisfactory explanation for the omitted data, the crew leader returned the incomplete or unacceptable forms to the enumerators concerned for callback visits. Satisfactory explanations included (1) the enumerator was unable to locate any member of the household or the farm operator after two visits; (2) the housing unit concerned was vacant; or (3) the respondent refused to provide the data requested.

Results—The agriculture census on Guam enumerated 351 farms, with a total of 13,134 acres, and sales of agricultural products in 1987 of approximately \$2.63 million. In the Virgin Islands, the census counted 267 farms, with 17,785 acres, and \$2.69 million in sales.

Data Processing

Introduction-Data processing for the report forms for Guam and the Virgin Islands involved check-in and screening at the local census offices in the respective territories and all Suitland headquarters. After this, the forms were sent to the Puerto Rico census office in Hato Rey, PR, where the data were keyed to computer files using the minicomputer facilities and staff there. The information was stored in a relational database, accessed in Puerto Rico and at the Suitland headquarters via a satellite communications link. Edits were processed on the minicomputer system using the same satellite link, and edit corrections then were completed in Puerto Rico, using the interactive system. The Suitland headquarters computer facility completed the data tabulations as the data file was edited and corrected. Once all keying operations were completed, the computerized data file was loaded onto magnetic tape reels and shipped to the Suitland office for archiving.

Check-in and screening—As enumerators completed canvassing their assigned ED's, they sent the census materials to the central offices in Tamuning and Charlotte Amalie, where the office staffs checked each portfolio to make certain the record books and assignment maps were returned with the report forms. They also reviewed the listing sheets to determine if there was a completed report

form for every place that required one. The ED number and the number of A1's received for each ED were entered on the Form A17. Check-In Record.

Each incoming report form was screened to determine acceptability: i.e., clerks checked to make certain each form included:

- 1. A farm serial number
- 2. ED number
- 3. Name and address of operator
- 4. At least one entry in section 2, "Land in Agriculture"
- 5. At least one entry in section 3, "Crops Harvested in the Last 12 Months"
- 6. At least one entry in section 4, "Land Use"

All report forms were returned to their respective portfolios after check-in and screening. When an unacceptable report form was identified, the clerk entered the necessary identifying information (i.e., name of island, ED number, clerk, date, farm serial number, reason for referral, etc.) on a Form A16. Problem Referral Sheet, attached the A16 to the report form, and placed them in the original portfolio.

Preliminary clerical review—While the final edit and tabulation of the 1987 agriculture census data for Guam and the Virgin Islands occurred at the Bureau's Suitland headquarters, the field offices carried out a preliminary review and coverage edit before closing out their operation.

Clerks in the field offices checked entries in each A5 Record Book to make certain a report form was completed for each respondent qualifying as an agriculture operator. The office staff examined the report forms to ensure that duplicate forms had not been completed (e.g., partners filling out separate forms for the same operation, or forms completed by both an operator and the land owner), and reviewed the forms for indications from notes or other remarks that information should be included on another report form—such as a landlord incorrectly including a tenant's operation on his or her own report form. While the local census office clerks did not carry out a section-bysection review of the report forms, they did check them to assure the legibility of entries. All problems, errors, and/or inconsistencies identified in the preliminary clerical review were referred to the census manager for resolution or additional action.

The Guam and Virgin Islands offices shipped their census materials to Suitland for clerical processing in April and August 1988, respectively.

Precomputer edit and data entry—Agriculture Division staff at Suitland reviewed each report form from Guam and the Virgin Islands, checking responses for consistency and completeness, correcting errors in calculation and units of measure, substituting numeric for alphabetic entries where necessary, and adjusting misplaced entries based on the data available from the same report or from nearby operations of the same type. Once all the questionnaires for an area had been edited and corrected, they were sent to the census office in Puerto Rico, where the data keying unit keyed the data from each report form. The keying program included several tests as the data were entered, checking for nonnumeric entries, illegal values, and entries too long or too short for a particular data cell. Each keyer checked each record as the keying progressed. A different keyer verified all the keyed data, and corrected all errors before releasing the record to the data file.

Computer edit and tabulation—Using the minicomputer system, a detailed edit of each record for the respective outlying areas checked for consistency; imputed missing or obviously incorrect entries; coded each record for size, economic class, type of farm, and age and tenure of the operator; and flagged questionable items. Once all corrections had been made, and any flagged cases satisfactorily resolved, the data were prepared for tabulations by accessing the data base. After table verification and review by Agriculture Division staff, the data underwent disclosure analysis1 and then were released for printing in February 1989.

AMERICAN SAMOA AND THE COMMON-WEALTH OF THE NORTHERN MARIANA **ISLANDS**

General Information

Special arrangements—The agriculture census in American Samoa and the Northern Mariana Islands was an adjunct to the 1990 Census of Population and Housing in those areas. In December 1989, the Governors of American Samoa and the Commonwealth of the Northern Mariana Islands signed memorandums of agreement with the Census Bureau for the 1990 censuses, including agricultural enumerations, in their respective areas. The Bureau agreed to provide special training as census project managers for representatives of each of the governments involved; appoint a census advisor to provide technical advice when needed; and produce report forms, training materials, and instructions for the census staffs. The local governments conducted the census, and were responsible for recruiting and training local field and office staffs, supervising appointments and payrolls, publicizing the census, and all other local administrative matters.

The 1990 enumeration began in April, and was completed late in August 1990. (For a complete chronology of principal operations in these areas, see App. E, Chronology of Major Census Activities.) The Bureau's Decennial

¹A systematic cross-checking of each data item to determine whether the item risked disclosure of information that could be used to identify an individual respondent of operation. No data were published that disclosed the operations of an individual farm. However, the number of farms in a given size category or other classification was not considered a disclosure, so this information was included even though other data were

Planning Division (DPLD) had primary supervisory responsibility for the census, while the Agriculture Division's Outlying Areas Statistics Branch designed the agriculture questionnaire to be used, wrote agriculture enumeration procedures, and processed and tabulated the completed forms at Suitland headquarters once the data were collected. DPLD's Puerto Rico and Outlying Areas Branch served as the primary planning and coordinating office for the censuses of population and housing, and of agriculture in American Samoa and the Northern Mariana Islands. The census in American Samoa was directed from the district office in Pago Pago, on Tutuila Island, while the central office for the enumeration in the Northern Mariana Islands was established in Capitol Hill, Saipan.

Farm definition and reporting periods—In both American Samoa and the Northern Mariana Islands, a farm, for census purposes, was any place that had, or normally would have had, \$100 in total annual sales of agricultural products. (The 1980 census employed a definition based on inventories of poultry and livestock, vegetables or crops harvested, and number of selected plants or trees.) The agriculture census requested inventory information as of the time of the enumeration, while production and sales information were requested for calendar 1989.

Preparations

Report forms—The 1990 Census of Agriculture report forms for American Samoa, the form 90-A1(AS), and the Northern Mariana Islands, the form 90-A1(NM), were 17" x 14" sheets of white stock, folded to 8 1/2" x 14", with printing and shading in red ink for American Samoa, and blue ink for the Northern Mariana Islands. The A1(AS) included special instructions on reporting use of communal lands.² Each report form requested data on the following topics:

Land in agriculture

Field crops, melons, and vegetables

Fruits and nuts

Land use

Livestock and poultry

Selected equipment and specified facilities

Operator characteristics

The American Samoa and Northern Mariana forms were printed in English, and, as on the forms used on Guam and in the Virgin Islands, included a section that served as the enumerator's record of the census interview. Here the

enumerator included information on who furnished the data on the form, the address of the operation enumerated, any remarks, and the enumerator's signature and the date of enumeration.

Maps—The Census Bureau's Geography Division prepared master maps, showing each address register area (ARA), as well as central office, crew leader, and enumerator (these were copies of the ARA maps) maps, and an office atlas (containing a locator map sheet index, listing of map sheets by ARA, listing of ARA's by map sheet, county locator maps, a street index, and the maps in ARA numerical order), and shipped these materials to the respective areas by April 1990. Each census office received the office atlas; crew leaders, the county locator maps and the corresponding locator map index; and enumerators, the ARA maps covering the areas for which they were responsible. The ARA maps showed the boundaries of the areas, all important terrain features (such as rivers, hills or mountains, and roads), as well as built-up areas and known land subdivisions (such as military bases).

Training and reference materials—The Bureau developed administrative and training guides for all phases of the census operations for use by the office and enumeration staffs in the outlying areas. The materials most frequently needed for the agriculture canvass included the standard office administrative guide was the Form D-513(OA), Office Operations Clerical Manual. The Form D-655(OA), Guide for Training Crew Leaders, provided detailed instructions for training the crew leaders in each area, who also had the Form D-555(OA), Crew Leader's Manual, which contained instructions and guidance. The crew leaders, in turn, trained their enumerators, using the Form D-649(OA), Training Manual for Enumerators. Enumerators received their own reference guides, the Form D-549(OA), Enumerator's Manual, which covered their duties in detail, and the Form D-90-A10(AS) and (NM), Questionnaire Reference Book for the Agriculture Census. The A10's contained detailed instructions for the enumerators with regard specifically to the agriculture census in their respective areas, and included item-by-item information for the report forms. Staffing—The staffs for the censuses in American Samoa and the Northern Mariana Islands were similarly organized. The composition of the 1990 census staffs in these areas was as follows:

Staff	American Samoa	Northern Mariana Islands
Total	124	61
Project manager	1	1
Census advisor	1	1
Office operations supervisor	1	1
Field operations supervisors	2	1
Office clerks	9	5
Crew leaders	18	7
Enumerators	92	45

The census project managers, appointed by the Governors of the respective areas, had overall responsibility for

²In American Samoa, any land used in owner-like possession for the benefit of an extended family. Land used for the sole benefit of the operator, rather than the extended family, had to be reported on a separate report form, while any land held by the extended family, but used by a nonmember, was to be reported as land rented to others.

the conduct of the censuses in their respective areas. The census advisor, however, was a Census Bureau employee specifically responsible to the Director of the Bureau for adhering to agency procedures and requirements, and maintaining acceptable statistical standards.

Recruiting for the census began in January 1990. All candidates for census jobs were given written tests by the census manager or one of the operations supervisors; applicants with passing grades were interviewed by senior census staff before final selection for hiring. The operation in both areas required crew leaders and enumerators with fluency in the local languages, since many of the inhabitants spoke little English. Every candidate was required to take an oath to protect the confidentiality of census information upon being hired.

During the first week of March 1990, the field operations supervisors trained their crew leaders in 3-day sessions that covered precensus operations (including training the enumeration staff), the enumeration, field followup, and field review duties. The crew leaders, in turn, conducted 3-day training sessions for their enumerators during the last week of March.

Taking the Census

General information—Each enumerator in American Samoa and the Northern Mariana Islands received a kit that included a map of the address register area (ARA) to be canvassed, a supply of population and housing and agriculture census report forms; a supply of Form D-308OA, Daily Pay and Work Record; a Form D-104A, Address Register, for the ARA to be covered; a Form D-549, Enumerator's Manual; and a copy of the appropriate Questionnaire Reference Book for the Agriculture Census. The ARA map showed the boundaries of the area the enumerator was to canvass, as well as roads, built-up areas, and natural features. Each enumerator filled out a form D-308OA daily, with the hours worked, miles driven, telephone expenses, and the like, and periodically submitted these to his or her crew leader to keep the supervisors informed of special expenses. The address register contained listing pages for recording the names and addresses of households visited and enumerated and included checkoff boxes showing which households qualified for inclusion in the agriculture census.

Enumeration methodology—The decennial censuses in American Samoa and the Northern Marianas employed house-to-house canvassing to enumerate each ARA. Enumerators visited every household in their respective areas and filled out (1) a 1990 Decennial Census questionnaire; and (2) an entry on the address listing page of their Address Register, with the name and address of the household, the date the questionnaire was completed, the number of persons in the household, and whether an agriculture census questionnaire had been completed for

that household. The last page of the decennial questionnaire included a section containing five screening questions to determine whether any individual in the household operated a farm, as follows:

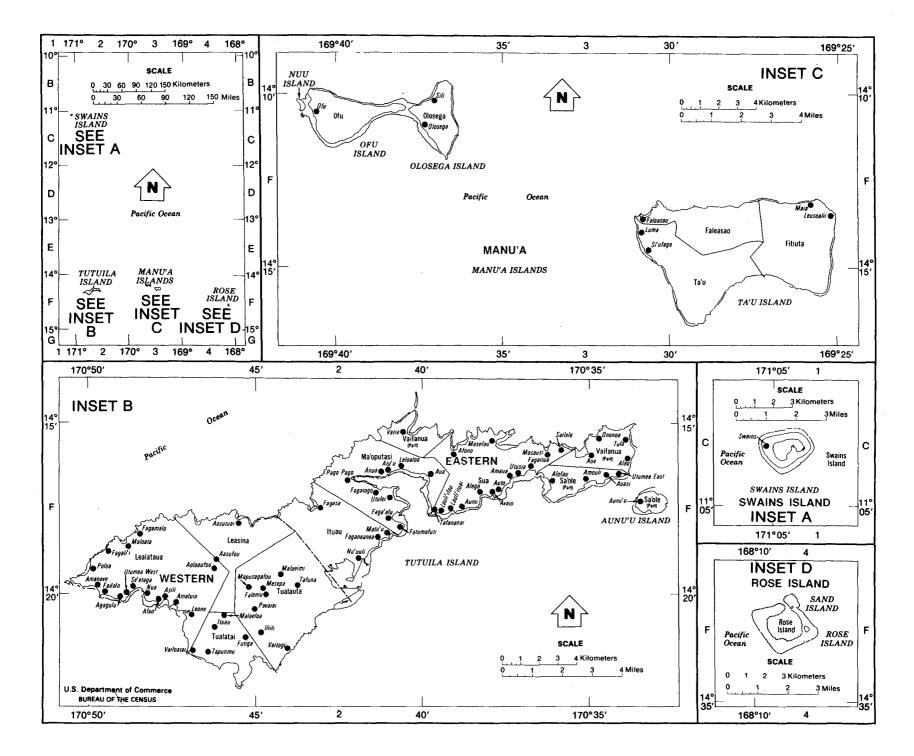
- Does anyone living in this household operate a farm?
- 2. Does this place have 15 or more poultry (chickens, ducks. etc.)?
- 3. Does this place have 5 or more livestock (cattle, hogs, etc.)?
- 4. Does this place have any crops (include nursery plants) or vegetables harvested for sale?
- 5. Does this place have any fruit, nut or tree crops harvested for sale?

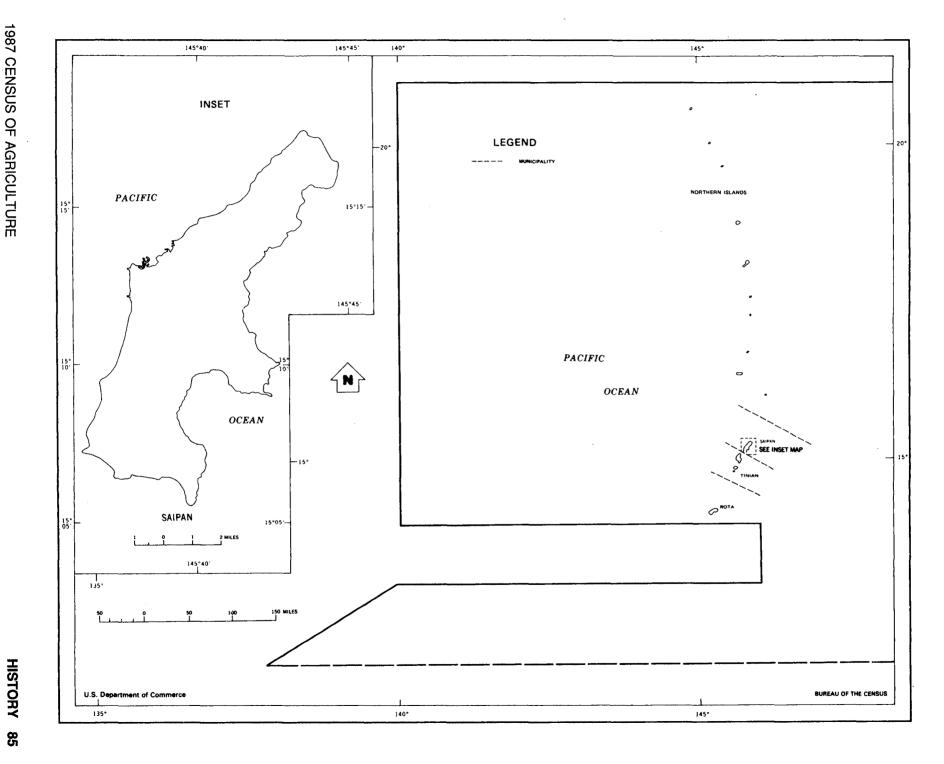
Enumerators completed a form 90-A1 for any household that gave an affirmative answer to any of these questions, regardless of where the agricultural land involved was located within the ARA. For persons operating farmland or other agricultural activities outside the ARA of residence, the enumerator included the data on those operations on the report form as well. In cases in which the respondent reported that an A1 report form already had been completed in another ARA, the enumerator filled out the identification sections of the A1 (Part A. Questionnaire Identification and Part B, Operator's Name and Physical Location), and items 1-4 of section 1 (showing acreage). noting in the remarks section of the form that a completed questionnaire had been obtained by the enumerator in the other ARA concerned. The enumerators tried to obtain names and addresses of operators for agricultural operations controlled or managed by someone living outside the ARA in which the agricultural activity was located, and noted in the remarks section that the enumerator in the appropriate ARA of residence should complete an A1 for the operation concerned.

Enumerators made up to two callbacks to places for which no report form could be completed on the first visit. If the operator still was not available, or if he or she refused to respond, the enumerator noted that in the margin of the questionnaire for that place.

Field review and quality control—Crew leaders were responsible for the quality of coverage and data collection within their respective areas, and spent a good deal of their time reviewing their enumerators' work. Each crew leader conducted two formal reviews of each enumerator's work; the first of these was carried out as soon after the enumeration began as possible. The crew leader reviewed the work done up to the time of the first review, comparing what the enumerator had done with the procedures established in the *Enumerator's Manual*, checking to make certain that

 The enumerator's canvassing plan would cover the entire ARA involved.





- 2. At least one agriculture census questionnaire had been obtained for each farm operator identified on the enumerator's address listing pages (form D-104A).
- 3. Identification data were properly shown on the front of the report form and that these data agreed with the population and housing census records.
- 4. Entries were properly made in each section of the report form, and no sections had been skipped.
- 5. The enumerator's callbacks were not accumulating.

The crew leader identified errors, discussed any mistakes made with the enumerators involved, and made certain corrective action was taken as needed.

The second review of each enumerator's work was carried out when the canvass was finished and the enumeration materials were turned in, and involved checking a sample of 1 in every 5 of the agricultural questionnaires completed, unless there were fewer than 10 questionnaires involved, in which case all were checked. The crew leaders checked the returned materials for the same items covered in the first review. If the reviewing crew leader found two or more report forms from a given enumerator to be incomplete, all of that enumerator's questionnaires were reviewed. The crew leader returned any incomplete or otherwise unacceptable report forms to the enumerator involved for additional visits to the respondents, unless the enumerator could provide a satisfactory explanation why information was missing. "Satisfactory explanations" for missing data included the following: (1) the enumerator was unable to find members of the household at home after two callbacks; (2) the enumerator could not, after repeated efforts, locate the farm operator; (3) the enumerator was unable, after a second visit to a farm, to find anyone able to answer a particular question: (4) the respondent refused to provide the information; and (5) the housing unit was vacant and no one in the vicinity could supply the information.

The crew leaders also conducted a coverage check of their districts, using advance listings prepared prior to the start of the enumeration. The listings showed six consecutive living quarters in each of two selected blocks in each ARA within their crew leader areas. The crew leaders matched these against the listing pages completed by their enumerators to determine whether these households had been covered. This check was principally concerned with the population and housing census.

Enumerators turned in to their crew leaders all the enumeration materials for their ARA's as they completed canvassing. After crew leader review and any recanvassing or other corrective work, the crew leaders placed the completed report forms in a transmittal envelope identified with the enumerator's name, identification number, and the ARA assignment number, and referred the questionnaires, together with the corresponding address register pages and maps, to the field operations supervisor.

Results—The agriculture census in American Samoa enumerated 384 farms, with 5,805 acres, and \$1.1 million in total sales of agricultural products. In the Northern Mariana Islands, the census found a total of 119 farms, with 14,421 acres, and \$1.1 in agricultural sales for 1989.

Data Processing

Field office operations—The census offices in American Samoa and the Northern Mariana Islands were responsible for checking in the agriculture census report forms and conducting a preliminary clerical edit. Upon receipt of census forms at the office, the clerks serialized the questionnaires by ARA, block number, and map spot number. and checked each decennial census report form to make certain any agriculture report forms required were present. The office operations clerks reviewed each returned questionnaire for completeness and accuracy and counted the number of each type of form received. Tallies of number and type of each completed report form checked in were kept and periodically reported to Census headquarters. When the local area census offices were closed down, the staff packed the agriculture report forms (both completed and blank) and shipped them to the Agriculture Division at Bureau headquarters in Suitland, MD, for further processing and tabulation.

Precomputer edit and data entry-Agriculture Division staff edited report forms, scanning each questionnaire for consistency and reasonableness of reported data, changing alphabetic entries to numeric where necessary, and checking for completeness. After reviewing and correcting all the report forms for each area, the Agriculture Division staff keyed the data from the questionnaires on minicomputer work stations, using the keying program to test the data as they were entered for nonnumeric entries and illegal values. Keyers checked each record as they completed its keying. All the keyed data were verified by a different keyer and all errors were corrected before the record was released to the data file.

Computer processing—The computer system at Suitland carried out a detailed edit of each record in the data files, checking for consistency; imputing missing or obviously incorrect entries; coding each record for size, economic class, type of farm, and age and tenure of the operator; and flagging questionable items. Corrections were carried to each failed record and immediately reedited; the Economic Programming Division (EPD) tabulated the data from the data base, and then produced final publications using the Census Bureau's table image processing system II (TIPS II). After table verification and review by Agriculture Division staff, the data underwent disclosure analysis and then were released for printing in December 1990.

PUBLICATION PROGRAM

The Census Bureau published the data from the 1987 Census of Agriculture for Guam and the U.S. Virgin Islands in March and May 1989 respectively, in Volume 1, Geographic Area Series, Part 53, Guam, and Part 54, Virgin Islands of the United States. The agriculture data for American Samoa and the Northern Mariana Islands were released in Volume 1, Geographic Area Series, Part 55, American Samoa, and Part 56, Northern Mariana Islands, in February 1991 and December 1990, respectively. The Bureau did not publish advance agriculture data reports for any of the outlying areas. The volume 1 reports included

data on farms and farm characteristics; land in farms and land use; operator characteristics; selected farm expenses; acres planted, amount harvested, and sales value of fruits and nuts, vegetables and field crops; selected machinery and equipment; and inventory and sales of livestock and poultry and their products. No electronically readable data files were released for the outlying areas.

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CONTENTS

Chapter 9. 1988 Census of Horticultural Specialties and Program Sample Surveys

	Page
Introduction	91
General Information	
Legal Authority	
Estimation	
1988 Census of Horticultural Specialties	
Introduction	
Background information	
Scope and reference year	
Preparations	
Pretest	
Report forms	
Mailing lists Data Collection	
General information	
Mailout and mail followup	
ResultsThe NASS data collection effort	
Data Processing	
Receipt and check-in	
Precomputer edit	
Data entry	
Interactive computer edit	
Tabulation	
Publication	
1988 Farm and Ranch Irrigation Survey	
Introduction	
Scope and reference year	
Preparations	
Sample design and selection	
Report form	
Data Collection	
General information	
Mailout and mail followup	
Telephone followup	
Results	
Data Processing	
Receipt and check-in	
Precomputer edit	
Data entry	
Computer edit	
Tabulation	
Publication	97

	Page
988 Agricultural Economics and Land Ownership Survey	97
Introduction	
General information	
Scope and reference year	
Preparations	
Sample design and selection	
Pretest	
Report forms	98
Data Collection	
General information	
Mailout and mail followup	
Results	
Data Processing	
Receipt and check-in	
Precomputer edit	100
Data entryData entry	
Computer edit	
Tabulation	
Publication	101

INTRODUCTION

General Information

One of the byproducts of the census of agriculture is the list of names and addresses of agricultural operations enumerated, classified by type of activity. This list provides a sampling frame for use in other, more specialized agriculture related surveys or censuses, and has been used for this purpose after most modern agriculture censuses. The 1987 Census of Agriculture program included three major followon data collection operations—a census of horticultural specialties, taken in cooperation with the U.S. Department of Agriculture's (USDA's) National Agricultural Statistics Service's (NASS's) Commercial Horticulture Survey, and sample surveys of farm and ranch irrigation practices and of agricultural economics and land ownership. All three activities were carried out by mail enumeration, with addresses of sampled operations drawn from the 1987 agriculture census inscope respondent list.

Legal Authority

Title 13, United States Code—Census, section 193, authorized the Secretary of Commerce to "...make surveys and collect such preliminary and supplementary statistics related to the main topic of the census as are necessary to the initiation, taking, or completion thereof." Section 195 empowered the Secretary to use sampling, if feasible, for collecting data for purposes other than the determination of apportionment of Representatives in Congress.

Part of the data published as part of the horticultural census program were collected by NASS. Under title 13, addresses and individual records acquired by the Census Bureau could not be made available to any other agency or individual outside the Bureau, including NASS, but the confidentiality regulations in USDA, supplemented by the authority given the Secretary of Commerce in section 6 of title 13, permitted the Bureau to incorporate data from outside agencies into census files. Paragraph (a) of section 6 authorized the Secretary of Commerce to "... call upon any other department, agency, or establishment of the Federal Government, ... for information pertinent to the work provided for in this title."

Estimation

For both the 1988 Farm and Ranch Irrigation Survey (FRIS) and the 1988 Agricultural Economics and Land Ownership Survey (AELOS), the Census Bureau collected data from a sample of farm operations drawn from the 1987 Census of Agriculture respondent universe, using the information obtained to produce estimates for various geographic levels. The surveys used two statistical estimation procedures to account for (1) selection for the survey samples, and (2) nonresponse to the questionnaires. The

survey estimates were computed by weighting each respondent operator's information by an expansion factor, which was the product of the sample weights and the whole-farm operator nonresponse weight.

The Census Bureau used whole farm nonresponse weight for nonrespondent operators to expand the survey data to account for operators who did not respond to the survey for whatever reason, and for the surveys' postmaster returns. The Bureau staff calculated a noninteger nonresponse weight for each stratum (for the AELOS) or State (for the FRIS), and assigned it to each respondent record. The sample weight expanded the survey data to estimate totals as if they resulted from a complete census. (Details of the specific estimation procedures employed were published in the printed reports, 1987 Census of Agriculture, Volume 3, Related Surveys, Part 1, Farm and Ranch Irrigation Survey (1988) for the FRIS, and Part 2, Agricultural Economics and Land Ownership Survey (1988), for the AELOS.)

1988 CENSUS OF HORTICULTURAL SPECIALTIES

Introduction

Background information—Horticultural specialty operations represent a significant and rapidly expanding segment of the overall agricultural economy. The 1987 agriculture census indicated that total sales of horticultural specialty crops were over \$5.7 billion, an increase of nearly \$2 billion and over 50 percent since the previous census. The rapid growth of this part of agriculture in recent years prompted demands from data users for more and more detailed information, in order to make accurate projections of growth, maintain the quality and quantity of production, and promote efficient product distribution, as well as for use in considering public policies in such areas as environmental quality.

Basic data on production and sales of flowers, bulbs, nursery products, and seeds had been collected in the general agriculture census since the middle of the 19th century, but the 1890 agriculture census was the first to include a special survey of nurseries, floricultural establishments, seed farms, and the like. The agricultural census program for 1930 expanded the horticultural survey into a special census to be conducted every 10 years. When the schedule of the agricultural censuses was altered in the 1950's, the horticultural specialties operation continued to be conducted every 10 years, as part of the 1959 and 1969 enumerations. The Census Bureau's decision to conduct the agricultural and economic censuses simultaneously led to the 1979 horticultural specialties census, followed by the 1988 enumeration.

The overall plan for the 1988 Census of Horticultural Specialties called for a two-phase data-collection effort, one based on a list of horticultural specialty operations identified in the 1987 Census of Agriculture, and the

second derived from NASS's 1989 Commercial Horticulture Survey. The two agencies used similar report forms, although both agencies' names appeared on the form used by NASS, while the census report form carried only its own name. The Bureau originally planned to conduct the horticultural census as a mandatory response data collection activity, under authority given in chapter 7, section 221, of Title 13 United States Code—Census, but the Office of Management and Budget (OMB) denied authority to collect data under mandatory regulations; consequently, the Bureau agreed to voluntary response. The NASS collected data in its survey under its own "voluntary" authority.

Scope and reference year—The 1988 Census of Horticultural Specialties covered all 50 States and requested data from respondents primarily engaged in the production of ornamental plants and other nursery products—e.g., bulbs, florists' greens, potted and/or cut flowers, bedding/garden, foliage plants, unfinished plant material, shrubbery, woody plants (including fruit trees and environmentals), flower and vegetable seeds, and sod—as well as those producing mushrooms or vegetables under cover. The questionnaires asked for data for the calendar year 1988.

Preparations

Pretest—The proposed horticultural specialties report form content and format were tested in the summer and fall of 1987. There were three versions of the proposed report form: An 11" x 17" folder (the form A19.01) with instructions to the respondent to complete the form section by section, an 8" x 11" booklet (the A19.02) with the same content, and an 8" x 11" booklet (the A19.03) with special "skip" instructions (e.g., "If your business is involved in growing 'X', go to section 'Y'").

The staff selected a sample of approximately 1,500 names and addresses identified as horticultural specialty operations in the 1987 census and split the file into three groups of 500, each group to receive one of the test versions of the report form. On July 27, 1987, the DPD mailed the pretest packages, each consisting of the appropriate report form, a cover letter explaining the test, an instruction sheet, and a return envelope. The cover letter included an "800" telephone number for respondents to call if they needed assistance or additional information. There were two mail followups: The first, on August 25, consisted of a reminder letter and the appropriate report form, sent to the approximately 800 nonrespondent addresses. The second followup used a reminder letter only, and was mailed to the remaining 500 or so nonrespondents on September 15. The pretest was closed on October 9, 1987; at that time 1,134 pretest sample operators had completed and returned their forms (an overall response rate of 75.6 percent).

All pretest report forms, as well as all telephone questions by respondents, were returned to Suitland for processing by the Agriculture Division staff. Incoming report forms

were examined and tallied for frequency of common reporting problems, overall response, and supplied data. Analysis identified several general problem areas, including (1) the inability of nursery establishments to report requested data (with all three test forms, over 20 percent of the respondents failed to complete all of the items applying to their operations); (2) respondents reporting more than one type of sales unit in each column; and (3) incomplete data in several sections, notably payroll breakdowns and value-of-sales totals. Overall, the form A19.01—

the large folder format—obtained the best overall response rate, and was adopted for the census. To address the specific response problems identified, the staff redesigned the report form to clarify where data were to be reported, and expanded the instructions that would accompany the census report form.

Report forms—The Census Bureau and NASS cooperated in the final design of two report forms used to collect the horticultural specialties data. The report forms had identical formats and nearly identical data content. The census report Form 88-A19.1, 1988 Census of Horticultural Specialties, was a 10 1/2" x 17", 12-page booklet, folded to 10 1/2" x 8 1/2" for mailing, on white stock with printing in black ink and shading in a salmon wash. The form had 18 sections, and requested data on type, number of units or containers sold, total value of sales, and value of wholesale sales of—

- Potted flowering plants by type of container (i.e., flats, pots of specified sizes, or hanging baskets)
- · Bedding/garden plants
- · Cut flowers
- · Cut cultivated florist greens
- Nursery plants
- Foliage plants and by type of container (pots or hanging baskets of specified sizes)
- Unfinished plant materials (e.g., cuttings, liners, plug seedlings, tissue-cultured plantlets, prefinished plants)

The report form asked for acres harvested, total and wholesale value of sales for sod, dried bulbs, corms, rhizomes, or tubers; pounds produced and bed area (in square feet) and value of sales of cultivated mushrooms; square feet under glass or other production, acres used, and value of sales of greenhouse vegetables, vegetable transplants, and seeds; and acres grown, production in pounds, and value of sales for flower seeds. Additional sections requested data on—

- · Land, structures, irrigation, and equipment
- Gross sales
- Selected production expenses for all horticultural operations

- · Hired labor (number of employees and gross wages paid)
- Business organization (i.e., individual, partnership. corporation, or other)
- Location of growing operations in 1988

The NASS report Form 88-A19.2, Commercial Horticulture Survey 1989, was virtually identical to the A19.1 in format and content, except that it had a purple wash for shading, and sections 1 (potted flowering plants), 2 (bedding/garden plants), 3 (cut flowers), 4 (cut cultivated florist greens), and 6 (foliage plants) requested area in production in 1988 and intentions for production in 1989 for specified kinds of plants and/or by type of container (e.g., flats or pots for bedding/garden plants).

The content and design of the A19.1 and A19.2 report forms were finalized in the fall of 1988; the NASS form A19.2 went to print in November and was distributed in the following month to the 28 NASS State offices involved in their survey. The census form A19.1 went for printing in the first week of January 1989.

Mailing lists—Growers were selected for inclusion in the 1988 Census of Horticultural Specialties if they had reported a minimum of \$2,000 or more in sales of horticultural products in the 1987 Census of Agriculture. Approximately 32,000 respondents to the 1987 census qualified and were included in the horticultural specialties mail list. The NASS list covered 28 States and consisted of growers expected to have annual sales of \$10,000 or more in floricultural products. The census and NASS lists were clerically matched by the Bureau's Data Preparation Division (DPD) staff at the Jeffersonville facility, and about 8,000 duplicate addresses were deleted from the Bureau's file. The remaining 24,000 cases became the mailing list for the horticultural specialties census.

Data Collection

General information—The printed materials for the Bureau mailings—report forms, instruction sheets, cover letters, and so on-arrived at the Jeffersonville, IN, office during the first week of February 1989. DPD clerks assembled the mailing packages there in late February.

The DPD staff also was involved in the final preparation of the census mail list, matching the Census/NASS horticultural operations lists (see above). The census mail list, which covered all 50 States but excluded horticultural operations with annual sales of \$10,000 or more in the 28 States covered by the NASS survey, was ready by the end of February. The adhesive address labels were printed at the Jeffersonville office and the DPD staff applied them to the mailing packages during the first week of March.

Mailout and mail followup-The DPD carried out the initial horticultural census mailing to 24,338 horticultural operations in all 50 States on March 10-14, 1989. A thank vou/reminder card was mailed to all addresses on the horticultural mailing list approximately 2 weeks after the census mailout, and there were four followup mailings at about 3-week intervals from mid-April to the end of June. The first and third followup packages consisted of a report form, information sheet, return envelope, and cover letter, while the second followup involved only a letter reminding the addressee that his or her report form had not yet been received. The fourth followup consisted once again of the report form package, but was sent certified mail, as a means of emphasizing the importance of response. Toward the end of July, the Bureau identified some 500 additional horticultural specialty operations from the 1987 agriculture census returns, and added these addresses to the horticultural census file. At the same time, about 200 addresses already in the mail file were identified as out of scope, and were deleted from the mail list. The Bureau carried out a special mailing of horticultural census report forms to these "adds," but because of time constraints, only one followup mailing was done. The characteristics of the census and followup mailings were as follows:

Mailout	Type	Date	Mailed
Initial mailing	Report form	03/10- 14/89	24,338
Thank you/reminder	Card	03/29/89	24,338
First followup	Report form	04/14- 17/89	15,680
Second followup	Letter	05/05/89	12,292
Third followup	Report form	05/25- 26/89	10,693
Fourth followup (certified mail)	Report form	06/23/89	8,940
Census "adds"	Report form	07/31/89	500
Followup for "adds"	Report form	08/18/89	402

The Bureau planned to include a telephone followup of large nonrespondents to the horticultural census, but in an effort to improve overall response, decided to mail the fourth followup, using certified delivery to all cases still nonrespondent after mid-June.

Results-The 1988 Census of Horticultural Specialties was on a voluntary response basis, and in the early stages of the enumeration nearly 20 percent of addressees explicitly refused to respond. By the time data collection was closed in August 1989, overall voluntary response was 75.3 percent, compared with 94.4 percent for the 1979 horticultural census (collected under mandatory authority).

The NASS data collection effort—The NASS's 1989 Commercial Horticulture Survey involved a sample consisting of over 15,000 operations in 28 States. The USDA field staff enumerated the NASS sample by field interview during February, March, and April 1989. A total of 14,940 horticultural operations were identified and enumerated and, after NASS extracted the data required for its evaluation and analysis, it sent the completed report forms to the Census Bureau's Jeffersonville, IN, office for processing and incorporation into the horticultural census data file.

Data Processing

Receipt and check-in-Check-in of the first horticultural census report forms began in Jeffersonville in late March. Return envelopes for the horticultural census had "Horticulture" overprinted on the left front side, and as these packages arrived, the DPD staff referred them, together with postmaster returns (PMR's), to the batching unit for check-in. Batching clerks grouped incoming report forms by type into batches of report forms and PMR's (a batch comprised the contents of a filled mail tray-about 300 receipts), prepared a Form EC-14, Check-In Batch Cover Sheet, and a batch log (form BC-1476) control form for each, with the batch number assigned and date prepared, and document type (i.e., whether report forms, PMR's, correspondence, etc.), and sent each batch for barcode laser check-in. The check-in unit used the laser reader equipment and the six-pocket mechanical sorter to check-in and sort the horticultural receipts. The equipment sorted the documents into rejects (unable to read the barcode on the address label—pocket 1), horticultural receipts (pockets 2 and 4), PMR's (pocket 3), other trade areas (pocket 5), and machine failures (unable to sort-pocket 6). The staff resubmitted rejects and machine failures three times; if the documents remained unreadable by the equipment, the materials were returned to the opening and sorting unit and were checked in at wand/keyboard stations. This subunit used hand-held laser wand equipment to try to read visible barcodes, and, when this failed, checked in the specific receipts by keying the census file number (CFN) from the rejected case's address label directly to the check-in file.

After check-in, the horticultural receipts went to the open-and-sort unit, which referred all report forms with attached congressional correspondence to the Agriculture Division in Suitland for processing. Materials sent to the attention of a specific analyst (i.e., the analyst's name appears on the envelope, report form, or letter received with the form) were forwarded to that analyst; all other checked-in materials went to the agriculture processing unit for precomputer clerical editing.

Precomputer edit—The clerical edit staff received work units of report forms from the open-and-sort unit on a flow basis, in batches by type (i.e., either Form 88-A19.1, 1988 Census of Horticultural Specialties, or Form 88-A19.2, Commercial Horticulture Survey 1989). Clerks reviewed each report form, item by item, annotating the form as needed. During this edit, the clerks transcribed any entries

outside the prescribed location; annotated any line entry that was obscured or illegible; lined through such entries as "same," "all," or "ditto" when they referred to previous numeric entries; converted spelled-out entries to numeric (e.g., "five" to "5"); lined through any remarks they had processed; and wrote in any referral codes needed.

The clerks batched edited report forms without referral codes or attached correspondence by form type and State, prepared a Form A405 Batch Cover Sheet with the new batch number, date, State code, and CFN count, and sent the batches to the data keying unit for keying. Report forms with attached correspondence went to the correspondence unit; blank forms and forms with problem-referral codes were forwarded to agricultural analysts for resolution.

Data entry—The DPD staff used the interactive minicomputer systems and procedures similar to those employed for the general agriculture census to key the horticultural census data to the computer files. The data keying unit received the horticultural specialties census report forms and the NASS survey forms (batched separately), linkage documents, and other materials in work units by State and type of form. Keyers opened each plastic envelope and checked the Form A405, Batch Cover Sheet, and type of report forms before keying the batch. The keyers pulled any forms with problems that required correction during data entry, and held the rejected report forms aside until the entire batch was keyed, then referred them (as rejects) to their supervisors.

As with the regular census report forms, the staff used a series of input programs to key the data from the batch cover sheet and report forms, except that no geographic area code input programs were needed, and the smaller number of data sections on the horticultural forms required only 17 reported-data input programs. The horticultural census data-keying operation was subjected to the same quality control measures as the agriculture census operation, with each keyer's work sampled or 100-percent verified and with all identified errors corrected before the keyed data were entered into the data file. (For details of the census keying and quality control operations, see ch. 6.)

Once each batch had been keyed to disk and any identified errors had been corrected, the lead operator moved the data from the disk to magnetic "pooler" tapes—separate pooler tapes were used for the 1988 Census of Horticultural Specialties data and the NASS survey data—for transmission to the Suitland computer facility by telephone datalink. After Suitland verified receipt of the data from a given pooler tape transmission, the Jeffersonville staff erased the tape for reuse.

Interactive computer edit—The Bureau used the interactive minicomputer systems at Suitland for a detailed, item-by-item edit of the file, checking the consistency and reasonableness of the data, correcting obviously incorrect or inconsistent items, and imputing missing data based on

the records of similar operations in the same geographic area. The computer "flagged" any particularly large individual data entries, as well as any data items changed significantly by the edit, and the Agriculture Division analysts reviewed these items. The interactive edit allowed analysts to resolve all flagged items' problems and reedit the report in one operation. After the interactive edit, the records were ready for tabulation.

Tabulation—The Bureau tabulated the horticultural specialties census data using its table image processing system (TIPS II) software package, producing estimates for the United States and States in data tables. Agriculture Division analysts reviewed the tabulations as they were generated to check consistency and reasonableness compared with the 1987 census data. Any corrections needed were made to the data file before running the final tabulations.

Publication

The data from the horticultural specialties census were released in August 1991, in the *1987 Census of Agriculture*, Volume 4, *Census of Horticultural Specialties (1988)*. The horticultural report presented tabulations for calendar year 1988 for the United States and States, on number of establishments, value of sales of horticultural products, type of horticultural products, and kind of business, as well as measures of the response of establishments to the census. The data also were available on compact discread only memory (CD-ROM) and on flexible diskettes, and highlights of the report were released online through the Bureau's CENDATATM service.

1988 FARM AND RANCH IRRIGATION SURVEY

Introduction

Background information—The 1987 agriculture census showed that while some 14 percent of all farms in the United States were irrigated, those farms accounted for approximately 33 percent of the value of all agricultural products sold, and 51 percent of the value of all crops sold. Hence, information on agricultural irrigation was crucial to legislators and policymakers, economists and farmers, and planners and hydrologists concerned about the Nation's future supplies of both food and fresh water.

Scope and reference year—The 1988 Farm and Ranch Irrigation Survey (FRIS) supplemented the basic irrigation data collected from all farm and ranch operators in the 1987 agriculture census. The survey requested information about on-farm irrigation practices from a sample of 1987 agricultural operators who reported using irrigation on their land during the census year. The survey collected relatively detailed data, but limited the overall response burden for operators. The sample was drawn from farms and

ranches—excluding operators in Alaska, Hawaii, abnormal and horticultural specialty operations—reporting irrigation in the 48 conterminous States. The survey sample was designed to provide reliable estimates of irrigation practices for the 18 water resources areas (WRA's) of the 48 conterminous States, as well as for the 27 leading irrigating States.¹

The survey asked respondents to supply data on land use, irrigation and maintenance expenditures, and other inventory items for calendar year 1988, while irrigated and nonirrigated crops data were requested for the 1988 growing season.

Preparations

Sample design and selection—The 1988 FRIS sample was designed to provide reliable estimates for the United States, each of the 18 WRA's, the 27 leading irrigating States, and the 21 remaining, combined, conterminous States. It included with certainty all farms in a State with a minimum number of irrigated acres, as follows:

Minimum acres irrigated	States
5,000	Nevada
3,000	Arizona, California
2,500	Florida, Kansas, Mississippi
2,000	Arkansas, Colorado, Georgia, Idaho, Michigan, Texas
1,500	Missouri, Montana, Nebraska, Oklahoma, Oregon, Washington
1.000	All other States

In addition to these "certainty" farms, the staff selected a sample of all other eligible irrigated farms in the 48 conterminous States. The total eligible farms were stratified based on specific State, WRA, and number of irrigated acres. (The stratum assignment based on irrigated acreage differed from State to State.) Within each stratum, the farms were systematically sampled, with a higher sampling rate for larger irrigated farms. The "certainty" sample yielded 2,013 farms, while a total of 17,311 farms were selected from all other irrigation operations.

Report form—The Form 88-A62, 1988 Farm and Ranch Irrigation Survey, report form was a 17" x 21" sheet of white stock, folded to 17" x 10 1/2" to form four pages,

¹The WRA's for which data were collected, tabulated, and published corresponded essentially to the water resources regions (WRR's) defined in the past by the U.S. Water Resources Council. The areas differed somewhat from the WRR's because the WRA boundaries were drawn along county boundaries, while the WRR's were defined by topographic drainage characteristics. The 27 leading irrigating States were Arizona, Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wisconsin, and Wyoming. The reported acreages irrigated in these States ranged from over 7.6 million in California to 162,000 in North Dakota.

with printing in black ink and shaded with a green wash. The report form consisted of 16 sections, the first of which asked whether any land on the farm or ranch operated by the respondent had been irrigated in 1988, while section 16 asked for the name and telephone number of the person completing the form. The remaining 14 sections requested detailed data on the following:

Acreage in 1988

Land use and acres irrigated by category of land use

Acres and yields of irrigated and nonirrigated crops

Method of water distribution and acres irrigated by type of water distribution system

Irrigation frequency, and application of commercial fertilizers and pesticides in irrigation water

Acres irrigated and quantity of water used by source

Number of irrigation wells and pumps

Expenditures in 1988 for maintenance and repair of irrigation equipment and facilities

Investment in irrigation equipment, facilities, and land improvement

Purchase of energy for on-farm pumping of irrigation water²

Costs of water received from off-farm water suppliers Irrigation practices in 1988

Other uses of irrigation water

Water management practices for operators using gravity irrigation

Data Collection

General information—The 1988 FRIS was a mail enumeration, supplemented by telephone followup to selected nonrespondents. Report forms were mailed out in January 1989 to the sample of 19,862 addresses chosen from agricultural operations reporting irrigated acreage in the 1987 census. Four mail followups were carried out between the second week of February and the first week of May; the first and third mailings used letters requesting response, while the second and fourth consisted of report forms. In followup, clerks telephoned nonrespondents with large irrigated acreages (as reported in the 1987 census; these operations were the "certainty" cases included in the survey (see below)). The data collection effort was completed in June, after achieving a 77-percent response.

Mailout and mail followup—The printer shipped the irrigation survey report forms, followup letters, and other mail enumeration materials to Jeffersonville, IN, during

October and November 1988. The DPD staff printed the address labels using the computerized address file compiled by the headquarters office; then the clerical staff at the Jeffersonville office assembled the mailing packages there. The initial mailout consisted of the 88-A62 report form, an instruction sheet, a cover letter requesting prompt response, return envelope, and a brochure explaining the need for the irrigation data. The first and third followup mailings involved letters requesting response, while the second and fourth included the report forms and instruction sheets as well.

The Census Bureau prepared a computerized survey mail list after each mail response cutoff (usually about 5 days before the next mailout), and used this to produce adhesive address labels. The clerical staff at Jeffersonville attached the address labels to the mailing packages during the 3-to-5-day intervals between the followup response cutoff dates for each mailing, and the next mailout. The initial survey mailing and the four followup mailings were as follows:

Mailout Initial mailing	Type Report form	Date 01/13/89	Mailed 19,862
First followup	Letter	02/16/89	11,901
Second followup	Report form	03/14/89	9,264
Third followup	Letter	04/05/89	6,760
Fourth followup	Report	05/01/89	6,005

Telephone followup—Prior to the final followup mailing, the Agriculture Division listed all irrigation survey nonrespondent certainty cases—707 in all—for a special telephone followup operation. Clerks at Jeffersonville, IN, researched telephone numbers for the selected cases, and on May 11, began calling those operators still nonrespondent and continued until the end of June, by which time responses had been obtained from all referred cases. Since the certainty operations were all large-scale irrigators, failure to obtain information on their operations could have significantly biased the irrigation estimates.

Results—The 1988 FRIS obtained an overall response rate of approximately 77 percent (including approximately 1,000 PMR's and unprocessable (i.e., blank, illegible, refusals, and so on) cases), with 13,850 report forms completed (including reports from 444 farms that discontinued irrigation between the 1987 census and the 1988 irrigation survey). Operators reported over 11 million acres irrigated. Statistical expansion of these numbers produced national estimates of some 238,710 irrigators in the conterminous United States, with over 46 million acres of irrigated land.

Data Processing

Receipt and check-in—Report forms and PMR's were checked in at the wand/keyboard stations instead of the

²Water may to applied to crops to prevent freeze damage (as is frequently done with citrus), crop cooling to prevent early budding or blooming, for leaching to remove salts, etc.

six-pocket mechanical sorter, due to the absence of windows in the return envelopes used for the survey. The return envelopes were slit open and the report forms removed for check-in. Report forms with attached congressional correspondence were sent to Agriculture Division in Suitland for processing; materials sent to the attention of a specific analyst (i.e., the analyst's name appeared on the envelope, report form, or letter received with the form) were forwarded to that analyst; all other checked-in materials went to the agriculture processing unit for precomputer clerical editing.

Precomputer edit—The clerical edit staff received work units of FRIS report forms from the open-and-sort unit on a flow basis, in batches of 50-100. Clerks reviewed each one, item by item, annotating as needed, and forwarded the edited forms to the next processing unit. Edited forms without referral codes or attached correspondence were batched by form type and State and sent to the data keying unit for keying. Forms with attached correspondence went to the correspondence unit; blank forms and those with problem referral codes were forwarded to agricultural analysts for resolution.

Data entry—The DPD staff used interactive minicomputer systems and procedures similar to those employed for the horticultural census to key the FRIS data to the computer files. The data keying unit received the report forms batched by State, linkage documents, and other materials and used a series of input programs to key the data from the batch cover sheet and report forms (see ch. 6 for details of data keying operations), including (for the FRIS) geographic area code input programs. The FRIS data keying operation was subjected to the same quality control measures as the agriculture census operation, with each keyer's work subject to sample or 100-percent verification. All errors were corrected before the keved data were entered into the data file, edited and corrected again, and moved from the disk to magnetic "pooler" tapes for transmission to the Suitland computer facility by telephone datalink.

Computer edit—The data from each report form were processed through a detailed computer edit at the Suitland facility. The edit imputed missing data and made adjustments to totals based on similar-size farms in the same geographic area. The edit "flagged" large entries, as well as any item changed significantly by the edit itself, for review by Agriculture Division statisticians. After review and approval of any such changes, the record was reedited prior to being merged with the final data file. Every record had to pass the computer edit, with any changes or adjustments made by analysts or by the edit itself, before it could be added to the irrigation survey data file.

Tabulation—The Bureau tabulated the FRIS data using the TIPS II software package. The tabulation program produced detailed estimates for the United States of

irrigation data from farm operators who reported irrigated land in the 1987 census and in the 1988 survey. Agriculture Division analysts reviewed the tabulations as they were produced to check consistency and reasonableness compared with the 1987 census data. Any corrections needed were made to the data file before running the final tabulations.

Publication

The data appeared in May 1990 in the *1987 Census of Agriculture*, Volume 3, *Related Surveys*, Part 1, *Farm and Ranch Irrigation Survey (1988)*. The printed report presented summary irrigation data for all States, with detailed tabulations for the 27 leading irrigation States and for the 18 water resources areas. The tables showed data for calendar 1988 on acreage irrigated, crops, method of water distribution used in 1988, source of water used, energy use, and irrigation practices. The data also were released on CD-ROM and flexible diskette, and highlights of the report were released online through the Bureau's CENDATATM service.

1988 AGRICULTURAL ECONOMICS AND LAND OWNERSHIP SURVEY

Introduction

General information—The 1988 Agricultural Economics and Land Ownership Survey (AELOS) was an integrated survey of farm economics and land ownership. The agriculture censuses have collected information on certain types of farm financial practices since the first agriculture census in 1840, but the principal data requested in most censuses was the value of farm land and of sales of agricultural products. The 1880 census asked for and published data on land ownership characteristics and farm tenure, and in the 1890 enumeration, data were collected on farm mortgage debt.

The 1959 Census of Agriculture included the first of a series of special followon surveys that used samples drawn from the agriculture census lists to collect selected data on farm finances. The 1969 agriculture census program included the 1970 Survey of Agricultural Finance, which expanded the kinds of data requested to include land in farms, value of land and buildings, rents, capital and operating expenditures, credit used for purchasing specified items for farm use, outstanding debt by kind and source, value of agricultural products sold, construction of farm buildings and structures, and off-farm income. A decade later the 1979 Farm Finance Survey expanded inquiries further, to include questions on production contracts, farm-related income and expenses, land acquired and date of purchase, the operator's educational and household characteristics, and so on. The survey requested all these data from farm operators, and additional data from landlords on land ownership, sales of agricultural land, participation in management decisions, and type of ownership.

Scope and reference year—The 1988 AELOS covered all 50 States and requested data from farm operators and landlords on agricultural land ownership, income and expenses from farm-related sources, assets, value of land and buildings, sales of land, participation in management decisions (by landlords), and type of ownership. The data were collected in 1989 for calendar year 1988.

Preparations

Sample design and selection—The 1988 AELOS was designed to collect data on land ownership and the economic characteristics of farm operations from landowners and farm operators. The survey used a sample of farm operators and landlords, excluding horticultural specialty operations and abnormal farms. (These excluded operations represented 2 percent of the over 2 million farm operators who responded to the 1987 census.) The AELOS report forms included most of the financial items requested in the earlier farm finance surveys, as well as additional items on land ownership, how land was purchased, type of ownership, acreage acquired or sold for specified years, and on landlords who operated farms as well as landlords who did not. For Census Bureau purposes, a "landlord" was an individual, partnership, or entity that controlled land rented, leased, or used rent-free by a farm operating unit. The number of landlords was not a measure of landholders, but a count of the number of leases or rental arrangements made by farm operating units. "Owners," on the other hand, were individuals, partnerships, corporations, or other entities that owned land used for agricultural purposes (excluding Federal and State agencies, railroad companies, Indian reservations, and abnormal farms). Owners were classified either as owner-operators or nonoperator-owners, based on whether they operated any of the land they owned.

The survey employed a sample of approximately 48,000 names and addresses of farm operators selected from the 1987 agriculture census for all 50 States, excluding horticultural specialty operations and abnormal farms. The survey was designed to provide reliable State-level estimates (i.e., with an average relative error of 15 percent or less) of land ownership and various economic characteristics of farm operations. The sample included approximately 500 certainty cases, and a sample of all other farms. Certainty status depended on value of sales of agricultural products during the census year and varied from State to State, as follows:

Tom State to State, as Tomowe.			
Total value of sales \$500,000 or more	State Alaska		
\$1,000,000 or more	New Hampshire, Rhode Island, Vermont		
\$10,000,000 or more	Hawaii, Idaho, Indiana, Massa- chusetts, New Mexico, North Carolina, Oklahoma, Oregon, Washington		

Total value of sales	State
\$20,000,000 or more	Arizona, California, Colorado, Florida, Kansas, Nebraska
\$30,000,000 or more	Texas
\$5,000,000 or more	All other States

The agency stratified the list of all other farms by State, tenure of the operator, and value of agricultural sales, then systematically sampled farm operators from each stratum. Part owners and tenant operators, and farms with larger volumes of sales received a higher probability of selection. The mail list for landlords comprised names and addresses reported as landlords by responding farm operators, except for public landlords (i.e., Federal or State governmental units, railroad companies, and Indian reservations). The Bureau mailed report forms to more than 47,000 landlords identified by AELOS operator respondents.

Pretest—Time and cost constraints prevented carrying out a full scale content pretest of the proposed operator and landlord report forms, so the Agriculture Division staff conducted a series of studies of the report forms with farmers in Pennsylvania, Kentucky, Iowa, Wyoming, and California. (These five States were selected because they represented a fairly wide range of kinds of farming, and relative geographic dispersion.) Three to five meetings were held in each State, each with 10 to 15 farm operators and landlords. During the meetings, participants completed the report forms, then filled out an evaluation report for each section of the survey form, together with their impressions of the level of difficulty of the forms, e.g., whether respondents could provide the data requested through estimates and/or records, and any other comments or suggestions they might have. This was followed by a question-and-answer session with the Agriculture Division staff.3

After each meeting, the Agriculture Division analysts in attendance met to discuss and evaluate the results. The group participants found the general content and wording of the report forms acceptable, although they suggested minor rewording of some of the instructions, and modifications to the sequence in which some questions were asked.

Report forms—The AELOS used two report forms, the Form 88-A9A, Operator's Report, and the Form 88-A9B, Landlord's Report.

The form 88-A9A was a sheet of white stock 14" x 27" folded to 14" x 10 1/2", with six numbered pages (pages 4 and 5 were "half-page" size, measuring 14" x 5 1/2").

³The National Young Farmers, part of the Farm Bureau Federation, helped in making the necessary arrangements for the focus group meetings and contacting farm operators and others to participate in the activities.

Printing was in black ink, with a pink wash used for shading. The form had 14 numbered sections, with sections 3 (expenditures and expenses) and 10 (assets) divided into parts "A" and "B." (Subsections 3A and 3B requested data on purchases and expenditures during 1988 for the agricultural operation, and agricultural operating expenditures and other purchases during 1988, respectively, while sections 10A and 10B asked for household and business assets, respectively.) The operator's report served not only to collect specified data on the farm operation and economic situation of the particular operation, but also to identify any landlord for separate contact and enumeration.

The form 88-A9B used white stock, 14" x 21", folded to 14" x 10 1/2", with four numbered pages, and with printing in black ink and shading in a blue wash. The landlord's form had 12 numbered sections, with sections 2 (expenditures) and 10 (characteristics of the landlord) divided into parts "A" and "B" as well. (Subsections 2A and 2B asked for data on purchases and expenditures during 1988 and operating expenses and other purchases, respectively; while 10A and 10B requested information on characteristics and occupation of the landlord, and corporate landlords.)

Each of these report forms requested basic data on the identification and characteristics of the operator or landlord, acreage and current market value of the land and buildings owned or operated by the respondent, purchases and expenditures for agricultural operations and other expenses during the reference year, debt as of the end of 1988, and the real estate taxes paid on, and assessed value of, the land owned or operated by the respondent. In addition, each report form requested specific data from the respective types of respondents, as follows:

88-A9A Operator's Report

Agricultural land ownership and mailing address of any landlords

Market value of agricultural products sold in 1988

Income and expenses from other farm-related sources

Net cash farm income of partner ships

Business and household assets

Off-farm income and household size

Off-farm work and education (of operator and spouse)

88-A9B Landlord's Report

Assets owned by landlord

Participation in management (i.e., landlord only, tenant only, or joint) for farm land report

Net cash income

Type of ownership (i.e, sole, husband/ wife, family partnership, etc.)

Corporation landlords (including whether involved in other agriculture-related activities)

Total business receipts (farm related, and proportion of total receipts from all sources from sales of agricultural products and/or rental income from all agricultural lands owned and/or operated

Data Collection

General information—The 1988 AELOS was carried out by mail. The first mailout was in January 1989, to farm operators selected from the 1987 census respondent files. Each mailing package consisted of a report form, an instruction sheet, a cover letter explaining the objective of the survey and requesting prompt response, and a return envelope. The Bureau mailed a thank you/reminder card to all addresses on the initial survey list on January 27, 1989, plus four mail followups to nonrespondents at approximately 4-week intervals. The mailouts used third-class postage, except for the fourth and final followup, which employed certified delivery. (Using certified mail increased response by approximately 10 percent.)

The Bureau began compiling the landlords' mailing list as soon as responses began to arrive from operator respondents; time constraints did not allow the agency to wait until it completed the farm operator data collection before it began collecting data from landlords. Consequently, the landlords' mail list was compiled in four "waves," each "wave" consisting of the landlords identified by operators responding before a specified cutoff date. All landlord mailouts used third-class postage.

Mailout and mail followup—The details of the mailings to operators were as follows:

Mailout	Туре	Date	Mailed
Initial mailout	Report form	01/05- 06/89	45,006
Thank you/ reminder card	Card	01/27/89	45,006
First followup	Report form	02/14/89	34,448
Second followup	Report form	03/13/89	20,245
Third followup	Report form	04/10/89	16,758
Fourth followup (certified mail)	Report form	05/08- 09/89	15,055

The first two "waves" of landlords received an initial mailing consisting of a report form, cover letter, instruction sheet, and return envelope, followed by a thank you/reminder card mailing, and three followup mailings to nonrespondents, each including a report form. Wave 3 got the initial mailing, a thank you/reminder card mailing, and two mail followups. Landlords in the fourth "wave," because of time constraints, received only the initial mailing and a single report form followup. The details of the landlord mailings were as follows:

Mailout WAVE 1	Туре	Date	Mailed
Initial mailout	Report form	03/21/89	10,207
Thank you/ reminder card	Card	04/04/89	10,207
First followup	Report form	04/26/89	4,129
Second followup	Report form	05/24/89	2,814
Third followup	Report form	06/16/89	2,202
WAVE 2 Initial mailout	Report form	04/20-24/89	19,366
Thank you/ reminder card	Card	05/12/89	19,366
First followup	Report form	05/26/89	10,044
Second followup	Report form	06/22/89	6,688
Third followup	Report form	07/24/89	4,891
WAVE 3 Initial mailout	Report	06/12/89	7,453
miliai manout	form	06/12/69	7,455
Thank you/ reminder card	Card	06/28/89	7,453
First followup	Report form	07/15/89	3,933
Second followup	Report form	08/09/89	2,598
WAVE 4	_		
Initial mailout	Report form	07/11/89	7,483
First followup	Report form	08/04/89	4,868

The fifth "wave" of 1,281 landlord cases was compiled, but again, time constraints prevented additional mail or telephone data collection, and the Agriculture Division staff imputed data for these cases based on information from landlords in the same geographic area.

Results—The AELOS achieved a final operator response rate of approximately 82 percent, with 35,684 report forms completed (including 3,148 operators who were no longer farming in 1988). Farm operators reported over 47,000 landlords, but only 44,038 were mailed report forms (the remaining landlords were identified as "public" landlords (e.g., Federal or State agencies), railroad companies,

Indian reservations, and hence excluded from the survey). The actual response rate for landlords achieved was 78 percent.

Data Processing

Receipt and check-in—The AELOS report forms were checked in using procedures similar to those employed for the FRIS—i.e., the return envelopes had to be opened and the report forms checked in at the wand/keyboard stations. After check-in, report forms with attached congressional correspondence were referred to the Agriculture Division in Suitland for processing; materials sent to the attention of a specific analyst (i.e., the analyst's name appears on the envelope, report form, or letter received with the form) were forwarded to that analyst; and all other checked-in materials went to the agriculture processing unit for precomputer clerical editing.

Precomputer edit-Clerks at the Jeffersonville office reviewed each AELOS report form before sending it for data keying. Forms from "large" operations, i.e., those operations with reported value of sales of agricultural products meeting or exceeding specified limits (\$500,000 in most States, but higher in some Western States), as well as any forms with pertinent remarks that could not be readily coded, were referred to agricultural analysts for review and resolution. The clerks checked each form to ensure the legibility and completeness of entries, corrected obvious errors, changed alphabetic responses to numeric (e.g., changed "five" to "5"), coded the forms for respondents who refused to answer the debt inquiries (this enabled the computer edit program to impute responses for these items), and identified any respondents reporting off-farm work. The DPD staff coded the report forms for respondents reporting off-farm work, using the Bureau's 1980 census industrial and occupational classification system.

Clerks reviewed the return from each landlord reporting as operating a farm or ranch in 1988 and compared the name and address to the 1987 agriculture census mail file. The entry for any landlord not found in the 1987 file, or found to have been identified as a "nonoperator" in the census file, was deleted from the AELOS data file.

After each report form had been reviewed, and all changes and required codes made, the clerks referred them to the batching unit for grouping into batches of about 50 cases each, by State and type of form, before data keying. The batching unit clerks checked each report form to determine whether it was for an operator or landlord. They batched any landlord forms first, and referred them to the Data Systems Branch for updating the landlord mail file. After being returned to the batching unit, the batches, with a Form 87-A405, Batch Header Sheet attached, were referred for data keying.

Data entry—The DPD staff used interactive minicomputer systems and procedures similar to those employed for entering the AELOS data to the computer files. The data

keying unit received the AELOS report forms batched separately by State and type (i.e., whether operator or landlord), linkage documents, and other materials. The keyers used a series of input programs to key the data from the batch cover sheet and report forms (see ch. 6 for details of data keying operations). The AELOS data keying operation was subjected to the same quality control measures as the agriculture census operation, with each keyer's work subject to sample or 100-percent verification. and with all errors corrected before the keyed data were entered into the data file.

Once each batch had been keyed to disk and all errors corrected, the keyer moved the records from the disk to magnetic "pooler" tapes for transmission to the Suitland computer facility by telephone data link. After Suitland verified the receipt of the data from a given pooler tape transmission, the Jeffersonville staff erased the tape for reuse.

Computer edit—At Suitland, the staff used the mainframe computer for a detailed, item-by-item edit of the file, checking the consistency and reasonableness of the data, correcting obviously incorrect or inconsistent items, and imputing missing data based on the records of similar operations in the same geographic area. The computer compared key items from the AELOS records with the 1987 agriculture census to confirm accuracy and reasonableness. The computer edit also reconciled data reported by operators and their landlord(s). The reconciliation checks covered only the data items common to both-i.e., acres rented, assigned value of land and buildings, assets, and expenses.

The computer edit also included a matching operation to identify for manual coding duplicate landlord data (since landlords who rented land to more than one operator could be counted more than once in the data on land ownership) and grouped the records for all landlords with similar name codes with the same five-digit ZIP Code area. Any landlord found more than once on the landlord list for each area was identified as a multiple report. The data from multiple landlords were tabulated only once for land ownership.

Tabulation—The AELOS data were tabulated using the TIPS II software package. The tabulation program produced estimates for the United States, regions, divisions, and States in 113 data tables. Agriculture Division analysts reviewed the tabulations as they were produced to check consistency and reasonableness compared with the 1987 census data. Any corrections needed were made to the data file before running the final tabulations.

The estimates produced were not absolute totals for calendar 1988, but were based on the 1987 census universe, less the horticultural specialty and abnormal farm operations.

Publication

AELOS data were released in August 1990, in the 1987 Census of Agriculture, Volume 3, Related Surveys, Part 2, Agricultural Economics and Land Ownership Survey (1988). The printed report presented economic and land ownership data for the United States and States on farmland owned and leased, land use, amount and source of debt, production contracts, taxes, assets, off-farm income, and, for landlords, type of ownership and ownership characteristics, as well as measures of the statistical reliability of the data. The data also were released on computer tape and online.

CONTENTS

Chapter 10. Coverage Evaluation and Research

	Page
4007 Cavarage Fredrick and Decemb	404
1987 Coverage Evaluation and Research	
Introduction	
Background and objectives	
General procedures	
Sample Survey Designs and Methodologies	104
1987 June Enumerative Survey (JES)	
1987 Classification Error Study (CES)	
Data collection	
Processing	
JES file processing	
CES processing	
Estimation Procedures	
Results and Publication	105
1987 Advertising Awareness and Response Behavior Study	106
Introduction	
Scope and objectives	106
Sample design and selection	106
Questionnaire content	106
Telephone Operations	
Results	
Classification Tree Methodology Evaluation	107
General Information	
The Evaluation Methodology	
General procedures	
Measures of association	
Evaluation by farm frequencies	
Survey data	
Evaluation Results	
Disclosure Avoidance Research Study	
General Information	
Research	108

1987 COVERAGE EVALUATION

Introduction

Background and objectives—The Census Bureau first carried out a coverage evaluation of the agriculture census in 1945, and first released the results of such a study as part of the 1950 census publication program. Since then, the Bureau has routinely evaluated each agriculture census for the accuracy and completeness of the published farm count, and for coverage of selected data items, such as land in farms, total value of agricultural products sold, and so on. The basic methodology used has remained largely unchanged—an area and list sample survey—although methods and sample designs have been refined and improved with each census.

The primary objectives of the 1987 Census of Agriculture coverage evaluation program were to provide—

- State estimates of the number of farms not on the mail list
- Regional estimates of the number of farm operators incorrectly classified and duplicate farms
- Divisional estimates of selected agricultural characteristics of undercounted farms

The 1987 coverage evaluation program estimated that 242,853 farms were not on the census mail list; 54,080 farms were omitted from the census tabulations due to incorrect classification as nonfarms; 72,310 nonfarms were counted as farms; and 63,290 farms returned more than one census report form.

General procedures—The 1987 coverage evaluation program used U.S. Department of Agriculture's (USDA's) National Agricultural Statistics Service's (NASS's) 1987 June Enumerative Survey (JES) and the 1987 Classification Error Survey (CES—part of the 1987 agriculture census program) for developing its coverage estimates. The JES is an annual national area sample survey designed to measure planted acreage of crops and numbers of livestock by State. NASS conducted the JES, and the Census Bureau used the 1987 JES data to estimate the number and characteristics of farms not on the census mail list. The 1987 CES data were used to estimate the number of misclassified farms (i.e., farms incorrectly classified as nonfarms, and nonfarms as farms) and duplicate farms in the census.

The JES was a field canvass of selected area segments, and the area segment records then were matched to the census mail list. Matched and nonmatched addresses were mailed census report forms, the matched ones as part of the regular census and the nonmatched cases as additional census mailings. The resulting data were used to compute the "not on the mail list" estimates. The 1987 CES used mail enumeration, with followup by telephone to

nonrespondents. The survey farm status (i.e., farm or nonfarm) was compared to the census farm status to determine whether a given sample farm had been correctly classified in the census. The results of the survey operations were processed, tabulated, analyzed, and published.

Sample Survey Designs and Methodologies

1987 June Enumerative Survey (JES)—The USDA's National Agriculture Statistics Service (NASS) conducted the June Enumerative Survey (JES) annually to measure planted acreage of crops and numbers of livestock. The NASS area sample frame consisted of land parcels of predetermined size, with easily identifiable boundaries. All land in each State was stratified based on land use, such as intense cultivation, urban areas, range land, and so on. Cultivated land was divided into several strata based on the degree of cultivation throughout the State. Primary sampling units (PSU's) were land parcels selected within each land use stratum. Each PSU was divided into several ultimate sampling units, or segments. PSU size varied, but typically included six to eight segments, each with an average of three farms.

The JES used a two-stage probability area sample of farm operations. In the first stage, the survey selected PSU's with probability of selection proportional to the number of segments within each PSU of each land-use stratum. In the second phase of the JES, a segment was selected with equal probability from each PSU for enumeration. Each distinct farm operation within a segment was defined as a tract. Any land area within a segment that contained one or more occupied dwellings was designated a residential tract. To increase the reliability of the estimates of farms not on the census mail list, the NASS retained in the sample for the 1987 JES the 20 percent of the agricultural-urban segments that normally would have rotated off the sample in 1987. At the Census Bureau's request, NASS also instituted more stringent screening procedures for residential tracts, requiring its field interview staff to list all houses in each segment and to inquire whether any household members or neighbors were involved in agricultural operations.

1987 Classification Error Study (CES)—The 1987 CES was designed to measure the number of farms on the census mail list that were incorrectly classified or were erroneously duplicated. The Bureau staff drew a systematic sample, stratified by geographic region, from the initial census mail list (4.1 million addresses), excluding addresses (1) in Alaska and Hawaii, (2) with \$500,000 or more expected annual total value of sales of agricultural products, (3) representing abnormal or multiunit operations, and (4) representing JES nonmatch records. The CES sampling rate varied by census geographic region (see ch. 5 for a description of the census divisions and regions), as follows:

Region	Sample rate
Northeast	1 in 71
Midwest	1 in 500
South	1 in 176
West	1 in 227

Approximately 18,500 names and addresses were selected, with sufficient numbers in each region to provide acceptable regional-level error estimates. At specified cutoff dates, the Bureau obtained the report form check-in status for the CES sample addresses, using the CES evaluation code set in the census data base at the time of the initial sample selection.

Data collection—NASS collected the data for the 1987 JES by field canvass of each segment in June 1987. The Census Bureau received the JES data files containing names, addresses, and agricultural data on all area-segment residents involved in any agricultural activity. It matched this file to the census mail list development file. All JES records not on the census mail list were assigned a special processing code for identification and were added to the census mail file.

The 1987 CES was a mail and telephone enumeration. Form 87-A90, Evaluation of the 1987 Census of Agriculture, report forms was mailed to CES sample addresses in two waves (according to the date of response), the first in March, and the second in July 1988. The mailouts went to 15,331 sample survey cases that had responded to the census, with a reminder card followup 14 days after the initial mailout, and a second report form 14 days after the card. Six weeks after the first CES mailing for each wave, the Bureau referred nonrespondent cases (approximately 4,200) to the Data Preparation Division's (DPD's) telephone unit in Jeffersonville, IN, which carried out a telephone followup between the second week of June and the end of September 1988.

Processing

JES file processing—Processing clerks identified and reviewed area segment survey records using both census and JES data, such as the type of crops, livestock, total value of sales of agricultural products, and land use, to determine whether a JES case that did not respond to the census qualified as a farm under the census definition, and to resolve cases in which JES and census farm status differed. The clerks added a coverage classification code to each record to specify the farm status (i.e., farm or nonfarm) and the final match status of the survey record to the census mail list (match or nonmatch). Both the match and nonmatch records were retained in the sample for deriving estimates of farms not on the mail list.

The Jeffersonville staff keyed the JES data to a computer file, which then was edited using the interactive minicomputer system, and reviewed for consistency and accuracy prior to tabulation. The Bureau used the JES

nonmatch records to estimate the total number and selected characteristics of farms not on the census mail list for States, divisions, regions, and the United States.

CES processing—The Jeffersonville clerical staff edited the CES sample forms for consistency and accuracy, then carried out a separate technical review to classify agricultural operations as farms or nonfarms. The processing clerks compared the CES data and farm status to the census data and farm status, and assigned coverage classification codes that identified farm operations and match/nonmatch status between each record's CES farm status and census farm status. The data then were keyed to tape and transmitted to the Suitland facility for computer editing and tabulation.

Estimation Procedures

The Bureau used the final data file from the CES in conjunction with JES data to produce regional and U.S. net coverage-error and classification-error estimates for the census itself. The estimated true total number of farms in the United States is the census published farm count minus the number of overcounted farms plus the number of undercounted farms. The coverage evaluation provided estimates of (1) undercounted farms (farms not on the mail list and farms incorrectly classified as nonfarms); and (2) overcounted farms (nonfarms incorrectly classified as farms, and duplicates). In these estimates, the Bureau used a model that consolidated estimates from two enumerations-in this case, NASS's 1987 JES and the 1988 CES-to estimate a true total. The model assumed that (1) both the census and the JES attempted to enumerate accurately the complete universe of farms, and that farms reported on either source list were true farms; (2) the event of being included in the census was independent of the event of being included in the survey; (3) the probability of being missed by either the census or the survey was the same for all farms within a given size category; and (4) every farm in the complete universe of farms had, independently of every other farm, the same chance of being listed in the census and, independently again, of being listed in the JES. (For details of the estimation methodology, see the 1987 Census of Agriculture, Volume 2, Subject Series, Part 2, Coverage Evaluation.)

The statistical model and the data from the JES and CES then were used to estimate the undercount and the overcount. The coverage evaluation produced State-level estimates of the number and characteristics of farms not on the mail list, and region-level classification-error estimates for the number of incorrectly classified and duplicate farms.

Results and Publication

The 1987 coverage evaluation program estimated the net farm coverage undercount (including classification error) to be 7.2 percent (plus or minus 0.5 percent), with a

resulting census coverage of 92.8 percent. Estimated total undercount was 13.2 percent, with an overcount of 6.0 percent (both plus or minus 0.5 percent). The undercount and the overcount both were highest for small farms—the estimated undercount was 32.3 percent for farms with annual sales of \$2,500 or less, and 27.9 percent for farms with less than 50 acres—while livestock specialty operations tended to have a higher undercount than other farms, and general crops operations a slightly higher overcount than other operations.

The State-level estimates of the number and characteristics of farms not on the mail list appeared in the Volume 1, *Geographic Area Series* report for each State. The State-level estimates for farms not on the mail list, as well as the classification error estimates, were released in a printed report, the *1987 Census of Agriculture*, Volume 2, *Subject Series*, Part 2, *Coverage Evaluation*. The publication included text describing the coverage evaluation program; charts and tables showing estimates for the United States and regions of census farm coverage; farms by selected characteristics and components of coverage; selected items for undercounted farms; and both land in farms and value of agricultural products sold, by sales group and components of coverage.

1987 ADVERTISING AWARENESS AND RESPONSE BEHAVIOR STUDY

Introduction

Scope and objectives—The success or failure of the agriculture, or any other, census, depends entirely on the degree of cooperation and response from the individual operators. Consequently, the Census Bureau was interested in identifying the factors that affect census response. It planned and carried out the 1987 Census of Agriculture Advertising Awareness and Response Behavior Survey (ARBS) to help identify the various events, opinions, knowledge, or other factors, that influenced census response.

The 1987 ARBS was a telephone survey of a sample of agricultural operations drawn from the 1987 Census of Agriculture mail list. Staff contacted operators in the sample by telephone and interviewed them about their awareness of the census, exposure to the agriculture public information campaign, opinions on Federal and local government use of census data, ability to complete the census form, intentions to respond, and so on.

The Bureau used the results of the survey and analysis for internal planning purposes and did not publish a formal report.

Sample design and selection—The ARBS sample consisted of a control and four sample panels, selected during the final stage of mail list development. The sample design excluded all addresses of operations with expected annual sales of agricultural products of \$500,000 or more, multiunits, specialty operations (i.e., known horticultural or

other specialty operations), abnormal, and all addresses in Alaska and Hawaii. These places were excluded because the Bureau employed different data collection procedures for them. The Agriculture Division staff selected national samples of approximately 1,900 addresses each for panels 1, 3, and 4, and 7,600 addresses for a regionally stratified panel 2. The sample size was determined by the requirement that the research staff be able to compare respondents and nonrespondents within each panel, between panels, and between regions for panel 2. Each panel was designed to examine the effectiveness of different publicity campaigns and followup procedures by different data collection activities throughout the census.

Questionnaire content—The ARBS report forms were designed to be completed in a 10-minute telephone interview. Each form contained three parts; parts A and C were essentially identical, while part B differed slightly for each panel, to collect specific information to assess the respondent's awareness of the census at four specific points in the data collection process.

Part A requested information to (1) confirm the identity of the respondent and that he or she operated a farm, (2) assess the interviewee's awareness of the agriculture census from various media, and (3) determine whether the interviewee knew census response was mandatory. Part B asked for information on (1) the respondent's knowledge of when the next census would be conducted (all panels) and of the due date for census response (panels 2, 3, and 4); (2) whether the respondent had received the initial and subsequent mailings (panels 2, 3, and 4); (3) the interviewee's response to the mailings (i.e., whether he or she opened the envelope, read the letter, used the information sheet, filled out or started to fill out the report form, and so on) (panels 2, 3, and 4); and (4) the respondent's impression of the length of the census form and the time required to fill it out. Part C of each form was designed to obtain the respondent's views and beliefs about the agriculture census program and the uses of the census data, and to determine his or her level of education and age range.

Telephone Operations

The Bureau initially used its computer assisted telephone interviewing (CATI) facility in Hagerstown, MD, for panel-1 calls. The much larger sample size of panel 2, combined with other commitments for the CATI operation, led the agency to shift the telephone operation to the telephone unit at the DPD office in Jeffersonville, IN.

After sample selection, the names and addresses for each panel were referred to telephone number research units (first at Hagerstown, for panel 1, and at Jeffersonville for the other three panels). The CATI staff telephoned panel-1 cases during the first 3 weeks of December 1987, before the mailout for the agriculture census. Panel-2 telephone calls were made by Jeffersonville staff through January 1988, after the initial census mailing but before the reminder/thank you card was received; panel-3 cases

were called in March, after the reminder/thank you card and first followup packages had been mailed. The telephone interviewers contacted panel-4 cases in the last week of May, by which time the Bureau had mailed the initial census report forms, the reminder/thank you card, and five nonrespondent followups.

Results

The Agriculture Division's Research and Methods Branch designed the ARBS to measure the effectiveness of the public awareness campaign and followup procedures, and to enable analysts to make comparisons between the samples and between census respondents and nonrespondents. After completing the telephone interview operation in May 1988, Agriculture Division tabulated and analyzed the data from respondents.

Individuals most frequently reported that the source of media exposure that informed them of the census were agricultural organization meetings and other sources, such as previous censuses, posters in stores or post offices, flyers received in the mail, co-workers, colleagues, and so on. The exposure to the census campaign also appeared to have an effect on the survey respondents' knowledge, attitude, and opinions. Higher knowledge, attitude, and opinion scores were consistently observed from sample respondents who had been exposed to the publicity materials, than from those who had not received any information about the census. This was true also in comparing census respondents and nonrespondents: respondents had better knowledge of the census, and more favorable attitudes and opinions toward the census, than did nonrespondents.

The study also showed that the later sample (panel 4) and the nonrespondent sample appeared to (1) need more time to complete the form, (2) feel that the census report form was too long, and (3) not know the census response due date.

The ARBS data suggested that the public awareness campaign and followup activities—when considered as one continuing activity throughout the census period—appeared to have a positive effect on improving the public's knowledge and opinion about the agriculture census. Evaluation of the ARBS data also indicated certain aspects of the publicity and followup procedures that needed to be improved for future censuses.

CLASSIFICATION TREE METHODOLOGY EVALUATION

General Information

The Census Bureau used a binary classification tree procedure (see ch. 3) for statistical modeling to group 1987 preliminary mail list addresses according to their likelihood of being farms. The addresses identified as less likely to be

farms were excluded from the 1987 mailout. The Agriculture Division staff evaluated the technique's effectiveness. Data for the evaluation were drawn from three sources: (1) results from the use of the methodology (i.e., the proportion of farms in the model group), (2) observed responses to the 1987 census, and (3) observed responses to an independent survey of addresses removed from the census mail list

The Evaluation Methodology

General procedures—The classification tree methodology evaluation, carried out following census data collection and processing, consisted of comparing *expected* farm proportions and frequencies computed during the application of the methodology with the *observed* farm proportions and frequencies for both agriculture census records and the specific records excluded from the census mail list by the application. The evaluation was done in three phases, using (1) measures of statistical association, (2) expected and observed farm frequencies, and (3) an evaluation of data obtained from the survey of addresses removed from the mail list.

Measures of association—The first phase of the evaluation involved partitioning the data file by ranges of expected farm proportions and by observed farm/nonfarm status, and the creation of two row-and-column contingency tables for use in analyzing the accuracy of the classification tree procedure. For both tables, the Bureau used observed farm status in the 1987 census to create row classes, while the column categories were based on the expected proportion of farms. The measures of association enabled the Bureau to determine if the observed census farm status was correlated with the expected farm proportion. The agency used the likelihood of an address being mailed one of the form types (short or regular) to establish categories-one for groups of addresses considered to have more than 11.7 percent, but less than 43.22 percent farms, and the second for the group of addresses considered likely to have over 43.22 percent farms. During the statistical modeling used in the compilation of the census mail list, groups of addresses considered to include 11.7 percent or fewer farms were deleted from the list. Groups of addresses believed to include more than 11.7 percent, but less than 43.22 percent, farms were added to the mail list for the short form, while groups believed to include more than 43.22 percent farms were included in the regular census report form mailings.

Evaluation by farm frequencies—In the second phase, the data used for the evaluation were the expected and observed farm frequency counts from 1,839 of the 2,184 statistical model groups created by the classification tree methodology in its application to the census mail file. (There were no observed farms for 345 of the classification tree model groups, so those groups had to be dropped from the evaluation.) To be able to compare the frequency

counts, the expected frequency counts were calculated by multiplying the observed number of 1987 respondents in a model group by the group's expected farm proportion. By comparing the expected and observed farm frequencies for the model groups, the evaluation staff could assess any differences or similarities in expected and observed farm frequency distribution, which would indicate if the expected and observed farm proportions differed.

Survey data—The third phase of the program employed data obtained from the Model Drop Survey, conducted in dropped the summer of 1988. Approximately 5,300 addresses that had been deleted (dropped) from the census mail list as a result of the classification tree methodology were canvassed by mail to determine their farm status. The records selected for the survey, and responses obtained, were assigned to five strata based on

- 1. Source list (strata A-C)
- 2. Cases identified by the classification tree methodology but not included in strata A-C (stratum D)
- Those subjectively excluded from the mail list by Agriculture Division personnel because they believed these records were unlikely to represent farms (stratum E).

For evaluation purposes, the records in each stratum also were assigned to three categories based on expected proportion of farms assigned to them by the classification tree methodology. While the survey obtained responses from only about half of the addresses mailed questionnaires, the staff had sufficient data collected to analyze response and inflate the results statistically for use in the evaluation. The objective was to determine whether a comparison of the observed survey-wide farm proportion to the minimum census inclusion proportion (0.117) dictated that the survey cases (and the universe they represented), or certain categories of the survey cases (and their universe(s)), should have been included in the 1987 census. These comparisons established a reference point from which to conduct further analyses, if needed.

Evaluation Results

The general conclusion of the evaluation was that the classification tree methodology was successful in selecting which addresses should be included in the final 1987 agriculture mail list, but that the accuracy of the procedure could be further improved. The results of the various measures of association indicated that the classification

methodology performed fairly well and accurately determined the proportion of farms in each of the model groups, while the Model Drop Survey results showed that expected farm proportions were significantly lower than the observed proportions for five of the eight strata and model group categories. The Agriculture Division staff also determined that the number of cases composing the final model groups were sometimes too small to estimate farm proportions, and recommended further research in that area.

DISCLOSURE AVOIDANCE RESEARCH STUDY

General Information

The Bureau published agricultural census data in tables, some relatively simple, and others made up of detailed cross tabulations (see ch. 5). The confidentiality rules of the census law required that no data be published that could be used to identify a specific respondent or operation, hence the tabulations had to be reviewed and items that would disclose identities were suppressed (i.e., not shown in the detailed tables), although the data were tabulated for total counts.

The 1987 disclosure procedures involved applying initial suppressions to any value that failed a predefined disclosure rule, and then examining data items involved in the initial suppression for complementary suppression. Initial suppressions were data suppressions required by the disclosure avoidance rules. Complementary suppressions ensured that none of the initially suppressed values, or previously applied complementary suppressions, could be derived by the addition or subtraction of published data. Published farm counts were not considered a disclosure and, thus, were not subject to suppression.

Research

In 1989, the Bureau's Agriculture and Statistical Research Divisions began a research program to study the complementary suppression methodology used in the 1987 census. Researchers examined the possibility of employing a new system of applying complementary suppression that would increase data utility by providing (1) a lesser number of complementary suppressions, (2) a smaller sum of all data values suppressed as complements, (3) a consistent level of protection, and (4) an improved reconciliation program between different cross tabulations and between the master matrix and the cross tabulations. This research was directed at improving the Bureau's suppression methodology, and continued in subsequent years.

CONTENTS

Chapter 11. Publication Program

	Page
Introduction	110
General Information.	110
The Composition Systems	110
Quantity of 1987 Statistics Published	110
Publication Media	110
General Information	110
Printed Reports	111
Advance Reports	111
Volume 1, Geographic Areas Series	111
Volume 2, Subject Series	111
Volume 3, Related Surveys	111
Volume 4, Census of Horticultural Specialties (1988)	112
Other Publishing Media	112
Public-use computer tape	112
Compact disc-read only memory (CD-ROM)	112
Online access	112
Publication Process	112
General Information	112
Preliminary Preparation	112
Text and graphics components	112
Statistical tables	113
Final Production Processing	113
Electronic Media Products	113
Pricing and Distributing Reports	114
Comparability of the Data	114

INTRODUCTION

General Information

The goal of the census publication program is to make the census data available to users as quickly as possible after the collection, while maintaining the highest possible standards of statistical quality, reliability, and comparability. The overall plan for the 1987 publication program provided that the data be published in multiple formatsprinted reports, computer tapes, flexible diskettes for microcomputers, and compact disc-read only memory (CD-ROM). The Census Bureau issued individual State and county advance reports with summary statistics, and included the detailed county- and State-level tabulations in Volume 1, Geographic Area Series reports—one for each State, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, the Northern Mariana Islands, and a United States summary. The advance and final reports provided data on all agricultural operations that met the census farm definition (e.g., in the 50 States, 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) as well as data for farms with annual sales of \$10,000 or more.

The Composition Systems

The vast majority of material published for the agriculture census is in the form of statistical tables. For the 1987 reports, the Bureau's Publication Services Division (PSDlater the Administrative and Publication Services Division (APSD)), used its Census Electronic Publication System (CEPS) and a commercially available electronic graphics system (EGS) in conjunction with the Table Image Processing System (TIPS) II. These systems provided state-ofthe art computer composition capacity for materials that had been manually prepared in previous census publications. The new equipment and methodology required extensive retraining of the APSD editorial, composition, and printing staffs. The division conducted on- and off-site technical training and reorganized functions within its own branches. A major change within APSD involved the creation of two computer programming staffs to automate the entire production process.

The CEPS enabled the publication staff to develop automatic page layout for text, tables, and graphics; code text and table files directly on the publication sponsor's electronic file; scan graphics images for merging with text; and translate files from a variety of microcomputer and word processing systems. The EGS enabled the electronic production of graphics. Systems Software Division (SSD) and APSD designed the original TIPS to be used to produce large numbers of statistical tables in census printed reports. The system actually was a computer program controlling the computer-output-to-microform video composition system (COMp80) or the Government Printing Office's (GPO's) VideoCOMp systems. The updated TIPS

Il version used the table-layout instructions, stub, and data file for a given report to compose a single "instance" of a table, and produced a laser printer proof copy of the table for review. The system automatically applied any correction made to the data file to the tables and generated corrected input files for table composition. After the tables were reviewed and approved, the tape files were sent to the GPO, to produce photographic negatives of the publication pages. The negatives and tapes then were returned to APSD. Once each page had been reviewed and approved, they were assembled and sent for publication.

Photo-offset reproduction was used for the published reports in the standard 8 1/2" x 11" page size.

Quantity of 1987 Statistics Published

The Census Bureau reduced the total quantity of data published for the 1987 census by eliminating the preliminary report series, replacing it with the advance reports for each county and State. The advance reports contained a total of approximately 6,200 pages of text and final summary statistics, compared to approximately 12,400 pages of text and preliminary data in the 1982 series. The 56-part Volume 1, Geographic Area Series, State and County Data set included final State and county (or equivalent) detailed data for the 50 States, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands, as well as a summary of the United States, and contained approximately 21,000 pages of text and tabular data, compared with some 19,300 in the 1982 volume 1 reports. The Volume 2, Subject Series, for 1987 comprised six reports: the Agricultural Atlas of the United States, with 199 pages of maps and charts illustrating national agricultural statistics; the Coverage Evaluation, with 18 pages of tables on coverage estimates; the Ranking of States and Counties, with 99 pages of tables showing the comparative rankings of States and counties for selected subjects; the Government Payments and Market Value of Agricultural Products Sold, with 449 pages of national and selected State statistics; the ZIP Code Tabulations of Selected Items, with 629 pages of basic data items by five-digit code; and the History. Volume 3, Related Surveys, consisted of two reports: the Farm and Ranch Irrigation Survey (1988), with 114 pages of irrigation data for the United States, States, and 18 water resources areas; and the Agricultural Economics and Land Ownership Survey (1988). with 296 pages of economic and agricultural land ownership data for the United States and the 50 States. Volume 4, Census of Horticultural Specialties (1988), contained 180 pages of statistics on horticultural specialty operations for the United States and States.

PUBLICATION MEDIA

General Information

The Bureau publishes data in a variety of media: Printed reports, "flexible" diskettes, computer tape, and CD-ROM.

The GPO sold the printed reports, while the agency was the only primary source for its own data on electronic media.

Printed Reports

Advance Reports—The Bureau issued 2-page advance reports for each county (or county equivalent) in the United States with 10 farms or more, for each State, and for the United States. The reports were grouped by State, and presented highlights for all farms and farms with sales of \$10,000 or more. Selected data items included the number of farms, land in farms, size of farms, land use practices, farm operator characteristics, selected production expenses, livestock and poultry inventory and sales, and major crops harvested. (No advance reports were issued for Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, or the Northern Mariana Islands.)

The Census Bureau issued the first *Advance Reports* (the set for Delaware) in September 1988, and the last, for the United States, in May 1989.

Volume 1, Geographic Areas Series, Series AC87-A-1 to 56—Volume 1 comprised a United States summary with data for States, and separate reports for each of the 50 States, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands. Each State or area report consisted of an introductory text and two chapters of detailed statistical tables, one for the State or area, and the second for counties or their equivalents. (In the summary report of the United States, chapter 1 showed national-level data, while chapter 2 showed State-level statistics.)

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

Chapter 2 presented selected data for all counties for most of the subjects tabulated at the State level. Specific tables displayed data for counties with three or more farms reporting a particular item, such as various animal specialties (e.g., goats, mink, bees, fish), grains, field seeds, nursery and greenhouse crops, tenure, farms operated by persons of selected racial groups or of Hispanic origin,

CCC loans by commodity group, and so on. The reports combined data for counties with fewer than three farms reporting a given item into an "all other counties" category for the State.

The first volume 1 report (Delaware) appeared in January 1989, and the last (American Samoa) in February 1991.

Volume 2, *Subject Series*, Series AC87-S-1 through -6—Volume 2 consisted of six parts:

- Agricultural Atlas of the United States (AC87-S-1)
 presented a profile of the Nation's agriculture in a
 series of dot and multicolor pattern U.S. maps. (Issued
 June 1990.)
- Coverage Evaluation (AC87-S-2) provided national and regional level estimates on the completeness of the census, in both the number of farms missed and selected characteristics of those farms. (Issued July 1990.)
- Ranking of States and Counties (AC87-S-3) showed the leading States and counties in the order of importance of selected items for 1987. Most tables included comparative data from the 1982 census and showed cumulative total percent of products or other items for the topmost States and counties. (Issued September 1990.)
- History (AC87-S-4) is a concise description of the major census operations together with facsimiles of selected data report forms. It describes the history of the agriculture census, farm definition, data collection and processing, and dissemination of census data. (Issued 1992.)
- Government Payments and Market Value of Agricultural Products Sold (AC87-S-5) reflected detailed data for farms, cross-tabulated by combined market value of agricultural products sold and Government payments received, including detailed national data and selected State data. (Issued September 1990.)
- ZIP Code Tabulations of Selected Items (AC87-S-6)
 offered tabulations by ZIP Code for items such as
 number of farms, land in farms, land in farms by size,
 market value of agricultural products sold, and market
 value of agricultural products sold by size, livestock
 inventory, and selected crops. (Issued July 1990.)

Volume 3, Related Surveys, Series AC87-RS-1 and -2—This series consisted of two reports:

Farm and Ranch Irrigation Survey (1988) (AC87-RS-1) provided statistics collected from a sample of irrigators drawn from the 1987 Census of Agriculture respondent list. The data supplemented the basic irrigation data collected from all farms in the census. The publication included information on acreage irrigated, crops, method of water distribution used in 1987, source of water used, energy use, and irrigation practices. (Issued May 1990.)

• Agricultural Economics and Land Ownership Survey (1988) (AC87-RS-2) presented economic and land ownership data on farmland owned and leased, land use, amount and source of debt, production contracts, taxes, assets, off-farm income and, for landlords, type of ownership and owner characteristics. (Issued July 1990.)

Volume 4, Census of Horticultural Specialties (1988), AC87-HOR-1—The horticultural specialties report presented data for calendar year 1988 for the United States and States on number of establishments, value of sales of horticultural products, type of horticultural products, and kind of horticultural business. (Issued August 1991.)

Other Publishing Media

Public-use computer tape—The Bureau first made computer tapes of agriculture census data available to users in 1965, when tapes from the 1964 census preliminary county reports were issued and sold. Only selected final county tabulations were released on tape for the 1969 and 1974 censuses, but for 1978, computer tape files of both preliminary and final county-level data were issued. (The Agriculture Division produced and sold the 1978 final data tapes as a special tabulation.)

For the 1982 census, there were three computer tape data files, one each for the preliminary and final county data files, and the third containing the final State data and cross tabulations. The Bureau used the same format for the 1987 census data tapes, issuing three files-one for the advance data reports, one for the final county data, and one for the final State data and cross tabulations. The advance data file contained all the data from the State and county advance reports, while the final county data tapes contained the tabulations in the 36 tables contained in chapter 2 of the Volume 1, Geographic Area Series reports. The advance data were made available to users on a single standard sized 6,250-bpi (bytes per inch) reel of tape. The final county-level data were released on five 1,600- or two 6,250-bpi reels. The final State data tape contained the State-level data and cross tabulations in the 53 tables of chapter 1, Volume 1, Geographic Area Series. The file was made available on two reels at 1,600 bpi, or one reel at 6,250 bpi.

The specifications for the computer tape reels for the 1987 data were:

Tape width 1/2 inch

Reel size 10 1/2-inch, 2,400 feet maximum

length

Logical record

size:

Advance 4 segments, each of 3,800

county file characters

Final county file 5 segments, each of 9,600

characters

Final State file 101 segments, each of 9,600

characters

Field size Fixed, 12 characters

Recording density 1,600 or 6,250 bytes per inch

9-channel tape

Language Optional, either American Scientific

Code for Information Interchange (ASCII), or Extended Binary

Coded Decimal Interchange Code

(EBCDIC)

Block spacing .60 inch

The price for the data tapes covered production, documentation, handling, and postage costs. Users could purchase the complete files, or tapes containing only the data for a specific State or combination of States.

Compact disc-read only memory (CD-ROM)—The rigid compact disc (CD) used for the 1987 census can hold about 600 million characters (600 megabytes) of data—the equivalent of 1,500 flexible diskettes, or 4 high-density computer tape reels. The Bureau first released agriculture census data on CD-ROM in 1985, when the complete final 1982 census data file was issued as part of the data content of two CD's produced for test purposes. For the 1987 agriculture census, the Bureau issued one CD-ROM with the State aggregate data and the county-level data for the 1978, 1982, and 1987 censuses. A second CD-ROM was issued for selected data from the volume 2, 3, and 4 reports.

Online access—CENDATATM, the Census Bureau's online information service, operated through two information vendors—CompuServe and DIALOG. As part of the 1987 agriculture census publication program, CENDATA gave users access to the 1987 national and State *Advance Reports*, and highlights from the Volume 2, *Subject Series*, and Volume 4, *Census of Horticultural Specialties (1988)* reports. The county *Advance Reports*, as well as agriculture census press releases, were made available online through a third vendor—AgriData Network.

PUBLICATION PROCESS

General Information

The Bureau began editorial and composition work on the agriculture census publications during the latter part of 1986, to finish as much of the preparation and associated work as possible before the completion of the census. The Agriculture Division developed the basic table layouts and wrote the text for the 1987 census data volumes, and APSD had the primary responsibility of preparing these materials for publication.

Preliminary Preparation

Text and graphics components—The APSD produced the text components on the CEPS and used the EGS for the graphics materials.

Agriculture Division analysts wrote standard text for the census publications and sent it to APSD on flexible diskettes. Once the text was finalized, the APSD staff prepared (i.e., coded) these files for processing through the CEPS (for the text itself) or the EGS, which produced laser proofs (paper facsimiles of the final product) for review and approval by Agriculture Division staff. The APSD staff processed all changes and recycled the laser proofs until all were approved for final preparation, then copied the final text computer files to the mainframe computer for a later merge with other publication components.

APSD staff prepared variable text (i.e., text containing segments dependent on the results of the data collected in the census) "shells" in advance, following the same procedures used for the standard text, and held them on the CEPS for final production processing.

Graphics for the agriculture census publications fell into three major categories-artwork, charts, and maps. The divisions' staffs initially prepared the artwork for the covers and title pages on the EGS and, when the artwork had been finalized, transferred it to the CEPS for merging with other publications components to produce covers and title pages. Agriculture Division analysts also used the EGS to prepare the basic chart "shells" (without the plot points and other variables), while Geography Division provided APSD with negatives for the various maps required. These materials also were held for inclusion in the final assembly operation before each publication was sent to the printer.

Statistical tables—APSD produced the base table images (or table "shells" minus variable geography and data) for the statistical tables from electronic files supplied by Agriculture Division. The APSD staff followed the same general procedures used for the standard text, except that the statistical table files were prepared for production using the Table Image Processing System II (TIPS II) on the mainframe computer. The staff edited the table manuscript, prepared the base table image computer files, processed them through TIPS II, and referred the resulting tables to Agriculture Division for review and approval. After all this had been done, the final base table image computer lines were held in the mainframe computer for merging with the data and other publication materials during the final processing.

Final Production Processing

During final production processing, Agriculture Division provided any additional information needed for the variable text components and charts to APSD, which copied these variable files to the mainframe computer's memory. Agriculture Division then supervised Economic Programming Division (EPD) staff in executing various APSD programs to merge data with base table images, link the appropriate publication components, and generate electronic files. APSD then transmitted these to the GPO for production of printing negatives. On receipt, Agriculture Division and the APSD staffs reviewed these negatives for conformity to Census publishing and printing standards. The APSD

completed the necessary printing documents and sent the publication packages to the designated printer. All publications were printed under contracts through the GPO.

The APSD and Agriculture Division staffs inspected all printed materials received from the private contractors to ensure that the reports were complete and met print quality standards. Packages of advance reports were randomly checked to make certain that all the individual county reports were included. Inspectors selected four copies from each package of volume 1 reports for checking by APSD publication specialists, and two copies from each package were randomly chosen and inspected by Agriculture Division personnel. The quality-control operation discovered no significant problems requiring reprinting or other correction in the printed data reports.

Electronic Media Products

In addition to disseminating selected results online on CENDATATM, the Data User Services Division (DUSD) reproduced electronic media products (computer tapes, CD-ROM, and flexible diskettes) from master data tapes supplied by Agriculture Division. The Agriculture Division and DUSD staffs wrote the technical documentation (TD) for each tape file. The TD included an abstract of the files. detailed technical descriptions of the data file (i.e., geographic coverage, identification numbering system, coding, etc.), file indexes, and a data dictionary.1 Availability of 1987 Census of Agriculture publications on electronic media is shown in table 11-1.

Table 11-1. Availability of 1987 Census of Agriculture **Publications on Electronic Media**

Publications	Com- puter tape	Flexible diskette	Online	CD- ROM
Advance Reports	Yes	Yes	Yes	No
Volume 1, <i>Geographic Area</i> Series	Yes	No	No	Yes
Volume 2, Subject Series: Part 5, Government Payments and Market Value of Agricultural Products Sold	No	Yes	Yes*	Yes
Part 6, ZIP Code Tabulations of Selected Items	No	Yes	Yes*	Yes
Volume 3, Related Surveys: Part 1, Farm and Ranch Irrigation Survey (1988)	No No	Yes Yes	Yes*	Yes Yes
Volume 4, Census of Horticul- tural Specialties (1988)	No	Yes	Yes*	Yes

^{*}Highlights only.

¹A data dictionary described the contents and record layout of the computer tape file. The first line of each data item description gave the data name, size of the data field, and the "begin" position of that particular field.

Pricing and Distributing Reports

While the Bureau of the Census collected and tabulated the census and survey data, prepared the text and tables, and did all the other preparatory work for each of its publications, the Superintendent of Documents at the GPO was responsible for pricing and selling the agriculture census printed reports. The Bureau paid all production costs, as well as for printing copies for its own use. The prices for individual publications sold through GPO were based on a price schedule established by that agency, but the only costs passed on by GPO to customers were for the actual reproduction, postage, and handling of the reports purchased.

The Superintendent of Documents also distributed copies of Census Bureau publications to some 1,500 Government and Census depository libraries,2 including about 150 of the former-usually those at very large educational institutions—that received all, or nearly all, Bureau publications. The remaining libraries indicated which reports they wished to receive. (All the depositories were sent the annual Statistical Abstract of the United States, which contained summary data from the most recent censuses.) The Bureau supplied copies of its printed publications to its own 12 regional offices, to the International Trade Administration's (ITA's) district offices in 59 cities throughout the Nation; and to approximately 300 State data centers (SDC's) and business and industrial data centers (BIDC's) and their affiliates (over 1,000 in all) located in all 50 States, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands. (The Bureau sent the SDC's and BIDC's its publications for their States or areas, while the affiliates indicated which reports they wished to receive.)

The Bureau maintained a supply of its various publications for its own use at its Jeffersonville, IN, facility, but the primary responsibility for storage and sales of census reports was in the hands of the Superintendent of Documents.

Copies of the computer data tapes for all files were supplied to the SDC's. CD-ROM discs were distributed to

some 150 Federal depository libraries and to any SDC's or BIDC's requesting them. The U.S. Department of Agriculture's Extension Service received 200 copies of the agriculture census CD-ROM discs for a pilot project using the new product. The DUSD also sold census tapes, CD-ROM discs, and flexible diskettes to the public.

The Bureau publicized the availability of its print and electronic publications through the GPO, the ITA and its district offices, and other organizations; issued press releases about new publications; and distributed order forms, publication schedules, a Monthly Product Announcement, and an annual Census Catalog and Guide. Most of the publicity materials and catalogs included brief descriptions of the reports, as well as the actual or estimated publication dates, and purchase price. The DUSD issued a monthly newsletter, Census and You, with articles on agency activities, including the agriculture census. The DUSD and Agriculture Division staffs jointly produced the Guide to the 1987 Census of Agriculture and Related Statistics, with descriptions of the agriculture census publications and information on data from other related Census Bureau activities

COMPARABILITY OF THE DATA

Maintenance of a reasonably comparable agricultural data series from census to census is a major objective of the census of agriculture. This comparability may be affected by changes in (1) the price structure of the economy, (2) definitions of data concepts being measured, (3) the methodologies used for collecting and processing the data, and (4) procedures used for estimating or imputing data.

The 1987 agriculture census used the same farm definition employed in the census since 1974, and the basic data published for censuses from 1974-1987 are directly comparable in that sense. Data on acreage, production, and inventories for 1987 and 1982 are generally comparable, although dollar figures for expenses and sales are given in current dollars, unadjusted for inflation or deflation. In general, data for censuses since 1974 are not fully comparable with data for earlier enumerations because of changes in the farm definition (see ch. 1).

²These libraries received a selection of the publications of a variety of Federal departments and offices. There were approximately 130 Census libraries, generally local public libraries.

APPENDIX A.

Provisions of Title 13, United States Code, Relating to the 1987 Census of Agriculture

TITLE 13. UNITED STATES CODE—CENSUS

CHAPTER 1. ADMINISTRATION

Subchapter I—General Provisions

Section 1. Definitions

As used in this title, unless the context requires another meaning or unless it is otherwise provided—

- (1) "Bureau" means the Bureau of the Census;
- (2) "Secretary" means the Secretary of Commerce; and
- (3) "respondent" includes a corporation, company, association, firm, partnership, proprietorship, society, joint stock company, individual, or other organization or entity which reported information, or on behalf of which information was reported, in response to a questionnaire, inquiry, or other request of the Bureau.

Section 2. Bureau of the Census

The Bureau is continued as an agency within, and under the jurisdiction of, the Department of Commerce.

Section 5. Questionnaires; number, form, and scope of inquiries

The Secretary shall prepare questionnaires, and shall determine the inquiries, and the number, form, and subdivisions thereof, for the statistics, surveys, and censuses provided for in this title.

Section 6. Information from other Federal departments and agencies; acquisition of reports from other governmental and private sources

- (a) The Secretary, whenever he considers it advisable, may call upon any other department, agency, or establishment of the Federal Government, or of the government of the District of Columbia, for information pertinent to the work provided for in this title.
- (b) The Secretary may acquire, by purchase or otherwise, from States, counties, cities, or other units of government, or their instrumentalities, or from private persons and agencies, such copies of records, reports, and other material as may be required for the efficient and economical conduct of the censuses and surveys provided for in this title.

(c) To the maximum extent possible and consistent with the kind, timeliness, quality and scope of the statistics required, the Secretary shall acquire and use information available from any source referred to in subsection (a) or (b) of this section instead of conducting direct inquiries.

Section 7. Printing; requisitions upon Public Printer; publication of bulletins and reports

The Secretary may make requisition upon the Public Printer for miscellaneous printing necessary to carry out the provisions of this title. He may further have printed by the Public Printer, in such editions as he deems necessary, preliminary and other census bulletins, and final reports of the results of the several investigations authorized by this title, and may publish and distribute such bulletins and reports.

Section 8. Authenticated transcripts or copies of certain returns; other data; restrictions on use; disposition of fees received

- (b) Subject to the limitations contained in sections 6(c) and 9 of this title, the Secretary may furnish copies of tabulations and other statistical materials which do not disclose the information reported by, or on behalf of, any particular respondent, and may make special statistical compilations and surveys, for departments, agencies, and establishments of the Federal Government, the government of the District of Columbia, the government of any possession or area (including political subdivisions thereof) referred to in section 191 (a) of this title, State or local agencies, or other public and private persons and agencies, upon payment of the actual or estimated cost of such work. In the case of nonprofit agencies or organizations, the Secretary may engage in joint statistical projects, the purpose of which are otherwise authorized by law, but only if the cost of such projects are shared equitably, as determined by the Secretary.
- (c) In no case shall information furnished under this section be used to the detriment of any respondent or other person to whom such information relates, except in the prosecution of alleged violations of this title.
- (d) All moneys received in payment for work or services enumerated under this section shall be

deposited in a separate account which may be used to pay directly the costs of such work or services, to repay appropriations which initially bore all or part of such costs, or to refund excess sums when necessary.

Section 9. Information as confidential; exception

- (a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may, except as provided in section 8 of this title-
 - use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or
 - (2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or
 - (3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

No department, bureau, agency, officer, or employee of the Government, except the Secretary in carrying out the purposes of this title, shall require, for any reason, copies of census reports which have been retained by any such establishment or individual. Copies of census reports which have been so retained shall be immune from legal process, and shall not, without the consent of the individual or establishment concerned, be admitted as evidence or used for any purpose in any action, suit, or other judicial or administrative proceeding.

Section 12. Mechanical and electronic development

The Secretary is authorized to have conducted mechanical and electronic development work as he determines is needed to further the functions and duties of carrying out the purposes of this title and may enter into such developmental contracts as he may determine to be in the best interest of the Government.

Subchapter II—Officers and Employees

Section 21. Director of the Census; duties

The Bureau shall be headed by a Director of the Census, appointed by the President, by and with the advice and consent of the Senate. The Director shall perform such duties as may be imposed upon him by law, regulations, or orders of the Secretary.

Section 22. Qualifications of permanent personnel

All permanent officers and employees of the Bureau shall be citizens of the United States.

Section 23. Additional officers and employees

- (a) The Secretary may establish, at rates of compensation to be fixed by him without regard to the Classification Act of 1949, as many temporary positions as may be necessary to meet the requirements of the work provided for by law. Bureau employees who are transferred to any such temporary positions shall not lose their permanent civil service status by reason of the transfer. The Secretary may make appointments to such temporary positions in conformity with the civil service laws and rules.
- (b) In addition to employees of the Department of Commerce, employees of other departments and independent offices of the Government may, with the consent of the head of the respective department or office, be employed and compensated for field work in connection with the work provided for by law without regard to section 301 of the Dual Compensation Act.
- (c) The Secretary may utilize temporary staff, including employees of Federal, State, or local agencies or instrumentalities, and employees of private organizations to assist the Bureau in performing the work authorized by this title, but only if such temporary staff is sworn to observe the limitations imposed by section 9 of this title.

Section 24. Special employment provisions

- (a) The Secretary may utilize the services of nontemporary employees of the Bureau (by assignment, promotion, appointment, detail, or otherwise) in temporary positions established for any census, for not to exceed the period during which appropriations are available for that census. Whenever the Secretary determines that the services of an employee which have been utilized under this section are no longer required in such a temporary position, he may, without regard to the provisions of any other law, return the employee to a continuing position, with rank and compensation not less than that which he held in his last permanent position in the Bureau: Provided. That no employee shall, by reason of his service in a temporary position under this subsection, lose the protection of any law or regulation with respect to his separation, suspension, furlough, or reduction in rank or compensation below the level held in his last permanent position in the Bureau. Service by a nontemporary employee in a temporary position under this subsection shall be creditable for step increases (both periodic and longevity) under title VII of the Classification Act of 1949, as amended, as though it were a continuation of service in his last permanent position.
- (b) As used in this title with respect to appointments or positions, "temporary" shall be construed to

mean not in excess of one year, or not in excess of the specific period during which appropriations are available for the conduct of a particular census, whichever is longer. No employee of the Bureau who holds only a temporary appointment within the meaning of this section shall be considered as other than strictly temporary for purposes of any other provision of law relating to separations, suspensions, or reductions in rank or compensation.

- (d) The Secretary may fix compensation on a pieceprice basis without limitation as to the amount earned per diem, and payments may be made to enumerators for the use of private automobiles on official business without regard to section 4 of the Travel Expense Act of 1949, as amended (5 U.S.C. 837), but at rates not in excess of the rates provided by that Act.
- (e) The Secretary may authorize the expenditure of necessary sums for travel expenses of persons selected for appointment for attendance at training courses held by the Department of Commerce with respect to any of the work provided for by law
- (f) Notwithstanding any other provision of law prohibiting the expenditure of public money for telephone service, the Secretary, under such regulations as he shall prescribe, may authorize reimbursement for tolls or charges for telephone service from private residences or private apartments to the extent such charges are determined by the Secretary to have been incurred to facilitate the collection of information in connection with the censuses and surveys authorized by this title.

Section 25. Duties of supervisors, enumerators, and other employees

- (a) Each supervisor shall perform the duties imposed upon him by the Secretary in the enforcement of chapter 5 of this title in accordance with the Secretary's orders and instructions.
- (b) Each enumerator or other employee detailed to serve as enumerator shall be charged with the collection in his subdivision of the facts and statistics called for on such schedules as the Secretary determines shall be used by him in connection with any census or survey provided for by chapter 5 of this title.

Section 26. Transportation by contract

The Secretary may contract with field employees for the rental and use within the continental limits of the United States of means of transportation, other than motorcycle, automobile, or airplane, and for the rental and use outside of the continental United States of any means of transportation, which means may be owned by the field employee.

Such rental contracts shall be made without regard to section 4 of the Travel Expense Act of 1949, as amended (5 U.S.C. 837). The rentals shall be at rates equivalent to the prevailing rental rates of the locality. The rental contracts within the continental United States may be entered into only when the use by the field employee of such other means of transportation is safer, more economical, or more advantageous to the Government than use of his motorcycle, automobile, or airplane in conducting the census.

CHAPTER 5. CENSUSES

Subchapter II—Population, Housing, Agriculture, Irrigation, and Unemployment

Section 142. Agriculture and Irrigation

- (a) The Secretary shall in 1979, in 1983, and in every fifth year beginning after 1983, take a census of agriculture.
- (b) In conjunction with the census to be taken under subsection (a) of this section in 1979, in 1988, and every tenth year beginning after 1988, the Secretary shall take a census of irrigation.
- (c) The data collected in each of the censuses taken under this section shall relate to the year immediately preceding the year in which such census is taken.

Subchapter V—Geographic Scope, Preliminary and Supplemental Statistics, and Use of Sampling

Section 191. Geographic scope of censuses

- (a) Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.
- (b) For censuses taken in the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, or any possession or area not specifically designated in subsection (a) of this section, the Secretary may use census information collected by the Governor or highest ranking Federal official, if such information was obtained in accordance with plans prescribed or approved by the Secretary.

(c) If, pursuant to a determination by the Secretary under subsection (a) of this section, any census is not taken in a possession or area over which the United States exercises jurisdiction, control, or sovereignty, the Secretary may include data obtained from other Federal agencies or government sources in the census report. Any data obtained from foreign governments shall be obtained through the Secretary of State.

Section 193. Preliminary and supplemental statistics

In advance of, in conjunction with, or after the taking of each census provided for by this chapter, the Secretary may make surveys and collect such preliminary and supplementary statistics related to the main topic of the census as are necessary to the initiation, taking, or completion thereof.

Section 195. Use of sampling

Except for the determination of population for purposes of apportionment of Representatives in Congress among the several States, the Secretary shall, if he considers it feasible, authorize the use of the statistical method known as "sampling" in carrying out the provisions of this title.

Section 196. Special censuses

The Secretary may conduct special censuses for the government of any State, or of any county, city, or other political subdivision within a State, for the government of the District of Columbia, and for the government of any possession or area (including political subdivisions thereof) referred to in section 191(a) of this title, on subjects covered by the censuses provided for in this title, upon payment to the Secretary of the actual or estimated cost of each such special census. The results of each special census shall be designated "Official Census Statistics." These statistics may be used in the manner provided by applicable law.

CHAPTER 7. OFFENSES AND PENALTIES

Subchapter I—Officers and Employees

Section 211. Receiving or securing compensation for appointment of employees

Whoever-

(1) receives or secures to himself any fee, reward, or compensation as a consideration for the appointment of any person as supervisor, enumerator, clerk, or other officer or employee of the Department of Commerce or bureau or agency thereof, referred to in subchapter II of chapter 1 of this title: or (2) in any way receives or secures to himself any part of the compensation paid to any person so appointed—shall be fined not more than \$3,000 or imprisoned not more than five years, or both.

Section 212. Refusal or neglect of employees to perform duties

Whoever, being an employee referred to in subchapter II of chapter 1 of this title, and having taken and subscribed the oath of office, neglects or refuses, without justifiable cause, to perform the duties enjoined on such employee by this title, shall be fined not more than \$500.

Section 213. False statements, certificates, and information

- (a) Whoever, being an officer or employee referred to in subchapter II of chapter 1 of this title, wilfully and knowingly swears or affirms falsely as to the truth of any statement required to be made or subscribed by him under oath by or under authority of this title, shall be guilty of perjury, and shall be fined not more than \$2,000 or imprisoned not more than five years, or both.
- (b) Whoever, being an officer or employee referred to in subchapter II of chapter 1 of this title
 - (1) willfully and knowingly makes a false certificate or fictitious return; or
 - (2) knowingly or willfully furnishes or causes to be furnished, or, having been such an officer or employee, knowingly or wilfully furnished or caused to be furnished, directly or indirectly, to the Secretary or to any other officer or employee of the Department of Commerce or bureau or agency thereof, any false statement or false information with reference to any inquiry for which he was authorized and required to collect information provided for in this title—

shall be fined not more than \$2,000 or imprisoned not more than five years, or both.

Section 214. Wrongful disclosure of information

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter 1 of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than five years, or both.

Subchapter II—Other Persons

Section 221. Refusal or neglect to answer questions; false answers

- (a) Whoever, being over eighteen years of age, refuses or wilfully neglects, when requested by the Secretary, or by any other authorized officer or employee of the Department of Commerce or bureau or agency thereof acting under the instructions of the Secretary or authorized officer, to answer, to the best of his knowledge, any of the questions on any schedule submitted to him in connection with any census or survey provided for by subchapters I, II, IV, and V of chapter 5 of this title, applying to himself or to the family to which he belongs or is related, or to the farm or farms of which he or his family is the occupant, shall be fined not more than \$100.
- (b) Whoever, when answering questions described in subsection (a) of this section, and under the conditions or circumstances described in such subsection, willfully gives any answer that is false, shall be fined not more than \$500.

Section 222. Giving suggestions or information with intent to cause inaccurate enumeration of population

Whoever, either directly or indirectly, offers or renders to an officer or employee of the Department of Commerce or bureau or agency thereof engaged in making an enumeration of population under subchapter II, IV, or V of chapter 5 of this title, any suggestion, advice, information, or assistance of any kind, with the intent or purpose of causing an inaccurate enumeration of population to be made, shall be fined not more than \$1,000 or imprisoned not more than one year, or both.

Section 223. Refusal, by owners, proprietors, etc., to assist census employees

Whoever, being the owner, proprietor, manager, superintendent, or agent of any hotel, apartment house, boarding or lodging house, tenement, or other building, refuses or willfully neglects, when requested by the Secretary or by any other officer or employee of the Department of Commerce or bureau or agency thereof, acting under the instructions of the Secretary, to furnish the names of the occupants of such premises, or to give free ingress thereto and egress therefrom to any duly accredited representative of such Department or bureau or agency thereof, so as to permit the collection of statistics with respect to any census provided for in subchapters I and II of chapter 5 of this title, or any survey authorized by subchapter IV or V of such chapter insofar as such survey relates to any of the subjects for which censuses are provided by such subchapters I and II, including, when relevant to the census or survey being taken or made, the proper and correct enumeration of all persons having their usual place of abode in such premises, shall be fined not more than \$500.

Section 224. Failure to answer questions affecting companies, businesses, religious bodies, and other organizations; false

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than \$500; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000.

Section 225. Applicability of penal provisions in certain cases

- (a) In connection with any survey conducted by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof pursuant to subchapter IV of chapter 5 of this title, the provisions of sections 221, 222, 223, and 224 of this title shall apply—
 - (1) with respect to the answering of questions and furnishing of information, only to such inquiries as are within the scope of the schedules and questionnaires and of the type and character heretofore used in connection with the taking of complete censuses, under subchapters I and II of chapter 5 of this title, or in connection with any censuses hereafter taken pursuant to such subchapters;
 - (2) only after publication of a determination with reasons therefor certified by the Secretary, or by some other authorized officer or employee of the Department of Commerce or bureau or agency thereof with the approval of the Secretary, that the information called for is needed to aid or permit the efficient performance of essential governmental functions or services, or has significant application to the needs of the public, business, or industry and is not publicly available from nongovernmental or other governmental sources;
 - (3) in the case of any new survey, only after public notice, given by the Secretary or other

authorized officer or employee of the Department of Commerce or bureau or agency thereof at least thirty days in advance of requesting a return, that such survey is under consideration.

- (b) The provisions for imprisonment provided by section 222 of this title shall not apply in connection with any survey conducted pursuant to subchapter II of chapter 3 of this title, or to subchapter IV of chapter 5 of this title.
- (d) Where the doctrine, teaching, or discipline of any religious denomination or church prohibits the disclosure of information relative to membership.

a refusal, in such circumstances, to furnish such information shall not be an offense under this chapter.

Subchapter III—Procedure

Section 241. Evidence

When any request for information, made by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, is made by registered or certified mail or telegram, the return receipt therefor or other written receipt thereof shall be prima facie evidence of an official request in any prosecution under such section.

Appendix B. **Historical Notes**

ORIGINS AND EARLY DEVELOPMENT

The First Censuses: 1790-1840

The United States Constitution, Article I, section 2, required an enumeration of the "whole Number of free Persons, including those bound to Service for a Term of Years, and excluding Indians not taxed, three-fifths of all other Persons ... within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten years" The authors intended, by this headcount, to provide for the equitable distribution to each State of taxes and representation in the House of Representatives, and the first such census was carried out in 1790.

Some members of the Government, as well as others. recognized at once that such a periodic and universal enumeration of the country could be used to gather a great deal of useful information on other things than just the population. James Madison, then a member of the House of Representatives for Virginia, introduced a bill to use the census to obtain information on occupations and other economic subjects, as well as basic data on the age, sex, and race of the population; the House approved the idea, but the Senate rejected it. Madison had to content himself with a less ambitious census, which collected data only on the number and sex of free white persons, free white males by age, number of all other persons, and number of slaves.

The explosive growth of the new United States soon prompted reconsideration of Madison's proposals, and the third census, for 1810 (Madison having become President, coincidentally, in 1809), included questions on the kind, quantity, and value of goods manufactured.1 At its founding, and for much of the 19th century, the United States was primarily an agricultural nation—fully 95 percent of the population enumerated in the first census lived on the land-but it was not until 1820, and the fourth census, that a question specifically relating to agriculture was included on the census schedule, and it asked only how many, if any, members of each household were engaged in agriculture.

The census continued to collect data on manufacturing after 1810, and expanded the number of items directed to that end in each succeeding census, but made no further

attempt to obtain agriculture information until 1840. The sixth decennial census introduced separate schedules of questions relating to mining, agriculture, commerce, manufactures and trades, and navigation. The agricultural schedule included inquiries on cereals or various other crops, and on livestock. The results were published with the rest of the census data, but were considered unreliable and too lacking in detail to be useful. The data users of the time soon began demanding that the census collect more detailed information, and that the Government pay more attention to ensuring the accuracy of the data collected and published.

Expanding the Agriculture Census

The dissatisfaction with the 1840 census prompted Congress to give particular attention to the organization and data content of the 1850 census. A select committee of the House of Representatives considered the problems involved in the census and recommended that the Federal Government establish a permanent census office. While the Senate shared many of the concerns expressed by the House, it declined to support the latter proposal. Instead, the Senators suggested only that the congressional legislation concerning the census exhort persons employed in the operation to pay strict attention to their duties, and the permanent census office had to wait another half-century. Nevertheless, the 1850 census assumed much of the specialized organization that has since characterized the censuses, and is often considered the first "modern" enumeration.

The increased specialization began at the top, where the Congress transferred the responsibility for supervising the census from the Department of State to the newly formed Department of the Interior. The interest in more detailed data resulted in the establishment of six subject areas for data collection, including agriculture, each with a separate schedule of questions. The agriculture questionnaire, or "schedule," was far more elaborate and detailed than its predecessor, asking for the name of the person(s) in each household who operated a farm, and making relatively detailed inquiries on acreage and agricultural activities. Questions asked included the quantities produced for 32 crops, wool, and dairy products; the value of farm implements and machinery, animals slaughtered, and homemade manufactures; quanity and value of livestock; and the cash value of the farm. The 1850 census publications included the total number of farms for the United States (1.4 million) and each State; acreage (294 million acres under cultivation); and total value of farms, buildings, livestock, machinery, and equipment (nearly \$4 billion).

¹The Federal Government published a separate report covering the nondemographic data collected in the third census: A Statement of the Arts and Manufactures of the United States of America, for the year 1810. This document may be considered the forerunner of the Census Bureau's enormous economic statistical publishing program.

The agricultural censuses for 1860 and 1870 were virtual repeats of that of 1850. The 1870 census publication program, however, used maps to present statistical data, in addition to the conventional tables. The census law of 1879 provided for the appointment by the President (with Senate confirmation) of up to 150 local supervisors for the 1880 census (at least 1 for each State or territory) as well as for employing specialists to collect data on certain census subject matter areas, such as manufactures and mining. The local supervisors were responsible for the actual data collection, as well as for hiring suitable enumerators. This enlarged staff permitted closer supervision of the enumeration and thus, it was hoped, greater accuracy. The 1880 agriculture census schedule included new items on tenure, weeks of hired labor, costs for building and maintaining fences, and cost of fertilizer purchased. The census used several specialized questionnaires to collect detailed production information on cereal crops, meat, tobacco, hops, cotton culture and the cottonseed oil industry, forest products, fruit growing and orchards, and sheep and wool. Special enumerators visited operators involved in these particular production areas and completed the specific questionnaire required, or left a questionnaire with the respondent, who was asked to complete the form and mail it to the census office.2

The agriculture census expanded further for 1890, when the agriculture schedule doubled in length—including new inquiries on agricultural organizations, floriculture, and irrigation—and again used special questionnaires for selected operations. The population census also collected agricultural data, asking for information on farm mortgages.

The 1900 agricultural census introduced a question on the race of the farm operator, but was otherwise similar to the previous enumeration. The agriculture census entered the age of automated data processing in 1900 as well, when the census staff used punchcards and electric tabulating machines to process and tabulate the statistics. This equipment tabulated the results of the 1890 population census, and was adapted for the agriculture enumeration by the development and addition of an automatic sorter (required because of the large number of crop cards used in processing the agriculture data) and the use of a new keypunch machine.

THE 20TH CENTURY

Program Development

The establishment of a permanent Census Bureau—The first 12 U.S. censuses used temporary organizations, established a few months before the official census date and

disbanded once the data had been collected and published. This temporary existence had been sufficient for the earliest enumerations, which had collected minimal data, but the elaboration of the census operation, and of the kinds and volume of data tabulated and published, seemed to require more time and resources than could be provided by a staff and office organized and disbanded for each census. The results of the 1880 census dissatisfied many data users, leading to a campaign among interested professional and commercial organizations-e.g., the National Board of Trade, the American Statistical Association, and the American Economic Association—urging the creation of a permanent census office. The 12th census, for 1900, was the last carried out on the old ad hoc basis. By that time the limitations of the old system had become well known and the advantages of a permanent census office (better work load distribution, improved planning capacity, the ability to carry out surveys and censuses in the years between the constitutionally mandated enumerations, and so on) were so obvious that in 1902 Congress authorized the establishment of the permanent census office within the Department of the Interior. The new unit, later designated the Bureau of the Census, moved to the newly created Department of Commerce and Labor in the following year, and when the Department was divided in 1913, was assigned to the Department of Commerce, where it has since remained.

Agriculture census programs—The various censuses' statistics proved so useful that as early as 1880 the former chairman of the American Statistical Association suggested expanding the decennial census by adding a mid-decade enumeration. Many of the same persons and associations pushing for a permanent statistical office also urged this, as well the addition of specialized censuses to the agriculture program. In 1910, Congress directed the Bureau to carry out a decennial census of irrigation as part of the agriculture census, and in 1920 added a decennial census of drainage. The legal requirement for a census of drainage lasted into the 1980's, but lack of interest among data users prompted Congress to remove it from the census law in 1985. Special censuses of horticultural specialties also were added to the agriculture census program, although at irregular intervals—i.e., as part of the 1890, 1930, 1950, 1959, 1969, 1978, and 1987 censuses. By 1987, the "special" censuses routinely were carried out for the year following the general agriculture census's reference year, using operator lists drawn from the census respondent lists. Thus the irrigation and horticultural censuses used 1988 as their reference year, rather than 1987.

Congress also had considered the question of middecade enumerations, and while it had not directed that the population census be taken on a quinquennial basis, in 1909 it passed legislation calling for a mid-decade census of agriculture for the year 1915, and for every 10th year thereafter (in addition to the decennial efforts in years ending in "0"). Congress reversed itself in March 1915, repealing that section of the law requiring a census for

²The original agriculture schedules for the 1850-1880 censuses were retained by the Federal Government until the mid-20th century, when they were turned over to various State archives. Most were microfilmed, either by the National Archives and Records Administration, or, in some cases, by State or private organizations, and microfilm copies of the schedules for this period also are available. These are the only agricultural censuses for which the schedules have survived; the individual census questionnaires now are routinely destroyed after the statistical data have been extracted for tabulation.

1915, but again, in 1919, authorized a mid-decade agriculture enumeration beginning with a census for 1925. Subsequent agricultural censuses have been on a 5-year cycle, with occasional modifications, in years ending in "0" and "5," collecting data for the preceding crop year. This system continued until 1954, when Congress codified the Bureau's operations in Title 13, United States Code—Census, and established new reference years for the agricultural and economic censuses. Now agricultural censuses were to be every 5 years, in years ending in "4" and "9," and collect data for the preceding year. (The other economic censuses also were for years between the decennial censuses, e.g., for years ending in "2" and "7.") The agricultural (and irrigation and drainage) censuses, ostensibly done in years ending in "9," actually continued to be carried out as part of the decennial census operation.

The advantages of obtaining agricultural and economic census data for the same year, providing a single "snapshot" of the national economy, were obvious to most observers, and it was not long before there was considerable support for simultaneous agricultural and economic censuses. The Department of Commerce and the Bureau recommended in 1972 that the dates of the agriculture census be changed to coincide with those of the economic censuses; in 1976 Congress enacted Public Law 94-229, requiring agriculture censuses for 1978, 1982, and every fifth year thereafter, making them concurrent, for 1982 and after, with the economic censuses.

Enumeration dates, timing, and methodologies—Prior to the 1950's the agriculture census was usually carried out during the first months of the year following the reference year. The Bureau enumerated agriculture at the same time as the population censuses in decennial census years—e.g., in April of the census year for 1910, and from 1930 through 1950 (the 1920 census date was January 1 of that year)—to make use of the field and office staffs already in place. The long gap between the end of the reference year and the beginning of the censuses in these years presented a significant problem for respondents trying to answer the census accurately. The mid-decade censuses for 1925 through 1945 occurred in January of the year following the reference year, to collect the data on the entire calendar year as soon as possible after its end.

The 1920 and the mid-decade enumerations provided data for reference periods corresponding to those used in the U.S. Department of Agriculture crop and livestock estimates (issued as of December 1 and January 1 respectively), but winter weather made canvassing, particularly in rural areas, very difficult. In addition, there were problems fitting a fairly long interview into the busy workday of the average farmer. The Bureau tested a methodology intended to mitigate these problems as part of the 1920 census. Local mail carriers, who were assumed to have sufficient knowledge about the people and farms on their routes to permit them to check the accuracy of responses, as well as avoid at least part of the problem of long interviews, were employed to deliver the questionnaires, pick them up

when completed, and carry out a preliminary review of the responses. The plan had mixed results, particularly in the rural test area, and was not adopted as a general enumerative technique until tried again in the 1950's. (In the 1950 census, mail carriers delivered the questionnaires to rural route boxholders, who were asked to complete the forms and hold them until an enumerator arrived to pick them up.) For the first mid-decade agriculture census in 1925, the Bureau tried again to improve the completeness by making a special effort to hire as enumerators people identified with agriculture. The presidents of State agricultural colleges recommended persons to act as supervisors, forest rangers from the Department of Agriculture enumerated farms near national forests, employees of the Bureau of Reclamation canvassed irrigation projects, and Indian agents collected data for farms on Indian reservations. (In later canvasses, farmers and farmers' wives frequently were hired to carry out the canvass.)

The 1954 agriculture census inaugurated an attempt to collect the required data as near as possible to the end of the crop year of the reference year; canvassing began in November of the reference year. This improved the quality of the data, and the Bureau continued to use this procedure for the 1959 and 1964 censuses, but weather still presented a serious problem for canvassing.

The Census Bureau adopted mailout/mailback methodology as the rule for the 1969 agriculture census, permitting a return to a January data—collection operation. It had this procedure for the 1963 Economic Censuses, and decided to use it in major portions of the 1970 population and housing censuses as well. Employed in the agriculture census, mailout/mailback allowed farmers to complete their report forms at their own convenience, with full access to their own records, and gave them an opportunity to review and correct their own report forms. The Bureau compiled the address list of potential agricultural operations from the previous agriculture census records and from administrative records supplied by the Internal Revenue Service (IRS), the Social Security Administration, and the U.S. Department of Agriculture. The mailout, at the end of December 1969, requested inventory and production data for that year, as of December 31. The Bureau asked farmers to complete the forms and mail them back; field enumeration was retained only for Puerto Rico, Guam, the U.S. Virgin Islands, the Trust Territory of the Pacific Islands, and American Samoa, and for certain followup activities.

While far more convenient for farmers and more economic than using a field staff, the mailout/mailback census had problems of its own. Most important among these were (1) compiling a complete address list, and (2) obtaining timely response from farmers. Mail list compilation was particularly difficult with respect to small farms, which were not likely to be included in many of the administrative records the agency used to assemble its list. Adequate response rates required multiple followup mailings—six or

seven in a typical census—as well as telephone enumeration of particularly large or important nonrespondent operations, over a period of several months.

Despite these problems, and they remained significant for the 1987 census, the overall coverage obtained by mailout/mailback was only marginally lower than from the old canvassing methodology. The savings in funds realized by the mail census, as well as the convenience (and hence reduced resistance to response for the agricultural operators), were considered to outweigh the drawbacks of the technique.

Sampling—The Bureau introduced sampling for specific information in the 1940 agriculture census, when it sampled the collected data for a series of special tabulations. The 1945 agriculture census used sampling as an enumeration method: While the census collected county-level data in a conventional canvassing operation, selected State-level estimates were obtained from an area-segment sample³ that included approximately 7 percent of all farms in the United States.

Later agriculture censuses sampled extensively as a means to reduce overall respondent burden by collecting selected data from only certain farm operations, and then developing estimates for all farms based on the sample data, particularly after the adoption of the mailout/mail-back enumeration. The technique for the general census used a short form that included the core items requested of all farms, and a long form that included both the core items and additional questions on areas of special interest, such as farm debt and finances, machinery and equipment, conservation practices, use of chemicals, and so on. The sample used generally included all farms expected to meet specified value-of-sales or acreage limits, plus a random sample of all other farms on the census lists.

The Bureau also made extensive use of sampling in its coverage evaluation program to estimate the completeness of the enumeration and to adjust census statistics to compensate for nonrespondent operations.

Agricultural services censuses—Increasing interest in businesses providing services to agricultural operations led the Census Bureau to develop a census of agricultural services for the 1969 agriculture census program. This specialized enumeration aimed at collecting business information (i.e., volume of sales, payroll, number of employees, and so on) at the establishment level on specified

types of service operations, such as veterinary services, soil treatment operations, animal and livestock services other than veterinary, soil and crop services, landscapers, farm labor management firms, and the like. The Bureau prepared mail lists from administrative records (e.g., IRS individual, partnership, and corporation tax records) and enumerated the service establishments by mail, publishing tabulations for the United States and for States, with limited data available for counties. The services' enumeration was repeated for the 1974 and 1978 agriculture censuses, but following the 1978 operation Congress withdrew funding and ended the program.

Followon sample surveys—The 1987 Census of Agriculture program included two followon sample surveys and a special census of horticultural specialty operations. Followon surveys made it possible to select the most efficient samples to collect detailed data on subjects of special interest without adding greatly to the overall respondent burden. These surveys drew a sample of farms with specified characteristics (for the 1987 program, samples of farms using irrigation, farms with rented land and their landlords, and horticultural specialty operations) from the pool of agriculture census farms, and requested operators to provide more detailed information on their agricultural activities than it was possible to ask in the general census.

The Bureau carried out the first agriculture followon survey after the 1954 census, with a mail sample survey of farm expenditures. Since then, every agriculture census program except that for 1982 included at least one followon survey (the original plans for the 1982 census called for several, but these were canceled because of budget constraints). The 1978 program included sample surveys of farm finances, farm and ranch irrigation practices, farm energy use, and a census of horticultural specialties. The 1987 followon program originally consisted of a horticultural specialties census, a farm and ranch irrigation practices sample survey, an agriculture economics and land ownership survey, and a survey of irrigation organizations, but the last was dropped for budgetary reasons.

The followon operations drew samples from the agriculture census itself, so the census data collection operation and the subsequent identification of sample operations for any followon survey had to be completed before the latter could get under way. Thus the followon surveys (or censuses) usually were carried out for the calendar year following the census reference year; e.g., the 1987 followon program data-collection activities all took place in 1989, and requested data for calendar year 1988.

Report Form Content and Format

Content—Each census of agriculture required that a balance be struck between the opposing requirements of collecting the maximum amount of detailed information about agriculture and keeping response burden to a minimum. Data users discovered new items about which they needed information for each enumeration; accommodating

³An area-segment sample typically involved identifying particular geographic area segments, usually expected to have a specified average number of agricultural operations, and sampling the total number of segments identified. For the 1945 census, a 1-in-18 sample of area segments (each expected to contain five agricultural operations) in all counties was selected, and this, together with 50,000 large farms selected for certain inclusion, made up the national sample. Once a sample was selected, the Census Bureau or cooperating agency (USDA's National Agriculture Statistics Service (NASS) and its predecesor, the Statistical Reporting Service (SRS) frequently collaborated with the Bureau, making USDS's June Enumerative Survey area sample available for census evaluation, and other purposes) canvadded the farms in the segments to collect the data needed.

these needs with the realities of collecting the data desired from farm operators meant that report-form content and format were under continual study and redesign.

In the 19th century, the agriculture census schedules asked for simple production quantities and total sales values for selected products, with relatively few items on such things as machinery and equipment, or fertilizers used. Changes to these schedules generally were restricted to the kinds of crops and livestock for which data were requested. The 1900 census introduced questions on the race and tenure of farm operators, and from then on until today, the agriculture census collected a considerable amount of social and economic information, along with the crop and livestock data. During the period between the World Wars, questions were added on such things as the availability of electricity, telephone service, and paved roads, as well as the degree of mechanization of farm operations, and nonfarm employment and income. The race, sex, and ethnic background of farm operators became important objects of the census questionnaire after World War II, and the 1978 and later agriculture census report forms asked for the respondent's sex, and whether he or she was of Spanish/Hispanic origin.

Business organization, off-farm income, and participation in a variety of Federal Government agricultural programs became increasingly important to data users as well. Some information on organization and income had been requested since the 1920's, and following World War II, items were added on participation in various Federal loan and land-conservation programs. For 1974, the census questionnaire introduced an item on farm credit and debt, and for the 1987 census, additional inquiries on production expenses.

Format—The agriculture censuses employed a field canvass of farm operators until the 1969 census. During the 19th century, enumerators used pages in large ledger-type binders for collecting the agriculture (as well as other census) data. The Census Bureau began using separate agricultural questionnaires in the 1900 census, and has continued to do so since, except for the 1945 enumeration, which reverted to the binder format as a wartime measure.

The growing demand for more and more detailed data, and the opposing demand to hold respondent burden to a minimum led to compromises in every census, and to experiments during the 1940 and later censuses in tailoring report forms to reflect the special characteristics of agriculture in various parts of the country. The tailored forms typically had two sets of questions, one asking for basic information of all farm operations, and a second, varying from area to area, covering the crops and livestock produced there. This specialization of report forms reached its peak in the 1964 census, when there was a separate questionnaire for each State, Puerto Rico, Guam, and the Virgin Islands.

The agency eliminated the specialized forms for the 1969 census, when it designed two standard questionnaires—a "short" form asking for basic information, and a

"long" form that included additional items. Tailored report forms⁴ were used only for Hawaii, Puerto Rico, and the outlying areas. The census used the long form for farms in the 50 States expected to have \$2,500 or more in agricultural products sold during the census year, while the short form went to smaller farms. A similar format was used for the 1974 census, while the 1978 census had a variation of the system, with a somewhat longer basic questionnaire used for all farms, but with a "sample" questionnaire that included all the basic items plus six additional sections of inquiries for a sample of about 20 percent of all farms. Larger page size and other format changes enabled the Bureau to collect the data needed while reducing overall response burden by over 30 percent.

Standardization simplified the job in terms of designing, printing, mailing, and processing the questionnaire, but respondents still were unhappy about questions irrelevant to their own operations. The 1982 census reintroduced tailored questionnaires, although this time they were limited to specialization for 12 geographic regions of the country, plus separate questionnaires for the outlying areas, and with sample and nonsample forms⁵ for each region. The agriculture census "regions" did not coincide either with the Bureau's census geographic regions or with the USDA's regions, but were simply groupings of States in which the Bureau expected to find similar types of crops and livestock operations. The nonsample report form contained all the items requested of all farmers, while the sample version contained both the "core" items requested on the nonsample form, and additional questions, and was used for about 20 percent of all farms. The Bureau continued to use this system of regionalized/sample and nonsample report forms for the 1987 census, although the number of regions was raised to 13. (In the 1982 census, the Bureau there were 10 multi-State regions, while Florida and Hawaii each made up a region of their own. For the 1987 enumeration, Alaska was designated a separate region as well.)

Processing and Publishing the Data

Processing—Processing the census data during most of the 19th century was a fairly straightforward operation; the enumeration staff returned completed schedules to the census office and the clerical staff tabulated and compiled the data by hand. The introduction of mechanical punching and electric tabulating equipment (first used in the 1890 population census, and for the 1900 agriculture census) was a major methodological and technological change, so much so that a comparable transformation in processing

⁴The Bureau also produced separate report forms for the agricultural services census, and the decennial censuses of irrigation, drainage, and horticultural specialties carried out as part of the 1969 program.

⁵The sample forms were further specialized by the use of "must" report forms. "Must" forms were used for very large or special operations, and were identical to the other sample forms in content. A different shading color for "must" forms facilitated identification of these cases during clerical processing.

waited until the advent of the electronic computer and automated data processing systems half a century later. Technical improvements to the equipment continued throughout the intervening decades (e.g., the 1940 agriculture census introduced automated editing of the census punchcards), however, the basic systems introduced for processing at the turn of the century remained in place until after World War II.

The Census Bureau played a major role in the development of modern computer technology. Its staff drew up the specifications and cooperated in the design of the "Universal Automatic Computer," better known as UNIVAC, the first general-purpose electronic computer system, which was installed at the Bureau's Philadelphia field office in 1951 for use in processing the 1950 population census. The system was moved to the Suitland headquarters in time for the 1954 agriculture census. Even with the new system, a large clerical staff was required to manually edit the individual report forms before the data were keyed to punchcards for computer processing. The Bureau continued to modernize and expand its computer systems to take advantage of rapid developments in the technology. The 1964 census introduced "string" punching, which saved time in key punching and computer processing. This technology reduced the total number of punchcards needed to transfer the data to magnetic tape, and used computerized programs to perform much of the editing and tabulating work. For the 1969 census, the Bureau dispensed with punchcards altogether, keying the agriculture data directly to small magnetic tape reels, "pooling" (i.e., consolidating) the data on standard computer tape reels, and shipping the tapes to the main computer facility at Suitland for processing. High-speed printers produced copies of tables for review and correction, and even for photo-offset reproduction for publication. For the 1974 census, computer disks replaced the small tape reels, and the Jeffersonville office transmitted the data to Suitland electronically via telephone datalink. For the 1978 census, individual barcode address labels and laser "reading" equipment facilitated automated check-in. For the 1982 census, the data were keyed directly to computer disk once again, but there was no clerical edit before keying, since the capabilities of the edit programs developed by the Bureau made such manual editing unnecessary. The 1982 census also saw the first use of the interactive data-base system, which allowed analysts and others access to the entire data file to resolve problems. This system was expanded further for 1987, using minicomputer systems, the data-storage capacity of which made it possible to dispense with the paper printouts required in the earlier systems.

Publication—The agriculture census data traditionally were published in printed reports, containing tabulations at the national, State, or even county level (as appropriate for each report series), with occasional use of illustrations and graphics. Since the turn of the century, this conventional system was modified successively to include individual

reports for each State and county, special reports on selected subjects, greatly increased use of graphics and the development of a graphics report, and the adoption of electronic and other publishing media.

The Bureau employed relatively simple geography for publishing census data. Until the 1987 census reports were issued, the standard area reports covered the country as a whole, census geographic regions (and occasionally census divisions), States, and counties. For the 1987 enumeration, the Bureau produced selected statistics at the five-digit ZIP Code level as well; this was the first time agriculture census data were published for a level below the county since the first farm enumeration.

The early census reports sometimes included selected maps and an occasional chart, but these were very limited in scope. The Bureau produced the first *Graphic Summary*, showing farm tenure and land use, as part of the 1945 agriculture census publication program, and for 1969, introduced computer-generated maps as well as additional charts and graphs. Renamed the *Agricultural Atlas of the United States* for 1987, the graphics report became a regular and popular part of the census publication program.

The Bureau issued agriculture census data on computer tape-in two standard computer languages-for the first time as part of the 1964 publication program, although only tapes of the preliminary data were offered. For the 1969 and following censuses, the Bureau provided the final census data in computer tape files, while the preliminary data were made available only on tape for the 1978 enumeration. As computers and computer analysis became more and more widespread, data users indicated that they needed both the preliminary and final agriculture census data on computer tape, and urged expansion of the agency's data publication in machine-readable format to include new media, such as flexible diskettes. For the 1982 census, the Bureau issued both preliminary and final data files on computer tape, and released the preliminary data on flexible diskettes as well. Conventional computer tape files were those for which the user had to have access to a mainframe computer and the necessary programming and service staff such an installation required. Flexible diskettes, on the other hand, could be used in the rapidly proliferating minicomputer and microcomputer systems, although they had the drawback of limited data capacity per diskette (e.g., the 1982 agriculture preliminary data file required over 100 diskettes). As an alternative medium to the flexible diskette, while retaining accessibility to large census data files for users who did not have a major computer facility, the Bureau developed data files for sale on compact disc-read only memory (CD-ROM). The CD-ROM format employed rigid plastic disks virtually identical to those introduced for audio recordings, and a single CD-ROM had a data capacity comparable to four high-density computer tapes. Moreover, while special "readers" were required to use the new product, the equipment could be added to a standard minicomputer or even microcomputer system at minimal expense, while giving the user access to an enormous amount of data. The entire 1987 agriculture census data file could be contained on a single CD-ROM disk with room to spare. After producing two test disks to evaluate the capabilities of the new medium, the Bureau adopted it for future censuses and issued the final 1987 agriculture census data file on a single CD-ROM.

THE FARM DEFINITION

The first official definition of what constituted a farm for census purposes was used for the 1850 census, when any place qualified that had \$100 or more in total value of sales of agricultural products. Since 1850, acreage and dollarvalue limits were added, altered, or removed, while a requirement evolved that the land on the place be (1) involved in, or connected with, agricultural operations, and (2) under the day-to-day control of a single management (either by an individual, partnership, corporation, or other organization).

The important point was, of course, the involvement with agricultural operations, which-again for census purposes-were the production of livestock, poultry, and animal specialties, and their products, and/or crops, including fruit, and greenhouse and nursery products. The land did not need to be a single contiguous tract to comprise a single farm, but had to be operated as a single economic unit (although exceptions were allowed; see the section on the 1950-1954 definition below).

The changes in the various criteria used in the farm definition, by census, were-

1850-1860	No acreage requirement, but a minimum of
	\$100 in sales of agriculture products.

1870-1890	Any place of 3 or more acres, involved with agricultural production, qualified as a farm.
	Places with less than 3 acres were consid-
	ered farms if they had a minimum annual
	value of agricultural product sales of \$500.

No acreage or minimum sales requirement, and cranberry marshes, greenhouses, and city dairies were included if they required the full-time services of at least one person.

1910-1920 A minimum of 3 acres, with \$250 or more in total value of sales, unless the individual operation required the full-time services of at least one person.

1850-1860 No acreage requirement, but a minimum of \$100 in sales of agriculture products.

The requirement of the full-time services of 1925-1945 at least one person was deleted; otherwise the definition was unchanged.

1950-1954

Places of less than 3 acres qualified as farms if they had, or normally would have had, sales of \$150 or more in agricultural products during the census year. Places that began operating for the first time as farms in 1954 also were included. Parcels operated by sharecroppers, and tenant farms, counted as separate farms, even though the landlord handled the entire holding as a single unit. (Land retained and operated by the landlord also was counted as a separate unit.)

1959-1974 The acreage requirement was raised to 10 acres or more, with at least \$50 or more in agricultural product sales. A place of less than 10 acres qualified as a farm if it had sales of \$250 or more during the census year.

1978-1987 The acreage requirement was dropped and any place that had, or normally would have had, \$1,000 or more in total agricultural product sales during the census year, qualified as a farm.

The farm definitions used in Puerto Rico and the outlying areas differed from that employed in the States. In Puerto Rico, the definition generally required 3 or more cuerdas (a cuerda equals approximately .97 acres) and/or specified numbers of livestock, poultry, or fruit or nut trees. The outlying areas' definitions generally were similar, although in American Samoa a variety of different landholding arrangements had to be taken into consideration in defining individual agricultural operations.

The Census Bureau and the Puerto Rican Government agreed to change the farm definition to give greater emphasis to product sales in the 1982 census, when a farm was any place with \$500 or more in annual sales of agricultural products, or any place of 10 cuerdas or more with \$100 in sales of agricultural products. The 1987/1990 agriculture censuses in the other outlying areas saw a similar change, when the crop, livestock, and acreage requirements were dropped, and a farm was defined as any place that had, or normally would expect to have, \$100 in annual sales of agricultural products.

1900



Appendix C.

Organization of the Bureau of the Census and Key Personnel for the 1987 Census of Agriculture

During the 1987 Census of Agriculture period (October 1, 1985 to September 30, 1990), the Bureau of the Census was organized under a Director, a Deputy Director, and several Associate and Assistant Directors. With the approval of the Department of Commerce, the Census Bureau was reorganized in January 1987, when some positions and units were abolished and new ones were established. (See below for Bureau organizational charts for the census period.)

The list below, following the Executive Staff, is by operational division or office for the census period. Persons listed are those professional and other key personnel who were substantially involved in planning, conducting, and publishing the agriculture census, and disseminating the results. Dates are shown for individuals only when their service with a particular unit did not cover the entire period in which the unit was involved in agriculture census activities.

EXECUTIVE STAFF

The Director determined policies and directed the programs of the Bureau, taking into account applicable legislative requirements and data users' needs. The Director was responsible for the Census Bureau's activities and for coordinating its statistical programs with those of other Federal statistical agencies, with due recognition of the programs developed and regulations issued by the Office of Management and Budget and the Department of Commerce.

The Director was assisted by a Deputy Director who shared the responsibilities, performed the functions of the Director in the latter's absence, and was responsible for the Congressional Affairs, Program and Policy Development, and Public Information Offices, and the Office of the Deputy Chief Counsel. On their immediate staff, at the time of the 1987 agriculture census, were five Associate Directors (six after January 1987), seven Assistant Directors (five after January 1987), and several Special Assistants.

The Associate Director for Economic Programs (Associate Director for Economic Fields prior to January 1987) and the Assistant Director for Economic and Agriculture Censuses (who also served as Chief of the Economic Census Staff prior to January 1987) had overall responsibility for the 1987 agriculture census and coordinated the activities of all the divisions involved. The Agriculture Division prepared technical specifications and arranged for necessary services from the Census Bureau's support divisions. The functions and key personnel of all divisions and division units that worked on the census are listed below.

Director

Barbara E. Bryant, from Nov. 1989 C. Louis Kincannon, Acting, from Jan. 1989 to Nov. 1989 John G. Keane, to Jan. 1989

Staff

Chief Counsel, Vacant, from June 1986 to Oct. 1986 (position abolished Oct. 1986)

Gerard C. lannelli, Chief Counsel, from Dec. 1985 to June

Alfred J. Tella, Special Adviser, to Apr. 1986

Deputy Director

C. Louis Kincannon

Staff

Theodore G. Clemence, Senior Advisor, to Oct. 1988 Melvin A. Hendry, Census Bureau Committee Liaison Officer, to Dec. 1985

CONGRESSIONAL AFFAIRS OFFICE (Congressional Liaison Office to Jan. 1987; prior to that date, it reported to the Assistant Director for Communications; Office of Congressional Affairs from Jan. 1987 to Mar. 1988)

This office advised the Director on all congressional matters involving the Census Bureau's activities and served as the primary point of coordination for maintaining liaison on such activities with the Congress in collaboration with the Department of Commerce's Office of Congressional Affairs (Office of Legislative Affairs after Jan. 1990).

A. Mark Neuman, Congressional Liaison Officer, from Aug. 1989

Frederick Ruth, Congressional Liaison Officer, from Oct. 1985 to Aug. 1989 (Acting from Aug. to Oct. 1985) Leon H. Hampton, Jr., Congressional Liaison Officer, to July 1985

PROGRAM AND POLICY DEVELOPMENT OFFICE

This office assisted in the overall planning, reviewing, and evaluation of Bureau-wide programs; reviewed and evaluated program accomplishments in relation to plans: and served as the focal point for determining and assessing goals and long-range policy and resource plans.

M. Catherine Miller, Chief, from March 1990 Sherry L. Courtland, Chief, to March 1990

PUBLIC INFORMATION OFFICE

This office, which had been responsible to the Assistant Director for Communications prior to January 1987, directed the information, publicity, and press relations programs for the censuses, including preparation and dissemination of press releases and articles to general and specialized news media, and provided other assistance to news representatives.

James E. Gorman, Chief
Eugene M. Cagle, Assistant Chief
Angela Green, Public Affairs Specialist, from Oct. 1986
Mavis V. Dion, Public Affairs Specialist, to Sept. 1985
(position vacant, Sept. 1985 to Oct. 1986)

OFFICE OF THE DEPUTY CHIEF COUNSEL (Established Oct. 1986)

This office provided counsel and legal services to the Census Bureau subject to the authority of the Department of Commerce's Office of the General Counsel.

J. Patrick Heelen, Deputy Chief Counsel, from Oct. 1986

Assistant Director for Communications (Abolished January 1987)

The Assistant Director for Communications planned and directed the public affairs and promotional activities of the Bureau, provided congressional liaison services, advised the Deputy Director in these activities, and had responsibility for the Data User Services Division and the Public Information Office.

James E. Gorman, Acting, to Jan. 1987

Associate Director for Economic Programs (Associate Director for Economic Fields prior to Jan. 1987)

The Associate Director for Economic Programs planned and directed the economic statistical programs, and advised the Director in these fields. He supervised the Business, Construction Statistics, Economic Surveys, Foreign Trade, Governments, and Industry Divisions, and the Center for Economic Studies.

Charles A. Waite

Staff

Paula N. Muroff, Special Assistant Walter E. Neece, Statistician John O. Ostenso, Economic and Legislative Advisor, from July 1985

CENTER FOR ECONOMIC STUDIES

This center, reporting directly to the Associate Director for Economic Fields, planned, developed, and published analyses directed at improving the usefulness and validity of the Bureau's economic censuses and other economic data; developed and prepared studies of trends and relationships in the Bureau's economic reports and in series from other sources; and prepared special analytical and interpretative reports and monographs dealing with the data being published and the large body of economic microdata at its disposal. (Established as an independent unit in Jan. 1987, responsible to the Associate Director for Economic Programs.)

Robert H. McGuckin III, from Nov. 1986 Robert Bechtold, Acting Chief, from Dec. 1985 to Nov. 1986 John R. Norsworthy, Chief, to Dec. 1985

Assistant Director for Economic and Agriculture Censuses

This Assistant Director provided overall direction for program planning of the economic and agriculture censuses; developed budget requirements, time schedules, and controls; coordinated plans for data collection and publication, the development of census methodology, and the data-processing system; maintained liaison with other divisions for data collection and other support needs; and developed and coordinated a data dissemination program. Under the supervision of the Associate Director for Economic Programs, he was responsible for the Economic Census Staff and the Agriculture and Economic Programming Divisions, the last one as of January 1987. The Assistant Director also served as the Chief of the Economic Census Staff prior to July 1986.

Roger H. Bugenhagen, from Apr. 1986 John H. Berry, to Apr. 1986

Staff

Stanley M. Hyman, Special Assistant John R. Wikoff, Special Assistant, to Jan. 1987

Associate Director for Management Services

This Associate Director supervised administrative services, with due consideration of those specifically provided by the Department of Commerce, to all components of the Census Bureau; planned and directed programs for electronic data-processing operations and techniques; directed activities of the Equal Employment Opportunity Office; and advised the Director in these fields.

O. Bryant Benton

U.S. DEPARTMENT OF COMMERCE **Bureau of the Census** Feb. 1, 1987 DIRECTOR **Deputy Director** C. Louis Kincappo ASSOCIATE DIRECTOR ASSOCIATE DIRECTOR ASSOCIATE DIRECTOR **DECENNIAL CENSUS ECONOMIC PROGRAMS** DEMOGRAPHIC PROGRAMS Charles D. Jones Charles A. Waite William P. Butz ASSISTANT DIRECTOR ECONOMIC SURVEYS DIVISION ASSISTANT DIRECTOR OFFICE OF THE DEPUTY OFFICE OF ONGRESSIONAL AFFAIRS ECONOMIC AND AGRICULTURE CENSUSES ASSISTANT DIRECTOR INTERNATIONAL Patrick J. Heelen Peter A. Bounnane Frederick A. Ruth W. Joel Richardson PROGRAMS Roger Bugenhagen Robert O. Bartram CENTER FOR ECONOMIC STUDIES DECENNIAL OPERATIONS DECENNIAL PLANNING PUBLIC INFORMATION OFFICE PROGRAM AND POLICY DEVELOPMENT OFFICE DIVISION ECONOMIC CENSUS STAFF Robert McGuckin III Arnold A. Jackson Susan M. Miskura CENTER FOR INTERNATIONAL James F. Gorman Sherry L. Courtland STATISTICAP Thomas Mesenbourg PROGRAMS CENTER RESEARCH ONSTRUCTION STATISTICS 1990 CENSUS John H. Berry Barbara B. Torrey GEOGRAPHY DIVISION DIVISION Leonora M. Gross AGRICULTURE DIVISION Robert W. Marx (Vacant) Charles P. Pautier, Jr. CENTER FOR DEMOGRAPHIC STUDIES GOVERNMENTS DIVISION STATISTICAL SUPPORT James R. Wetzel John R. Coleman ECONOMIC PROGRAMMING (Vacant) DIVISION DEMOGRAPHIC SURVEYS DIVISION Barry M. Cohen HOUSING DIVISION INDUSTRY DIVISION Thomas C. Walsh Arthur F. Young Gavlord E. Worden STATISTICAL METHODS DIVISION POPULATION DIVISION FOREIGN TRADE DIVISION BUSINESS DIVISION (Vecant) Paula J. Schneider, Acting Howard N. Hamilton Don L. Adams ASSOCIATE DIRECTOR STATISTICAL STANDARDS ASSOCIATE DIRECTOR ASSOCIATE DIRECTOR EEO OFFICER MANAGEMENT SERVICES FIELD OPERATIONS AND METHODOLOGY Roland H. Moore Barbara A. Bailar Bryant Benton Charles C. Rodney STATISTICAL RESEARCH DIVISION CENTER FOR SURVEY ASSISTANT DIRECTOR ASSISTANT DIRECTOR DATA USER SERVICES DIVISION DATA PREPARATION METHODS RESEARCH **ADMINISTRATION** ADP DIVISION Kirk M. Wolter Elizabeth Martin Gerald F. Cranford Gerard C. lannelli Joseph S. Harris PURLICATIONS PROCUREMENT OFFICE SERVICES DIVISION ADP PLANNING AND TECHNICAL SERVICES FIELD DIVISION Walter C. Odom, Jr. [Vacant] C. Thomas DiNenna Richard L. Maier Stanley D. Matchett ADMINISTRATIVE SERVICES DIVISION BUDGET DIVISION REGIONAL OFFICES Joseph P. Bellomo Michael G. Garland COMPUTER SERVICES SYSTEMS SUPPORT Seattle, Wash, Charlotte, N.C. Atlante, Ga. Dallas, Texas Denver, Colo. Los Angeles, Ca. Boston, Mass New York, N.Y. Philadelphia, Pa. Detroit, Mich. Arnold E. Levin John E. Halterman ORGANIZATION AND MANAGEMENT SYSTEMS PERSONNEL DIVISION Chicago, III. Kansas City, Kan, David P. Warner Michael S. McKay

FINANCE DIVISION

James D. Lincoln

EQUAL EMPLOYMENT OPPORTUNITY OFFICE

This office guided and assisted the Associate Director for Management Services in equal employment opportunity matters.

Marilia Matos, Equal Employment Manager, from Sept. 1987 (position vacant from June 1987 to Sept. 1987) Charles C. Rodney, Equal Employment Manager, to June 1987

Assistant Director for Automated Data Processing (ADP)

The Assistant Director assisted the Associate Director for Management Services in directing the Computer Services, Systems Support, and Technical Services Divisions. and the ADP Planning and Acquisition Staff.

Gerald F. Cranford

ADP PLANNING AND ACQUISITION STAFF (Abolished as a staff reporting directly to the Assistant Director in Jan. 1987.)

Richard L. Maier, Chief, to Jan. 1987

Assistant Director for Administration

The Assistant Director assisted the Associate Director for Management Services in supervising the Administrative and Publications Services (two separate divisions prior to Feb. 1990), Budget, Finance, Organization and Management Systems, and Personnel Divisions, and the Procurement Office.

Clifford J. Parker

FINANCE STAFF

(Abolished as a staff reporting directly to the Assistant Director in Jan. 1987; see Finance Division.)

This staff performed financial analysis, maintained financial accounts, coordinated payroll and leave audits, and prepared financial reports.

James D. Lincoln, Acting Chief, from Mar. 1986 to Jan. 1987

William A. Prentice, Chief, to Mar. 1986

Associate Director for Field Operations

This Associate Director planned and directed datacollection and noncomputer-processing operations, and advised the Director in these matters. The Associate Director for Field Operations was responsible for the Data Preparation, Data User Services (after January 1987; prior to that date, this division officially reported to the Assistant Director for Communications), Field, and Geography Divisions, the last one prior to January 1987. (At that time, Geography Division was placed under the Associate Director for Decennial Censuses.)

Roland H. Moore

Associate Director for Statistical Standards and Methodology

This Associate Director planned and directed programs relating to the statistical adequacy of proposed collections and the application of appropriate statistical methodology and techniques; carried out long-range studies on the basic problems of measuring social and economic phenomena; provided research and consulting facilities oriented specifically toward psychological and behavioral science factors; and advised the Director in these fields. He or she directed the following units: the Center for Survey Methods Research and the Statistical Research Division.

Robert M. Groves, from Mar. 1990 William P. Butz, Acting, from Jan. 1989 to Mar. 1990 C. Louis Kincannon, Acting, from Jan. 1988 to Jan. 1989 Barbara A. Bailar, to Dec. 1987

Staff

Lawrence H. Cox. Senior Mathematical Statistician Carolee Bush, Project Coordinator, from May 1986 to July 1988

DIVISIONS AND OFFICES

Administrative and Publications Services Division

(Separate divisions prior to Feb. 1990; unless otherwise noted, all positions in the combined division were held from Feb. 1990.)

This division secured space, supplies, and equipment; arranged for communications, transportation, and related services; designed the census questionnaires in conjunction with the economic subject-matter divisions; and supplied art, editorial, copy preparation, and printing coordination services for census questionnaires and publications.

Chief

Walter C. Odom, Jr.

Staff

Wayne H. Massey, Special Assistant to the Chief

Michael G. Garland, Assistant Chief

Barbara J. Stanard, Chief, Space and Facilities Management Branch

Albert W. Cosner, Chief, Forms and Mail Management Branch

Joyce E. Teague, Chief, Economic/Administrative Forms Section

Cathern S. Kline, Chief, Forms/Mail Management Support Services Section

Russell S. Price, Chief, Property, Records, and Supply Branch

Gary J. Lauffer, Chief, Printing Branch, from July 1990 (position vacant from Feb. 1990 to July 1990)

Gerald A. Mann, Chief, Publications Planning and Graphics Branch

Larry D. Tackett, Chief, Recurring Publications Section

David M. Coontz, Chief, Electronic Graphics Section Nicholas A. Preftakes, Chief, Creative and Design Staff

John T. Overby, Chief, Census Publications Section

Administrative Services Division

(Merged with Publications Services Division in Feb. 1990; unless otherwise noted, personnel continued in positions listed after divisions merged.)

This division secured space, supplies, and equipment; arranged for communications, transportation, and related services; and designed the census questionnaires in conjunction with the economic subject-matter divisions.

Chief

Michael G. Garland, from Mar. 1986 to Feb. 1990 Albert M. Cosner, Acting, from Dec. 1985 to Mar. 1986 Robert Kirkland, to Dec. 1985

Staff

Barbara J. Stanard, Assistant Chief, from May 1986 to Feb. 1990

Albert W. Cosner, Chief, Forms and Mail Management Branch

Joyce E. Teague, Chief, Economic/Administrative Forms Design Section, from Nov. 1988

Cathern S. Kline, Chief, Economic/Administrative Forms Design Section, to Nov. 1988

Cathern S. Kline, Chief, Forms/Mail Management Support Services Section, from Nov. 1988

Joyce E. Teague, Chief, Forms/Mail Management Support Services Section, to Nov. 1988

ADP Planning and Acquisition Staff

(Established as separate unit, Jan. 1987.)

This staff prepared long-range information technology plans for submission to the Department of Commerce, coordinated requirements with the Department of Commerce, and assisted the Census Bureau's divisions and offices in acquiring information technology.

Chief

Richard L. Maier, from Jan. 1987

Agriculture Division

The Agriculture Division formulated and developed overall plans and programs for the collection, processing, and dissemination of statistical data from surveys or censuses relating to agriculture, agricultural activities or products, equipment and facilities, and cotton ginning. It planned and developed systems, prepared computer specifications for the processing of agricultural information, and conducted research and prepared analytical reports for special studies related to agricultural production in the United States.

Chief

Charles P. Pautler, Jr.

Staff

✓Elaine Richards, Administrative Officer, from Oct. 1989 (Position vacant, Sept. to Oct. 1989.)

Kathryn N. Walsh, Administrative Officer, from June to Sept. 1989

Sandra Viverette, Administrative Officer, to June 1989 Mark A. Meggs, Computer Systems Analyst, from April 1988

Patrick L. McDonald, Computer Systems Analyst, from Jan. 1987 to Nov. 1987

George E. Pierce, Assistant Chief, Planning, from Sept. 1987. (Chief, Agriculture Census Planning Staff to Sept.

Patricia A. Clark, Statistician

William A. Harlan, Chief, Procedures Branch, from Aug.

Kent C. Hoover, Chief, Procedures Branch, to July 1986 Betty B. McKay, Statistician

Beverly E. Battle, Statistician

Christopher L. Berbert, Statistician

Donald F. Cheza, Statistician, to Dec. 1987

Sandra E. Hairston, Statistician

✓Charles L. Kendall, Statistician, from June 1987 Bernadette L. Skinner, Statistician

Darrin M. Stalba, Statistician, from Sept. 1988

Douglas Joel Miller, Chief, Data Requirements and Outreach Branch, from Dec. 1987

Cynthia R. Shipley, Statistician, to Aug. 1989

Quentin C. Coleman, Statistician, from Jan. 1987 Durwin Knutson, Statistician, from Jan. 1989 Francis D. Tolson, Statistician, to Sept. 1987 Susan E. Luckett, Statistician-in-training, from Sept.

Janet L. Allen, Statistician-in-training, from Sept. 1989



Thomas J. Manning, Chief, Publications and Information

Karin G. Meyers, Writer-Editor

Janet T. Robertson, Editorial Assistant

Tina M. Wimbush, Editorial Assistant, from Dec. 1987

✓Sharon L. Powers, Information Officer, from Dec. 1989

Debbie A. Norton, Information Officer, from Nov. 1988 Brenda L. Prout, Information Officer, from Mar. 1987 to Oct. 1988

Mary B. Burch, Information Officer, to June 1986 Cecelia H. Peets, Writer-Editor, from Sept. 1990

John C. Womack, Assistant Chief, Agricultural Statistics, from March 1987

Richard R. Storm, Assistant Chief, Agricultural Statistics, to Nov. 1986

Avon B. Floyd, Special Assistant, to Aug. 1989

Arlon M. Scott, Statistician

Thomas M. Marks, Statistician

Thomas N. Scott, Statistician

James C. Vogelsang, Statistician

Greer S. Cowley, Statistician, from July 1987 to Oct. 1989

Neil R. Collignon, Statistician, from July 1987

Anne M. McGaughy, Statistician, from Dec. 1987 to

John D. Ward, Statistician, from Jan. 1988 to May 1989

Scott Wright, Statistician, to Oct. 1989

James A. Liefer, Chief, Farm Economics Branch, from Oct. 1986

Sohn A. Blackledge, Chief, Farm Economics Branch, to June 1986

William R. Adams, Statistician, from April 1987 to July 1990

Donald F. Cheza, Statistician, from Dec. 1987

Joseph M. Miller, Statistician, to Aug. 1986, and from Aug. 1987

Irving W. Copeland, Statistician

Şandria C. Everett, Statistician, to June 1989

Douglas Hartwig, Statistician, from June 1988

Brian L. Lounsbury, Statistician, from Jan. 1987 to Aug. 1987

Douglas John Miller, Statistician, from June 1987 to Aug. 1989

Scott Wright, Statistician, from Oct. 1989 to June 1990 Cynthia R. Pitts, Statistician, from June 1987 to July

James E. Patterson, Statistician, to Dec. 1987

Donald R. Jahnke, Chief, Crop Statistics Branch

ohn H. Barrett, Survey Statistician, to Sept. 1990لر

Frank J. Shelton, Survey Statistician

Hubert E. Sites, Statistician, to Nov. 1987

Cynthia R. Pitts, Statistician, to May 1987

Carl N. McAllister, Statistician

Roy J. Karkosh, Statistician, from Feb. 1988

Nancy L. Swaim, Statistician, from Aug. 1985

Herman C. Williams, Statistician, from Nov. 1988 Esther C. Darnell, Statistical Assistant

Linda J. Hutton, Chief, Livestock Statistics Branch, from Apr. 1990 (position vacant from Jan. to Apr. 1990)

Thomas D. Monroe, Chief, Livestock Statistics Branch, to Jan. 1990

William R. Adams, Statistician, to Apr. 1987

John A. Branch, Statistician

Albert W. Graybill, Statistician, to Dec. 1989

Jerry D. Imel, Statistician

✓John F. Lee, Statistician

Mark A. Meggs, Statistician, to Apr. 1988

Robert E. Miller, Statistician

James L. Thomas, Statistician

Joyce U. Paras, Statistician, to Feb. 1989

John D. Ward, Statistician, from May 1989

L. Odell Larson, Assistant Chief, Outlying Areas and Special Surveys, from July 1988 (position vacant from March to July 1988)

Carl J. Bostrom, Assistant Chief, Outlying Areas and Special Surveys (Special Surveys prior to Aug. 1987), from June 1986 to Mar. 1988 (position vacant from Jan. 1986 to June 1986)

Kenneth R. Norell, Assistant Chief, Special Surveys, to Jan. 1986

John A. Blackledge, Chief, Special Surveys Branch, from June 1986

Christopher S. Barteau, Statistician, from Sept. 1986 to Sept. 1988

Michael S. Elson, Statistician, from May 1987 to May

Sara L. Hamrick, Statistician, from March 1989

Cleo R. Jenkins, Statistician, from Oct. 1987 to May 1989

Jeannette K. Mon, Statistician, from July 1986 Joseph M. Miller, Statistician, from Aug. 1986 to Aug. 1987

Francis D. Tolson, Statistician, from Sept. 1987

David I. Peterson, Statistician, from Aug. 1987

Jody D. Roberts, Statistician, from June 1987 Dirk E. Van Dyke, Statistician, from Jan. 1989

✓ Kent C. Hoover, Chief, Outlying Areas Statistics Branch. from Mar. 1987

John C. Womack, Chief, Outlying Areas Statistics Branch, to Mar. 1987

Demosthenes Birbilis, Statistician, to Apr. 1990

Irma F. Harahush, Statistician, from Oct. 1987

Ronald D. Lewis, Statistician

Jeanette K. Mon, Statistician, to July 1986 Zulma Riberas, Statistician, from Oct. 1989

*Aida Margarita Sole, Statistician, from June 1986 Gary Swenson, Statistician, from June 1986 to Mar.

Cynthia Z. F. Clark, Assistant Chief, Research and Methodology

Charles R. Perry, Chief, Program Research and Development Branch, from May 1990

Jane Dea Sandusky, Acting Chief, Program Research and Development Branch, from Nov. 1989 to May 1990

D. Dean Prochaska, Chief, Program Research and Development Branch, to Nov. 1989

Melody M. Atkinson, Statistician

Susan C. Beverage, Mathematical Statistician, from June 1988 to Jan. 1990

William C. Davie, Mathematical Statistician Bruce P. Hughes, Mathematical Statistician James A. Joerger, Statistician

Emily Burton, Statistician, to Oct. 1987

Anne M. McGaughey, Mathematical Statistician, from Apr. 1987 to Nov. 1987, and from May 1989 to Feb. 1990

Donna R. Ruggles, Statistician, to Sept. 1987 Jane Dea Sandusky, Statistician

Karen E. Wright, Mathematical Statistician, from Aug. 1988

Elizabeth A. Vacca, Chief, Research and Methods Branch, from Oct. 1988

Ruth Ann Killion, Chief, Research and Methods Branch, from Jan. 1986 to Oct. 1987

Cynthia Z. F. Clark, Acting Chief, Research and Methods Branch, to Dec. 1985, and from Nov. 1987 to Sept. 1988

Nicholas S. Alberti, Mathematical Statistician, to Apr. 1987

Janice L. Ausby, Mathematical Statistician, to Feb. 1988

Scott M. Burroughs, Mathematical Statistician, from Jan. 1988

Inez Chen, Mathematical Statistician, from Jan. 1988 Pamela W. Ferrari, Mathematical Statistician, to July 1987

Mary C. Gatt, Mathematical Statistician, from Jan. , 1986

Tommy W. Gaulden, Mathematical Statistician
Colleen Sullivan, Mathematical Statistician, from Aug.

1988 David V. Hornick, Mathematical Statistician, from Sept. 1988

Karen S. McKelvey, Mathematical Statistician, from May 1986

Dedrick L. Owens, Mathematical Statistician

Lisa Polgreen, Mathematical Statistician, to June 1987 Magdalena Ramos, Mathematical Statistician, from Sept. 1987

Michael I. Ringwelski, Mathematical Statistician, from Jan. 1988

Richard Schmehl, Mathematical Statistician, from Nov. 1988

Elizabeth A. Vacca, Mathematical Statistician, to Oct. 1988

Franklin Winters, Mathematical Statistician

Budget Division

This division performed budget functions that included the preparation of official budget estimates and justifications, and the allocation and control of funds.

Chief

Joseph P. Bellomo

Computer Services Division

This division operated and managed the Bureau's electronic computers and related auxiliary equipment; planned and performed associated coordination for data keying, scheduling for computer processing, staging, and tape library services; and provided user services, such as documentation, source program optimization, programming methodologies, and standards to facilitate the use of the Bureau's automated dataprocessing resources.

Chief

Marvin D. Raines, from Nov. 1988; Acting, from July to Nov. 1988

John E. Halterman, to July 1988

Staff

George M. Bowden, Assistant Chief, Administration, to Oct. 1989 (position abolished Oct. 1989; its functions were transferred to the Management and Administrative Systems Staff (which reported directly to the Division Chief) and Special Projects Staff (which reported to the Assistant Chief for Operations))

Gary H. Dickerson, Assistant Chief, Computer Analysis and Support

Robert C. Schlie, Assistant Chief, Operations, from Apr. 1989

Marvin D. Raines, Assistant Chief, Operations, from May 1987 to Apr. 1989 (position vacant from Jan. 1987 to May 1987)

Willie E. Clark, Assistant Chief, Operations, to Dec. 1986

Data Preparation Division

Based on specifications and procedures provided by the subject-matter/program division, this division in Jefferson-ville, IN, performed large-scale processing operations, such as questionnaire labeling, mailing-package assembly, report followup and check-in, editing and coding of returns, data capture, and clerical review and correction of computer-identified problems. It also generated necessary correspondence related to these operations.

Chief

Joseph S. Harris, from Feb. 1986 (Acting, from Dec. 1985 to Feb. 1986)

Patricia M. Clark, Acting, from Oct. 1985 to Dec. 1985 Don L. Adams, to Oct. 1985

Staff

Patricia M. Clark, Assistant Chief, Operations

Plummer Alston, Jr., Assistant Chief, Administration, from July 1986

Jerry L. Hartman, Chief, Management and Procedures Branch

Juanita Jones, Chief, Statistical Methods and Quality Control Branch

William B. Neely, Chief, Data Systems Branch, from Dec.

George E. Wilson, Chief, Data Systems Branch, to Dec. 1989

Jane L. Woods, Chief, Geography Branch, from Mar. 1989; Acting, from Jan. to Mar. 1989

Harold K. Wood, Chief, Geography Branch, from Aug. 1986 to Jan. 1989

Wendell McManus, Acting Chief, Geography Branch, from Oct. 1985 to Aug. 1986

J. Gary Doyle, Chief, Geography Branch, to Oct. 1985

Judith N. Petty, Chief, Census Processing Staff (Periodic Censuses and Related Surveys Branch prior to July 1989)

Carolyn Roseman, Chief, Support Services Staff, from Nov. 1988; Acting from Jan. to Nov. 1988

Kurt L. G. Legait, Chief, Support Services Staff, to Jan. 1988

Kurt L. G. Legait, Chief, Microfilm and Materials Services Branch, from Jan. 1988

Data User Services Division

This division, in cooperation with the Office of the Assistant Director for Economic and Agriculture Censuses. planned, coordinated, and administered a comprehensive data-dissemination and user-services program for these censuses: conducted seminars, workshops, and conferences; oversaw the Bureau's library operations; and prepared and produced user aids such as slides and video tapes, and reference materials such as this History.

Chief

Gerard C. lannelli, from Sept. 1986; Acting, from July 1986 to Sept. 1986

Don L. Adams, Acting, from Oct. 1985 to June 1986 Michael G. Garland, to Oct. 1985

Staff

Marie Argana, Assistant Chief, User Services, from June 1987 (Acting Assistant Chief, from Oct. 1986 to June

Marshall L. Turner, Assistant Chief, User Services, to Oct. 1986

Alfonso E. Mirabal, Assistant Chief, Statistical Reports, from May 1989 (position vacant from Jan. 1987 to May

Paul T. Zeisset, Assistant Chief, Statistical Reports, to Jan. 1987

Frederick G. Bohme, Chief, Census History Staff Michael A. Hovland, Agriculture Census Historian

Deborah Barrett, Chief, Customer Services Branch, from Sept. 1987; Acting from Dec. 1984 to Sept. 1987 Forrest B. Williams, Chief, Customer Services Branch, to Dec. 1984

Larry W. Carbaugh, Chief, State and Regional Programs Staff

Forrest B. Williams, Chief, Systems and Programming Staff, from Sept. 1987 (Acting Chief, from Dec. 1984 to Sept. 1987)

John Kavaliunas, Chief, User Training Branch, from Nov. 1988

Carmen A. Campbell, Acting Chief, User Training Branch, Mar. 1988 to Nov. 1988

Deborah Barrett, Acting Chief, User Training Branch, from Sept. 1987 to Mar. 1988; Chief to Sept. 1987

Decennial Planning Division

This division provided overall direction for program planning and coordination of the decennial census; assigned functional responsibilities to divisions; developed program priorities, budget requirements, and time schedules; monitored and documented program and budget status. The division was responsible for liaison with other Bureau divisions for data needs and associated information and materials, and also with the Office of the Secretary (of Commerce), advisory committees, and other Federal, State, and local government agencies with regard to decennial census operations. The Decennial Planning Division had primary responsibility for supervising the 1990 Decennial Censuses in American Samoa and the Commonwealth of the Northern Mariana Islands, which included the 1990 Census of Agriculture for those areas. It coordinated all census activities in the areas, and cooperated with Agriculture Division in developing plans and materials for the agricultural enumeration.

Chief

Susan M. Miskura, Chief

Staff

Patricia A. Berman, Assistant Chief, Content and Products

Lourdes N. Flaim, Chief, Puerto Rico and Outlying Areas Branch, from Mar. 1988

Alfred J. Giglitto, Acting Chief, Puerto Rico and Outlying Areas Branch, Jan. 1987 to Jan. 1988

George E. Hurn, Chief, Special Programs Branch, to Aug. 1987 (Branch renamed Puerto Rico and Outlying Areas Branch in Aug. 1987)

Thomas L. Ondra, Census Advisor, American Samoa, Nov. 1989 to October 1990

Carolyn R. Hay, Census Advisor, Northern Mariana Islands, Dec. 1989 to Sept. 1990

Paulette Lichtman-Panzer, Chief, Outlying Areas Section, from Sept. 1990

Janelle Fowler, Chief, Outlying Areas Section, Nov. 1988 to Sept. 1990

Irma F. Harahush, Chief, Outlying Areas Section, Nov. 1985 to Oct. 1987

Beulah S. Payne, Survey Statistician, Aug. 1986 to Apr. 1987

Nanette H. P. Sukla, Survey Statistician, July 1987 to Sept. 1988

Judy G. Belton, Survey Statistician, from Nov. 1987 Kimberly K. Giesbrecht, Survey Statistician, from Nov. 1987

Economic Census Staff

This staff coordinated and reviewed the planning, processing, and publication of the censuses; developed item schedules; and allocated census funds. The chief of this staff was the Assistant Director for Economic and Agriculture Censuses prior to July 1986 (see above).

Chief

Thomas L. Mesenbourg, from July 1986 Roger Bugenhagen, from Apr. 1986 to July 1986 John H. Berry, to Apr. 1986

Staff

Carole A. Ambler, Special Assistant, from Oct. 1987 Robert Marske, Special Assistant, from Dec. 1988 Beverly M. Eng, Special Assistant B. J. Fitzpatrick, Special Assistant, from Feb. 1990 Mark Grice, Special Assistant, to Aug. 1985 Conrad J. Jacob, Coordinator, to Jan. 1987 Paul A. Zeisset, Special Assistant, from Jan. 1987 Thea J. Scott, Fiscal Analyst, from July 1986 Stanley M. Hyman, Survey Statistician

Economic Programming Division

(Established Jan. 1987)

This division planned and developed systems and prepared computer programs for the processing of all economic and agriculture censuses on electronic data-processing equipment on a consolidated basis, and provided systemsdevelopment activities needed.

Chief

Barry M. Cohen, from Jan. 1987

Staff

Robert G. Willner, Supervisory Computer Systems Analyst, from June 1990

David Onions, Chief, Computer Applications Research and Evaluation Branch, from Feb. 1988 to Apr. 1990 (position vacant from Oct. 1987 to Feb. 1988); Supervisory Computer Systems Analyst, from Jan. 1987 to Feb. 1988

Desmond J. Carron, Chief, Computer Applications Research and Evaluation Branch, from Jan. 1987 to Oct. 1987

Barbara L. Lambert, Computer Programmer Analyst, from Jan. 1987 to June 1987

John C. Leidich, Computer Programmer Analyst, from Jan. 1987 to Dec. 1989

Sandra L. Nokovich, Computer Programmer Analyst, from Jan. 1987 to Aug. 1987

Janice A. Ausby, Computer Programmer Analyst, from May 1988 to Aug. 1988

Leonard S. Sammarco, Computer Systems Analyst, from Jan. 1987

Rotha W. Cain, Computer Programmer Analyst, from Mar. 1988

David A. Tabaska, Computer Programmer Analyst, from June 1989

Sean G. Reed, Computer Programmer Analyst, from July 1990

John E. Adkins, Assistant Chief, Standard Statistical Establishment List and Agriculture Programs, from Jan. 1987

Sandra L. Nokovich, Chief, Agriculture Census Branch, from Feb. 1990

Vickie L. Cotton, Chief, Agriculture Census Branch, from Aug. 1989 to Feb. 1990 (Supervisory Computer Systems Analyst, from May 1987 to Aug. 1989)

Billy E. Stark, Chief, Agriculture Census Branch, from Jan. 1987 to Aug. 1989

Thaddeus S. Hess, Supervisory Computer Systems Analyst, from Jan. 1987 to Mar. 1990

Janet K. McGrane, Supervisory Computer Systems Analyst, from Jan. 1987 to Feb. 1990

Lisa B. Polgreen, Supervisory Computer Systems Analyst, from Oct. 1989

Dianne J. Simmons, Supervisory Computer Systems Analyst, from Jan. 1987 to Aug. 1989

Evelyn C. Proctor, Supervisory Computer Systems Analyst, from Oct. 1989 to Feb. 1990

Christina Arledge, Computer Programmer Analyst, from Apr. 1990

Janice A. Ausby, Computer Programmer Analyst, from Aug. 1988 to Jan. 1990

Mary L. Blackmon, Computer Programmer Analyst, from Feb. 1990

Hugh P. Watters, Computer Programmer Analyst, from Sept. 1990

- Henry B. Evans, Computer Programmer Analyst, from Feb. 1990
- Gilbert J. Flodine, Computer Programmer Analyst, from Sept. 1987
- Trinh Vo, Computer Programmer Analyst, from July 1990
- Clarence Hill, Computer Programmer Analyst, from Jan. 1987 to Feb. 1990
- Hoa T. N. Nguyen, Mathematical Statistician, from Dec. 1990
- Steven W. Laudrille, Computer Programmer Analyst, from Jan. 1987 to Feb. 1989
- Morris A. Murray, Computer Programmer Analyst, from Jan. 1987 to Oct. 1987
- Karen Hostetler, Computer Programmer Analyst, from Nov. 1988 to Apr. 1989
- Annette S. Phillips, Computer Programmer Analyst, from Nov. 1988 to Sept. 1989
- Evelyn Cabrera Proctor, Computer Programmer Analyst, from Jan. 1987 to Oct. 1989
- Wilma C. Tarry, Computer Programmer Analyst, from Jan. 1987
- Carole L. Williams, Computer Programmer Analyst, from May 1987 to Feb. 1990
- Paul E. Poissant, Chief, Directory and Census Mailing List Branch, from Jan. 1987
 - Mark I. Kronish, Supervisory Computer Systems Analyst, from Jan. 1987
 - Susan Trefry Ploor, Supervisory Computer Systems Analyst, from Mar, 1987
 - Raymond L. Abercrombie, Computer Programmer Analyst, from Jan. 1987
 - Pilar A. Baden, Computer Programmer Analyst, from Dec. 1989
 - John D. Bedwell, Computer Programmer Analyst, from Jan. 1987
 - William E. Dyer, Jr., Computer Programmer Analyst, from May 1988
 - Thaddeus S. Hess, Computer Systems Analyst, from Mar. 1990
 - Steven W. Laudrille, Computer Programmer Analyst, from Mar. 1990
 - Linda A. Raley, Computer Programmer Analyst, from Mar. 1988
 - William M. Sandusky, Computer Programmer Analyst, from Jan. 1987
 - James L. Kirk, Computer Systems Analyst, from Oct. 1987 to Dec. 1988
 - Robert D. Thomson, Computer Systems Analyst, from Feb. 1990
 - Edward F. Carr, Computer Programmer Analyst, from July 1990
- Martin S. Harahush, Chief, Special Censuses/Surveys Programming Branch, from Feb. 1990
- Sandra L. Nokovich, Chief, Special Censuses/Surveys Programming Branch, from July 1988 to Feb. 1990 (position vacant from Jan. to July 1988); Supervisory

- Computer Systems Analyst, from Aug. 1987 to July 1988
- Lowell T. Wrucke, Chief, Special Censuses/Surveys Programming Branch, from Jan. 1987 to Jan. 1988
 - Mark A. Peitzmeier, Supervisory Systems Analyst, from Jan. 1987 to July 1987
 - Donald K. Salzman, Supervisory Computer Systems Analyst, from Nov. 1988
 - Janet K. McGrane, Supervisory Computer Systems Analyst, from Jan. 1987 to Feb. 1990
 - Mary L. Blackmon, Computer Programmer Analyst, from Jan. 1987 to Feb. 1990
 - Carol R. Blatt, Computer Programmer Analyst, from Feb. 1990
 - Rotha W. Cain, Computer Programmer Analyst, from Oct. 1987 to Mar. 1988
 - Deloris A. Cockrell, Computer Programmer Analyst, from Apr. 1990
 - Linhchi Conghuyen, Computer Programmer Analyst, from Feb. 1990
 - Henry B. Evans, Computer Programmer Analyst, from Nov. 1987 to Feb. 1990
 - Mary R. Evans, Computer Programmer Analyst, from June 1987 to May 1988
 - Llewellyn L. Forbes, Computer Programmer Analyst, from Oct. 1987
 - Frank J. Frederick, Computer Programmer Analyst, from Apr. 1988
 - Janet R. Phillips, Computer Programmer Analyst, from Feb. 1990
 - Mark F. Mildorf, Computer Programmer Analyst, from Jan. 1987 to Mar. 1987
 - Lisa B. Polgreen, Mathematical Statistician, from June 1987 to July 1988 (Computer Programmer Analyst, from July 1988 to Oct. 1989)
 - Jeffrey S. Rosen, Computer Programmer Analyst, from Dec. 1988 to Feb. 1990
 - Yolanda Santiago, Computer Programmer Analyst, from Jan. 1987 to Aug. 1988
 - Sheryl T. Smoot, Computer Programmer Analyst, from June 1990
 - Robert D. Thomson, Computer Programmer Analyst, from Nov. 1987 to Feb. 1990
 - Hugh P. Watters, Computer Programmer Analyst, from Jan. 1987 to Jan. 1990
- John C. Leidich, Chief, Processing Automation and Control Branch, from Feb. 1990
- Martin S. Harahush, Chief, Processing Automation and Control Branch, from June 1987 to Feb. 1990 (position vacant from Mar. 1987 to June 1987)
- Kent C. Hoover, Chief, Processing Automation and Control Branch, from Jan. 1987 to Mar. 1987
 - Christine L. Ford, Supervisory Computer Systems Analyst, from Jan. 1990
 - Linda J. Hutton, Supervisory Computer Systems Analyst, from Jan. 1987 to Feb. 1987
 - Brian J. Lounsbury, Supervisory Computer Systems Analyst, from Aug. 1987 to Feb. 1990

James E. Thomas, Supervisory Computer Systems Analyst, from Jan. 1987

Carol R. Blatt, Computer Programmer Analyst, from Dec. 1987 to Feb. 1990

Henry B. Evans, Computer Programmer Analyst, from Jan. to Nov. 1987

Linhchi Conghuyen, Computer Programmer Analyst, from Nov. 1988 to Feb. 1990

Duc-Mong Nguyen, Computer Programmer Analyst, from Dec. 1989

Janet R. Phillips, Computer Programmer Analyst, from Dec. 1989 to Feb. 1990

Jeffrey S. Rosen, Computer Programmer Analyst, from Jan. 1987 to Dec. 1988

Beverly B. Fransen, Computer Programmer, from Jan. to Feb. 1987

Cecelia B. Whitaker, Operations Specialist, from Dec. 1987 to Feb. 1990

Field Division

This division collected and edited questionnaires used in the agriculture census of Puerto Rico. (The New York regional office processed the payrolls for the Puerto Rico censuses.) In addition, through information services specialists in the regional offices, the division assisted data users in using statistical data from all of the censuses.

Chief

Stanley D. Matchett

Staff

Susan A. Lavin, Assistant Chief, Surveys, from July 1987 (position vacant from Jan. 1987 to July 1987)

Richard L. Bitzer, Assistant Chief, Surveys, to Jan. 1987

Richard F. Blass, Assistant Chief, Methods, Research, and Evaluation (Research and Methodology prior to Oct. 1986)

Mary Ellen Beach, Chief, Methods and Performance Evaluation Branch (Field Methods Research Branch prior to Oct. 1986)

Karl K. Kindel, Assistant Chief, Automation Technology, to Jan. 1988

John W. Marshall, Assistant Chief, Management

Joe Cortez, Chief, Census Awareness and Products Staff, from July 1989 (position vacant from May to July 1989)

Alfonso Mirabal, Chief, Census Awareness and Products Staff, from Nov. 1986 to May 1989

Susan B. Hardy II, Chief, Census Awareness and Products Staff, to Sept. 1986 (Information Services Branch

prior to Oct. 1986; position vacant from Sept. 1986 to Nov. 1986)

Michael J. Weiler, Chief, Information Services Branch, to June 1985

Regional Offices (The directors of these offices were responsible directly to the chief of the Field Division)

ATLANTA, GA.

Director

James F. Holmes, from June 1985 Susan A. Lavin, Acting, to June 1985

Staff

Michael D. Garner, Assistant Director, from Oct. 1987 (position vacant from July 1987 to Oct. 1987) Susan A. Lavin, Assistant Director, to July 1987 Hector Feliciano, Area Manager, Puerto Rico, from Oct. 1987 to Sep. 1988

BOSTON, MA

Director

Arthur G. Dukakis

Staff

Kathleen N. Ludgate, Assistant Director, from Jan. 1988 Leo J. Kearns, Assistant Director, to Jan. 1988

CHARLOTTE, NC

Director

William F. Hill, from June 1986 John E. Bell, Acting, from Feb. 1986 to June 1986 Joseph Harris, to Dec. 1985 (position vacant from Dec. 1985 to Feb. 1986)

Staff

E. Wilson Burdorf, Assistant Director, from Dec. 1988 Larry Arnold, Assistant Director, from Aug. 1986 to Dec. 1988

John E. Bell, Assistant Director, to June 1986 (position vacant from June 1986 to Aug. 1986)

CHICAGO, IL

Director

Stanley D. Moore

Staff

James L. Johnson, Assistant Director

DALLAS, TX

Director

John E. Bell, from Feb. 1987 John E. Reeder, Jr., to Feb. 1987

Staff

Willie R. Franklin, Assistant Director, from Oct. 1987 (position vacant from Feb. 1987 to Oct. 1987)
John E. Bell, Assistant Director, from June 1986 to Feb. 1987 (position vacant from Dec. 1985 to June 1986)
Bennie Daniels, Assistant Director, to Dec. 1985

DENVER, CO

Director

William F. Adams

Staff

Kenneth Ellwanger, Assistant Director, from Nov. 1988 Dean Schroeder, Assistant Director, to Nov. 1988

DETROIT, MI

Director

Dwight P. Dean, from Aug. 1987; Acting, from Feb. 1987 to Aug. 1987 Robert G. McWilliam, to Feb. 1987

Staff

Jonathan J. Spendlove, Assistant Director, from Sept. 1987 (position vacant from July to Sept. 1987) Robert J. Peterson, Assistant Director, to July 1987

KANSAS CITY, KS

Director

Marvin L. Postma

Staff

Bettie J. Bryant, Assistant Director, from Mar. 1987 (position vacant from Aug. 1986 to Mar. 1987) Stephen A. Mann, Assistant Director, to Aug. 1986 LOS ANGELES, CA

Director

John E. Reeder, from Oct. 1987; Acting, from Feb. 1987 to Oct. 1987 (position vacant from Aug. 1986 to Feb. 1987) Francis W. White, Jr., to Aug. 1986

Staff

Michael J. Flanagan, Assistant Director, from Dec. 1987 (position vacant from Oct. 1987 to Dec. 1987)
Michael J. Weiler, Assistant Director, to Oct. 1987

NEW YORK, NY

Director

Sheila Goehringer Grimm, from Nov. 1986 (position vacant from June 1986 to Nov. 1986)
William F. Hill. to June 1986

Staff

Michael Longini, Assistant Director, from Feb. 1987 Sheila Goehringer, Assistant Director, to Nov. 1986

PHILADELPHIA, PA

Director

LaVerne V. Collins

Staff

Harold Hayes, Assistant Director, from Dec. 1986 (position vacant from Aug. 1986 to Dec. 1986)
Larry Arnold, Assistant Director, to Aug. 1986

SEATTLE, WA

Director

Leo C. Schilling

Staff

Dannie L. Martin, Assistant Director

Finance Division

(Established as a division in Jan. 1987.)

This division performed financial analysis, maintained financial accounts, coordinated payroll and leave audits, and prepared financial reports.

Chief

James D. Lincoln, from Jan. 1987

Organization and Management Systems Division

This division planned and conducted management analysis and support functions, including organizational improvement studies, maintenance and control of the Bureau's integrated administrative data base, systems designs and inspection, and other management analysis and research.

Chief

Michael S. McKay

Personnel Division

This division provided personnel management services, which included position classification and pay administration, recruitment and employment, employee relations and services, and related personnel operations.

Chief

David P. Warner

Staff

Colleen Woodard, Assistant Chief, from Oct. 1985

Publications Services Division

(Merged with Administrative Services Division in Feb. 1990; unless otherwise noted, personnel continued in positions listed after divisions merged.)

This division supplied art, editorial, copy preparation, and printing coordination services for census questionnaires and publications.

Chief

Walter C. Odom, Jr., to Feb. 1990

Wayne H. Massey, Special Assistant to the Chief, to Feb. 1990

Staff

Everett L. Dove, Chief, Printing Branch, from Jan. 1986 to Feb. 1990

Sarajane Goodwin, Robert Warunek, Everett L. Dove, Alice L. Corbett, and Steven Shifler alternately served as Acting Chief, Printing Branch, from Jan. 1985 to Dec. 1985

Helen B. Burnett, Chief, Printing Procurement Section, from May 1987 to Feb. 1990

Jean E. Walker, Chief, Printing Procurement Section, to May 1987

Arlene Duckett, Printing Specialist

Gerald A. Mann, Chief, Publications Planning and Graphics Branch, to Feb. 1990

Larry D. Tackett, Chief, Recurring Publications Section, to Feb. 1990

Gloria T. Davis, Chief, Composition Unit, to Feb. 1990 David M. Coontz, Chief, Electronic Graphics Section, from Aug. 1987 to Feb. 1990

Nicholas A. Preftakes, Chief, Creative Design Staff, to Feb. 1990 (Design and Graphics Section Prior to Aug. 1987)

John T. Overby, Chief, Census Publications Section, to Feb. 1990

Helen M. Curtis, Composition Supervisor, to Oct. 1986 (position abolished Oct. 1986)

Debeorah L. Callison, Editor

Christine R. Nelson, Editor

Statistical Research Division

This division developed and evaluated statistical and other quantitative methods for use in the Bureau's programs; ensured that these methods were theoretically and operationally sound; furnished research information and consultative support; and conducted evaluation and research studies to provide statistical measures of the error in census data and to assess whether census procedures and methodologies could be improved in terms of accuracy, timeliness, and cost.

Chief

Robert D. Tortora, from Feb. 1990 Lawrence Ernst and Nash J. Monsour alternated monthly as Acting Chief from Aug. 1988 to Feb. 1990 Kirk M. Wolter, to Aug. 1988

Staff

Lawrence Ernst, Assistant Chief, Mathematics and Statistical Data Analysis, from Apr. 1987 (position vacant from July 1986 to Apr. 1987)

Brian Greenberg, Principal Researcher

Laura Zayatz, Mathematical Statistician, from Jan. 1989

Systems Support Division

This division planned and provided the activities required to maintain the Bureau's computers, communication facilities, and auxiliary hardware at required levels of operating effectiveness; and developed, modified, and maintained operational support software at performance levels necessary to process data and meet other Bureau objectives.

Chief

Arnold E. Levin

Staff

John Jerry Bell, Assistant Chief, User Support Robert Munsey, Assistant Chief, Software Support

Technical Services Division

This division planned and performed engineering services, including research, development, and maintenance, to provide and support electromechanical and electronic equipment required for automated document handling and data capture; and devised solutions to datacommunication problems.

Chief

C. Thomas DiNenna

Appendix D. **Publications in Selected Series**

The Census Bureau published an advance report for each county or equivalent with 10 or more farms during the census period, for each State and for the United States. Each report consisted of two pages with a short explanatory text giving reference information, the farm definition and symbols used in the table, and a table of summary data on farms, land in farms, and selected items (e.g., livestock and poultry, selected crops harvested, and so on). The advance reports were released in printed volumes (sold only in State sets), on computer tape and flexible diskette, and through private vendors DIALOG and CompuServe on CENDATATM, the Bureau's online computer access system, and the AgriData Network.

The Volume 1, Geographic Area Series, AC87-A, reports were published for the United States, each State, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Northern Mariana Islands. Each report contained detailed data tabulations for each county and county equivalent, and for the State or area. The Census Bureau issued the volume 1 reports in printed publications, on computer tape, online (highlights only) and in compact disc-read only memory (CD-ROM) format. (The reports for Puerto Rico,

Guam, the U.S. Virgin Islands, American Samoa and the Northern Marianas were released only in printed form, with highlights online.) The Volume 2, Subject Series, AC87-S, consisted of five reports-the Agricultural Atlas of the United States and the History were released only in printed reports; the Ranking of States and Counties also was a printed report, with highlights available online; and Government Payments and Market Value of Agricultural Products Sold and ZIP Code Tabulations of Selected Items were released in printed publications and on flexible diskette, with highlights online. Volume 3, Related Surveys, series AC87-RS, included two printed reports, Part 1, Farm and Ranch Irrigation Survey (1988), and 2, the Agricultural Economics and Land Ownership Survey (1988), with the data from each survey also available on flexible diskette and with highlights online. Volume 4, Census of Horticultural Specialties (1988), series AC87-HOR-1, consisted of a single printed report, with tabulations available on flexible diskette, and with highlights released online. All the volume 2, 3, and 4 publications available on flexible diskettes also were included on a separate CD-ROM.

PRINTED REPORTS Advance Reports, Series AC87-A(A)

State sets	Report No. (AC87-A)	No. of reports	Price	Approved for print	Published
Alabama	-01(A)	68	\$7.00	03/09/89	03/31/89
Alaska	-02(A)	5	1.50	05/01/89	05/18/89
Arizona	-04(A)	15	2.00	04/11/89	05/10/89
Arkansas	-05(A)	76	8.00	03/03/89	03/29/89
California	-06(A)	57	6.00	04/17/89	05/05/89
Colorado	-08(A)	60	6.50	03/14/89	04/07/89
Connecticut	-09(A)	9	2.00	11/14/88	12/09/88
Delaware	-10(A)	4	1.25	09/19/88	10/17/88
Florida	-12(A)	66	7.00	05/17/89	06/20/89
Georgia	-13(A)	160	16.00	04/20/89	05/22/89
Hawaii	-15(A)	5	1.50	05/30/89	06/16/89
Idaho	-16(A)	45	5.00	03/13/89	03/31/89
Illinois	-17(A)	103	11.00	01/10/89	01/31/89
Indiana	-18(A)	93	9.50	02/09/89	03/01/89
lowa	-19(A)	100	10.00	04/27/89	05/23/89
Kansas	-20(A)	106	11.00	03/08/89	03/31/89
Kentucky	-21(A)	121	13.00	03/09/89	04/04/89
Louisiana	-22(A)	64	6.50	04/14/89	05/11/89
Maine	-23(A)	17	2.50	11/14/88	12/09/88
Maryland	-24(A)	24	3.00	10/07/88	11/04/88

PRINTED REPORTS—Con.

Geographic	Report No.	Damas	Dwine	Approved	Dublishad
Area	(AC87-A)	Pages	Price 2.25	for print	Published
Massachusetts	-25(A)	14		12/01/88	01/03/89
Michigan	-26(A)	82	8.50	02/27/89	03/21/89
Minnesota	-27(A)	87	9.00	05/01/89	05/22/89
Mississippi	-28(A)	83	8.50	04/12/89	05/11/89
Missouri	-29(A)	115	12.00	03/02/89	03/29/89
Montana	-30(A)	57	6.00	03/13/89	04/07/89
Nebraska	-31(A)	94	9.50	05/08/89	06/07/89
Nevada	-32(A)	17	2.50	02/10/89	03/02/89
New Hampshire	-33(A)	11	2.00	11/14/88	12/09/88
New Jersey	-34(A)	22	3.00	04/24/89	05/16/89
New Mexico	-35(A)	32	4.00	03/13/89	04/03/89
New York	-36(A)	58	6.00	02/28/89	03/21/89
North Carolina	-37(A)	100	10.00	04/19/89	05/16/89
North Dakota	-38(A)	54	5.50	01/17/89	02/13/89
Ohio	-39(A)	89	9.00	01/17/89	02/15/89
Oklahoma	-40(A)	78	8.00	04/19/89	05/12/89
Oregon	-41(A)	37	4.25	01/06/89	01/25/89
Pennsylvania	-42(A)	68	7.00	12/20/88	01/10/89
Rhode Island	-44(A)	6	1.50	10/25/88	11/18/88
South Carolina	-45(A)	47	5.00	04/18/89	05/11/89
South Dakota	-46(A)	68	7.00	04/18/89	05/11/89
Tennessee	-47(A)	96	9.50	05/08/89	06/07/89
Texas	-48(A)	255	24.00	05/09/89	06/07/89
Utah	-49(A)	30	3.50	02/10/89	03/02/89
Vermont	-50(A)	15	2.25	11/14/88	12/09/88
Virginia	-51(A)	98	10.00	04/03/89	05/05/89
Washington	-53(A)	40	4.50	02/10/89	03/02/89
West Virginia	-54(A)	55	6.00	02/01/89	02/15/89
Wisconsin	-55(A)	72	7.50	01/17/89	02/13/89
Wyoming	-56(A)	24	3.00	02/09/89	03/02/89
United States	-00(A)	1	1.00	11/16/89	12/07/89

Volume 1, Geographic Area Series, Series AC87-A

Geographic Area	Report No. (AC87-A)	Pages	Price	Approved for print	Published
Alabama	-1	436	\$20.00	07/25/89	08/15/89
Alaska	-2	104	4.75	08/08/89	08/29/89
Arizona	-3	244	11.00	06/22/89	07/14/89
Arkansas	-4	456	21.00	07/24/89	08/16/89
California	-5	424	19.00	05/25/89	06/16/89
Colorado	-6	396	18.00	06/08/89	06/29/89
Connecticut	-7	244	11.00	03/28/89	04/13/89
Delaware	-8	224	11.00	01/25/89	02/23/89
Florida	-9	436	20.00	07/18/89	08/03/89
Georgia	-10	704	29.00	07/26/89	08/15/89
Hawaii	-11	204	10.00	08/23/89	08/29/89
Idaho	-12	344	16.00	06/29/89	07/24/89
Illinois	-13	524	24.00	04/14/89	05/05/89
Indiana	-14	524	24.00	05/26/89	06/16/89

Volume 1, Geographic Area Series, Series AC87-A—Con.

Geographic Area	Report No. (AC87-A)	Pages	Price	Approved for print	Published
lowa	-15	516	23.00	06/05/89	06/21/89
Kansas	-16	544	24.00	06/06/89	06/21/89
Kentucky	-17	596	27.00	07/26/89	08/08/89
Louisiana	-18	396	18.00	07/20/89	08/08/89
Maine	-19	276	13.00	04/05/89	05/11/89
Maryland	-20	284	13.00	02/22/89	03/13/89
Massachusetts	-21	244	11.00	03/21/89	03/31/89
Michigan	-22	484	22.00	05/30/89	06/16/89
Minnesota	-23	496	22.00	06/27/89	07/20/89
Mississippi	-24	476	22.00	07/21/89	08/16/89
MIssouri	-25	324	26.00	06/09/89	06/29/89
Montana	-26	396	18.00	06/30/89	07/24/89
Nebraska	-27	264	23.00	06/23/89	07/14/89
Nevada	-28	264	12.00	06/22/89	07/10/89
New Hampshire	-29	244	11.00	03/20/89	03/31/89
New Jersey	-30	284	13.00	07/26/89	08/18/89
New Mexico	-31	324	15.00	07/06/89	07/27/89
New York	-32	424	19.00	07/19/89	08/07/89
North Carolina	-33	536	24.00	07/18/89	08/02/89
North Dakota	-34	396	18.00	06/22/89	07/10/89
Ohio	-35	522	23.00	04/19/89	05/05/89
Oklahoma	-36	476	22.00	07/21/89	08/08/89
Oregon	-37	336	16.00	04/17/89	05/05/89
Pennsylvania	-38	444	20.00	04/19/89	05/08/89
Rhode Island	-39	216	10.00	03/28/89	04/13/89
South Carolina	-40	356	16.00	07/26/89	08/15/89
South Dakota	-41	416	19.00	06/14/89	07/03/89
Tennessee	-42	504	23.00	07/25/89	08/08/89
Texas	-43	1,024	31.00	07/28/89	08/16/89
Utah	-44	296	14.00	06/13/89	06/29/89
Vermont	-45	244	11.00	03/24/89	04/13/89
Virginia	-46	524	24.00	07/25/89	08/08/89
Washington	-47	344	16.00	06/06/89	06/21/89
West Virginia	-48	364	17.00	04/18/89	05/05/89
Wisconsin	-49	456	21.00	03/14/89	03/29/89
Wyoming	-50	264	12.00	06/16/89	07/07/89
United States	-51	464	21.00	11/16/89	12/07/89
Puerto Rico	-52	276	13.00	08/09/89	08/29/89
Guam	-53	64	3.00	03/09/89	04/03/89
Virgin Islands	-54	64	3.00	05/12/89	05/31/89
American Samoa	-55	68	3.50	02/12/91	03/06/91
Northern Mariana Islands	-56	56	3.00	12/19/90	01/14/91

Volume 2, Subject Series, AC87-S

			Approved	
Part	Title	Price	for print	Published
1	Agricultural Atlas of the United States, AC87-S-1	11.00	08/10/90	10/11/90
2	Coverage Evaluation, AC87-S-2	3.25	08/10/90	08/29/90
3	Ranking of States and Counties, AC87-S-3	7.00	09/27/90	10/17/90

Volume 2, Subject Series, AC87-S—Con.

Part	Title	Price	Approved for print	Published
4	History, AC87-S-4	11.00	09/23/92	10/15/92
5	Government Payments and Market Value of Agricultural Products Sold, AC87-S-5	28.00	10/12/90	11/08/90
6	ZIP Code Tabulations of Selected Items, AC87-S-6	31.00	07/13/90	08/23/90
Volun	ne 3, Related Surveys, Series AC87-RS			
1	Farm and Ranch Irrigation Survey (1988), AC87-RS-1	5.00	05/23/90	06/18/90
2	Agricultural Economics and Land Ownership Survey (1988), AC87-RS-2	11.00	08/07/90	08/31/90
	me 4, <i>Census of Horticultural Specialties (1</i> s AC87-HOR-1	988),		
Title				
Censu	ıs of Horticultural Specialties (1988)	10.00	08/19/91	10/08/91

Appendix E. Chronology of Major Activities

	Began	Completed
1985 CONTENT PRETEST		
Preview mailout Initial mailout Reminder card mailout 1st followup 2nd followup 3rd followup Field interview followup Telephone interview followup Data entry 1986 SHORT FORM PRETEST Mailout	12/85 12/85 01/86 02/86 03/86 04/86 05/86 05/86 02/86	12/85 12/85 01/86 02/86 03/86 04/86 05/86 05/86 04/86
Telephone interviews	01/87	01/87
ADDRESS LIST COMPILATION	,	3 ,7 3 .
Preliminary source list Final source list	10/86 07/87	04/87 11/87
1987 CENSUS OF AGRICULTURE OF THE UNITE	D STATES	
Printing of report forms Delivery of report forms Addressing report forms Initial mailout Thank you/reminder card 1st followup—report form 2nd followup—letter 3rd followup—letter 3rd followup—report form 4th followup—report form Telephone followup Citrus caretaker enumeration Precomputer data processing Receipt and check-in Correspondence Interactive search Data entry Computer processing Formatting and simple edit	01/87 06/87 10/87 12/87 01/88 02/88 03/88 04/88 05/88 06/88 01/88 01/88 01/88 01/88 01/88	02/88 02/88 12/87 12/87 01/88 02/88 03/88 04/88 05/88 06/88 09/88 11/87 09/88 09/88 09/88
Complex edit and edit correction Imputation for nonresponse Data tabulation	01/88 05/88	11/88 02/89
Analytical tabulations Advance tabulations Final tabulations for all geographic areas	06/88 08/88 09/88	02/89 12/89 01/90

	Began	Completed
1987 CENSUS OF AGRICULTURE OF THE UNITED	STATES—Con.	
Publication program	00.400	
Advance reports	09/88	12/89
Volume 1, Geographic Area Series	01/89	12/89
Volume 2, Subject Series	07/90	03/92
Volume 3, Related Surveys	05/90	08/90
1987 COVERAGE EVALUATION		
Receive USDA 1987 June Enumerative Survey (JES) Data	09/87	09/87
Develop and implement linkage system	06/87	09/87
Develop coverage evaluation report form	01/87	09/87
Mailout and mail followup	03/88	07/88
Telephone followup	06/88	10/88
Edit and review coverage records	04/88	01/89
Coverage estimation	12/88	01/90
Produce Volume 1 publication tables	12/88	09/89
•		09/69
Publish Volume 2, Part 2, 1987 Coverage Evaluation	08/90	06/90
1987 CENSUS OF AGRICULTURE IN PUERTO RIC	o	
Design report forms	11/85	08/87
Print report forms	10/87	01/88
Prepare special farms list	06/87	12/87
Memorandum of agreement with the Commonwealth Government	09/86	09/86
Prepare training and enumeration materials	08/86	04/87
Establish census office in Puerto Rico	01/88	01/88
Mailout to special farms	06/88	06/88
Recruit enumerators	04/88	07/88
Train enumerators	07/88	07/88
Field enumeration	07/88	10/88
Close census office	10/88	10/88
Data processing	07/88	05/89
Tabulation	03/89	06/89
Publication	08/89	08/89
1987 CENSUS OF AGRICULTURE IN GUAM	20/22	00 (00
Develop report form	06/86	06/87
Memorandum of agreement with the Territorial Government	07/86	04/87
Prepare training and enumeration materials	10/86	01/88
Prepare farm operator list	12/87	12/87
Establish census office	02/88	02/88
Recruit census staff	02/88	02/88
Training	02/88	02/88
Enumeration	02/88	04/88
Receipt and check-in	02/88	04/88
Data processing	04/88	10/88
Tabulation	11/88	01/89
Publication	03/89	03/89

	Began	Completed
1987 CENSUS OF AGRICULTURE IN THE U.S. \	/IRGIN ISLANDS	
Develop report form	11/85	11/87
Memorandum of agreement with the Territorial Government	11/86	12/87
Prepare training and enumeration materials	06/86	04/88
Prepare list of farm operators	04/88	04/88
Establish census office	05/88	05/88
Recruit census staff	06/88	06/88
Training	06/88	07/88
Enumeration	07/88	08/88
Receipt and check-in	09/88	09/88
Data processing	09/88	01/89
Tabulat ion	12/88	04/89
Publication	05/89	05/89
1990 CENSUS OF AGRICULTURE IN AMERICAL THE COMMONWEALTH OF THE NORTHERN M		
Develop report form	04/89	08/89
Memorandums of agreement with the local governments	12/89	12/89
Prepare training and enumeration materials	04/89	04/90
Establish census office	01/90	01/90
Recruit census staff	01/90	03/90
Training	03/90	03/90
Enumeration	04/90	08/90
Receipt and check-in	08/90	09/90
Data processing	08/90	11/90
Tabulation	10/90	01/91
Publication	12/90	03/91
1988 CENSUS OF HORTICULTURAL SPECIALT	IES	
Mail pretest	07/87	10/87
Design report forms	01/87	07/88
Print report forms	11/88	01/89
Mail list compilation	12/88	01/89
NASS data collection	02/89	04/89
Initial census mailout	03/89	03/89
Thank you/reminder card	03/89	03/89
1st followup	04/89	04/89
2nd followup	05/89	05/89
3rd followup	05/89	05/89
4th followup	06/89	06/89
Census "adds" mailout	07/89	07/89
"Adds" mail followup	08/89	08/89
Data processing	12/90	05/91
Tabulation	05/91	08/91
Publication	08/91	09/91
1988 FARM AND RANCH IRRIGATION SURVEY		
Design report forms	12/87	04/88
Print report forms	10/88	12/88
Mail list compilation	12/88	12/88
Initial mailout	01/89	01/89
		- · · • •

	Began	Completed
1988 FARM AND RANCH IRRIGATION SURV	/EY—Con.	
1st followup	02/89	02/89
2nd followup	03/89	03/89
3rd followup	04/89	04/89
4th followup	05/89	05/89
Telephone followup	05/89	06/89
Data processing	02/89	06/89
Tabulation	07/89	04/90
Publication	05/90	06/90
1988 AGRICULTURAL ECONOMICS AND LA	ND OWNERSHIP SURVEY	
Design report forms	12/87	06/88
Print report forms	09/88	10/88
Mail list compilation	12/88	01/89
Pretest	09/88	09/88
Initial mailout (operators)	01/89	01/89
Mail followup (operators)	01/89	05/89
Initial mailout (landlords: Waves 1- 4)	03/89	07/89
Mail followup (landlords: Waves 1-4)	04/89	08/89
Data processing	02/89	09/89
Tabulation	09/89	07/90
Publication	08/90	08/90

APPENDIX F. **Report Forms**

CHANGES IN THE STANDARD REPORT FORMS

Background Information

Final authority for the design and content of all census data collection forms is vested in the Secretary of Commerce, who usually delegates this task to the Director of the Bureau of the Census. The Census Bureau routinely solicits comments and recommendations on the report forms from interested organizations and agencies, including the U.S. Department of Agriculture and the Bureau of Economic Analysis. The Bureau's own advisory committee on agriculture statistics reviews the suggestions, comments, and data requests submitted, and makes its own recommendations on the priorities to be assigned to various items for inclusion in the final report forms. (See ch. 2.)

1987 Census of Agriculture Report Forms

General design—The 1987 report form design was essentially the same as for 1982. The 1982 census reintroduced regionalized census report forms, identifying 12 geographic regions of the 50 States. Florida, Hawaii, and Texas each constituted a separate region. For the 1987 census, these States plus Alaska each were designated separate regions. The "regionalized report forms" used identical formats, but employed tailored items to list crops (sections 2 through 8) and livestock (section 15) common to the specific region covered by each version of the form. For example, section 2 ("Were any of the following CROPS harvested from 'THIS PLACE' in 1987?") of the form 87-A0203 (Michigan, Wisconsin, and Minnesota), and of form 87-A0205 (for Florida) requested acres and quantity harvested, and acres-irrigated data for the following crops, in the expected order of importance of each crop within the report form region:

Form 87-A0203	Form 87-A0205
Corn (field) for grain or seed	Corn (field) for grain or seed
Corn (field) for silage or green chop	Corn (field) for silage or green chop
Wheat for grain (including durum)	Soybeans for beans
Oats for grain	Sugarcane for sugar
Barley for grain	Sugarcane for seed
Rye for grain	Peanuts for dry nuts
Soybeans for beans	Wheat for grain
Beans, dry edible	Oats for grain

Form 87-A0203 Form 87-A0205 Sunflower seed Rye for grain Flaxseed Cotton Sugar beets for sugar Tobacco—all types Tobacco—all types Potatoes, Irish Potatoes, Irish Sweetpotatoes and yams

Similarly, section 6 ("Were any STRAWBERRIES, CRAN-BERRIES, or OTHER BERRIES harvested FOR SALE from 'THIS PLACE' in 1987?") of the forms 87-A0201 (New England and the Middle Atlantic States) and 87-A0210 (Washington, Oregon, and Idaho) asked for total acres, acres harvested, and acres irrigated for berry crops. However, the form A0201 prelisted strawberries in the data table, with other crops and their codes listed for the respondent to write in as needed. The A0210 had no crops prelisted. The different crops included on the write-in lists in section 6 of the respective forms were as follows:

Form 87-A0210			
Blackberries and dew- berries			
Blueberries, tame			
Boysenberries			
Cranberries			
Currants			
Loganberries			
Raspberries			
Strawberries			
Other berries			

The census used sample and nonsample versions of each regionalized questionnaire (except for Alaska and Hawaii, where only sample forms were used); the sample versions included items asked of only a sample of respondents. The sample version of each regionalized form was further subdivided into "must" and "sample nonmust" forms, though there were no content variations between them.)

The nonsample form had four pages printed on a large sheet of white stock, 14" x 20 1/2", folded to 14" x 10 1/4". The sample version, used for "must" and "certainty" cases as well, was 14" x 26" overall, with six pages, folded to 14" x 10 1/4". (The additional pages on the sample form were two numbered half-pages, 14" x 5 1/2".) The sample questionnaire contained all the sections on the nonsample form, plus six additional sections requesting data on production expenses; use of commercial fertilizer. rock phosphate, or lime; use of insecticides, herbicides,

fungicides, nematicides, other pesticides, or other chemicals; machinery and equipment; estimated current market value of land and buildings; and income from farm-related sources in 1987.

The Bureau sent form 87-A0400 "short" report forms to over 900,000 addresses on the final census mail list. where their farm status was uncertain, while the remaining 3.2 million addresses constituted the mail universe for the standard report forms. Approximately 75 percent of these addresses received nonsample report forms, which asked for basic data on inventory, production, sales, and operator characteristics. Sample forms went to all addresses in Hawaii and Alaska, all "must" cases, and to a random sample of all the other addresses that were not sent the A0400 form. (See ch. 5 for details on the census mailout.)

The questionnaires were assigned form numbers by type of form (i.e., nonsample, sample-nonmust, and "must") and by geographic region. The nonsample questionnaires were forms 87-A0101 through -A0111, the sample-nonmust forms 87-A0201 through -A0213 (operators in Hawaii and Alaska received forms 87-A0212 or -A0213 respectively), while "must" cases were sent forms 87-A0301 through -A0311, as appropriate.

Changes in the data requested—The overall data content of the 1987 census report forms was similar to that of the 1982 census-the bulk of the data collected on agricultural operations naturally concerned number of farms, land in farms, production, and inventory. However, specific data requirements and priorities changed, and the census report forms were adjusted to reflect these. The principal changes to the "all farms" sections of the report forms for the 1987 enumeration were as follows:

Section 1. ACREAGE IN 1987

Item on "acres in this place" altered to emphasize "THIS PLACE." Item on land diverted to Federal commodity production reduction programs was moved to section 12.

Section 9. GROSS VALUE of CROPS SOLD from "THIS PLACE," in 1987 BEFORE taxes and expenses

rate item.

"Barley" was added as a sepa-

Section 10. How were the ACRES in this place USED in 1987?

New title for land use section.

Section 11. Was any LAND in this place IRRIGATED at any time in 1987?

Item on source of water used for irrigation deleted.

Section 12. (NEW) Were any ACRES in this place SET ASIDE, DIVERTED, OR IDLED under FEDERAL acreage reduction programs in 1987?

Requested acres set aside under annual commodity acreage adjustment programs and acres under the Conservation Reserve Program.

Section 16. Did you or anvone else have anv HORSES, BEES, FISH, GOATS, OTHER LIVE-STOCK, OR ANIMAL SPECIALTIES on this place in 1987?

Items on worms and chinchillas were deleted.

Section 18. GOVERN-MENT CCC LOANS

Items on amount received in 1987 Commodity Control Corporation (CCC) loans for corn and soybeans were requested as separate items.

Section 19. (NEW) Payments received for participation in FED-**ERAL FARM PRO-GRAMS** in 1987 (DO NOT INCLUDE CCC loans.)

An item was added asking amount received in cash payments, and payment-in-kind cer-

Sections 22 through 28 were the "sample" items. The changes made to the sample sections of the report form were as follows:

Section 23. PRODUCby you and others for this place in 1987.

Items on tons of feed pur-TION EXPENSES paid chased and number of employees hired were deleted for 1987; the 1982 section on expenditures for energy (section 26) was deleted and its items added to section 23: items were added on the cost of repairs and maintenance, property taxes paid, cash rent paid, and "other" expenses. The section requested interest expense for loans secured and not secured by real estate.

Section 26. MACHIN-**ERY AND EQUIP-**MENT on this place on December 31, 1987 used for agricultural operations in 1986 or 1987.

The 1982 items on automobiles. corn heads for combines, and field forage harvesters were deleted for 1987; the item on Include only equipment tractors was altered to ask for data on tractors of less than 40 horsepower, and for those with 40 horsepower or more; the item on grain and bean combines requested information on both pulled and selfpropelled types.

Section 28. (NEW) INCOME FROM **FARM-RELATED** SOURCES IN 1987. Report amount received before taxes and expenses.

This new section asked for data on farm-related income. (These data were last requested in the 1974 census.)

Puerto Rico and the Outlying Areas

Form 87-A1(PR), Puerto Rico—The 1987 report form for Puerto Rico was based on the 1982 form, with minor wording changes intended to simplify the form and improve response, and some organizational changes. Sections 1-20 of the report form requested data from all farm operators, while sections 21-25 asked for information only from a sample of farmers (see ch. 7).

Form 87-A1(G), Guam-The 1987 agriculture census report form for Guam was virtually identical in format and content to that used in 1982; the only changes involved reordering the listing of crops in section 3 (Crops Harvested in 1987) and minor changes in the wording of some of the crop names (e.g., "Beans, green," instead of "Green beans").

Form 87-A1(VI), U. S. Virgin Islands—The 1987 agriculture census form for the U.S. Virgin Islands also was little changed from that used in the 1982 enumeration, except for the deletion from section 2 (Land Used in Agriculture) of the item on whether the farm was on a hard surface (all weather) road.

Form 90-A1(NM), Northern Mariana Islands—The 1990 agriculture census of the Northern Mariana Islands (and American Samoa; see below) was carried out by the field enumeration staff of the 1990 Decennial Census for those areas, and was the first agricultural enumeration there since 1980. The 1990 agriculture census report form for the Northern Mariana Islands was similar in format and layout to the 1980 version, with relatively minor changes in content. A general modification to sections 2 (Field Crops. Melons, and Vegetables) and 3 (Fruits and Nuts) asked for data on volume of products sold, and value of those sales, for 1989. Other changes were as follows:

Section 1. LAND IN **AGRICULTURE**

The item (unnumbered) on the full name of the owner of this land was deleted, and the item on acres rented from others was expanded to ask for the name(s) of any landlords and the acres rented from each.

Section 2. FIELD CROPS, MELONS, AND VEGETABLES

Section 3. FRUITS AND NUTS

The separate item requested production data on honeydew melons was deleted.

The item on coffee was deleted. An item was added requesting the square feet under cover and/or acres planted in ornamental plants and other nursery crops.

AND POULTRY

Section 5. LIVESTOCK The items on carabaos was deleted, while items were added asking the value of livestock and poultry sales, and the value of chicken eggs sold.

Form 90-A1(AS), American Samoa—Modifications to the agriculture report form for the 1990 census in American Samoa were similar to those made to the form 90-A1(NM). and included asking for quantity and value of sales in 1989 in the crops and fruits and nuts sections. Other changes included the following:

Section 1. LAND IN AGRICULTURE

The item on acres owned was modified to ask whether any of the land was "communal." rather than matai land.* An item requesting the full name of the owner was deleted, and an item was added asking the name and acres rented from each landlord. The item asking whether the holding produced for home consumption or sale was split into two separate items.

Section 2. FIELD CROPS, MELONS, AND VEGETABLES

Green peas and green peppers were dropped from the listed crops, while green beans and melons were added.

Section 3. FRUITS AND NUTS

An item was added requesting the square feet under cover, and/or acres planted in ornamental plants and other nursery crops.

AND POULTRY

Section 5. LIVESTOCK Items were added asking the value of livestock and poultry sales and the quarts of milk sold.

*A matai is the chief or head of an extended family or tribe-like group. Land occupied and used by the group is traditionally considered matai land, although the matai may not personally have possession or use of

FACSIMILES OF SELECTED REPORT FORMS, INFORMATION SHEETS, AND FOLLOWUP LETTERS

Pretest Forms	Page
1985 Content Pretest, Report Form 85-A1	. 157
1985 Content Pretest, Report Form 85-A2	
1986 "Short" Form Pretest, Report Form 86-A04	
	. ,,,
1987 Census of Agriculture Forms	
1987 Census of Agriculture, Report Form 87-A0210	. 177
Information Sheet, Form 87-A01(I)	
Cover Letter, Form 87-A01(L1)	. 186
Reminder/Thank You Card, Form 87-A01(L2)	. 188
Followup Letter, Form 87-A01(L3)	
Followup Letter, Form 87-A01(L4)	
Followup Letter, Form 87-A01(L5)	. 191
Followup Letter, Form 87-A01(L6)	
Followup Letter, Form 87-A01(L7)	. 194
Report Form 87-A0400	. 196
Information Sheet, Form 87-A04(I)	
Report Form 87-A0215, Citrus Caretakers	
1987 Survey of Nonrespondents, Report Form 87-A46(A)	
1987 Classification Error Survey, Report Form 87-A90	207
Outlying Areas	
1987 Census of Agriculture for Puerto Rico, Report Form 87-A1(PR)	. 212
1987 Census of Agriculture for Guam, Report Form 87-A1(G)	
1987 Census of Agriculture for the U.S. Virgin Islands, Report Form 87-A1(VI)	
1990 Census of Agriculture for the Northern Mariana Islands, Report Form 90-A1(NM)	
1990 Census of Agriculture for American Samoa, Report Form 90-A1(AS)	
Followon Operations	
1988 Census of Horticultural Specialties, Report Form 88-A19.1	. 232
Information Sheet, 88-A19.1(I)	
1988 Census of Horticultural Specialties, Commercial Horticultural Survey, 1988 (NASS), Report Form	. 477
88-A19.2	245
Information Sheet, A19.2(I)	
1988 Farm and Ranch Irrigation Survey, Report Form 88-A62	
Information Sheet, Form 88-A62(I)	
1988 Agricultural Economics and Land Ownership Survey, Report Form 88-A9A, Operator's	
Report	263
Information Sheet, Form 88-A9A(I)	268
1988 Agricultural Economics and Land Ownership Survey, Report Form 88-A9B, Landlord's	070
Report	
Information Sheet, Form 88-A9B(I)	276

1985 Content Pretest Report Form 85-A1

DUE BY: JANUARY 31, 1986		0	MB NO. 0607-056	01: Approval Expires C	December 31, 1986				
FORM 85-A1 U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	THE CENSUS E	ICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law YOUR REPORT TO CENSUS BUREAU IS CONFIDENTIAL. It may be seen only by sworn Census employees and may be used for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation aw also provides that copies retained in your files are immune from legal process.							
UNITED STATES CENSUS	<u>-</u>	ence pertaining to this report, please refer to you)				
AGRICENSUSUSA OF AGRICULTURE		•		85-A1					
Please complete this form and RETURN TO BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47133	,			,					
Note — If your records are not available, reasonable estimates may be used. If you cannot file by January 31, a time extension request may be sent to the above address. Include your 12-character Census File Number (CFN) as shown in your address label in all correspondence to us.									
If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.									
CENSUS 035 036 037 038 USE 039 040 041 042	<u>. </u>								
		(Please correct errors in name, address,	and ZIP code.	.)					
SECTION 1 ACREAGE IN 1985 Report land owned, rentee by you, your spouse, or by the partnership, corporganization for which you are reporting. Include REGARDLESS OF LOCATION OR USE – cropland pastureland, rangeland, woodland, idle land, hou	oration, or ALL LAND, I,	INSTRUCTIONS — Please report your c Use section 7 to report ONLY those crop 6 and section 8. DO NOT INCLUDE crop SECTION 2 Were any of the FOLLOWING CR	s NOT list s grown o	ed in section n land rented	s 2 through to others.				
If the acres you operated in 1985 changed during the year, refer to the INFORMATION SHEET, Section 1. None N	Number of acres	S2 Acres	Quantity	harvested	Acres irrigated				
1	43	1. Corn (field) for grain or seed (Report quantity on a	068	OR Bu.	ose ose				
2. All land rented or leased FROM OTHERS, including land worked		dry shelled-weight basis)	071	Lbs.	72				
by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include leased Federal, State, and railroad land. (DO NOT include land used on a per-head basis under a	44	or green chop	048	Tons, green	49				
grazing permit.) Also complete item 5 below		3. Winter wheat for grain	051	Bu.	52				
All land rented or leased TO OTHERS, including land worked on shares by others and land subleased. Also complete item 6 below.	45	4. Durum wheat for grain 527	528	Bu. 5:					
4. ACRES IN THIS PLACE — ADD acres owned (item 1) and acres	046	than durum, for grain	077	Bu. 0 Bu.	78				
rented (item 2), then SUBTRACT acres rented TO OTHERS (item 3), and enter the result in this space.		7. Sorghum for grain or	083		084				
For this census report these are the "ACRES IN THIS PLACE." If the entry is zero please refer to the INFORMATION SHEET, Section 1.	_ ↑	seed, including milo	089	Lhs.	3 ()				
5. If you rented land FROM OTHERS (item 2), enter the following information for e	each landlord.	8. Soybeans for beans	092		23				
Name of landlord Mailing address (Include ZIP code) N	lumber of acres	9. Cotton		Bales					
		10. Tobacco — all types	095	Lbs.	96 - 10				
		11. Potatoes, Irish	098	Cwt.					
	·	12. Sweetpotatoes and yams	101		/10				
List additional landlords on a separate sheet of paper. 6. If you rented land TO OTHERS (item 3), enter the following information for	each renter	SECTION 3 Was any DRY HAY, GRASS SILA							
	lumber of acres	harvested from this place in 198 Include sorghum-sudan cro		ev cut from n	acturac				
		1 YES — Complete this section		O — Go to secti					
		If cuttings were made for both dry hay and grass si from the same fields, report the acreage in the app HAY and also under GRASS SILAGE, HAYLAGE, a	lage, haylage, ropriate items	under DRY					
List additional renters on a separate sheet of paper.				Quantity					
a. Of the land you rented or leased to others, how many acres did you own? 7. Do you have any grazing permits on a per-head basis?	Acres	 DRY HAY (If two or more cuttings of dry hay were made from the same acres, report acres only once, but report total tons from all cuttings.) 	Acres harvested	harvested (Report either dr or green weight a indicated)	Acres irrigated				
1 Yes — Mark (X) all boxes which apply 4 Taylor Grazing	3	Alfalfa and alfalfa mixtures for hay or dehydrating	103	104 Tor	105				
2 ☐ No — Go to item 8		b. Small grain hay — oats, wheat, barley, rye, etc.	106	107 Tor	108				
<u> </u>		 C. Other tame dry hay — clover, lespedeza, timothy, Bermuda grass, Sudan grass, 	109	110 Tor	111				
8. How many acres were diverted (or set-aside) under Federal oss commodity acreage reduction programs in 1985?	Acres	etc.	112	113					
9. LOCATION OF AGRICULTURAL ACTIVITY FOR THIS PLACE		d. Wild hay		Tor dry					
	Number of acres	2. GRASS SILAGE, HAYLAGE, AND GREEN CHOP (hay crops cut							
raised or produced?	57	and fed green) (If two or more cuttings were made from the same acres, report acres only once, but report total tons from	115	116 Tor	117				
b. If you also had agricultural operations in any other county(ies), enter the	58	all cuttings.) 3. HAY SOLD — Did you sell any hay	118	gre					
	59	or grass silage in 1985? (Report value of hay sold in section 9, item 4)	₁ ☐ Ye	s 2 No					

		ETABLES, SW is place in 1985								NBERRIES, or OTHER 5? (Exclude those grov	
	YES .	— Complete t	his section				1	YES	- Complete this	section	
2 🔲	NO -	Go to sectio	n 5				2	=	- Go to section 7		
NOTE: For Florida report fo through August 31, 1985	or Septem	nber 1, 1984 eason: for all	A	<u> </u>	1	rain na - 3	.				
other States report for call	endar year	r 1985.	Acre Whole acres		Acres ii	rrigated es Tenths	From the list below specified with crop na	v, enter me.	crop name and cod	le. Report quantity harve	ested in unit
Land from which ve harvested in 1985			375	/10	376	/10	 	Code	Acres harvested Whole acres Tenths	Quantity harvested	Acres irrigated Whole acres Tenth
2. From the list below, If more than one ve each crop. Report of	getable d	crop was harves	ted from the s	ame acres					//10	1	2 /10
Crop nan	ne	Code	Acres has	rvested	Acres in	rigated	İ		1 /10	1	2 [
				/10	t, —	/10	1	 	710	1	2
				/10	1	/10	1		/10	<u> </u>	1/10
				1	ī	1	1	, use sep	erete sneet of paper.		
			 	/10	1	/ /10	Crop name	harrian 1		Crop name	Code
<u> </u>				/10	1	i /10	Blueberries, tame (por	unds)		Raspberries (pounds)	536
				/10	1	j /10	Cranberries (100-lb. b			All other berries (pounds Specify	
Manage annual to a service of		40.00.00.01.01	J	/10	<u>'</u>	/10					
If more space is needed, u Crop name	se separat Code		Cod	de Crop	name	Code	1.0.		THER CROPS harves or other crops not pro	ted from this place in 1 eviously reported?	voo — small grains,
Asparagus		Eggplant	41!	F Pum	pkins	449			it in section 8.)	,p	
Beans, snap (bush and pole)	. 381	Honeydew me	dons 42	3 Souti	shes	תו		VES	- Complete this	eaction	
Beets	. 383	Lettuce and re	omaine 427 reen 429		vpeas) — black wder, etc			NO	Go to section 8	IOII	
Cabbage, head	. 391	 Mustard greer 	ıs 43 1	l , Spin	ach	457	1	_ 140	— Go to section 8		
Cantaloups and muskmelons	. 395	, Onions, green	433	Swe	sh et corn	461	From the list belo	ow, en	ter crop name and	d code. Report quanti	ty harvested in unit
Carrots	397	Okra Peas, English,	437	7 Tom	atoes	463	specified with crop n	name.	,	, ,	
Celery	. 401	(Exclude gre	en	, Turn	ip greens	467	Crop name	(Code Acres harveste	d Quantity harvested	Acres irrigated
Collards	. 407 s 411	Peppers, swe	et 441	3 Othe	ermeions er vegetables	_	- Crop riumo	-+		1	2
		Peppers, hot	445	5 Sp	ecity		L				
		RSERY and GRI								1	2
		s, flower seeds, protection, GR					<u> </u>			- -	2
_		Complete ti		J., WIFF	pv 190		1			ľ	_
					Araa irriaata					1	2
2 📋	NU	 Go to sectio 	n 6 None	Square fo	Area irrigate					1	2
1. Nursery and greenho	use cron	s irrigated in 198		\$77	478		i				[
	•	•	— L			/10				1	2
2. From the list below,	enter the	crop name and c	ode for each cr	op grown.			If more space is needed	use se-	erate cheet of namer	1	
		Square feet	Acres in the	e open		1005	Crop name	, use sep		Crop name	Cod
Crop name	Code	under glass or other protectio	in 198		Sales i	n 1985	Alfalfa seed (pounds)			opcorn (pounds, shelled) 662
		in 1985	Whole acres	Tenths	Dollars	Cents		luding	- I g	Proso millet (bushels) Red clover seed (pounds) <i></i> 671
			1	/10 \$		00	dry limas) (hundredy Beans, dry lima (hund	veight) . redweial	ht) 557	Rice (hundredweight) Rye for grain (bushels) .	677
	-		1	710 \$		00	Buckwheat (bushels)		575 🕴 🛚	Ryegrass seed (pounds) Safflower (pounds)	689
			<u> </u>	/10 \$		00	Corn cut for dry fodde or grazed (report acr	res only)	581 5	Sorghum cut for dry fora	3e
				/10 \$		00	Dry southern peas (co (bushels)	wpeas)		or hay (tons, dry) Sorghum hogged or graze	
							Emmer and spelt (bus	shels)	599 ,	(report acres only)	701
Crop name Bedding plants (include	unantahl	Code	Crop name			Code 710	Flaxseed (bushels)		605	Sorghum for silage or gre (tons, green)	en cnop 088
Bulbs (Exclude bulb flow	wering pla	ants) 482	1 Mushrooms	s		494	Kentucky bluegrass se	s) eed (pou		(tons, green)	ons) 719 is) 722
Cut flowers and cut flow Nursery crops — ornamic	entals, fr	uit .	¡ Vegetable a	and flower	seeds	500	Lespedeza seed (pour Mint for oil (pounds of	nds)	638 ' 3	Sugarcane for seed (tons Sunflower seed (pounds) 72 8
and nut trees, and vin Foliage plants	es	488	Greenhouse	e vegetable	es	503	Peanuts for nuts (pour	nds)	656 🕺 1	fimothy seed (pounds) .	746
i oliage plants		/ 0 /) Other - 3	poully		300	Peas, dry edible (pour	nds)	659 (Other crops (pounds) - Specify	752
SECTION 8 Was t	here a co	ombined total o	f 20 or more F	RUIT TRE	ES, includir	ng GRAPEV	INES, CITRUS, and N	UT TRE	ES ON THIS PLACE in		
		— Complete t									
2 🗍		- Go to section				Total acres		$\overline{}$			
1. TOTAL ACRES in bea				r other arov		ole acres T	enths Whole acres T	enths	Noncitrus crop		crops Code
vineyards, and nut tre					121	1	/10	/10	Apples Apricots		quantity harvested 1984–85 harvest
2. From the list at the ri Report the requested	ght, ente	r name and code tion for each cros	for the fruit tree even if not har	es, grapevi	nes, and nut	trees on this prices, dama			Avocados Cherries, sweet,	135 season 345 Grapefr) uit 267
,	T	NUMB	ER OF	1	in trees	,	Unit of meas		Cherries, tart Grapes, dry wei Grapes, fresh we	ght 171 Limes	
Crop name	Code	TREES OR V	INES OF -	and v	ines of	Quar	tity Mark one		Olives (Report qu	uentity Tangelo	s
Crop name	Code	Nonbearing	Bearing	ali	ages	harve	sted Lbs. Tons Bo	Lbs		toes Tangeri	nes 309
	ļ	age	age	Whole ac			203. 10118	kod	harvest season) 207 Snecif	trus — y 315
			1	2	/10	3	1 2 2 3	□ [5	Peaches Pears	226	
			1	2		3	4	15	 Plums and prune 	S	pe Code
	ļ		1	2	/10	3	1 🗆 2 🗆 3	<u> </u>	fresh weight . Prunes, dry weig	ht 249 (Repor	t quantity in meats)
				<u> </u>	/10		1 🗆 2 🗆 3		Other noncitrus Specify	261	s 321
			1	2	/10	3	1 2 3	5 □		(Repor	t quantity in shell) and hazelnuts 327
	 		1	2	-	3	4	15	1	Pecans	<i>.</i> 339
	-	-	1	2	/10	3	1 2 3	1 1 5	4	Other n	s, English 357 ut trees —
			•	-	/10	-	1 🗆 2 🗆 3			Speci	γ 363
If more space is needed, u	se separa	te sheet of paper.							<u> </u>		
FORM 85-A1 (10-31-85)											

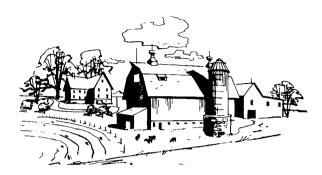
Form 85-A1

SECTION 9 GROSS VALUE of CROPS SOLD from this place	n 1985, BEFORE	. 1	SECTION 13 Did you or anyone else have any CATTLE or CALVES on this place in 1985?						
se taxes and expenses (Refer to the INFORMATION Report your best estimate of the value for each of the follow	-		1 PES - Complete this section						
from this place in 1985. Include the value of the landlord's a estimating if necessary. Include value of Government CCC I	ind/or contractor's:	share,	2 NO - Go to section 14 INVENTORY						
Grains, soybeans and other beans sold in 1985 None	Dollare	Cents	DECEMBER 31, 1985 INVENTORY None place Dec. 31, 1985						
a. Corn for grain.	773 \$	00	1. CATTLE AND CALVES of all ages						
b. Wheat	774 \$	00	(Total of a, b, c, and d below)						
c. Soybeans	775 \$	00	a.BEEF COWS — Include beef heifers that had calved						
d. Sorghum for grain	776 \$	00	b. MILK COWS kept for production of milk or						
e. Barley	777	00	cream for sale or home use — include dry Milk milk cows and milk heifers that had calved						
f. Oats	778 \$	00	806 Heifers and						
g. Other - rice, dry beans, dry peas, flaxseed,	779		c. HEIFERS AND HEIFER CALVES (Exclude heifer calves						
popcorn, safflower, sunflower seed, rye, etc L	\$ 780	<u> 00</u>	4 STEEDS STEED CALVES BILLIS						
2. Cotton and cottonseed	\$ 781	00	AND BULL CALVES						
3. Tobacco	\$ 782	00	CATTLE AND CALVES SOLD						
4. Hay, silage, field seeds, and grass seeds	\$ 783	00	FROM THIS PLACE IN 1985 Include those fed on this place on a Number sold Gross value of sales						
5. Vegetables, sweet corn, and melons — Do not include Irish potatoes and sweetpotatoes, report them in item 7 below.	s	00	contract or custom basis. Also report None in 1985 Dollars Cents						
6. Fruits, nuts, berries - apples, peaches, grapes, citrus,	784	į	to a feedlot for further feeding. 808 809						
pecans, strawberries, etc	\$ 785	00	2. Calves weighing less than 500 pounds \$ 00						
beets, sugarcane, mint for oil, etc. (Exclude nursery and greenhouse products) =		l t	3. Cattle, including calves weighing 500 pounds or more						
	1.	l 	a. Of the total cattle sold, how many						
SPECITION 10 GOVERNMENT CCC LOANS	\$	□ 00	were FATTENED on this place on GRAIN or CONCENTRATES for 30 812 813						
S10			days or more and SOLD for \$ 00						
1 . Amount received in 1985 from Government CCC le	oans for —		ornodinem						
redeemed or forfeited) None		Cents	DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1985 DAIRY PRODUCTS Gross value of sales						
a. Corn, sorghum, barley, and oats	799 \$	00	4. Gross value of sales of DAIRY PRODUCTS None Dollars Cents 814						
b. Wheat	800 \$	00	from this place in 1985 — Include milk, cream,						
c. Cotton	801 \$	00	SECTION 14 Did you or anyone else have any HOGS or PIGS on this place in 1985?						
d. Soybeans, peanuts, rye, rice, tobacco, and honey	802 \$	00	S14						
SECTION 11 LAND USE IN 1985			1 U YES — Complete this section INVENTORY						
1. Copy ACRES IN THIS PLACE from section 1, item 4,	. •	_Acres	2 NO — Go to section 15 Number on this place Dec. 31, 1985						
NOTE: For items 2 to 5 below, if the same land had more than one THAT LAND ONLY ONCE — in the use first listed below that applies	. For example,	ſ	• DECEMBER 31, 1985 INVENTORY 815						
cropland harvested and also pastured is to be reported only as "Cro	pland harvested." None Number o		1. HOGS and PIGS of all ages (Total of a and b below)						
2. CROPLAND a. Cropland harvested — include all land from which crops	787	acres	a. HOGS and PIGS used or to be used for BREEDING Breeding						
were harvested or hay was cut, and all land in orchards, citrus groves vineyards, and nursery and greenhouse products	:. a		b. OTHER HOGS and PIGS Other						
b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without			• LITTERS FARROWED						
pasture and grazing land that could have been used for crops withou additional improvements	🔲 📗		2. LITTERS FARROWED on this place between — None Number of litters						
c. Cropland used for cover crops, legumes, and soil- improvement grasses, but NOT harvested and NOT	789		a. December 1, 1984 and May 31, 1985						
pastured			b. June 1, 1985 and November 30, 1985						
d. Cropland on which all crops failed (Exception: Do not report here land in orchards and vineyards on which the crop	790		Number Gross value of sales						
failed. Such acreage is to be reported in item 2a.)	791		HOGS AND PIGS SOLD None in 1985 Dollars Cents Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg Col Pigg						
e. Cropland in cultivated summer fallow	793		place in 1985						
f. Cropland idle	794		4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?						
3. Woodland — Include all woodlots and timber tracts and	795								
cutover and deforested land with young timber growth. b. Woodland not pastured.	🗆 📗		SECTION 15 Did you or anyone else have any SHEEP or LAMBS on this place in 1985?						
4. Other pastureland and rangeland -include any pastureland	796		1 L YES — Complete this section						
other than cropland and woodland pasture			2 NO — Go to section 16						
etc. — Include any land not reported in items 2 through 4 above	ப		INVENTORY Number on those in 1985						
6. TOTAL ACRES — Add the acres reported in items 2 through 5 (Should be the same as item 1 above.)	798		None place Dec. 31, 1985 #11 1993						
SECTION 12 Was any LAND in this place IRRIGATED at any t	ime in 1986?		1. SHEEP and LAMBS of all ages						
Irrigated land is all land watered by any artificial or controlled m	eans — sprinklers, fo	urrows	a.EWES 1 year old or older						
or ditches, spreader dikes, etc. Include supplemental, partial,			Number shorn Pounds of wool						
1 YES — Complete this section 2 NO — Go to section 13	Number o		None in 1985 shorn in 1985						
1. How many acres of harvested land were irrigated?	680		2. SHEEP and LAMBS SHORN						
Include land from which hay was cut and land in bearing and nonbearing fruit and nut crops reported in section 11, item 2a.			Gross value of sales						
2. How many acres of pastureland, rangeland, and any other	681		3. What was the gross value of sales of SHEEP, None Dollars Cents						
lands not included in item 1 above were irrigated?	<u>. LJ </u>		LAMBS, and WOOL from this place in 1985? \$ 00						

SECTION 16 Did you or anyon	ne else have any HORSES, OCK, or ANIMAL SPECIA		TS,	SECTION 18 TYPE OF ORGANIZATION	
S18 1 YES -	Complete this section	2 NO - 6	o to section 17	Mark (X) the one item which best describes the typ	
	INVENTORY	Gross	value of sales	this place in 1985. Refer to the INFORMATION SHEET,	Section 18.
N	I abia minas I is 1	985		FAMILY or INDIVIDUAL operation —	921
1. Horses and ponies of	Dec. 31, 1985	Do	ilars Cents	(Exclude partnership and corporation)	Go to section 20
all ages		Number \$		PARTNERSHIP operation — Include family partnerships	2 D
	839 840	Number 842	Ì	INCORPORATED UNDER STATE LAW	Co to costion 10
2. Colonies of bees	841	Pounds	i		Go to section 19
2. Colonies of Dees	843 844	honey	00	 OTHER, such as estate or trust, prison farm, grazing association, Indian 	_
	}	Number 846	į	reservation, etc	4 Specify below then go to section 20,
3. Milk goats	845	Gallons \$	00		~
J	847 848	850		Specify	-
_	849	Number	i	SECTION 19 CORPORATE STRUCTURE (fo	r incorporated
4. Angora goats		Pounds \$ mohair	00	operations only) Refer to the INFO Section 19.	
5. Other livestock or animal			į	\$19	
specialties in captivity (Enter name and code from) <u> </u>	2	Ì	ì	922
"List A" below.)				1. Is this a family-held corporation?	. 1 Yes 2 No
Name Code		Number \$	00	, i	
C Fish and of	Total quantity and d	Gross value of sale	s 7	2. Are there more than 10 stockholders?	. 3 Yes 4 No
6. Fish and other aquaculture products (Enter name and	Total quantity sold in 1985	Dollars Cer			
code from "List B" below.)	Da			SECTION 20 CHARACTERISTICS AND OCCUP	
Name Code	1 OR Pounds		n	(Senior partner or person in charge INFORMATION SHEET, Section 20.	Refer to the
	Number p		<u>v</u>	\$20	
Name List A	Code Name	List B	Code	520	
Other goats		• !		1. RESIDENCE — Does the operator (senior	Aus
Mules, burros, and donkeys				partner or person in charge) live on this place?	ı ☐ Yes 2 ☐ No
Mink and their pelts		fish — Specify aguaculture	866	2. PRINCIPAL OCCUPATION — At which	
All other livestock and	produ	cts - Specify	869	occupation did the operator spend the majority	928
livestock products — Specify If more space is needed, use separ.				(50 percent or more) of his/her worktime in 1985? For partnerships consider all members of the	1 Farming 2 Other
	ne else have any POULTRY	such as CHICKE	VS.	partnership together	. or ranching
TURKEYS, DUC	KS, etc., on this place in 1	985? (Include poul	try grown		929
\$17			·	 OFF FARM WORK — How many days did the operator (senior partner or person in charge) 	1 None
= .	Complete this section	INVENTORY Number on	Total number	work at least 4 hours per day off this place in	₂ ☐ 1-49 days
2 NO	Go to section 18	this place ne Dec. 31, 1985	sold in 1985	1985? Include work at a nonfarm job, business, or on someone else's farm for pay. (Exclude exchange farmwork)	₃ ☐ 50−99 days
1. HENS and PULLETS of laying	_	892	893	Tarriwork)	√4 ☐ 100-149 days
2. Pullets for laying flock replace		894	895	1	₅ ☐ 150-199 days
a .PULLETS 3 months old or ol	der not yet of laying age]	\\ 895		6 ☐ 200 days or more
b.PULLET CHICKS and PULLE		896			060
(Exclude commercial broilers).		J	1	4. In what year did the operator (or senior partner))
BROILERS, fryers, and other including capons and roaste	rs	898	899	begin to operate any part of this place?	Yea
4. TURKEYS	_	900	901	5. AGE of operator (senior partner or person in	925
a.Turkeys for slaughter (Exc	lude breeders)	902	903	charge)	Years old
b.Turkey HENS kept for bree	eding] 302	303		924
5. OTHER POULTRY raised in c					4
geese, pigeons or squab, phe (Enter poultry name and code from			1		1 White
Poultry name	Code			6. RACE of operator (senior partner or person in	2 Negro or Black
Davides a serie	Code			charge)	3 American Indian
Poultry name Code	Name Code	, Name	Code		4 Asian or Pacific Islander
Ducks 904	Pigeons or squab 908	Quail	912		9 Other — Specify
Geese	Pheasants 910	All other pour Specify	iitry — 914		(= ourse opening)
6. POULTRY HATCHED on this pl		Num	ber		
placed or sold — chickens, turk	keys, ducks, etc. —	916			
Specify kind of poultry		917		7.3LA Of Operator (Serilor partitle) of person in	926 . 1 Male 2 Female
7. Incubator egg capacity on D	ecember 31, 1985 🗀			charge)	. 1 ∟ iviale 2 ∟ remale
	None	Gross value of sale	es	8. SPANISH ORIGIN — Is the operator (senior	
8. What was the gross value of sa	ales of poultry	Dollars	Cents	partner or person in charge) of Spanish origin or descent (Mexican, Puerto Rican, Cuban, or	927
and poultry products (eggs, etc place in 1985?			00	other Spanish)?	
FORM 85-A1 (10-31-85)	,	_	4	79 A	

products in 1985. DO NOT INCLUDE expenses connected with performing customwork for others; operation of nonfarm activities, businesses, or services; or household expenses not related to the farm business. None Dollars Cents 1. Livestock and poultry purchased — cattle, calves, 1. Sprays, dusts, granules, fumigants, etc., (fungicide, page 1972)	O — Go to section 24
1. Livestock and poultry purchased — cattle, calves,	
hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc	Number of acres on which used
2. Feed purchased for livestock and poultry — grain, hay, silage, mixed feeds, concentrates, etc	_ 027
(Exclude ingredients purchased separately, such as soybean meal, cottonseed meal, and urea) S O O (Exclude ingredients purchased separately, such as soybean meal, cottonseed meal, and urea) S O (Exclude ingredients purchased both pre-emergence and post emergence S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O (Cents S O	939
3. Seed cost — for corn, other grains, soybeans, tobacco, cotton, etc. — Include plants and trees purchased	e on December 31, litural operations in
4. Commercial fertilizer purchased — all forms, including rock phosphate and gypsum. Include cost of custom applications	December 31, 1985
	Stimated market value Dollars Cents
6 . Gasoline and other petroleum fuel and oil purchased for the farm business — a . Gasoline and gasohol	
b. Diesel fuel 979 SELECTED machinery and equipment on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this place, December 31, 1985. Selection on this	on MANY were manufac-
c. LP gas, fuel oil, kerosene, natural gas, motor oil, and grease 7. Electricity for the farm business (Exclude household) 8 00 2. Motortrucks - Include pickups	945
expenses) 8. Hired farm or ranch labor — wages and salaries paid, social security contributions, withholding taxes, insurance, unemployment compensation, etc. (See Information Sheet) 946 946 946 948	947
9. Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc., performed on a contract basis by a contractor, crew 4. Grain and bean combines, all types. 5. Cotton pickers and strippers. 6. Mower conditioners.	951 957 959
leader, a cooperative, etc. S 00 7. Pickup balers – Include rectangle and round balers	961
upkeep or buildings, motor vehicles, and farm equipment. 11. Customwork, machine hire and rental of machinery and equipment — Include expenditures for use of equipment and for customwork such as grinding and mixing feed, plowing, combining, corn picking, drying, silo filling, spraying, dusting, fertilizing, etc. (Exclude 985 SECTION 25 ESTIMATED CURRENT MARKET VAI 925 Please give your best ESTIMATE of the CURRENT MARKET VALUE of land and buildings for the acres reported in section 1, items 1, 2, and 3, page 1. 1. All land owned	Estimated market value
cost of cotton ginning and application of fertilizer and chemicals) 2. All land rented or leased FROM OTHERS	997 \$ 998 \$
a. Secured by real estate	URCES IN 1985
13. Cash rent paid for land and buildings in 1985	
machinery, livestock, etc. for the farm business. (Exclude taxes paid by landlords)	\$ 00 992
water, animal health costs, grazing fees, marketing charges, miscellaneous farm supplies, etc. (Exclude depreciation, household expenses, and expenses not 3. Gross cash rent or share payments received from renting out	\$ 00
associated with the farm business)	993
	\$ 00
4. Sales of forest products and Christmas trees. Include maple products, naval stores, firewood, etc. None Acres fertilized Acres fertilized 933 None Acres fertilized partonage dividends of cooperatives, sales of by-products,	
YES - Complete this section 2 NO - Go to section 23 None Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures reported in section 11, item 2b) Acres of pastureland and rangeland fertilized in 1985 reported in section 11, item 2b) 333 4. Sales of forest products and Christmas trees. Include maple products, naval stores, firewood, etc. 5. Other farm-related income, including recreational services, patronage dividends of cooperatives, sales of by-products, and other business or income which is CLOSELY RELATED to the agricultural operations on this place - Specify kind 2. Acres of pastureland and rangeland fertilized in 1985 reported in	995
4. Sales of forest products and Christmas trees. Include maple products, naval stores, firewood, etc. None Acres fertilized 1. Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures reported in section 11, item 2b)	\$ 00

FORM 85-A1 (10-31-85)



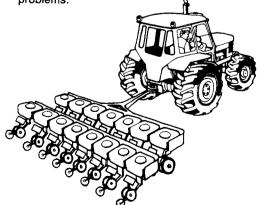
Why a Census?

A national census of agriculture is the only detailed source of information about America's agricultural production. It's a measurement of where farmers and ranchers stand, their farm supply needs, their production costs and cropping systems, and how trends are changing.

Agricultural data are gathered by other groups—but the census of agriculture is the Nation's only comprehensive program for the entire agricultural industry. Census information is sought by land-grant universities in research projects, by those who serve farmer and agribusiness clients, by farm organizations to evaluate and analyze programs, and by lawmakers to help meet the changing needs of America's largest industry.

How Are Census Data Used?

- Farm suppliers of fertilizer, seed, and equipment use census data to meet your needs for products.
- Your farm organization uses census data to evaluate and propose programs and policies that affect you.
- Marketing and distribution facilities are built based on census data to help you market your products.
- New technology is developed for your use by researchers using census data.
- Your elected representatives use census data to develop programs to help solve agricultural problems.



Who Plans the Questions?

American Farm Bureau Federation

Representatives of farmers and ranchers work with Census Bureau officials to determine what needs to be asked on the census report form. These representatives are leaders in the agricultural industry representing commodity organizations, States, suppliers of agricultural products, and universities, and include such organizations as:

National Cattlemen's Association National Council of Farmer Cooperatives National Farmers Organization National Farmers Union The National Grange Agricultural Publishers Association American Agricultural Economics Association American Feed Industry Association American Meat Institute Association of Research Directors, Inc. Conference of Consumer Organizations Farm and Industrial Equipment Institute National Agri-Marketing Association National Agricultural Chemicals Association National Association of State Departments of Agriculture National Association of State Universities and Land-Grant Colleges National Food Processors Association Rural Sociological Society The Irrigation Association U.S. Department of Agriculture

What Happens to the Data?

Data are published only in tabulated totals—by State and county. No one but sworn Census Bureau employees see individual report forms, under penalty of law. Individual report forms are strictly confidential. Not even the Federal Freedom of Information Act can cause your report data to be made public.



The Census Bureau cannot, by law, provide individual data to other government agencies. No one may have access to your completed form except you.

FORM 85-A1 (10-31-85)

DUE BY JANUARY 31, 1986			OMB No. 0607-0501: A	pproval Expires December 31, 1986
FORM 85-A2 U.S. DEPARTMENT OF COMMER BUREAU OF THE CENS	US YOUR REPORT Census employ	TO THE CENS ees and may be	nquiry is required by law (title 13, U.S. US BUREAU IS CONFIDENTIAL. It may used only for statistical purposes. Your ligation, or regulation. The law also prov	Code). By the same law be seen only by sworn report CANNOT be used
UNITED STATES CENSUS	in your files are	immune from leg	gal process.	<u> </u>
OF AGRICULTURE	In corresponde	ence pertaining	to this report, please refer to your Ce	nsus File Number (CFN)
	4			85-A2
Please complete this form and RETURN TO BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 4713	3			
Note — If your records are not available, reasonal estimates may be used. If you cannot file by January 31 time extension request may be sent to the above addres Include your 12-character Census File Number (CFN) shown in your address label in all correspondence to us.	, a ss.			
If you received more than one report form, enter extra Census File Number(s) below and return extra copies with your completed report.				
A -	7			
	_			
CENSUS 035 036 037 038	┨ └			
USE ONLY 039 040 041 042	-	(Planca	correct errors in name, address, and ZIP	anda l
s ₁ or organization for which you ar	e reporting. Inclu	de ALL LAND,	you, your spouse, or by the partners REGARDLESS OF LOCATION OR U	snip, corporation, SE —
cropland, pastureland, rangelan				None Number of acres
If the acres you operated in 1985 changed during the		IFORMATION SI	IEET, Section 1.	043
1. All land owned				044
2. All land rented or leased FROM OTHERS, including for services, payment of taxes, etc. Include lease on a per-head basis under a grazing permit.) Also	l Federal, State, an	d railroad land. (DO NOT include land used	
3. All land rented or leased TO OTHERS, including la Also complete item 6 below				045
4. ACRES IN THIS PLACE — ADD acres owned (if acres rented TO OTHERS (item 3), and enter the rented TO OTHERS (item 3).				046
For this census report these are the "ACRES IN THI	S PLACE." If the ent	ry is zero please i	refer to the INFORMATION SHEET, Section	1.→
	Name of la	andlord	Mailing address (Include ZIP code	e) Number of acres
5. If you rented land FROM OTHERS (item 2), enter the	Name of a	andiora	Maning address (metade 2m code	iy Number of acres
following information for each landlord	 			
	 			
	List additional landle	ords on a senarate	sheet of paper.	
- K	Name of		Mailing address (Include ZIP code	e) Number of acres
6. If you rented land TO OTHERS (item 3), enter the following information for each renter		· · · · · ·		
•				
• Otabalandan annud la la di	List additional renter			053
 a. Of the land you rented or leased to others, how 7. Did you have any grazing permits on a per-head basis 		ou own?	None	Acres
054 1 Yes - Mark (X) all boxes which apply.	3 Forest S	Service	5 ☐ Indian Land BLM) 6 ☐ Other — <i>Specify</i>	
2 No – Go to item 8	•		_	055
8. How many acres were diverted (or set-aside) under F	· ·	reage reduction p	rograms in 1985? None	055 Acres
B. LOCATION OF AGRICULTURAL ACTIVITY FOR T a. In what county was the largest value of your agriculture products raised or produced?	cultural	Principal county-	County name	State Number of acres
products raised or produced:				057
b. If you also had agricultural operations in any othe	r county(iee)	Other		058
enter the county name(s), etc		counties		059
PENALTY FOR FAILURE TO REPORT		·		

SECTION 2	Were any of the FOLLO	OWING O	PADS haminata	d from bh:	c place i= 100E*)						
	were any of the FULL	OMING C	KUPS narveste	u irom thi	•	Acres	s harvested	 	Quantity har	vested	Acres in	rinstad
S2					None	067	J Har Vested	068		Bu.	069	nyate0
1.Corn (field) fo	or grain or seed (Report o	quantity o	n a dry shelled-	weight b	asis)	0.70		1	OR	Lbs.		
2. Corn (field)	for silage or green ch	hop			🗆	070		071		Tons, green	072	
3. Winter whe	at for grain				🗆	047		048		Bu.	049	
4. Durum whe	at for grain					050		051		Bu.	052	
	at, other than durum,					527	<u> </u>	528		Bu.	529	
S.Oats for gra	in					076		077		Bu.	078	
_						082		083	OR	Bu.	084	
•	r grain or seed, includ	_			_	088		1 089		Lbs.	090	
•	or beans				_	091		092		Bu.	093	
9. Cotton			• • • • • • • • • • • • • • • • • • • •			094		095		Bales	096	
.Tobacco -	all types				🗆		/10			Lbs.		1/
.Potatoes,	Irish				<u> </u>	097	/10	098		Cwt.	099	1 /
chop from the	ere made for both dry l e same fields, report tl d also under GRASS S	he acreac	e in the annro	nriate iter	ns under						1	
.DRY HAY	of two or more cuttings res, report acres only o	of dry h	ay were made	from			s harvested	a	Quantity har Report either d weight as inc	ry or green	Acres in	rigated
	nd alfalfa mixtures for	r hay or o	dehydrating.			103		104	<u></u>	Tons, dry	105	
b. Small grai	in hay — oats, wheat	t, barley,	rye, etc			106		107		Tons, dry	108	
	ne dry hay – clover, le	•		•	•	109		110		Tons, dry	111	
•						112		113		Tons, dry	114	
	.AGE, HAYLAGE, A					115		116	,		117	
		ittings w total tons	ere made from from all cuttir	the same ngs.)	e acres,					Tons, green		
and fed gre report acres of B. HAY SOLD	en) (If two or more cu only once, but report t — Did you sell any h	ay or gra	ss silage in 1	985?		118	7 v.a		N.			
and fed gre report acres of HAY SOLD (Report value	een) (If two or more cu only once, but report t — Did you sell any h a of hay sold in section	ay or gra 9, item	nss silage in 1 4)	985? 		118		2 🗌	No	green		
and fed gre report acres of HAY SOLD (Report value	en) (If two or more cu only once, but report t — Did you sell any h	ay or gra 9, item	ess silage in 1 4)	985? 	etc., harveste	118 1 [Yes Crop (2 D	Code	Green Cr Onions, gr	rop name reen	4:
and fed gre report acres of A. HAY SOLD (Report value ECTION 4	een) (If two or more cuonly once, but report to be of hay sold in section. Were any VEGETAB SALE from this place.	ay or grand of the second of t	ess silage in 1 4) FET CORN, N 57 (Exclude th	985? MELONS, ose grow	etc., harveste	118 1 d FOR e.)	Crop of Asparagus	2 D	Code	Cr Onions, gi	op name	4:
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and fed grereport acres of a HAY SOLD (Report value SECTION 4 S4	ween) (If two or more cuonly once, but report to a play sold in section. Were any VEGETAB SALE from this place to a play sold in section. The section of the section of the section of the right, enter the more than one vegetable for each crop. Report to sold on the right, enter the more than one vegetable on the section.	ay or grand and or grand and or grand and or grand and or grand are copy and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or grand and or gra	Acres Whole acres Whole acres are and code for the survested is with under protection.	985?	Acres irrigate Whole acres appearance on harvested same acres, section 5.	d FOR b.) tion 5 sted Tenths /10	Crop Asparagus Beans, sna (bush and Beets Broccoli . Cabbage, Cantaloups muskmelo Carrots Collards Cucumbers Eggplant Garlic Honeydew Lettuce and Lima bean	p pole)	Code379381385395397397397407407415415415	Onions, grown Peas, Engle (Exclude peas) Peppers, series Peppers, series Cowpeas crowder, Spinach Squash Sweet cor Tomatoes Turnips Turnip green	peas, green s) — blackey, etc	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

S5 veg	i, bulbs, jetables	, flowers, fl	ower seeds	HOUSE CROI s, vegetable se protection, GF	eeds and	l plants,		В	Crop name Bedding plants (include vegetable plant Buibs (exclude buib flowering plants).			
1 🗆	YES	- Complet	e this section	•		Area irrigated		_			nd cut florist greens	
2] NO	— Go to sed		None	Square f		Tenth	s N	lursery	crops	- ornamentals, fruit s, and vines	
1. Nursery and gr	eemous	e crops ing	aleu III 130	5	Ĺ		<u> /1</u>	0				
2. From the list or	the righ	nt, enter the	crop name a	and code for ea	ch crop	grown.			•		ants	
Crop nar	me	Code	Square fe under glass	s or Acres in 19		Sales in 1	985	1			· · · · · · · · · · · · · · · · · · ·	
5. 5 p			other protection 1985		Tenths	Dollars	Cent	_†				
				1		2	1 .	ן י	-		flower seeds	
				1	/10	\$	00	ہ 1			egetables	
			 	1		\$	00			•	,	
					/10	\$	1 00				Il space is needed to e separate sheet of pap	
				ERRIES, or OTI	HER BER	RIES harveste	d	0	rop nei	me		Cod
S8 FOI	_	•		(Exclude those	grown fo	r home use)			•		nd dewberries (pounds).	
1	YES -	- Complete	this section	2 🗌 NO	— Go t	o section 7					ame (pounds)	
From the list on th			ame and co	de. Report qua	ntity har	vested in unit				-	rild (pounds)	
specified with cro	p name.		A b								100-ib. barrels)	
Crop name		ICode ⊢	Acres harves	— Ouantity	harveste	d Acres irr Whole acres	<u> </u>	_			oounds)	
		 	1	1		2	1	┪	•	-	(pounds)	
			1	/10		2	1 /10	9			es (pounds) — Specify	
			!	/10		-	i /10	٥١				
			[/10		2	1 /10				I space is needed to e separate sheet of pap	
SECTION 7 Wa	s there	a combined	total of 2	or more FRU	JIT TRE	S, including			NES,		Noncitrus crops	Code
S7 CIT	rus, a	nd NUT TR	EES ON TI	HIS PLACE in	1985?	_					Apples	
1 🗆	YES	_ Complet	e this section	2 🗌 NO .	_ Go to	section 8					Avocados	138
1. TOTAL ACRE					rus or oth	ner groves, vir	neyards	, and	d nut		Cherries, tart	. 587
trees on this pl	ace. (Do	not include	abandoned	acres.)							Grapes, dry weight Grapes, fresh weight	177
		—	acres	Acres irrig							Olives (Report quantity I Sept. 1984 through	for
		Whole acre	es Tenths	Whole acres	Tenths						March 1985 harvest season)	
]'2'	/10	122							Peaches	231
6 F			/10		/10						Plums and prunes, fresh weight	243
2. From the list or place in 1985.	Report t	the requeste	d information	e for the fruit tro on for each cro	ees, grap p even if	evines, and n not harvested	ut trees I becau	s on t se of	low		Prunes, dry weight Other noncitrus – Specify	
prices, damage	from ha	ail, frost, etc	>. 								• •	
			F TREES OR	Acres in tre	- 1		Unit o	f me			Citrus crops Report quantity harveste	Code ad for
Crop name	Code		OF	ages		Quantity harvested	-	ark or	T	Lbs.	the 1984-1985 harvest	season
		Nonbearing age	Bearing age	Whole acres Te	enths		Lbs.	Tons	Boxes	per box	Lemons	. 279
	+		1	2	3		4 _		ŧ	5	Limes	297
			1	2	/10		1 4	2 🗆	3 🗆	5	Tangelos	
					/10			2 🗆]3 □ i		Other citrus - Specify	. 315
			1	2	/10		1 🗆	2 🗆	3 □	5	Nut crops	Code
	 		1	2	3		4			5	(Report quantity in me	eats)
	+		 	2	/10		1 1	2 🗆		5	Almonds	
-												
					/10		1 🗆	2 🗆	3 □		Filberts and hazelnuts	327
			1	2	/10		1 🗆	2 🗆 2 🗆	3 □ ┆	5	Filberts and hazelnuts	327 338

FORM 85-A2 (10-31-85)

l sa	grains, field se	iek Ck Beds. o	OPS harvested fro	om this place in 198 previously reported?	5 - small	Crop na	ıme	Code
38	•	-	•				ed (pounds)	
	1 ∐ YES - Ce	omplete	e this section 2	NO - Go to section	19	Beans, dr	r grain (bushels) y edible (excluding dry i dweight)	imas)
	on the right, ento	er the cr	op name and code.	. Report quantity harve	ested in unit	Beans, d	ry lima (hundredweight at (bushels)) 557
- Specified Wit	Tr Crop Harrie.	1				Corn cut	for dry fodder, hogged o	or grazed
Crop	name	Code	Acres harvested	Quantity harvested	Acres irrigated	Dry south	acres only) nern peas (cowpeas) (bi	ushels) 584
Sweetpotatoes	and vams	100	/10	101 Bu	102		nd spelt (bushels) eed (pounds)	
	, , , , , , , , , , , , , , , , , , , ,		7.10	1	2		(bushels)	
		ļ				Kentucky	bluegrass seed (pounda seed (pounds)	ls) 629
					2	Mint for a	oil (pounds of oil)	644
				1	2		for nuts (pounds)	
1				1	2		(pounds, shelled) let (bushels)	
						Red clove	er seed (pounds)	671
				1	2	Rye for g	rain (bushels)	686
-		<u> </u>		1	2		seed (pounds) r (pounds)	
			·			Sorghum	cut for dry forage or ha	У
				1	2	Sorghum	hogged or grazed (repo	nt
				1	2	Sorghum	nly)	
				1	2	Sugar be	ets for sugar (tons)	719
						Sugarcan	e for seed (tons)	725
				<u> </u> 1	2	I	er seed (pounds) seed (pounds)	
If additional s	space is needed t	to enter	crops, use separat	e sheet of paper.			ops (pounds) - Specify	
SECTION 9	GROSS VALU	E of CF	ROPS SOLD from	this place in 1985, E	EFORE taxes and	expense:	s (Refer to the	-
S9	INFORMATIC	ON SHE	ET. Section 9.)					
Report vo	_							
the landlo	ur best estimate rd's and/or contr	of the v actor's	alue for each of the	e following groups of c necessary. Include val	rops sold from this pue of Government C	place in 19 CC Loans	985. Include the va	
the landlo	ur best estimate rd's and/or contr ybeans and othe	ractor's	alue for each of the share, estimate if r	e following groups of c necessary. Include val	rops sold from this pure of Government C	CC Loans None	Dollars	
the landlo	rd's and/or contr ybeans and othe	ractor's er beans	alue for each of the share, estimate if r sold in 1985	e following groups of c necessary. Include val	ue of Government C	CC Loans None	Dollars 773	
the landlo 1. Grains, so a. Corn fo	rd's and/or contr ybeans and othe or grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	CC Loans None	Dollars	Cents 00
the landlo 1. Grains, so a. Corn fo b. Wheat	rd's and/or contr ybeans and othe or grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	Dollars 773	Cents
the landlo 1. Grains, so a. Corn fo b. Wheat	rd's and/or contr ybeans and othe or grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	Dollars 773 \$ 774 \$ 775 \$	Cents 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea	rd's and/or contr ybeans and othe or grain	ractor's	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	Dollars 773 \$ 774 \$ 775 \$ 776	00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu	rd's and/or contr ybeans and othe or grain ans	ractor's	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	Dollars 773 \$ 774 \$ 775 \$	00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu	rd's and/or contr ybeans and othe or grain ans	ractor's	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 7777 \$	00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley	rd's and/or contrybeans and other grain	ractor's	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	Dollars 773 \$ 774 \$ 775 \$ 776 \$	00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats	rd's and/or contrybeans and other grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None 	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 7777 \$	00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats	rd's and/or contrybeans and other grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ue of Government C	None None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 7777 \$ 7778	00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other -	rd's and/or contrybeans and other grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	necessary. Include val	ver seed, rye, etc	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 777 \$ 778 \$ 778 \$ 779 \$ 780 \$	00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an	rd's and/or contrybeans and other grain	dry pea	alue for each of the share, estimate if r sold in 1985	orn, safflower, sunflo	ver seed, rye, etc	None None .	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 778 \$ 779 \$ 780	00 00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an	rd's and/or contrybeans and other grain	dry pea	alue for each of the share, estimate if r sold in 1985	orn, safflower, sunflow	ver seed, rye, etc	None None .	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 777 \$ 778 \$ 778 \$ 779 \$ 780 \$	00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an 3. Tobacco .	rd's and/or contr ybeans and othe or grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985	orn, safflower, sunflo	ver seed, rye, etc	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 777 \$ 778 \$ 778 \$ 778 \$ 780 \$ 781 \$ 782 \$ \$	00 00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an 3. Tobacco . 4. Hay, silag 5. Vegetable	rd's and/or contrybeans and other grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985 as, flaxseed, popco	processary. Include value of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of t	veetpotatoes, report	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 778 \$ 778 \$ 780 \$ 781 \$ 782	00 00 00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an 3. Tobacco . 4. Hay, silag 5. Vegetable	rd's and/or contrybeans and other grain	ractor's er beans	alue for each of the share, estimate if r sold in 1985 as, flaxseed, popco	orn, safflower, sunflo	veetpotatoes, report	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 777 \$ 778 \$ 778 \$ 778 \$ 780 \$ 781 \$ 782 \$ \$	00 00 00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an 3. Tobacco . 4. Hay, silag 5. Vegetable them in its	rd's and/or contrybeans and other grain	dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry peans dry pe	alue for each of the share, estimate if r sold in 1985 as, flaxseed, popco	processary. Include value of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of the common of t	ver seed, rye, etc	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ \$ 778 \$ \$ 778 \$ \$ 778 \$ \$ 780 \$ 781 \$ \$ 782 \$ \$ 783 \$ \$ 784 \$	00 00 00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other 2. Cotton an 3. Tobacco 4. Hay, silag 5. Vegetable them in its 6. Fruits, nut 7. Other crop	rd's and/or contrybeans and other grain	dry peads and melo	alue for each of the share, estimate if r sold in 1985 as, flaxseed, popco	processary. Include value of the common safflower, sunflower, sunf	veetpotatoes, report	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ 777 \$ 778 \$ 779 \$ 780 \$ 781 \$ 782 \$ 783 \$ 784	00 00 00 00 00 00 00 00
the landlo 1. Grains, so a. Corn fo b. Wheat c. Soybea d. Sorghu e. Barley f. Oats g. Other - 2. Cotton an 3. Tobacco . 4. Hay, silag 5. Vegetable them in its 6. Fruits, nut 7. Other cropmint for oi	rd's and/or contrybeans and other grain	dry pea	alue for each of the share, estimate if r sold in 1985 as, flaxseed, popcous seeds	e Irish potatoes and sw s, pecans, strawberries, sugar beets, sugar beets, sugar boducts) —	veetpotatoes, report	CC Loans None	\$ Dollars 773 \$ 774 \$ 775 \$ 776 \$ 777 \$ \$ 778 \$ \$ 778 \$ \$ 778 \$ \$ 780 \$ 781 \$ \$ 782 \$ \$ 783 \$ \$ 784 \$	00 00 00 00 00 00 00 00

166 APPENDIX F

Page 4

SECTION 10	GOVERNMENT CCC LOANS		,,,,
\$10			
	ceived in 1985 from Government CCC loans for - (Include regular and reserve		
loans, even	if redeemed or forfeited.) None	Dol	lars Cents
a. Corn, so	orghum, barley, and oats	799 \$	00
b. Wheat.		800 \$	00
c. Cotton.	_	801 \$	00
d. Soybear	ns, peanuts, rye, rice, tobacco, and honey	802 \$	00
	LAND USE IN 1985 S11		
	ES IN THIS PLACE from section 1, item 4, page 1		
NOTE: use first harveste	For items 2 to 5 below, if the same land had more than one use in 1985, REPORT THAT LAN listed below that applies. For example, cropland harvested and also pastured is to be reporte ed."	d only as "	Cropland
2. CROPLAN		140116 -	Number of acres
in orcha	d harvested — Include all land from which crops were harvested or hay was cut, and all land rds, citrus groves, vineyards, and nursery and greenhouse products	1. 🗆 L	87
have be	d used only for pasture or grazing — Include rotation pasture and grazing land that could sen used for crops without additional improvements		89
pasture	d used for cover crops, legumes, and soil-improvement grasses, but NOT harvested and NOT d	. 🗆 📙	90
d. Croplan on whic	d on which all crops failed — (Exception: Do not report here land in orchards and vineyards the crop failed. Such acreage is to be reported in item 2a.)	🗆 🖺	91
1 '	d in cultivated summer fallow	🔲 7	93
f. Croplan	d idle		94
3 Woodland	Include all woodlots and timber tracts and cutover	. 🗆 🖺	
	sted land with young timber growth. b. Woodland not pastured		95
	(b) Woodiand not pastured.		96
	tureland and rangeland — Include any pastureland other than cropland and woodland pasture		
items 2 th	and — Land in house lots, ponds, roads, wasteland, etc. — Include any land not reported in rough 4 above	′ □ 	97
(Should be	CRES — Add the acres reported in items 2 through 5 e the same as item 1 above.)		798
	Was any LAND in this place IRRIGATED at any time in 1985?		
Irrigati spread	ed land is all land watered by any artificial or controlled means — sprinklers, furrows or ditche ler dikes, etc. Include supplemental, partial, and preplant irrigation.	es, None	Number of acres
\$12	1 Section 2 No - Go to section 13	_	680
	y acres of harvested land were irrigated?from which hay was cut and land in bearing and nonbearing fruit and nut crops reported in section 11, item 2a.	🗆	681
2. How many	acres of pastureland, rangeland, and any other lands not included in item 1 above were irrigated?		
SECTION 13	Did you or anyone else have any SHEEP or LAMBS on this place in 1985?		
S13		ENTORY er on this	NUMBER SOLD
1	place De	c. 31, 1985	
1. SHEEP and	d LAMBS of all ages		825
a.EWES	1 year old or older		
	Number sho	rn Pounds	s of wool
	None in 1985	shorn	in 1985
2.SHEEP an	d LAMBS SHORN	828	
	Γ	Gross valu	ue of sales
	None	Dollars	Cents
3. What was		29	00
FORM 85-A2 (10-31-8	<u></u>		Page 5

1987 CENSUS OF AGRICULTURE

Page 5

SECTION 14 Did you or anyone else have any CATTLE or CALVES on this place in 198	85?				
s ₁₄ 1 ☐ YES — Complete this section 2 ☐ NO — Go to section 15	5		ſ	INVENTO	
DECEMBER 31, 1985 INVENTORY		N	one	Number on place Dec. 31	
1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)				803	Total
a. BEEF COWS — Include beef heifers that had calved			\Box		Beef cows
			_	805	
b. MILK COWS kept for production of milk or cream for sale or home use — Include of milk cows and milk heifers that had calved					Milk cows
c. HEIFERS AND HEIFER CALVES — (Exclude heifers that had calved)			$_{\sqcap}$		Heifers and heifer calves
TEN END AND THE ENGALVED TENDING GRACING GRACING GRACING			_	807	Steers and
d. STEERS, STEER CALVES, BULLS, AND BULL CALVES					all ages
CATTLE AND CALVES SOLD FROM THIS PLACE IN 1985	Γ	Numbe	r sold	Gross value	of sales
Include those fed on this place on a contract or custom basis. Also report as sold cattle moved from this place to a feedlot for further feeding.	None	in 19		Dollars	Cents
2. Calves weighing less than 500 pounds		808		\$09	i ! 00
		810		811	
3. Cattle, including calves weighing 500 pounds or more				\$	00
a. Of the total cattle sold, how many were FATTENED on this place on GRAIN or		812		813	
CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?				\$	00
DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1985				RY PRODUCTS	
	N	lone 814			nts
4. Gross value of sales of DAIRY PRODUCTS from this place in 1985 — Include milk, cream, butter, etc		s		! !	00
SECTION 15 Did you or anyone else have any HOGS or PIGS on this place in 1985?					
1 YES — Complete this section 2 NO — Go to section 16	6				
A DECEMBER 24 4005 INVENTORY			[INVENTO Number or	
DECEMBER 31, 1985 INVENTORY		N	lone	place Dec. 31	
1. HOGS and PIGS of all ages — (Total of a and b below)				815	Total
a. HOGS and PIGS used or to be used for BREEDING			\sqcup $[$	816	Breeding
b. OTHER HOGS and PIGS				817	Other
• LITTERS FARROWED		Nor		Number of litters	3
2. LITTERS FARROWED on this place between — a. December 1, 1984 and May 31, 1985		_	818	В	
b. June 1, 1985 and November 30, 1985			81	9	
		Number	Ī	Gross value o	f sales
HOGS AND PIGS SOLD None	e 820	sold in 1985		Dollars 21	Cents
3. HOGS and PIGS SOLD from this place in 1985	820		\$	۷ ۱	1 00
4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS	822		1.	23	- 00
for further feeding?			\$	FORM SE	1 00 -A2 (10-31-85)
Page 6				· Ottivi 65	

SECTION 16 Did you or anyone else have SPECIALTIES in 1985?	e an	y HORSES, BEE	S, FISH	I, GOAT	S, OTI	HER LIVESTOCK,	or ANI	MAL
S16								
1 YES - Complete this section	Ī	INVENTORY	Total quantity sold in 1985		•	Gross value of sales		
2 NO — Go to section 17	ie	Number on this place Dec. 31, 1985			Dollars	Cents		
1. Horses and ponies of all ages	83	30	831	Nu	mber	832	00	
11. Horses and porties of all ages	83	19	840			842		List A
	,		841		mber unds	4\$	ļ ļ	
2. Colonies of bees	┙┝				ney) \$	00	Name Code Other goats 851
	84	13	844	Nu	mber	846	1	Mules, burros, and
3. Milk goats]		845		llons	s	00	donkeys 833 Mink and their petts 836
1	84	17	848	mi	lk	850	00	Rabbits and their pelts 854
_	,				mber	1	İ	All other livestock and
4. Angora goats]		849		unds bhair	\$	00	livestock products - Specify857
 Other livestock or animal specialties in captivit (Enter name and code from "List A" on the right.) 	y		1			2		List B
Name Code	_			Nu	mber	\$	00	
					Gros	s value of sales		Name Code Catfish 860
6. Fish and other aquaculture products (Enter nan code from "List B" on the right.)	ne an	Total quar	ntity sold	in 1985		Ooliars Cents		Trout
				Pounds	2			Other fish - Specify 866
Name Code If additional space is needed, use separate she		— I'	H	Number) \$. 00		Other aquaculture products — Specify 869
2 NO — Go to section 18 1. HENS and PULLETS of laying age 2. Pullets for laying flock replacement a. PULLETS 3 months old or older not yet of laying the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sec				Numb this p Dec. 31 892	olace	Total number sold in 1985		
b. PULLET CHICKS and PULLETS under 3 mor (Exclude commercial broilers)	ths o	ld	_	896		_}		
3. BROILERS, fryers, and other meat-type chic				898		899	1	lame Code
and roasters			∟					eese
a.Turkeys for slaughter (Exclude breeders)			🗆	900		901	4	igeons or squab 908
				902		903	- 	heasants 910
b. Turkey HENS kept for breeding	s, ge	eese, pigeons	⊔				O A	luail
the list on the right.)						1		pecify 914
Poultry name		Code_				1	-	
Poultry name		Code_						
6. POULTRY HATCHED on this place in 1985 and sold — chickens, turkeys, ducks, etc. — <i>Special</i>			·				None	Number 916
7. Incubator egg capacity on December 31	19	85						917
			None	Gro		e of sales Cents	- L	····································
8. What was the gross value of sales of poul products (eggs, etc.) from this place in 15				918		00		

FORM 85-A2 (10-31-85)

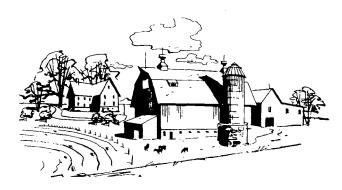
Form 85-A2

SECTION 18 TYPE OF ORGANIZATION — Mark (X) the one item which best describes the type of organization for this place in 1985. Refer to the INFORMATION SHEET, Section 18.
FAMILY or INDIVIDUAL operation — (Exclude partnership and corporation)
● PARTNERSHIP operation —Include family partnerships
● INCORPORATED UNDER STATE LAW
OTHER, such as estate or trust, prison farm, grazing association, Indian reservation, etc
Specify
SECTION 19 CORPORATE STRUCTURE (for incorporated operations only) S19 Refer to the INFORMATION SHEET, Section 19. 922
1. Is this a family-held corporation?
2. Are there more than 10 stockholders?
SECTION 20 CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner or person in charge) S20 Refer to the INFORMATION SHEET, Section 20.
1. RESIDENCE — Does the operator (senior partner or person in charge) live on this place?
2. PRINCIPAL OCCUPATION — At which occupation did the operator spend the majority (50 percent or more) of his/her worktime in 1985? For partnerships consider all members of the partnership together 1 Farming 2 Other or ranching
3. OFF-FARM WORK — How many days did the operator (senior partner or person in charge) work at least 4 hours per day off this place in 1985? Include work at a nonfarm job, business, or on someone else's farm for pay. (Exclude exchange farmwork). 100—149 days 100—149 days 150—199 days 150—199 days 200 days or more
4. In what year did the operator (or senior partner) begin to operate any part of this place?Year
5. AGE of operator (senior partner or person in charge)
6. RACE of operator (senior partner or person in charge)
7. SEX of operator (senior partner or person in charge)
8. SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent (Mexican, Puerto Rican, Cuban, or other Spanish)?
Page 8 FORM 85-A2 (10-31-85

None Acres fertilized 1. Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures reported in section 11, item 2b)	SECTION 21 Was any COMMERCIAL FERTILIZER, including ROCK PHOS	PHATE, or LIME used o	on this place during 1985?
1. Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures reported in section 11, item 2b) 2. Acres of pastureland and rangeland fertilized in 1985 reported in section 11, items 2b and 4	\$21		
1. Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures reported in section 11, item 2b) 2. Acres of pastureland and rangeland fertilized in 1985 reported in section 11, item 2b and 4	1 VES _ Complete this section 2 NO _ Goto	section 22	
1. Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures reported in section 11, item 2b) 933 933 2. Acres of pastureland and rangeland fertilized in 1985 reported in section 11, items 2b and 4	123 — Complete dias section 2 - NO - Goto	38CHON 22	None Acres fortilized
2. Acres of pestureland and rangeland fertilized in 1985 reported in section 11, items 2b and 4			
2. Acres of pastureland and rangeland fertilized in 1985 reported in section 11, items 2b and 4	1. Acres of cropland fertilized in 1985 (Exclude cropland used only for pastures re	eported in section 11, iten	
3. LIME — tons of lime used and acres on which applied (Do not include land plaster or gypsum or lime for sanitation)	2. Acres of pastureland and rangeland fertilized in 1985 reported in section 11, it	ems 2b and 4	
SECTION 22 Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATICIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1985? 1			7 101 00 1111100
OTHER CHEMICALS used on this place in 1985? 1 YES — Complete this section 2 NO — Go to section 23 Include any materials provided by you, your landlords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report acreage treated for each purpose. 1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematicide) to control — a. Insects on crops, including hay. b. Nematodes in crops and orchards (blights, smuts, rusts, etc.). d. Weeds, grass, or brush in crops and pasture include both pre-emergence and post emergence. 2. Chemicals for defoliation or for growth control of crops or thinning of fruit. SECTION 23 MACHINERY AND EQUIPMENT ON THIS PLACE ON DECEMBER 31, 1985 (Include only equipment used for agricultural operations in 1984 or 1985.) • Value of ALL machinery and equipment on this place, December 31, 1985 1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? Include cars, trucks, tractors, combines, plows, disks, harrows, dryers, pumps, motors, irrigation equipment, delive equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc. • SELECTED machinery and equipment on this place, December 31, 1985. (Report only if used in 1984 or 1985.) 2. Motortrucks – Include pickups. December 31, 1985. (Report only if used in 1984 or 1985.)	3. LIME — tons of lime used and acres on which applied (Do not include land plast gypsum or lime for sanitation)	Let Of	935
Include any materials provided by you, your landlords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report acreage treated for each purpose. 1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematicide) to control — 2. Insects on crops, including hay. 337 538 C. Diseases in crops and orchards (blights, smuts, rusts, etc.). d. Weeds, grass, or brush in crops and pasture Include both pre-emergence and post emergence. 2. Chemicals for defoliation or for growth control of crops or thinning of fruit. SECTION 23 MACHINERY AND EQUIPMENT ON THIS PLACE ON DECEMBER 31, 1985 (Include only equipment used for agricultural operations in 1984 or 1985.) • Value of ALL machinery and equipment on this place, December 31, 1985 1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? Include cars, trucks, tractors, combines, plows, disks, harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc. • SELECTED machinery and equipment on this place, December 31, 1985. (Report only if used in 1984 or 1985.) 2. Motortrucks – Include pickups.		IATICIDES, OTHER PE	STICIDES, or
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1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematicide) to control— a. Insects on crops, including hay			only once.
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b. Nematodes in crops	a. Insects on crops, including hav		
c. Diseases in crops and orchards (blights, smuts, rusts, etc.) d. Weeds, grass, or brush in crops and pasture Include both pre-emergence and post emergence. 2. Chemicals for defoliation or for growth control of crops or thinning of fruit. SECTION 23 MACHINERY AND EQUIPMENT ON THIS PLACE ON DECEMBER 31, 1985 (Include only equipment used for agricultural operations in 1984 or 1985.) • Value of ALL machinery and equipment on this place, December 31, 1985 1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? Include cars, trucks, tractors, combines, plows, disks, harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc. • SELECTED machinery and equipment on this place, December 31, 1985. (Report only if used in 1984 or 1985.) 2. Motortrucks – Include pickups.			937
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1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? Include cars, trucks, tractors, combines, plows, disks, harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc. SELECTED machinery and equipment on this place, December 31, 1985. (Report only if used in 1984 or 1985.) None Total number on this place on December 31, 1985 (1981 – 1985)? 944 945 945 946	s23 for agricultural operations in 1984 or 1985.)		
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harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc			
• SELECTED machinery and equipment on this place, December 31, 1985. (Report only if used in 1984 or 1985.) None Total number on this place on December 31, 1985 (1981 – 1985)? 944 945 946 947	harrows, dryers, pumps, motors, irrigation equipment, dairy equipment includi	na milkers and bulk	
• SELECTED machinery and equipment on this place, December 31, 1985. (Report only if used in 1984 or 1985.) None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None None	tanks, livestock leeders, grinding and mixing equipment, etc		\$ 00
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December 31, 1985. (Report only if used in 1984 or 1985.) None (1981 – 1985)? 2. Motortrucks – Include pickups	SELECTED machinery and equipment on this place	on this place on	
2. Motortrucks - Include pickups			
946 947	2 Matattruska - Ingluda piakuna	944	945
- Wilder transfer other than dargen tractors and motor fillers -	3. Wheel tractors other than garden tractors and motor tillers –	946	947
a.Less than 40 horsepower (PTO)			
b. 40 horsepower (PTO) or more	b. 40 horsepower (PTO) or more	948	949
4. Grain and bean combines, all types	_	950	951
5. Cotton pickers and strippers.		956	957
958 959		958	959
6. Mower conditioners		960	961
	FORM 85-A2 (10-31-85)	<u> </u>	Page Q

SEC	TION 24 PRODUCTION EXPENSES paid by you and others for this place in 1985			
live	s24 ude your best estimates of expenses paid by you, your landlord, contractors, buyers, and others for p stock, and other agricultural products in 1985. DO NOT INCLUDE expenses connected with perform ration of nonfarm activities, businesses, or services; or household expenses not related to the farm b	ng custo	omwork for others;	
		None	Dollars	Cents
	Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep,	_	972	[
	lambs, goats, horses, chicks, poults, started pullets, etc.	\$ 973	00	
				!
2.	Feed purchased for livestock and poultry — grain, hay, silage, mixed feeds, concentrates, etc	. 🔲	\$	1 00
	a. Commercially mixed formula feeds purchased — complete, Dollars	Cents		
	supplement, concentrates, premixes. (Exclude ingredients purchased separately, such as soybean meal, cottonseed meal,	İ		
	and urea) \$	QO		
			975	1
3.	Seed cost — for corn, other grains, soybeans, tobacco, cotton, etc. — Include plants and trees purchased		\$	1 00
	octor, otc molado parto ana troco paronasca		976	- 1
4.	Commercial fertilizer purchased — all forms, including rock phosphate			
	and gypsum. Include cost of custom application. (Exclude lime)	. ⊔	977	
5.	Agricultural chemicals purchased — Insecticides, herbicides, fungicides,			<u> </u>
	other pesticides, etc. — Include cost of custom applications	. Ц	\$ 978	00
6.	Gasoline and other petroleum fuel and oil purchased for the farm business —		376	[[
	a. Gasoline and gasohol	. \square	\$	00
	b. Diesel fuel		979	. 00
	D. Dieser fuer	ப	\$ 980	1 00
	c. LP gas, fuel oil, kerosene, natural gas, motor oil, and grease	□	\$	00
_		$\overline{}$	981	1
7.	Electricity for the farm business (Exclude household expenses)	., Ш	\$ 982	00
8.	Hired farm or ranch labor — wages and salaries paid, social security contributions, withholding taxes,		. 00	
	insurance, unemployment compensation, etc. (See Information Sheet)	. Ц	983	1 00
9.	Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables,			
	berries, etc., performed on a contract basis by a contractor, crew leader, a cooperative, etc	Ш	984	1 00
10.	Repairs and maintenance expenses for the upkeep of buildings,			
	motor vehicles, and farm equipment	[_]	\$	1 00
11.	Customwork, machine hire and rental of machinery and equipment — Include expenditures for use o equipment and for customwork such as grinding and mixing feed, plowing, combining, corn picking, drying silo filling, spraying, dusting, fertilizing, etc. (Exclude cost of cotton ginning and application of fertilizer and	1.	985	F
Ì	chemicals.)	🗆	\$	00_
12.	Interest paid on debts for the farm business - (Refer to Information Sheet, section 24)		986	!
	a. Secured by real estate	🗆	\$. 00
	,	_	987	
	b. Not secured by real estate	Ц	\$ 988	00
12	Cash rent paid for land and buildings in 1985		\$	00
3.	vasn rom para 101 lanu anu bunungs III 1303	ப	989	1
14.	Property taxes paid — Include farm real estate, machinery, livestock, etc.			00
	for the farm business. (Exclude taxes paid by landlords)	ب	990	00
15.	All other production expenses — Include insurance, water, animal health costs, grazing fees,			i
	marketing charges, miscellaneous farm supplies, etc. (Exclude depreciation, household expenses, and expenses not associated with the farm business)	🗆	\$	00
Page			<u></u>	-A2 (10-31-85)

SECTION 25	ESTIMATED CURRENT MARKET VALUE OF LAND and BUILDINGS				
S25 Please g	give your best ESTIMATE of the CURRENT MARKET VALUE of land and build acres reported in section 1, items 1, 2, and 3, page1.	ings	Estimated market value of land and buildings		
ioi the a	icres reported in Section 1, items 1, 2, and 3, page 1.	None	Dollars	Cents	
			996		
1. All land	owned	IJ	997	00	
2. All land re	ented or leased FROM OTHERS		\$ 998	00	
	ented or leased TO OTHERS		\$	00	
SECTION 26	INCOME FROM FARM — RELATED SOURCES IN 1985			•	
\$26 ●	Report amount received before taxes and expenses.		Farm-related income		
		None	Dollars	Cents	
			991		
plowing	work and other agricultural services provided for farmers and others — , planting, spraying, harvesting, preparation of products for market, etc. (If work is a separate business, refer to Information Sheet, section 26)		\$	00	
2 . Paymen <i>Commo</i>	ts you received for participation in Government farm programs — (Exclude dity Credit Corporation (CCC) loans)		\$ 993	00	
received	ash rent or share payments received from renting out farmland or payments if from lease or sale of allotments — Include payments for livestock pastured inhead basis, per-month basis, per-pound basis, etc.		\$	00	
4. Sales o stores,	f forest products and Christmas trees — Include maple products, naval firewood, etc		\$	00	
dividend	arm-related income, including recreational services, patronage ds of cooperatives, sales of by-products, and other business or which is CLOSELY RELATED to the agricultural operations on ce —		995		
Canail.	kind		ė	00	
Specify	Kina		\$	00	
SECTION 27	PERSON COMPLETING THIS REPORT — Please print				
Name		999 Da	ate		
Telephone	Area code	N	umber		
FORM 85-A2 (10-31-8		1.	<u> </u>	age 11	



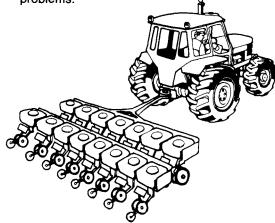
Why a Census?

A national census of agriculture is the only detailed source of information about America's agricultural production. It's a measurement of where farmers and ranchers stand, their farm supply needs, their production costs and cropping systems, and how trends are changing.

Agricultural data are gathered by other groups—but the census of agriculture is the Nation's only comprehensive program for the entire agricultural industry. Census information is sought by land-grant universities in research projects, by those who serve farmer and agribusiness clients, by farm organizations to evaluate and analyze programs, and by lawmakers to help meet the changing needs of America's largest industry.

How Are Census Data Used?

- Farm suppliers of fertilizer, seed, and equipment use census data to meet your needs for products.
- Your farm organization uses census data to evaluate and propose programs and policies that affect you.
- Marketing and distribution facilities are built based on census data to help you market your products.
- New technology is developed for your use by researchers using census data.
- Your elected representatives use census data to develop programs to help solve agricultural problems.



Page 12

Who Plans the Questions?

Representatives of farmers and ranchers work with Census Bureau officials to determine what needs to be asked on the census report form. These representatives are leaders in the agricultural industry representing commodity organizations, States, suppliers of agricultural products, and universities, and include such organizations as:

American Farm Bureau Federation National Cattlemen's Association National Council of Farmer Cooperatives National Farmers Organization National Farmers Union The National Grange Agricultural Publishers Association American Agricultural Economics Association American Feed Industry Association American Meat Institute Association of Research Directors, Inc. Conference of Consumer Organizations Farm and Industrial Equipment Institute National Agri-Marketing Association National Agricultural Chemicals Association National Association of State Departments of Agriculture National Association of State Universities and Land-Grant Colleges National Food Processors Association Rural Sociological Society The Irrigation Association U.S. Department of Agriculture

What Happens to the Data?

Data are published only in tabulated totals—by State and county. No one but sworn Census Bureau employees see individual report forms, under penalty of law. Individual report forms are strictly confidential. Not even the Federal Freedom of Information Act can cause your report data to be made public.



The Census Bureau cannot, by law, provide individual data to other government agencies. No one may have access to your completed form except you.

FORM 85-A2 (10-31-85)

FORM 86-A04	U.S. DEPARTMENT	OF COMMERCE	NOTICE - Re	sponse to this inquiry is req	uired by la		Code) By the same		
(11-21-86)	BUREA	U OF THE CENSUS	THE CENSUS only for statist	BUREAU IS CONFIDÉNTIAL ical purposes. Your report C	. It may b ANNOT b	e seen only by e used for purp	sworn Census emplo oses of taxation, inves	yees and may	be used
	UNITED STA			rovides that copies retained lence pertaining to this re				er (CFN)	
A& CENSUS VSA	OF AGRICUL			<u></u>				86-A	04
×4 0511300 65×				!					
Please complete this form and RETURN TO	BUREAU OF THE CENSU 1201 East Tenth Street Jeffersonville, IN 4713								
Note — If your records are n used. Please complete and re			}						
If you received more than one report form, enter extra Census File Number(s) here									
and return extra copies with your completed report.									
CENSUS 035 036 USE 039 040			0,,,,,			a (surso			
SECTION 1			Please Co.	SECTION 4 CROPS		Code. ENTER:	street and number if n	ot snown.	
1. During 1986, did you grow	any crops or have any livesto ne use or for sale? Examples: gr	ck or poultry o	or other	PART A - CROPS			'HIS PLACE" in 19 d rented to others.)	86.	
greenhouse crops, fruit, veget furbearing animals, fish in capi	ables, cattle, hogs, sheep, poultr tivity, and other animal specialtie	y, goats, horse:	s, bees,	,==,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Acres		Gross v	
or livestock on land rented to d		C- 4- 14-0- 2			None	harvested	Quantity harves	ted "THIS P	
2. Mark (X) the item(s) below the		¥		1. Alfalfa hay	🗆	103	d	ons. 782 ry \$	00
agriculture and skip to section Landlord only — rented	on 10.	perated a farm	or ranch	2. Other hay – Specify kind	_ □	109		782 ons. ry \$	00
others and had no separ or livestock operation.			or rancis.	3. Corn for grain or see	d \square	067	068 B	773 u. \$	00
No longer operating — S	Sold form or			4. Soybeans for beans	🗆	088		775 u. \$	00
ranch or quit farming.	Uther –	Specify		5. Wheat for grain	🗆	073	074 B	774 u. \$	00
Land idle and not used for agriculture production in				6. Tobacco — all types 7. Potatoes, Irish — (Do			-!	781 \$ 785	00
	N 1986 Report land owner or by the partnership, corpo			not include those grow for home use.)	n —	1		wt. \$. 00
which you are LOCATION O	e reporting. Include ALL LAN IR USE — cropland, pasture le land, house lots, etc.	ND, REGARD land, rangela	LESS OF	8. Vegetables for sale (Do not include those grown for home use.)	🗆	375	0	783 \$	00
		[)43	Specify kind	_	Total acres		784	
All land owned All land rented or leased FRO		· · · · · · · -		9. Fruit orchards, citrus vineyards, and nut tr		121 : 1	0	ş	00
by you on shares, used rent t	free, in exchange for services, de leased Federal, State, and ra	lo)44	Specify fruit here		+-+-		bs.	
land. (DO NOT include land u	used on a per-head basis under	a _		10. Other crops —For ad	ditional cro	ops, enter the cro	op name and code from	the list below. I	Report
3. All land rented or leased TO		d on	045	quantity harvested in t part B.)	he unit spe	ecified with crop	name. (Report nursery	and greenhouse Gross v	crops in
4. Acres in "THIS PLAC		em 1)	046	Crop name	Code	Acres harvested	Quantity harves	crops so	old from PLACE''
	denter the result in this space						1	\$	00
If the entry is zero please re	efer to the back of the cover l	etter. ——— None				_	<u> </u>	\$	00
5. Of the land you rented or lea acres did you own?	ised to others, now many	053	Acres	If more space is needed, use	a segarate	sheet of paper.		\$	00
	[County na	me State	Crop name	·	Code	Crop name		Code
In what county was the large products raised or produced	est value of your agricultural [Berries for sate (pounds) - Corn for silage or green chi Cotton (bales)	op (tons, g	reen) 070	Field seeds and grass Oats for grain (bushe Other crops (pounds)	is)	076
SECTION 3 LAND USE a				PART B - NURSE	RY and C	REENHOUS			
PART A — How were the	•	None	Number of acres	•		E" in 1986	Loode for each oron	arown	
1. Cropland harvested — Inc were harvested or hay was o groves, vineyards, and nursi	cut, and all land in orchards, cit		787	From the list below, er	T = T	Square feet	Acres in the open		
2. Cropland on which all cro	. •	iled.)	790	Crop name		under glass or ther protection in 1986	in 1986 Whole acres Tenths	Sales in 1!	986 Cents
3. Cropland used only for pa other pastureland and ra	asture, woodland pastured, ingeland	and	796				/10	2	00
4. All other cropland, woodl	land, house lots, wasteland brough 3 above	, etc.,	799	If more space is needed, use	a separate	sheet of paper.	1 /10	\$	00
PART B — IRRIGATION			Number of acres	Crop name		Code	Crop name		Code
How many acres of harve land from which hay was cut	ested land were irrigated? In: t and land in bearing and nonbe	aring	irrigated 680	Bedding plants (include ve Cut flowers and cut florist Nursery crops — ornamen	greens tals, fruit	485	Potted flowering plan Foliage plants Greenhouse vegetabl	es	707
PENALTY FOR FAILURE TO RI	EPORT	<u></u>	 	and nut trees, and vines			Other - Specify UE ON REVERSE SI		506

CONTINUE ON REVERSE SIDE

Form 86-A04

SECTION 5 LIVESTOCK and POULTRY			• PART E - HORSES, OT	THER LIVESTOCK	(, FISH, and ANIMAL SPECIALTIES
	INV	ENTORY	1	INVENTORY	
PART A — CATTLE and CALVES		per on this Dec. 1, 1986		Number on	Total quantity sold Gross value of sales
	803		None	this place Dec. 1, 1986	in 1986 Dollars 'Cents
			1. Horses and ponies	830	831 832
1. CATTLE and CALVES of all ages	804	Total			Number \$ 00
a. BEEF COWS - Include beef heifers that		Beef	 All other livestock, aquaculture, or 		
had calved	805	cows			
b. MILK COWS kept for production of milk or	1000		from list below.)		
cream for sale or home use — Include dry milk cows and milk heifers that had calved.	\neg \square	Milk	Name Code		Number \$ 00
Think cours and think reners that had curved.		cows			
CATTLE and CALVES SOLD			NameCode		Nomber 19 00
		oss value of sales	Name Code Na Colonies of bees 839 Mu	me iles, burros, donkeys	Code Name Code
contract or custom basis. Also report as sold cattle moved from this place None	in 1986	Dollars Cents	Milk goats 843 Mir	nk and their pelts obits and their pelts .	836 Trout 863
to a feedlot for further feeding.	8 909	i	Other goats 851 Oth	ner livestock and roducts - Specify	Other aquaculture
2. Calves weighing less than 500 pounds	\$. 00	SECTION 6 GOVERNM		
3. Cattle, including calves weighing	0 811				ent CCC loans. Include regular
500 pounds or more	\$, 00	and reserve loans, even if r	edeemed or forfeit	red. None Dollars Cents
PART B — HOGS and PIGS		ENTORY per on this	Specify crop		\$86
	None place D	ec. 1, 1986		eceived for parti	cipation in FEDERAL FARM
4 HOOG 4 PIOC - 4 - 14	815		PROGRAM	S in 1986 (DO N	OT INCLUDE CCC loans.)
1. HOGS and PIGS of all ages	816	Total			None Dollars Cents
a. HOGS and PIGS used or to be used for BREEDING	_	Breeding	1. Amount received in cas		
			2. Value of certificates reci (PIK) or commodity cert		
Ī.	lumber sold Gro	oss value of sales			DE, DIVERTED, or IDLED under
None	in 1986 —	Dollars Cents	FEDERAL a	creage reduction	n programs in 1986
8:		Dollars Cents			None Number of acres
2. HOGS and PIGS SOLD from this place in 1986	\$	00	 How many acres were s ANNUAL commodity ac 	et aside (or diverte reage adjustment	ea) under
·		- :	2. How many acres were u		602
3. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?	\$	¦ 00	RESERVE PROGRAM (1	0 year, CRP)?	. <u></u> Ц
	IVENTORY	NUMBER SOLD		ERISTICS and O	CCUPATION OF OPERATOR
	mber on this Dec. 1, 1986	in 1986	(Oction par	ther or person in	charge,
824	83	25	1. RESIDENCE — Does the place?		
1. SHEEP and LAMBS of all ages			· •		1 ∐Yes 2 ∐No
a. EWES 1 year old or older			PRINCIPAL OCCUPATI occupation did the ope		naiority ⁹²⁸
a. Evico i your old or oldor	188		(50 percent or more) of	his/her worktime	ein – –
2 What was the gross value of sales of None	Gross value of s	Cents	1986? For partnerships of partnership together	onsider all members	
	Dollars 29	Cents			929
place in 1986?		00	3. OFF-FARM WORK — H operator work at least		ff this 1 ' 🗀 Noile
PART D — POULTRY	INVENTORY Number on	Total number	place in 1986? — Include	e work at a nonfarm	_{job,}
	this place	sold in 1986	business, or on someone el include exchange farmwor	se's farm for pay. (D k.)	(s = 50 - 55 days
	ne Dec. 1, 1986_	893			4 □ 100-149 days 5 □ 150-199 days
1. HENS and PULLETS of laying age] [:		6 □ 200 days or more
PULLETS for laying flock replacement a. PULLETS 3 months old or older not yet of	894	895			,
laying age]		4. In what YEAR did the o any part of this place?	perator begin to	operate Dec
b. PULLET CHICKS and PULLETS under 3	896	1			925
months old (Do not include commercial broilers.)] []	5. AGE of operator		Years old
3. BROILERS, fryers, and other meat-type	898	899			924 1 White
chickens including capons and roasters	900	901			² Negro or Black
4. Turkeys for slaughter (Do not include breeders.)	1		6. RACE of operator		
5. OTHER POULTRY raised in captivity — ducks,					₄
geese, pigeons or squab, pheasants, quail, etc. (Enter poultry name and code from the list below.)					9 ☐ Other — Specify,
		1			` ×
Poultry name Code		1			926
Poultry name Code	. L	<u> </u>	7. SEX of operator		L. Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Carlotte and Car
1	de Name	Code	8. SPANISH ORIGIN Is		
Turkey hens kept Geese 9 for breeding 902 Pigeons or squab 9	D8 All other p		origin or descent (Mexic Cuban, or other Spanis		
Ducks 904 Pheasants 9	Gross value of s	914			IS REPORT — Please print
6. What was the gross value of sales of None	Doilars	Cents	Name		999 Date
poultry and poultry products (eggs,		1	Area cod	e Number	
etc.) from this place in 1986?		00	Telephone number	_1	
- 0-m- 00 m07 (11)2 (100)		Pag	e 2		

176 APPENDIX F

1987 Census of Agriculture Report Form 87-A0210

DUE BY FEBRUARY 1, 1988	 	,				4 Approval Expire		
FORM 87-A0210 (9-4-86)	U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	THE CENSUS	esponse to this inquiry is required by law BUREAU IS CONFIDENTIAL. It may be tical purposes. Your report CANNOT be	seen only by:	sworn Censu	is employees	and ma	ay be used
AG CENSUS USA	UNITED STATES CENSUS OF AGRICULTURE	The law also p	rovides that copies retained in your files dence pertaining to this report, pleas	are immune fr	om legal pro r Census Fil	cess.		
form and RETURN TO	SUREAU OF THE CENSUS 201 East Tenth Street	Į.	-		·			
Note — If your records are not a used. If you cannot file by February	effersonville, IN 47133 available, reasonable estimates may be ary 1, a time extension request may be clude your 12-character Census File	ŀ						
	address label in all correspondence to							
report form, enter extra Census File Number(s) here and return extra copies with your completed report.	- 1033							
CENSUS 035 036 036 039 040	037 038	· 						
SECTION 1 ACREAGE IN 19	987 Report land owned, rented, or u		rrect errors in name, address, and ZIP C					
sı by you, your spot organization for v REGARDLESS OF	use, or by the partnership, corporation which you are reporting. Include ALL LF LOCATION OR USE — cropland,	n, or _AND,	INSTRUCTIONS — Please report Use section 7 to report ONLY the and section 8. DO NOT INCLUI	nose CROPS	NOT liste	d in section	s 2 th	rough 6
pastureland, rang	geland, woodland, idle land, house lot 187 changed during the year.	s, etc.	SECTION 2 Were any of the fo		S harveste	d from "THIS	_	
refer to the INFORMATION SE	HEET, section 1. None N	lumber of acres	S2 None	Acres harvested		harvested	ir	Acres rigated
1. All land owned	_	43	1. Wheat for grain	073	074	Bu.	075	
2. All land rented or leased FROM C	OTHERS, including land worked			079	{ ,	OR Bu.	081	
by you on shares, used rent free, payment of taxes, etc. Include le	in exchange for services,	44	2. Barley for grain	076	077	Tons	078	
land. (DO NOT include land used			3. Oats for grain	554	555	Bu.	556	
-	O-	45	4. Dry edible beans (Do not include dry limas.)			Cwt.		
 All land rented or leased TO OTH shares by others and land subleas 	sed. Also complete item 6 below.		5. Lentils	635	636	Lbs.	637	
4. Acres in "THIS PLACE" - and acres rented (item 2), the TO OTHERS (item 3), and ent	en SUBTRACT acres rented	046	include Austrian winter peas and wrinkled seed peas.)	548	549	Lbs.	661 550	-
For this census report these ar	re the acres in ''THIS PLACE.''———		7. Austrian winter peas	067	1068	Lbs.	1 069	
5. If you rented land FROM OTHERS (to the INFORMATION SHEET, section in item 2), enter the following information for e	ach landlord.	8. Corn (field) for grain or seed (Report quantity on a dry shelled-weight basis.).	070	071	OR Bu. Tons	072	
Name of landlord	Mailing address (Include ZIP Code) N	lumber of acres	9. Corn (field) for silage or green chop			Tons, green		
			10. Sugar beets for sugar 🔲 📗	719	720	Tons	721	
			11. Mint for oil	644	645	Pounds of oil	1	
List additional landlords on a separate			12. Potatoes, Irish	097 /10		Cwt.	099	/10
6. If you rented land TO OTHERS (it	tem 3), enter the following information for Mailing address (Include ZIP Code)	each renter. lumber of acres	SECTION 3 Was any DRY HAY or harvested from Include sorghum-	"THIS PLAC sudan crosse	E" in 1987? s and hay co	ut from pastu	res.	
			1 YES — Complete If cuttings were made for both dry h			O — Go to se or areen chop	ection	4
			from the same fields, report the acre HAY and also under GRASS SILAGE	eage in the appr	opriate items	under DRY		
List additional renters on a separate si a. Of the land you rented or lease acres did you own?	ed to others, how many None 053	Acres	DRY HAY (If two or more cutt hay were made from the same ac acres only once, but report total to cuttings.)	res, report	Acres harvested	Quantity harveste (Report either or green weig	d r dry ht as	Acres irrigated
7. Did you have any grazing permits	s on a per-head basis?		Alfalfa and alfalfa mixtures for hay or dehydrating	or	103		Tons.	105
1 Yes – Mark (X) all boxes v	which apply 4 Taylor Grazing	Sec. 3 (BLM)	b. Small grain hay — oats, whe	at,	106	107	Tons,	108
2 No – Go to item 8	∫ ₅ ☐ Indian Land	f <u>y</u>	barley, rye, etc	, timothy,	109	110	Tons,	111
8. LOCATION OF AGRICULTURAL	ACTIVITY FOR "THIS PLACE"		wheatgrass, etc		112	113	Tons,	114
a.in what county was the largest value of your		lumber of acres	d. Wild hay				lons, dry	
agricultural products		56	2. GRASS SILAGE, HAYLAGE, GREEN CHOP IIf two or more were made from the same acres, acres only once, but report total t	cuttings report	115	116	Tons,	117
	ther (0:	58	all cuttings.) 3. HAY SOLD — Did you sell or grass silage in 1987? (Re,	any hay	118		green	
county name(s), etc.	0:	59	of hay sold in section 9, item 2) .		t 🗌 Yes	2 🔲 N	0	

Si				N, MELONS, e Do not include			SECTION	FOI					ER BERRIES harvested lude those grown for
54	☐ YES	- Comple	te this section	n			I	S6 1 [YES	- c	omplete this	s section	
1	□ NO	- Go to se		•			l		⊒ NO		o to section		
				Acres	Acre	es irrigated	From the	liet halow	antar ti	ne cron r	n bne amen	ode. Report quantity h	and the state of
1. Land from whic	h vagatahli	ac word	Whole		Whole	acres Tenths		cified with	crop nam	e			narvesteu
harvested in 1			375	/10	376	/10	Crop	name	Code	-	harvested cres Tenth	Quantity harveste	Acres irrigated Whole acres, Tenths
2. From the list bel If more than one for each crop. R	e vegetable	crop was har	vested from	the same acres	vested in s, report a	1987. scres			-	**11016 2	/10	1	2 /10
	name		·	s harvested	Acre	s irrigated	-				/10	1	2 /10
Peas, green			41	/10	442	/10			 -		1 /10	1	2
Sweet corn		4	61	/10	462	/10	1	ce is needed	i, use a sei	parate she	/10	0	/10
				/10) '	/10	Crop name	•			Code	Crop name	Code
				 /10	1	/10	Blackberrie Blueberries	tame (po	unds)		509 512	Loganberries (pounds) Raspberries (pounds) Strawberries (pounds)	530
				1 /10) 1		Boysenber Cranberries	s (100-lb. t	parrels) .		. 521	Other berries (pounds)) —
				/10	1	/10	Currants (p		_		,		539
				/10) ¹	/10		gra	ins, field	seeds, h	ops, sorghi	ım, sunflower seed, c	CE" in 1987 — small or other crops not
If more space is neede	d, use a sep Cod			Code : Cros	name	Code	i	5/ -		•	•	uit in section 8.)	
Asparagus	379	B Celery		. 401 Pep	ers, hot	445	I				omplete this		
Beans, green lima Beans, snap (bush an Beets	d pole) 38°	1 Eggplant	s and pickles	. 415 , Radi	shes	449 451	1	2 [_) NO	— G	o to section 8	3	
Broccoli	381	5 , Honeydev	melons d romaine	. 423 Spin	ach	457	From the				name and c	ode. Report quantity	harvested
Cantaloups and muskmelons		Mustard o	reens	. 431 Tom	atoes	463		p name			res harveste	ed Quantity harves	ted Acres irrigated
Carrots	39	7 Onions, g	reen	. 435 Wat	ermelons er vegetab	473		•				1	2
		1		Sp	ecify	475							2
				SE CROPS, MI seeds and pla					-	_		1	2
gl	ass or othe	r protection,	GROWN FO	SALE on "TH	IIS PLAC	E" in 1987?			-			1	2
	_	- Comple					ļ	·				1	2
2	∐ NO	- Go to se		ne Square fe	Area irrig	ated cres Tenths	i					1	2
1. Nursery and gre	enhouse c	rops irrigated	_		478		1,	:					
2. From the list bel	ow. enter 1	the crop name	and code for	each crop gro	wn.		Field seeds				Code	Other crops	Code
		Square fe	n+	in the open			Alfalfa see Alsike clov	d (pounds)			542	Corn cut for dry fodde	
Crop name	Code	under glass other protect	or in	1987	Sale	s in 1987	Bentgrass : Bromegras	seed (poun	ds)		. 560 ,	Dill for oil (pounds) .	
		in 1987	Whole a	cres Tenths	Dolla	rs Cents	 Fescue see 	d (pounds)	ľ <i>.</i>		. 602 ^l	Hops (pounds)	s) 614 623
			1,	/10 \$		00	Kentucky b Orchardgra	iss seed (p	ounds) .		653	Popcorn (pounds, shell	s) 650 lled) 662
		<u> </u>		/10 \$		00	Red clover Ryegrass s Timothy se	eed (poun	ds)		689	Rapeseed (pounds) . Rye for grain (bushels	:) 686
	1			/10 \$		00	Vetch seed Wheatgras	(pounds)			. 755 .	Sunflower seed (pour	nds)
If more space is neede Crop name	d, use a sep	arate sheet of p Co	•	ame		Code	White clov	er seed (po	ounds)		. 761 i	Sorghum for silage or	green chop
Bedding plants (Incli Bulbs (Exclude bulb		ole plants) 47	9 Potted	flowering plan			1	seeds (por	unus) – 0	pecity	. ,,,	crosses) (tons, green	oushels) 085
Cut flowers and cut Nursery crops — orr	florist gree namentals,	ens 48 fruit	5 Sod h j Vegeta	arvested able and flower		497					1	Sugar beets for seed (pounds) 716 pounds) 740
and nut trees, and Foliage plants	vines	<i></i> 48	8 Greent 7 Other	ouse vegetable Specify	es	503	l				1	Triticale (bushels)	
SECTION 8 W	as there a	combined tot	of 20 or m	ore FRUIT TRE	ES, inclu	iding GRAPE\	INES and N	UT TREES	, on "TH	IS PLAC	E" in 1987		
S8 1	☐ YES	Comple	te this sectio	n									
		- Go to se				Total acre		cres irriga					
1. TOTAL ACRES					i, 12		enths Whol	e acres T	enths				
and nut trees or					<u></u>	<u> </u>	/10	i_	_/10				
2. For those crops Report the requi										in 1987.			
			BER OF	Acres i	n trees			t of measu	re				
Crop name	Code		VINES OF	and vi	nes of	Quant	τγ	Mark one	Lbs.	1			
,		Nonbearing age	Bearing age	Whole acre	-	harves	Lbs.	Tons Box			Crop nam	•	Code
Apples	123		124	125	/10	126	127	2 3 2	128	1	Apricots		129
Sweet cherries	345		346	347	/10	348	349	2 3 3	350	1	Filberts ar	nd hazelnuts	327
			588	589	1	590	591	T _ T _	592	1	Peaches	d prunes	225
Tart cherries	587	-	232	233	/10	234	235	2 🗆 3 L	236	1	Walnuts,	English	357
Pears	231		1	2	/10	3	1 🗆	2 3 5	15	1			
	\dashv		1	2	/10	3	1 🗆	2 3 2	. 5	-			
H mare annex in and	ed upo s ==	nesta shoct -/	*nar		j /10		1 🗆	2 3	<u> </u>	J			
If more space is needs FORM 87-A0210 (9-4-86)	u, use a sep	arate sneet of p	aper.										

Page 2

SECTION 9 GROSS VALUE of CROPS SOLD from "THIS PLACE" in 1987, BEFORE Sa taxes and expenses (Refer to the INFORMATION SHEET, section 9.)	E	SECTION 13 Did you or anyone else have any CATTLE or CALVES on this place in 1987?
Report your best estimate of the value for each of the following groups of crops s	sold	1 YES — Complete this section
from this place in 1987. Include the value of the landlord's and/or contractor's she estimating if necessary. Include value of Government CCC loans.	hare,	2 NO — Go to section 14 INVENTORY Number on this
1 Crains and start base and in 1997 None Dollars (Cents	DECEMBER 31, 1987 INVENTORY None place Dec. 31, 1987 so3
a. Corn for grain	00	1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)
b. Wheat	00	a . BEEF COWS - Include beef heifers that
c. Soybeans	00	had calved
d. Sorghum for grain	00	cream for sale or home use — Include dry milk cows and milk heifers that had calved
e. Barley	00	806 Heifers and
f. Oats	00	c.HEIFERS AND HEIFER CALVES — (Do not include heifer calves
g. Other — rye, dry beans, dry peas, lentils, mustard seed, sunflower seed, etc	00	d.STEERS, STEER CALVES, BULLS, AND BULL CALVES
2. Hay, silage, field seeds, and grass seeds	00	CATTLE AND CALVES SOLD
3. Vegetables, sweet corn, and melons— (Do not include lish potatoes and sweetpotatoes, report them in item 5 below.)	00	FROM THIS PLACE IN 1987 Include those fed on this place on a Number sold Gross value of sales
784		contract or custom basis. Also report as sold cattle moved from this place None in 1987 Dollars ICents
4. Fruits, nuts, and berries — apples, cherries, pears, grapes, filberts, strawberries, etc.	00	to a feedlot for further feeding.
5. Other crops — sugar beets, mint for oil, hops, potatoes,		3. Cattle, including calves weighing
etc. (Do not include nursery and greenhouse crops.) – Specify	00	500 pounds or more
SECTION 10 How were the ACRES in this place USED in 1987?	"	a · Of the total cattle sold, how many were FATTENED on this place on GRAIN or 812 813
\$10	.]	CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?
Copy acres in "THIS PLACE" from section 1, item 4, page 1 Acre NOTE: For items 2 to 5 below, if land was used for more than one purpose in 1987 report it in the FIRST land use listed below that applies. For example, report cropland	:S	DAIRY PRODUCTS
harvested and also pastured, only as "Cropland harvested." 2. CROPLAND None Number of a	cres	THIS PLACE IN 1987 None Dollars Cents
a. Cropland harvested — Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nusery and greenhouse crops.		4. Gross value of sales of DAIRY PRODUCTS from this place in 1987 — Include milk, cream, butter, etc
b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without additional improvements.	1	SECTION 14 Did you or anyone else have any HOGS or PIGS on this place in 1987?
c. Cropland used for cover crops, legumes, and soil-	\dashv	1 YES — Complete this section INVENTORY 2 NO — Go to section 15 Number on this
improvement grasses, but NOT harvested and NOT pastured		None place Dec. 31, 1987
d. Cropland on which all crops failed — (Exception: Do not report here land in orchards and vineyards on which the crop		DECEMBER 31, 1987 INVENTORY 1. HOGS and PIGS of all ages (Total of a and b below)
failed. Such acreage is to be reported in item 2a.)	-	a. HOGS and PIGS used or to be used for BREEDING Breeding
e. Cropland in cultivated summer fallow		b. OTHER HOGS and PIGS
f. Cropland idle		LITTERS FARROWED
woodlots and timber tracts and cutover and deforested land	\dashv	2. LITTERS FARROWED on this place between — None Number of litters
with young timber growth. 4. Other pastureland and rangeland — Include any pastureland		a. December 1, 1986 and May 31, 1987
other than cropland and woodland pasture		b. June 1, 1987 and November 30, 1987
5. All other land — Land in house lots, ponds, roads, wasteland, etc. — Include any land not reported in items 2 through 4 above		● HOGS AND PIGS SOLD None in 1987 Cents Number sold Gross value of sales Number sold Dollars Cents
6. TOTAL ACRES — Add the acres reported in items 2 through 5 (Should be the same as item 1 above.)		3. HOGS and PIGS SOLD from this
SECTION 11 Was any LAND in this place IRRIGATED at any time in 1987?		place in 1987
Irrigated land is all land watered by any artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, etc. Include supplemental, partial, and preplant irrigation.		4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding? \$ 00
1 YES - Complete this section Number of a		SECTION 15 Did you or anyone else have any SHEEP or LAMBS on this place in 1987?
2 UNO — Go to section 12 None irrigated	d	1 YES — Complete this section 2 NO — Go to section 16
1. How many acres of harvested land were irrigated? Include land from which hay was cut and land in bearing and nonbearing fruit and nut crops reported in section 10, item 2a		INVENTORY NUMBER SOLD
2. How many acres of pastureland, rangeland, and any other lands not included in item 1 above were irrigated?		None place Dec. 31, 1987 in 1987
SECTION 12 Were any ACRES in this place SET ASIDE, DIVERTED, OR IDLED under FEDERAL acreage reduction programs in 1987?		1. SHEEP and LAMBS of all ages
1 YES — Complete this section		Number shorn Pounds of wool
2 NO — Go to section 13 None Number of a	estor	None in 1987 shorn in 1987
1. How many acres were set aside (or diverted) under ANNUAL	.5100	2. SHEEP and LAMBS SHORN
commodity acreage adjustment programs?		Gross value of sales None Dollars Cents 829 829
2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)?		3. What was the gross value of sales of SHEEP, LAMBS, and WOOL from this place in 1987?

Form 87-A0210

	ne else have any H OCK, or ANIMAL S					
S16	Complete this sec		_	•	to section	17
. —	INVENTORY Number on	Total qua	antity sold	Gross	value of	sales
None	this place		987	Do	ollars	Cents
1. Horses and ponies of all ages	830	831	Number	832 \$. 00
	839	840	Number	842	-	
2. Colonies of bees	1	841	Pounds	\$		00
2. Coloines of bees	843	844	honey	846		!
_	843	845	Number Gellons	(s		00
3. Milk goats		848	milk	*		! 00
	847	849	Number	850		
4. Angora goats	851	852	Pounds mohair	\$ 853		00
5. Other goats	001	852				00
6. Mules, burros, and	833	834	Number	835		
donkeys	836	837		\$ 838		00
7.Mink and their pelts		"	Number			00
8.Rabbits and their	854	855	. 20,11061	856		!
pelts		 -	Number	\$		00
livestock products	857	858		859		!
Specify			Number			00
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SECTION 18 GOVERNMENT CCC LOANS		· · ·	
\$18			
Amount received in 1987 from Government CCC loans for — Include regular and reserve loans, even if redeemed or forfeited.	None	Dollars 886	Cents
a.Corn		\$ 887	00
b. Wheat		\$ 888	00
c.Soybeans		\$	00
d. Sorghum, barley, and oats		\$	00
e. Rye and honey		\$ \$	00
SECTION 19 Payments received for participation in FED in 1987 (DO NOT INCLUDE CCC loans.) Re			
SHEET, section 19.	None		Cents
1. Amount received in cash		684	00
2. Value of certificates received - payment-in-kind (PIK)		685	
or commodity certificates	<u>لا .</u>	\$	00
S20			
Mark (X) the one item which best describes the type of this place in 1987. Refer to the INFORMATION SHEET, sect		ration for	
• FAMILY or INDIVIDUAL operation —	921		
(Do not include partnership and corporation.) PARTNERSHIP operation — Include family	. 1	Go to sectio	n 22
partnerships. • INCORPORATED UNDER STATE LAW	. 2	☐ Go to sectio	n 21
OTHER, such as estate or trust, prison farm, grazing	. 3	_	
association, Indian reservation, etc.	. 4	Specify belo	w then n 22
Specify			
SECTION 21 CORPORATE STRUCTURE (for incorporate Refer to the INFORMATION SHEET, section 21.	d oper	ations only)	
\$21	922		
1. Is this a family-held corporation?	. 1	∐ Yes 2 ∐	No
2. Are there more than 10 stockholders?	. 3	☐ Yes ₄☐	No
SECTION 22 CHARACTERISTICS AND OCCUPATION OF person in charge) Refer to the INFORMATIO			iner
1. RESIDENCE — Does the operator (senior partner or person in charge) live on this place?	923	Yes 2	No
2. PRINCIPAL OCCUPATION — At which occupation			
did the operator spend the majority (50 percent or more) of his/her worktime in 1987? For partnerships consider all members of the partnership together	928	☐ Farming 2 ☐	Other
	929	or ranching	
3. OFF- FARM WORK — How many days did the operator (senior partner or person in charge) work at least		_ None _ 1−49 days	
4 hours per day off this place in 1987? — Include work at a nonfarm job, business, or on someone else's farm for) 3	☐ 50-99 days	
pay. (Do not include exchange farmwork.)	` \ ^	100-149 day	/S
	5	☐ 150 – 199 day ☐ 200 days or n	
4. In what YEAR did the operator (or senior partner) begin to operate any part of this place?	080	Year	
	925		
5. AGE of operator (senior partner or person in charge)		Years	old
	1	White	
	2	Negro or Black	K an
6. RACE of operator (senior partner or person in charge) .	. \ 4	American Indi Asian or Pacif Islander	ic
		Islander Other - Spec	
	Ι,		.,5
7. SEX of operator (senior partner or person in charge)	926	☐ Maie 2 ☐	Female
•	. 1		. 5111016
 SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent (Mexican, Puerto Rican, Cuban, or other Spanish)? 	927 . 1	Yes 2	No
FORM 87-A0210 (9-4-86) Page 5			

PRODUCTION EXPENSES paid by you and other place in 1987	rs for 1	this		SECTION 25 Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATICIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1987?	
			1	1 YES - Complete this section 2 NO - Go to section 26	
in 1987. (DO NOT INCLUDE expenses connected with performing others; operation of nonfarm activities, businesses, or services; or expenses not related to the farm business.)	a cust	omwork for		Include any materials provided by you, your landlords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report acreage	
1. Livestock and poultry purchased — cattle, calves,			ents	4 Carry dust Acres on which	
hogs, pigs, sheep, lambs, goats, horses, chicks, poults,	$\neg \bot$	1	00	herbicide, insecticide, nematicide) to control -	
2. Feed purchased for livestock and poultry — grain,	L		•	027	
hay, silage, mixed feeds, concentrates, etc		\$ I	00	· · · · · · · · · · · · · · · · · · ·	
a. Commercially mixed formula feeds purchased — complete, supplement, concentrates, premixes.				smuts, rusts, etc.)	
	ents			d. weeds, grass, or brush in crops and pasture —	
soybean meal, cottonseed	00			2. Chemicals for defoliation or for growth control	
3. Seed cost — for corn, other grains, soybeans, tobacco,	_ ا	1			
cotton, etc. — include plants and trees purchased			00	_{S26} Include only equipment used for agricultural operations in 1986 or 1987.	
Commercial fertilizer purchased — all forms, including rock phosphate and gypsum. Include cost of custom applications.		; \$;	00	Value of ALL machinery and equipment on this place, December 31, 1987	
5. Agricultural chemicals purchased — Insecticides,	1	976		1. What is the estimated market value of ALL machinery, Estimated market value	
herbicides, fungicides, other pesticides, etc. — Include cost of custom applications. (Do not include lime.)		\$	00	and used for the farm or ranch business? — Include cars, Dollars Cents	
Gasoline and other petroleum fuel and oil purchased for the farm business —	sercial fertilizer purchased — all including rock phosphate and gypsum. 2005 of custom applications				
a.Gasoline and gasohol	10 Not The process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process				
b. Diesel fuel	Secure of the farm business —				
c. Natural gas	□ :	\$	00	Only if seed in 1986 or 1987 Insport December 31, 1987 tured in the last 5 years	
d-LP gas, fuel oil, kerosene, motor oil, grease, etc			00	944 945	
7. Electricity for the farm business — (Do not	_ [981		3. Wheel tractors other than garden tractors	
d .	╜╠	\$	00		
for social security, workman's compensation, insurance	_	982	1	b. 40 horsepower (PTO) or more	
	╵╏	\$ -	00	4. Grain and bean combines, all types	
as harvesting of fruit, vegetables, berries, etc.,	_	983 I	I	5. Cotton pickers and strippers	
leader, a cooperative, etc.		\$	00	7. Pickup balers - Include rectangle	
10. Repair and maintenance expenses for the upkeep of buildings, motor vehicles, and farm	_	984	ı		
equipment	ا ك	\$	00		
11. Customwork, machine hire and rental of machinery and equipment — Include expenditures for		į.		1.0000 3.00 700.000.000.000.000.000.000.000.000.	
use of equipment and for customwork such as grinding and mixing feed, plowing, combining, corn picking.		1		VALUE Of land and Doublings for all acres reported in	
not include cost of cotton ginning and application of	$_{-}$ $ $	i	<u> </u>		
12. Interest paid on debts — (See INFORMATION SHEET)			00		
a. Secured by real estate		107	00		
b. Not secured by real estate	$\neg \bot$	1	00		
13. Cash rent paid for land and buildings in 1987—	_	988			
(Do not include grazing fees.)	_ h		00	528	
14. Property taxes paid — Include farm real estate, machinery, livestock, etc. for the farm business. (Do not include	$\neg \bot$	1		11 Caprolition and other agreement of those big ridge in 14019	
taxes paid by landfords.)	┙┞	ş <u>'</u> :	00	harvesting, preparation of products for market, etc. 992	
15. All other production expenses — Include insurance, water, animal health costs, grazing fees, marketing charges,		į		SHEET, section 28)	
miscellaneous farm supplies, etc. (Do not include depreciation, household expenses, and expenses not associated with the	l	90	<u> </u>	2. Gross cash rent or share payments received from renting out farmland or payments received from lease or sale of	
farm business.)	L I		00	allotments — Include payments for livestock pastured on a per-head basis, per-month basis, per-pound basis, etc	
SECTION 24 Was any COMMERCIAL FERTILIZER, including I LIME used on this place during 1987?	HUCK	rnusphaie, o	"	3. Sales of forest products and Christmas trees — Include	
		Go to section 25]	maple products, naval stores, firewood, etc	
1 Acres of cropland facilized in 1997	No	ne Acres fertiliz 932	zed	and other income which is CLOSELY RELATED to the agricultural operation on this place –	
Acres of cropland fertilized in 1987— (Do not include cropland for pastures reported in section 10, item 2b.)] [Specify \$ 00	
2. Acres of pastureland and rangeland fertilized in 1987 reported in section 10, items 2b and 4	. \square	933		SECTION 29 PERSON COMPLETING THIS REPORT —Please print	
None Tops of		Acres lime	ď	Name 999 Date	
3. LIME — tons of lime used and acres on which applied — (Do not include land plaster or		935	7	Area Code Number	
gypsum or lime for sanitation.)				Telephone number -	

FORM 87-A01(i)

INFORMATION SHEET

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

1. Who Should Report

WE NEED A REPLY FROM EVERYONE RECEIVING A REPORT FORM, INCLUDING individuals, landlords, tenants, partnerships, corporations, institutions, and THOSE NOT CONDUCTING AGRICULTURAL OPERATIONS. Each case included in the census has a unique Census File Number (CFN). In order to make the census results as complete and accurate as possible, we need to obtain information about every CFN.

2. If You Received More Than One Report Form for an Operation

Complete only ONE report form for an operation. Write "Duplicate" near the address label of each extra report form. Also, write the 11-digit census file number(s) of the DUPLICATE report(s) ON THE COMPLETED REPORT in the space provided to the left of the address label. Return the extra report(s) in the same envelope with your completed report form so that we can correct our records.

3. If You No Longer Farm

If you had agricultural operations at any time during 1987, please report all agricultural activity during the year. Report all land on your census form that you owned or rented. Also, report your 1987 crop and livestock production and 1987 sales.

Explain on the first page of the report form (or on a separate sheet of paper) that you quit farming or ranching and give the approximate date and the name and address of the present operator, if known.

4. If You Never Farmed or Have No Association With Agriculture

Please write a note on the report form near the address label explaining this and return the form so that we can correct our records. In our efforts to make the census as complete as possible, we obtained lists from various sources. We tried to eliminate duplicate and nonfarm addresses, however, it was not always possible to do so.

5. If You Have More Than One Agricultural Operation

Complete a report form for EACH SEPARATE and DISTINCT production unit, i.e., each individual farm, ranch, feedlot, greenhouse, etc., or combination of farms, etc., for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production.

6. If You Have a Partnership Operation

Complete only ONE report for the entire partnership's agricultural operation and include all partners' shares on the one report. If members of the partnership also operate separate farms or ranches in addition to the partnership farming operation, separate report forms should be completed for each individual operation.

If two or more report forms were received for the same operation, mark each additional form as a "Duplicate." Return the duplicate report(s) in each additional form as a "Duplicate." Heturn the duplicate report(s) the same envelope with the completed partnership report, where possible, or write a note on the duplicate report, such as, "(Name of partner) has completed a report for the partnership (provide name and CFN of partnership.)"

7. Landlord's or Contractor's Share

If you rented or leased land from others or had a contract for the production of agricultural products, include both your share and the landlord's or contractor's share of the production, sales, and expenses so your census report form will be complete for "THIS PLACE.

If you do not know the landlord's or contractor's share, include your BEST ESTIMATE. If you do not have records available for all data items, use your best estimate.

How to Enter Your Response

Enter your replies in the proper spaces, on the correct lines, and in the units requested, i.e., dollars, bushels, tons, etc. Write any explanation outside the answer spaces or on a separate sheet of paper.

All dollar figures may be entered in whole dollars. CENTS ARE NOT

Enter whole numbers except where tenths are requested, such as acres of potatoes harvested. If you have 1/2, 1/3, or 1/4 of an acre, convert to tenths. For example, convert 1/2 to 5/10, 1/3 to 3/10, 1/4 to 2/10.

The census report form will contain sections and questions which do not apply to you. When this occurs, mark the "None" or "No" box and go on to the next item or section.

Instructions For Specified Sections

➤ Section 1 — ACREAGE IN 1987

Your answers to this section will determine the land (Acres in "THIS PLACE") referred to in the rest of the report form.

When answering the acreage guestions, include the land associated with your agricultural operations in 1987 whether in production or not. Include all land that you owned or rented during 1987 even if only for part of the year. Do not include any unrelated residential or commercial land

IF YOU QUIT FARMING DURING 1987 - Complete the report form for the portion of the year that you did farm. Explain on the report form in the space to the left of the address label (or on another sheet of paper) when you stopped farming and include the name and address of the person now using the land.

Report all land in section 1 in whole acres.

Item 1 - All Land Owned - Report all land owned in 1987 whether held under title, purchase contract or mortgage, homestead law, or as heir or trustee of an undivided estate. Include all land owned by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

Item 2 — All Land Rented or Leased FROM OTHERS -

Report all land rented by you or your operation even though the landlord may have supplied materials or supervision.

INCLUDE in item 2:

- a. Land for agricultural use that you rented from others for cash
- b. Land you worked on a share basis (crop or livestock)
- c. Land owned by someone else that you used rent-free
- d. Federal, State, Indian reservation, or railroad land rented or leased by the acre

DO NOT INCLUDE in item 2:

Land used on a per-head or animal unit license or permit basis, such as section 3 of the Taylor Grazing Act, National Forest, or Indian reservation permit land. If you had any of these permits, mark "yes" to item 7.

Item 3 — All Land Rented or Leased TO OTHERS — Include all land rented out for any purpose if it was part of the acreage reported in items 1 and 2. A report form will be obtained from each of your tenants to cover the operations on that land.

INCLUDE in item 3:

- a. Owned land rented to others for cash or a share of crops or livestock
- b. Land you rented from someone and then subleased to someone else
- c. Land worked for you by someone for a share of crops or
- d. Land which you allowed others to use rent-free

Item 4 — Acres in "THIS PLACE" — This figure will show the total of all land you operated at any time in 1987.

If item 4, Acres in "THIS PLACE" is "0" and:

- a. You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. All your land was operated by a renter or sharecropper complete item 6 (name and address of renters), skip to and complete section 29, and explain briefly, "all land rented out," etc. Mail form in return envelope.
- c. You did not have any agricultural activity on owned or rented land in 1987, complete section 29 and explain briefly, such as "retired," "sold farm," and date. Give name and address of current operator if known and return form.

► Sections 2 through 8 - CROPS

Sections 2 through 8 provide space for reporting crops harvested during the 1987 crop year from the land shown in section 1, item 4 (Acres in "THIS PLACE") of your report. Please report your crops in the appropriate sections. Do NOT include any crops grown on land rented or leased TO OTHERS, or worked by others on shares during 1987.

Acres harvested - Enter the acres harvested in 1987. Round fractions to whole acres except where tenths are requested by "/10" in the reporting box, such as for potatoes.

Quantity harvested - If your unit of measure is different than the unit on the report form, please convert your figure for the quantity harvested to the unit requested. If the harvest was incomplete by December 31, 1987, please report the quantity harvested and estimated quantity to be harvested.

Acres irrigated - For each crop irrigated, report number of acres irrigated. Irrigation is defined as land watered by artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, purposeful flooding, etc. Include acres that received supplemental, partial, and/or preplant irrigation. Do not report water applied in transplanting tobacco plants, trees, or vegetables as irrigation. Leave "Acres irrigated" blank for crops that are not irrigated.

How to Report Crops Harvested

- ▶ Sections 2 and 3 Report only for the listed crops.
- Sections 4 through 8 To report: (1) find the crop name and the code number from the list in the section; (2) enter crop name and code in the first two columns of the first available answer line in the section; (3) enter the information that is requested in the remaining columns. If you harvested a crop not listed in sections 4 through 8, use the "Other" code in the appropriate section and specify the crop name.

Double Cropping — If two or more crops were harvested from the same land (double cropping) report the total acres and production of each harvested crop in the appropriate section(s) of the report form.

Example: In 1987 you harvested 1,230 bushels of wheat from 40 acres, then on the same 40 acres planted soybeans, from which you harvested 1,550 bushels. You irrigated the soybeans but not the wheat.

		f the followi CE'' in 198	ing CROPS harve 7?	sted from
	None	Acres harvested	Quantity harvested	Acres irrigated
1. Cotton	🗆	091	092 Bales	093
2. Soybeans for bea	ins 🗌	⁰⁸⁸ 40	⁰⁸⁹ /, 550 Bu.	090 40
3. Wheat for grain.	🗆	⁰⁷³ 40	074 /, 230 Bu.	075
4. Oats for grain	🗀	076	077 Bu.	078

Interplanted Crops — If two crops were grown at the same time in alternating strips in the same field, report the portion of the field used for each crop.

Example: A 60 acre field was planted in cotton and soybeans, with two rows of cotton followed by an area of the same width planted in soybeans. No irrigation was used. Thirty acres of soybeans and 30 acres of cotton would be reported in the appropriate section(s).

Skip Row Planting - If a crop is planted in an alternating pattern of planted and non-planted rows, such as two rows planted and two rows skipped (2 X 2), report the portion of the field occupied by the crop in the appropriate section for that crop, and report the skipped portion as "Cropland idle" in section 10, item 2f.

➤ Section 4 — VEGETABLES — Report acres of vegetables harvested FOR SALE or commercial processing. Do not include vegetables grown for home use. Report the total acreage of each vegetable crop harvested.

Example: In 1987 you harvested 10 acres of lettuce from a field, then replanted the field in lettuce and harvested the 10 acres again. Both crops of lettuce were irrigated. Enter only 10 acres of land from which vegetables were harvested and 10 acres irrigated in item 1 of section 4, but write in 20 acres of lettuce harvested and 20 acres of lettuce irrigated in item 2 of section 4.

➤ Section 8 — FRUITS and NUTS — In counting the combined total of 20 or more trees and vines, include those for home use as well as those maintained for sale of the production. Acres in trees or vines that have been abandoned should not be included; these acres should be included in section 10, item 2f "Cropland idle."

If crops other than fruit and nut trees and vines were interplanted with trees or vines, report the total acres for the orchard crop in section 8 and the total acres of the interplanted crop in the appropriate section.

▶ Section 9 — GROSS VALUE OF CROPS SOLD

Report the value of all crops sold from "THIS PLACE" in 1987, regardless of the year they were harvested or who owned the land. Be sure to report gross values before deducting expenses and taxes. Include Government CCC loans received for "THIS PLACE" in 1987. Include payments received in 1987 from cooperatives or marketing organizations for crops produced on "THIS PLACE" regardless of the year in which the crops were harvested.

Also include as sales, your estimate of the value of any crop removed from "THIS PLACE" in trade for services, such as hay cut in exchange for fence repair, clearing, or other services. If the sale price or market value is not known, give your best estimate of the crop's market value when removed from "THIS PLACE."

DO NOT INCLUDE crops or crop products purchased from others and later sold.

FORM 87-A01(I) (12-17-86)

▶ Section 10 - USE OF ACRES IN "THIS PLACE"

This section is used to classify the acres in "THIS PLACE" reported in section 1, item 4. (Do not include any acres you rented to others reported in section 1, item 3). The sum of the acres entered in various categories should equal total acres in "THIS PLACE."

Land Used for More Than One Purpose — Do not report the same acreage for more than one of the listed purposes. If part same acreage for more than one or the issee purposes. If part or all of your land was used for more than one listed purpose in 1987, report that land only in the first category listed. For example, if you plowed under a cover crop, and planted and harvested a grain crop, report the land in item 2a, "Cropland harvested," but do NOT report as "Cropland used for cover crops, legumes, etc." (item 2c).

Double Cropping — When more than one crop was harvested from the same land in 1987, report that land only ONCE as "Cropland harvested," in item 2a.

Interplanted Crops - If you interplanted crops, such as cotton in an orchard, report the total land used for both crops only ONCE, as "Cropland harvested." in item 2a.

Skip Row Planted Crops — Report the acres that represent the total nonplanted or skipped rows as "Cropland idle," item 2f. The acres that represent the planted rows should be reported as "Cropland harvested," in item 2a.

► Section 12 — ACRES SET ASIDE, DIVERTED, OR IDLED UNDER FEDERAL ACREAGE REDUCTION PROGRAMS IN 1987

Include in item 2 all acres in "THIS PLACE" retired from production and placed, by long-term contract, into the Conservation Reserve Program. Acres placed into the program during and prior to 1987 should be included.

➤ Sections 13 through 17 —LIVESTOCK, POULTRY, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 1, item 4) on December 31, 1987. Include all owned by you and any kept by you for others. Include animals on unfenced lands, National Forest land, district land, cooperative grazing association land, or rangeland administered by the Bureau of Land Management on a per-head or lease basis. Animals in transit on December 31, 1987, or animals on a short-term pasture (such as wheat pasture or crop residue) on a per-head or lease basis should be reported by the person who had control of the animals.

Animals and Poultry to Exclude from the Report - Do not report animals or poultry kept on land rented to others or kept under a share arrangement on land rented to others. Do not include animals quartered in feedlots which are not a part of "this place." Animals kept on a place not operated by you are to be included on the report for that place.

Animals Bought and Sold — DO NOT REPORT ANY ANIMALS BOUGHT AND THEN RESOLD WITHIN 30 DAYS. Such purchases and sales are considered "dealer" transactions, and are not included in this census.

Number Sold — Report all animals and poultry sold or removed from "this place" in 1987, without regard to ownership or who shared in the receipts. Include animals sold for a landlord or given to a landlord or others in trade or in payment for goods or services. Do NOT report number sold for any livestock or poultry kept on another place.

Dairy Termination Program or "Whole-Herd Dairy Buy-Out Program" — The amount received in 1987 from the Government under the dairy termination program should be included in section 19, item 1. Dairy animals and products sold in 1987 should be reported in section 13.

Animals Moved to Another Place — For animals moved from "this place" to another place, such as for further feeding, report animals as "sold" and give your best estimate of their market value when they left "this place."

Fat Cattle Sold - Cattle fattened on grain or concentrates for 30 days or more and sold for slaughter are reported in section 13, item 3a.

DO NOT INCLUDE WITH FATTENED CATTLE SOLD:

- a. Cattle and calves sold for further feeding
- b. Veal calves, or any calves weighing less than 500 pounds
- c. Dairy cows fed only the usual dairy ration before being sold

Page 2

Form 87-A01(I)

Value of Sales — Report the total gross value of animals and poultry sold or removed from "this place" in 1987 without deducting production or marketing expenses (cost of feed, cost of livestock purchased, cost of hauling and selling, etc.). If the sale price or market value is not known, give your best estimate of their market value when they left "this place." Do NOT report the value of sales of any livestock and poultry owned by you but kept and sold from a place you did not operate.

Contract and Custom Feeding Operations — Livestock or poultry kept by you on "this place" on a contract or custom basis should be included on this report REGARDLESS OF OWNERSHIP. Report as "INVENTORY" numbers of animals or poultry on the place on "INVENTORY" numbers of animals or poultry on the place on December 31, 1987. Report as "SOLD" animals and poultry kept on a contract or custom basis and removed or sold from the place in 1987. If the sale price or market value is not known, give your best estimate of the market value of the animals or poultry when they left the place.

▶ Section 16 — HORSES, BEES, FISH, GOATS, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES

Item 2 - If you owned BEES - Report all colonies or hives of bees and honey operations conducted by you, regardless of where the hives were kept most of the year. Report hives or colonies, pounds of honey sold, and value of sales.

Items 7 and 8 - Mink pelts and rabbit pelts should be included in number sold and value of sales, but not in inventory.

Item 9 - Other Livestock and Livestock Products - Include in all other livestock and livestock products manure, beeswax, and any other animal products sold from "this place" in 1987. Please indicate units used in reporting.

Item 10 — Fish and Other Aquaculture Products — Report number of pounds sold and gross value of sales for each. Enter name and code from list.

▶ Section 17 — POULTRY

The person who furnished the housing and labor should report the poultry operation on his/her report form regardless of who owns the birds. Report as sold poultry that were taken or moved from the place

► Section 18 — AMOUNT RECEIVED FROM GOVERNMENT **CCC LOANS**

Item 1 — Report the amount received under the regular or reserve program for commodities placed under CCC loan during 1987. Include amount received even if commodity was redeemed or forfeited prior to December 31, 1987.

Do not include CCC loans received to build crop storage facilities or amount received for storage payments in the reserve program.

▶ Section 19 — FEDERAL PAYMENTS RECEIVED

Report all payments received from Federal Farm Programs in 1987 regardless of whether payment was made in cash or commodity certificates. Include cash payments in item 1. In item 2, include the value of any certificates held or the value received from sale or redemption of any certificates in 1987.

Federal payments include receipts from Federal programs such as deficiency payments, "Whole-herd dairy buy-out," support price payments, indemnity programs, disaster payments, paid land diversion, inventory reduction payments, payments received for approved soil and water conservation projects, etc.

► Section 20 — TYPE OF ORGANIZATION

Use the following definitions to determine the type of organization for your operation:

Family or Individual Operation — Defined as farm or business organization controlled and operated by an individual (sole proprietor). Include family operations that are not incorporated and not operated under a partnership agreement.

Partnership Operation — Defined as two or more persons who have agreed on the amount of their contribution (capital and effort) and the distribution of profits. Co-ownership of land by husband and wife or joint filing of income tax forms by husband and wife DOES NOT constitute a partnership, unless a specific agreement to share contributions, decisionmaking, profits, and liabilities exists. Production under contract or under a share rental agreement DOES NOT constitute a partnership.

Incorporated Under State Law — A corporation is defined as a legal entity or artificial person created under the laws of a State to carry on a business. This definition does not include cooperatives. Information on type of corporation should be reported in section 21

Other - Such as cooperatives (defined as an incorporated or unincorporated enterprise or an association created and formed jointly by the members), estate or trust (defined as a fund of money or property administered for the benefit of another individual or organization), prison farm, grazing association, Indian reservation, institution run by a government or religious entity, etc.

FORM 87-A01(I) (12-17-86)

Page 3

► Section 21 — CORPORATE STRUCTURE

This section is to be answered by corporations only. Answer both items. A family-held corporation has more than 50 percent of its stock owned by persons related by blood or marriage.

► Section 22 — CHARACTERISTICS AND OCCUPATION OF OPERATOR

This section collects information about the operator of "this place" defined as the individual owner, the operator, the senior partner, or person in charge for the type of organization reported in section 20.

For Family or Individual Operation — Complete this section for the operator.

For Partnership Operations — Answer all items, except item 2, for the "Senior Partner." The "Senior Partner" is the individual for the "Senior Partner." The "Senior Partner" is the individual who is mainly responsible for the agricultural operations on "this place," not necessarily the person senior in age. If each partner shares equally in the day-to-day management decisions, consider the oldest as the "Senior Partner." For item 2 (Principal Occupation) consider all members of the partnership together. Please include as "farming" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, ranching, feedlots, broiler feeding, etc.

For Corporations and Other Operations (Cooperatives, Estates, etc.) — Complete section 22 for the person in charge, such as a hired manager, business manager, or other person primarily responsible for the on-site, day-to-day operation of the farm or ranch business.

Item 4 — Year Began Operation — Report the first year the operator or senior partner began to operate any part of "this place" on a continuous basis. If the operator returned to a place previously operated, report the year operations were resumed.

▶ Section 23 — PRODUCTION EXPENSES paid by you and others for "this place" in 1987
Include farm production expenses paid by you, your landlord, contractors, or anyone else for crops, livestock, or poultry produced on "this place." Include expenses incurred in 1987 even if they were not paid for in 1987. Please estimate if exact figures are not pour produced to the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of th known. Refer to the individual expenditure items below for further explanations.

Livestock and Poultry Purchased - Report the cost of cattle, calves, hogs, pigs, sheep, lambs, horses, goats, chicks, pullets, poults, etc., including breeding stock and dairy cows. Contract growers or custom feeders who did not own or purchase the livestock or poultry themselves should estimate the value of the cattle, calves, pigs, baby chicks, pullets, etc. at the time they came onto the place.

Feed Purchased for Livestock and Poultry - Report the purchased for Livestock and Poultry — Report the purchase cost of corn, sorghum, oats, barley, other grains, silage, hay, mixed feed, concentrates, etc., fed to livestock and poultry on "this place." Contract livestock and poultry growers should estimate the value of feed provided by the contracting company. Custom feedyards should include feed costs for all cattle fed even if the owners of the cattle were billed for the feed. Feed raised on "this place" should not be reported as purchased.

Cost of Hired Farm and Ranch Labor — Include gross salaries and wages, commissions, dismissal pay, vacation pay, and paid bonuses paid to hired workers, family members, hired managers, administrative and clerical employees, and salaried corporate officers. Also, include supplemental cost for benefits such as employer's social security contributions, unemployment compensation, workmen's compensation insurance, life and medical insurance, pension plans, etc.

Contract Labor — Includes the labor costs of workers furnished on a contract basis by a labor contractor, crew leader, or cooperative for harvesting vegetables or fruit, shearing sheep, or similiar farm activities. Do not include costs for building or repair work done by a construction contractor. Include the cost of customwork or machine hire in item 11.

Repair and Maintenance Expenses for the Upkeep of Buildings, Motor Vehicles, and Farm Equipment — Include the cost of repairs and upkeep of farm machinery, vehicles, buildings, fences, and other equipment used in the farm business. Do not include repairs to vehicles not used in the farm business or for equipment used only for performing customwork for others. Do not include expenditures for the construction of new buildings or the cost of additions to existing buildings.

Form 87-A01(I)

Interest Expense Paid on Debts — Report all interest expenses paid in 1987 for the farm business. Include interest on loans secured by land and buildings (real estate) in item 12a. Include all loans not secured by real estate such as for fertilizer, feed, and seed in item 12b. Include interest paid on CCC loans. Do not include interest associated with activities not related to production of crops or livestock on "this place" such as land or buildings rented to others, packing sheds, or feed mills that provide services to others. Do not include interest on owner/operator dwelling where amount is separated from interest on other land and buildings on "this place."

Cash Rent Paid for Land and Buildings In 1987 — Report rent paid in cash during 1987 for land and buildings in "this place." Do not include rent paid for operator dwelling or other nonfarm property. Do not include the value of shares of crops or livestock paid to landlords.

Property Taxes Paid — include real estate property taxes you paid on the acres and buildings you operated and used in the farm business.

Do not include:

- a. Property taxes on land or buildings rented to someone else
- b. Taxes paid by landlords
- Property taxes paid on other property not associated with the farm business
- d. Income and excise taxes

All Other Production Expenses — Farm production costs not previously listed should be reported here. In addition to items listed on the report form, include bookkeeping charges, tax preparation fees, postage, advertising, commission for sale of cattle, and fees paid for farm-related advice or for farm consultants. Do not include depreciation or expenditures for the purchase of land and buildings or new or used machinery.

► Section 24 — COMMERCIAL FERTILIZER AND LIME

Report acres on which commercial fertilizer (items 1 and 2) or lime (item 3) was applied during 1987. If any acreage was fertilized or limed more than once, report acres ONLY ONCE in each item. Report expense for commercial fertilizer purchased, excluding lime, in section 23, item 4.

▶ Section 26 — MACHINERY AND EQUIPMENT

The estimated market value in item 1 refers to ALL machinery and equipment kept primarily on''this place'' and used for the farm business. Report the value in its present condition, not the replacement or depreciated value. Specialized equipment, which is an integral part of a building, should be included as a part of the value of land and buildings.

► Section 27 — ESTIMATED CURRENT MARKET VALUE OF LAND AND BUILDINGS

The value for each of the three listed categories should be your estimate of the value of the land and buildings if they were sold in the current market. The real estate tax assessment value should not be used unless that value represents a full market value assessment and the land and buildings could reasonably be assumed to be sold at that price. Do not deduct real estate marketing charges from your estimate. Report the total value, not the value on a per acre basis.

► Section 28 — INCOME FROM FARM — RELATED SOURCES IN 1987

Item 1 through 4 refer only to those income producing activities for which you use part of the land, machinery, equipment, labor, or capital normally used on "this place," and which you do not consider as entirely separate from your farming activities. Report gross amounts received before taxes and expenses.

Item 1 — Customwork — Do not report income for customwork or agricultural services provided to others if operated as an entirely separate business from your agricultural operations.

Item 2 — Rental Income — Do not include rental income from nonfarm property.

Item 3 — Forest Products — Include only those forest products or Christmas trees cut from "this place," not items cut from other nonfarm timber acreage. Do not include income from saw mill husiness

Item 4 — Other Farm-Related Income — Include income from hunting leases, fishing fees, and other recreational services, sales of farm by-products, and other business or income closely related to the agricultural operation on "this place." Include dividends for business done with farmer-owned cooperatives. Do not enter previously reported farm sales or income from investments not associated with the farm. Do not include retirement pensions or social security benefits received.

87-A01(L1) (1987)



UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census

Washington, D.C. 20233

OFFICE OF THE DIRECTOR

in reply refer to: BUREAU OF THE CENSUS 1201 EAST TENTH STREET JEFFERSONVILLE, IN 47133

FROM THE DIRECTOR BUREAU OF THE CENSUS

The 1987 Census of Agriculture is underway. Our goal is to provide a complete and accurate measure of the Nation's agriculture. We need your completed report form to reach this goal.

Many changes have occurred in agriculture in the 5 years since the last census of agriculture was conducted. There is an urgent need for up-to-date and accurate statistics about our Nation's farmers and ranchers. Farmer organizations and the state, county, and Federal levels of government will use the statistical summaries from this census in making policy decisions affecting the agricultural industry. These decisions will no doubt have an effect on your operations. You can find a more extensive description of the uses of the census on the reverse side of this letter.

WHAT IS ENCLOSED IN THIS PACKAGE?

- 1. Census report form please complete and return to the Census Bureau.
- 2. An information sheet.
- 3. Return envelope.

WHEN IS THE CENSUS REPORT FORM DUE?

Please return your completed report form by February 1, 1988. This reduces the need for costly mail and telephone follow-ups. Should a telephone call be necessary, a supervisor may listen in to assure that the interviewer is doing a proper job.

IS YOUR RESPONSE REQUIRED?

Yes, by law (Title 13, United States Code).

WILL YOUR ANSWERS BE KEPT CONFIDENTIAL?

Yes. By the same law, your report to the Census Bureau is confidential. Only sworn Census Bureau employees can see your report to prepare necessary statistical summaries that in no way reveal information about you as an individual. Also, the law provides that copies retained in your files are immune from any legal process.

WHAT IF THE INFORMATION IS NOT AVAILABLE?

Use your best estimates if you do not have records available to provide data for all items.

WHAT IF YOU DID NOT CONDUCT ANY AGRICULTURAL OPERATIONS IN 1987 OR NEED HELP COMPLETING THE REPORT FORM?

First, read the special reporting instructions on page 1 of the information sheet. If you need additional information, please write to us. Please include the 12-character Census File Number (CFN) that is shown in the address label.

Bureau of the Census 1201 East 10th Street Jeffersonville, IN 47133

Thank you for cooperating with us in taking the 1987 Census of Agriculture.

The Census Bureau is grateful to you for your help in this important census.

Cene

Sincerely,

JOHN G. KEANE

Enclosures

WHY THE AGRICULTURE CENSUS?

The national census of agriculture measures where farmers and ranchers stand — their supply needs; their production costs; and what they produce, how they produce it, and how much is produced. And it suggests how changing trends can shape their future.

Others provide agricultural data - but the census is the Nation's only consistent, comprehensive source of farm and ranch information for each county and state and for the Nation. This information provides for local and national comparisons.

HOW ARE CENSUS DATA USED?

- Farmer organizations use census results to evaluate and propose programs and policies that affect all farmers and ranchers. The census data help them:
 - Decide the effect of proposed legislation on members.
 - Set up marketing programs for the membership.
 - Provide data to support the members' educational, legislative, and credit needs.
- Elected representatives use census information to develop programs to help solve such problems as:
 - · Environmental, tax, and zoning questions; water resource problems; and land-use concerns.
 - Congress and the Administration evaluate the effects of potential changes in farm legislation set aside programs, agricultural trade, and farm credit.
- Researchers use census data to develop new farm technology. We conduct studies and surveys to:
 - · Provide better irrigation techniques.
 - Provide guidance in the careful use of agricultural chemicals (insect control) and other farm safety practices.
- Locating processing and distribution facilities are based on census information:
 - · Allocations for railroad cars for grains and other shipments.
 - · Locations of retail and wholesale outlets for farm goods.
 - · Location of new grain elevators.
- Farm suppliers of fertilizer, seed, and equipment use census data to meet farmers' and ranchers' needs for products by helping to:
 - Determine how much of a product to manufacture and where to ship.
 - · Locate new stores for distribution of supplies.

WHO PLANS THE QUESTIONS?

The Census Bureau works with representatives of farmers, ranchers, farm cooperatives and suppliers, state and local governments, and others to determine what questions should be asked in the census. The organizations represented are leaders in the agricultural industry and they include:

American Farm Bureau Federation National Cattlemen's Association **National Council of Farmer Cooperatives** National Farmers Organization National Farmers Union The National Grange Agricultural Publishers Association American Agricultural Economics Association American Feed Industry Association American Meat Institute Association of Research Directors, Inc.

Conference of Consumer Organizations Farm and Industrial Equipment Institute National Agri-Marketing Association National Agricultural Chemicals Association National Association of State Departments of Agriculture National Association of State Universities and Land-Grant Colleges National Food Processors Association Rural Sociological Society The Irrigation Association U.S. Department of Agriculture

WHAT HAPPENS TO YOUR ANSWERS?

The Census Bureau publishes data only in tabulated totals — by county, state, and for the Nation. The publications are available in libraries, universities, and the Government Printing Office, and from the Census Bureau.

By law only sworn Census Bureau employees see individual report forms, which cannot be provided to other government agencies, nor released under the Freedom of Information Act.

FORM 87-A01(L1)

Reminder/Thank You Card Form 87-A01(L2)

(Front)

U.S. DEPARTMENT OF COMMERCE

Bureau of the Census

Jeffersonville, Indiana 47144

87-A01(L2)

OFFICIAL BUSINESS

Penalty for Private Use, \$300

PRESORTED FIRST-CLASS MAIL POSTAGE & FEES PAID CENSUS PERMIT No. G-58

(Back)

THANK YOU ... if you returned the 1987 Census of Agriculture report form you received earlier this month.

If you have not returned your report form, please take a few minutes to complete and return it by February 1, 1988. Your prompt reply will aid in the early publication of the census of agriculture information for your State.

Sincerely,

JOHN G. KEANE

Director

Bureau of the Census

John G. Leane

87-A01(L3) (1987)



UNITED STATES DEPARTMENT OF COMMERCE **Bureau of the Census**

Data Preparation Division Jeffersonville, Indiana 47133

We recently sent you a 1987 Census of Agriculture report form. According to our records, we have not received your completed report. We are enclosing another copy of the report form. Please complete it using your best estimates for items where information is not available. We have included a preaddressed return envelope for your convenience.

IS YOUR RESPONSE REQUIRED?

Yes, by law (Title 13, United States Code). More importantly, this law requires that your report must be held COMPLETELY CONFIDENTIAL.

WHAT IF YOU DID NOT OPERATE A FARM OR RANCH, OR DID NOT HAVE ANY **AGRICULTURAL PRODUCTION IN 1987?**

Please complete Section 1 and refer to the special reporting instructions on page 1 of the enclosed information sheet.

HOW ARE CENSUS DATA USED?

By businesses, farm organizations, and government to make crucial decisions that can affect you and the Nation's agriculture. It is in your best interest to provide the information requested so these decisions are based on accurate data.

WHAT IF YOU HAVE A QUESTION OR NEED HELP?

Call our toll-free number at 1-800-233-6132 (1-800-233-6135 for Indiana residents) between 8:00 a.m. and 4:30 p.m. Eastern Time or write to us. If you prefer to write, all correspondence should be addressed to our Jeffersonville office and include the 12-character Census File Number (CFN) that is shown in the address label:

> Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47133

Thank you for your cooperation in completing your report form.

Sincerely,

ROGER H. BUGENHAGEN **Assistant Director for Economic** and Agriculture Censuses

Roger H. Bugenhagen

Bureau of the Census

Enclosures

87-A01(L4) (1987)



UNITED STATES DEPARTMENT OF COMMERCE **Bureau** of the Census

Data Preparation Division Jeffersonville, Indiana 47133

WE ARE VERY CONCERNED.

We have not received your report form for the 1987 Census of Agriculture that was due February 1, 1988. If you mailed your report within the last several days, we thank you for your cooperation.

We need a reply from everyone who receives a census report form. If you did not raise crops or have livestock in 1987, please complete Section 1 of the report form and refer to the information sheet enclosed in the mail package we sent you earlier.

If you need help completing your report form, please call our toll free number 1-800-233-6132 (1-800-233-6135 for Indiana residents) between 8:00 a.m. and 4:30 p.m. Eastern Time or write to us. If you prefer to write, all correspondence should be addressed to our Jeffersonville office and include the 12-character Census File Number (CFN) that is shown in the address label:

> Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47133

Thank you for your prompt cooperation.

Roger H. Bugenhagen

Sincerely,

ROGER H. BUGENHAGEN **Assistant Director for Economic**

and Agriculture Censuses

Bureau of the Census

NOTICE — Response to this inquiry is required by law (Title 13, United States Code). By the same law YOUR REPORT TO THE CENSUS BUREAU IS CONFIDENTIAL. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. The law also provides that copies retained in your files are immune from legal process.

87-A01(L5) (1987)



UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census

Data Preparation Division
Jeffersonville, Indiana 47133

We have not received your completed report form for the 1987 Census of Agriculture due February 1, 1988. For your convenience, we are enclosing a replacement report form. Use your best estimates if information for all items requested is not available.

We need a reply from everyone. If you did not operate a farm or ranch, or did not raise any crops or have livestock in 1987, please complete Section 1 and refer to the special reporting instructions on page 1 of the enclosed information sheet.

We are relying on your cooperation in the census. The filing of this report is required by law (Title 13, United States Code) and there are penalties for failure to report. By the same law, your report to the Census Bureau is CONFIDENTIAL. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. Pertinent sections of the law are printed on the other side of this letter.

We need your report so that the census results for your county will be complete, accurate, and timely. Census data are used extensively by your farm organizations, Congress, the U.S. Department of Agriculture, other Federal and state agencies, agricultural experiment stations and colleges, farm publications, and the businesses on which you depend for services, supplies, and equipment.

Please take time TODAY to complete and return the report form. If you need help, you may call our toll free number 1–800–233–6132 (1–800–233–6135 for Indiana residents) between 8:00 a.m. and 4:30 p.m. Eastern Time or write to us. If you prefer to write, all correspondence should be addressed to our Jeffersonville office and include the 12-character Census File Number (CFN) that is shown in the address label:

Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47133

Sincerely,

ROGER H. BUGENHAGEN
Assistant Director for Economic
and Agriculture Censuses
Bureau of the Census

Hogen H. Bugenhagen

Enclosures

EXCERPTS FROM TITLE 13, UNITED STATES CODE WHICH RELATE TO THE CENSUS OF AGRICULTURE

AUTHORITY TO CONDUCT CENSUS — Section 142

- (a) The Secretary shall in 1979, in 1983, and in every fifth year beginning after 1983, take a census of agriculture.
- (c) The data collected in each of the censuses taken under this section shall relate to the year immediately preceding the year in which such census is taken.

AUTHORITY TO COLLECT PRELIMINARY AND SUPPLEMENTAL STATISTICS — Section 193

In advance of, in conjunction with, or after the taking of each census provided for by this chapter, the Secretary may make surveys and collect such preliminary and supplementary statistics related to the main topic of the census as are necessary to the initiation, taking, or completion thereof.

MANDATORY PROVISIONS OF LAW

Section 221

- (a) Whoever, being over eighteen years of age, refuses or willfully neglects, when requested by the Secretary, or by any other authorized officer or employee of the Department of Commerce or bureau or agency thereof acting under the instructions of the Secretary or authorized officer, to answer, to the best of his knowledge, any of the questions on any schedule submitted to him in connection with any census or survey provided for by subchapters I, II, IV, and V of chapter 5 of this title, applying to himself or to the family to which he belongs or is related, or to the farm or farms of which he or his family is the occupant, shall be fined not more than \$100.
- (b) Whoever, when answering questions described in subsection (a) of this section, and under the conditions or circumstances described in such subsection, willfully gives any answer that is false, shall be fined not more than \$500.

CONFIDENTIALITY OF INFORMATION

Section 9

Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may, except as provided in section 8 of this title (which permits only the release of identifiable personal information to a respondent of the heir, successor or agent of such respondent) -

- (1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or
- (2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or
- (3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

No department, bureau, agency, officer, or employee of the Government, except the Secretary in carrying out the purposes of this title, shall require, for any reason, copies of census reports which have been retained by any such establishment or individual. Copies of census reports which have been so retained shall be immune from legal process, and shall not, without the consent of the individual or establishment concerned, be admitted as evidence or used for any purpose in any action, suit, or other judicial or administrative proceeding.

Section 214

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter 1 of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

> U.S. DEPARTMENT OF COMMERCE **BUREAU OF THE CENSUS**

87-A01(L6) (1987)



UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census

Data Preparation Division
Jeffersonville, Indiana 47133

Your 1987 Census of Agriculture report form is now long overdue. Please take time to complete and return your report form today. If you did not operate a farm or ranch, or did not raise any crops or have livestock in 1987, please complete Section 1 of the report form and refer to the information sheet enclosed in the mail package we sent earlier. Your best estimates are acceptable if you do not have records available for all items.

We need a reply from everyone who receives a census report form so that the census results for your county will be complete. Your own farm organizations and all levels of government use statistical summaries from the census to make decisions affecting the agriculture industry and likely affecting you.

If you need help completing your report form, please call our toll free number 1–800–233–6132 (1–800–233–6135 for Indiana residents) between 8:00 a.m. and 4:30 p.m. Eastern Time or write to us. If you prefer to write, all correspondence should be addressed to our Jeffersonville office and include the 12-character Census File Number (CFN) that is shown in the address label:

Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47133

Thank you for your cooperation in completing your report form.

Sincerely,

ROGER H. BUGENHAGEN
Assistant Director for Economic
and Agriculture Censuses

Roger It. Bugenhagen

Bureau of the Census

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87-A01(L7) (1987)



UNITED STATES DEPARTMENT OF COMMERCE Bureau of the Census

Data Preparation Division
Jeffersonville, Indiana 47133

This is the final notice asking you to file your 1987 Census of Agriculture report form. Your report was due on February 1, 1988. Your response is required by law (Title 13, United States Code) and there are penalties for failure to report. Traditionally, we have sought voluntary cooperation. Failure to report is cause for legal action.

Your report to the Census Bureau is CONFIDENTIAL by law. It may be seen only by sworn Census Bureau employees and may be used only for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. Pertinent sections of the law are printed on the reverse side of this letter.

We have a responsibility to the farmers and ranchers of America to publish reliable statistics on agriculture for each county, state, and for the Nation. The information from the census is used by businesses, farm organizations, and government when making crucial decisions that affect you and the Nation's agriculture. It is in your best interest to provide the information requested so these decisions are based on complete and accurate data.

If you need help completing your report form, please call our toll free number 1–800–233–6132 (1–800–233–6135 for Indiana residents) between 8:00 a.m. and 4:30 p.m. Eastern Time or write to us. If you prefer to write, all correspondence should be addressed to our Jeffersonville office and include the 12-character Census File Number (CFN) that is shown in the address label:

Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47133

Sincerely,

ROGER H. BUGENHAGEN
Assistant Director for Economic
and Agriculture Censuses

Koger H. Bugenhogen

Bureau of the Census

Enclosures

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CONFIDENTIALITY OF INFORMATION

Section 9

Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may, except as provided in section 8 of this title (which permits only the release of identifiable personal information to a respondent of the heir, successor or agent of such respondent) —

- (1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or
- (2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or
- (3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

No department, bureau, agency, officer, or employee of the Government, except the Secretary in carrying out the purposes of this title, shall require, for any reason, copies of census reports which have been retained by any such establishment or individual. Copies of census reports which have been so retained shall be immune from legal process, and shall not, without the consent of the individual or establishment concerned, be admitted as evidence or used for any purpose in any action, suit, or other judicial or administrative proceeding.

Section 214

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter 1 of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

> U.S. DEPARTMENT OF COMMERCE **BUREAU OF THE CENSUS**

87-A01(L7) (1987)

DUE BY FEBRUARY 1, 1988								0607-0534: Approval Exp		
FORM 87-A0400 U.S. DEPARTMENT OF COMI		THE CENSUS	BUREAU IS CONF	IDENTIAL. I	t may be	e seen only	by sworr	 By the same law n Census employee f taxation, investigation 	s and may b	e used
UNITED STATES	- 1	The law also p	rovides that copies	s retained in	your file	s are immu	ne from le	gal process.		Jiation.
CENSUS	' l'	in correspond	ence pertaining	to this repo	ит, рива	se rerer to	your cen	sus File Number (CFN)	
OF AGRICULTURI	E							87-A0400		
AG CENSUS USA	_		•							
Please complete this Orm and PETURN TO 1201 East Tenth Street										
Jeffersonville, IN 47133										
Note — If your records are not available, reasonable estimates m used. If you cannot file by February 1, a time extension request may be to the above address. Include your 12-character Census File Number	e sent									
as shown in your address label in all correspondence to us.	101117									
If you received more than one report form, enter extra Census File Number(s) here	Ш									
and return extra copies with your completed report.	IJſ									
CENSUS 035 038 037 038										
ONLY 1039	1	Please		name, addre	ss, and 2	ZIP Code. I	NTER str	eet and number if n	ot shown.	
SECTION 1 1. At any time during 1987, did you plant, grow, or have any:			SECTION 4 • PART A -	- CROPS	HAR	VESTER	from "	THIS PLACE	' in 1987	
Hay or tobacco? Fruit, nut, or citrus trees; Corn, wheat, or other grains? Vegetables, melons, or b		nes?	(Do not inclu						Gross valu	
Other crops? Greenhouse or nursery cr			1. Hay crops -	_	None	Acres harvest		uantity harvested	crops so	old
Yes No 2. At any time during 1987, did you raise, sell, or keep any:			a. Alfalfa a	nd alfalfa		103	104	Tons, dry	Dollars 782 \$	Cents
Cattle, hogs, sheep, or goats? Chickens or other poultry? Fish in captivity?			b. Small gra			106	107	Tons, dry	782	00
Bees? Other animal specialties?	•		c.Wild hay	•		112	113	Tons, dry	782 \$	00
☐ Yes ☐ No			d. Other ha			109	110	Tons,	782	00
If you answered YES to EITHER of these questions, go to S If you answered NO to BOTH of these questions, go to SEC	TION 1	0.	Specify ki		_ [067	068	dry Bu.	773	00
SECTION 2 ACREAGE IN 1987 Report land owned, renter your spouse, or by the partnership, corporation,	d, or use	ed by you,	3. Soybeans f			088	089	Bu.	775 \$	00
which you are reporting. Include ALL LAND, REG LOCATION OR USE — cropland, pastureland, rar	ARDLE	SS OF	4. Wheat for			073	074	Bu.	774	00
woodland idle land house late ato		nber of acres	5. Tobacco —	all types		094	/10	Lbs.	781 \$	00
1. All land owned	043		6. Potatoes, In		_	097	098		785	1
2. All land rented or leased FROM OTHERS, including land			for home use.)	. Ц	!	/10	Cwt.	\$	00
worked by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include leased Federal, State,	044		7. All vegetab	les for sale			tal acres	Dollars Cents		
and railroad land. (DO NOT include land used on a per-head basis under a grazing permit.)	045		(Do not includ for home use.	tnose grow	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	375	/10	\$ 1 00		
3. All land rented or leased TO OTHERS, including land worked on shares by others and land subleased. Also complete item 5 below.	_		Specify kind(s)				/10			
4. Acres in "THIS PLACE" — ADD acres owned (item 1)		46	`					I		
and acres rented (item 2), then SUBTRACT acres rented TO OTHERS (item 3), and enter the result in this space.			8. All fruit and vineyards,		rds,	Vone To	al acres	Quantity harvested	Dollars 784 \$	Cents
If the entry is zero please refer to the Information Sheet, section	2	†	Specify \$				/10	3 Lbs.	Š	
5. Of the land you rented or leased to others, how many None os			kind(s)	L			/10			
acres did you own?		Acres	9. Other crops Report quanti	5 — For addi ity harvested	tional cro in the un	ps, enter th it specified	e crop nam with crop	ne and code from the name.	list below.	
6. In what county was the largest value of your	ty name	State	Crop n	ame	Code	Acres harvest		uantity harvested	Gross valu	
agricultural products raised or produced?					-	Haivest	1		Dollars 2	Cents
PART A — How were the ACRES in this place used in 19					+		4 1		2	00
Cropland harvested — Include all land from which crops	one Nur	mber of acres	If more space is ne	eded, use a s	eparate si				ļ\$	00
were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse crops.	790	· · · · · · · · · · · · · · · · · · ·	Crop name Barley for grain (I				Oats f	or grain (bushels) .		. 076
2. Cropland on which all crops failed — (Exception: Do not report here land in orchards and vineyards on which the crop failed.)	793		Corn for silage or Cotton (bales)	<u> </u>		091	Other	um for grain-milo (b crops (pounds) — S	pecify	
3. Cropland idle, cropland used for cover crops, or cropland in cultivated summer fallow	ם ∟			NURSERY			ISE CRO	PS GROWN FOR	SALE	
4. Cropland used only for pasture, woodland pastured, and other pastureland and rangeland	796		From the list be	elow, ente		·		for each crop gro	wn.	
5. All other woodland, wasteland, houselots, etc. not	797		Crop nan	ne C	ode un	iquare feet der glass o er protectio	r ir	1 1967	Sales in 198	
reported in items 1 through 4 above.		nber of acres			oth	si hiotectic	Whole	2	Dollars	Cents
1. How many acres of harvested land were irrigated? Include		irrigated	If more space is ne Crop name	eded, use a s	eparate si			1 /10 \$		00
land from which hay was cut and land in bearing and nonbearing fruit and nut crops.	681		Bedding plants (in Cut flowers and c				Potted	tame I flowering plants . e plants		
How many acres of pastureland, rangeland, and any other lands not included in item 1 above were irrigated?			Nursery crops — and nut trees, a	ornamentals	. fruit		Green	house vegetables . — Specify		. 503
PENALTY FOR FAILURE TO REPORT						CONTI	NUE ON	REVERSE SIDE -		$\overrightarrow{}$

SECTION 5 LIVESTOCK and POULTRY			· · · · · · · · · · · · · · · · · · ·		A DARTE HORSES OF	HED LIVESTACI	ANIMAL	PECIAL	TIEC and I	EIGH
			INVENTORY		FARTE - HURSES, UT	INVENTORY	r i	$\neg \neg$		
PART A — CATTLE and CALVES	None	N	umber on this	7	None	Number on this place Dec. 31, 1987			Dollars	
	140116	803	Je Dec. 31, 130	,		830	831 No	832		1 00
1. CATTLE and CALVES of all ages	. 🗆			Total	0, s egos 111,	839	840	84:	2	1
a. BEEF COWS - Include beef heifers that		804		Beef	2 Colonies of bees	{	841 Po	unds		1 00
had calved	. ا	805		cows	2. Colornes of Dees	843	844	846	 6	1
cream for sale or home use - Include dry	DOWS kept for production of milk or for sale or home use — Include dry ows and milk helfers that had calved. Some continued of the production of milk or for sale or home use — Include dry ows and milk helfers that had calved. Some continued of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the products of the p									
milk cows and milk heifers that had calved	And the sale of home use — include dry ows and milk helfers that had calved. DAIRY PRODUCTS sold in 1987 —									
	Gr	oss value	of sales			{	Nu	mber	~	İ
1					4. Angora goats	(00
2. Value of DAIRY PRODUCTS sold in 1987 –	1		100							1
	•		- 00	į			1	,		1
FROM THIS PLACE IN 1987			Cross value of		NameCode		Qu	antity \$		00
Include as sold cattle moved from this place to a feedlot for further None					Name/code					
feeding.	808	į			Mink and their pelts 836	Other goats	851	and their	products	857
3. Calves less than 500 pounds	810			00						
4. Cattle - Include calves 500 pounds or more		- 1		00	Amount received in 1987 and reserve loans, even if re	from Governm deemed or forfei	tod			
Of ALL cattle sold, how many were	Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount received in 1987 from Government CCC loans. Include regular Amount									
FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more									. = 4 0000	00
and SOLD for SLAUGHTER?			\$	00						
PART B — HOGS and PIGS							None	e Do	ollars	Cents
		plac		7					1	
	_	815							i	00
1. HOGS and PIGS of all ages	. ⊔ ∤	816	To	otal				\$	i	00
a. HOGS and PIGS used or to be used for breeding			Br	eeding					OLED unde	DT
					FEDERAL &	creage reduction	ii broßienis		Number of	f acres
No. of				_					682	
2. HOGS and PIGS SOLD from this				Cents	•	•		Ц	683	
place in 1987	No.									
3. Of the nogs and pigs sold, now many were	822			1 00	SECTION 9 CHARACTE	RISTICS and O	CCUPATIO		ERATOR	
sold as FEEDER PIGS for further feeding?			\$		SECTION 9 CHARACTE (Senior part	RISTICS and O ner or person in	CCUPATIO charge)		ERATOR	
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FORM 87-A04(I)

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

INFORMATION SHEET 1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

1. Who Should Report

WE NEED A REPLY FROM EVERYONE RECEIVING A REPORT FORM, WE NEED A REPLY FROM EVERYONE RECEIVING A REPORT FORM, INCLUDING individuals, landlords, tenants, partnerships, corporations, institutions, and THOSE NOT CONDUCTING AGRICULTURAL OPERATIONS. Each case included in the census has a unique Census File Number (CFN). In order to make the census results as complete and accurate as possible, we need to obtain information about every CFN.

2. If You Received More Than One Report Form for an Operation

Complete only ONE report form for an operation. Write "Duplicate" near the address label of each extra report form. Also, write the 11-digit census file number(s) of the DUPLICATE report(s) ON THE COMPLETED REPORT in the space provided to the left of the address label. Return the extra report(s) in the same envelope with your completed report form so that we can correct our records.

3. If You No Longer Farm

If you had agricultural operations at any time during 1987, please report all agricultural activity during the year. Report all land on your census form that you owned or rented. Also, report your 1987 crop and livestock production and 1987 sales.

Explain on the first page of the report form (or on a separate sheet of paper) that you quit farming or ranching and give the approximate date and the name and address of the present operator, if known.

4. If You Never Farmed or Have No Association With Agriculture

Please write a note on the report form near the address label explaining this and return the form so that we can correct our records. In our efforts to make the census as complete as possible, we obtained lists from various sources. We tried to eliminate duplicate and nonfarm addresses, however, it was not always possible to do so.

5. If You Have More Than One Agricultural Operation

Complete a report form for EACH SEPARATE and DISTINCT production unit, i.e., each individual farm, ranch, feedlot, greenhouse, etc., or combination of farms, etc., for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production.

6. If You Have a Partnership Operation

Complete only ONE report for the entire partnership's agricultural operation and include all partners' shares on the one report. If members of the partnership also operate separate farms or ranches in addition to the partnership farming operation, separate report forms should be completed for each individual operation.

If two or more report forms were received for the same operation, mark each additional form as a "Duplicate." Return the duplicate report(s) in the same envelope with the completed partnership report, where possible, or write a note on the duplicate report, such as, "(Name of partner) has completed a report for the partnership (provide name and CFN of partnership.)"

7. Landlord's or Contractor's Share

If you rented or leased land from others or had a contract for the production of agricultural products, include both your share and the landlord's or contractor's share of the production, sales, and expenses so your census report form will be complete for "THIS PLACE."

If you do not know the landlord's or contractor's share, include your BEST ESTIMATE. If you do not have records available for all data items, use your best estimate.

8. How to Enter Your Response

Enter your replies in the proper spaces, on the correct lines, and in the units requested, i.e., dollars, bushels, tons, etc. Write any explanation outside the answer spaces or on a separate sheet of paper. All dollar figures may be entered in whole dollars. CENTS ARE NOT REQUIRED.

Enter whole numbers except where tenths are requested, such as acres of potatoes harvested. If you have 1/2, 1/3, or 1/4 of an acre, convert to tenths. For example, convert 1/2 to 5/10, 1/3 to 3/10, 1/4 to 2/10.

The census report form will contain sections and questions which do not apply to you. When this occurs, mark the "None" or "No" box and go on to the next item or section.

Instructions For Specified Sections

► Section 2 — ACREAGE IN 1987

Your answers to this section will determine the land (Acres in "THIS PLACE") referred to in the rest of the report form.

When answering the acreage questions, include the land associated with your agricultural operations in 1987 whether in production or not. Include all land that you owned or rented during 1987 even if only for part of the year. Do not include any unrelated residential or commercial land.

Report all land in section 2 in whole acres.

Item 1 — All Land Owned — Report all land owned in 1987 whether held under title, purchased contract or mortgage, homestead law, or as heir or trustee of an undivided estate. Include all land owned by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

Item 2 ~ All Land Rented or Leased FROM OTHERS — Report all land rented by you or your operation even though the landlord may have supplied materials or supervision.

INCLUDE in item 2:

- a. Land for agricultural use that you rented from others for cash
- b. Land you worked on a share basis (crop or livestock)
- c. Land owned by someone else that you used rent-free
- d. Federal, State, Indian reservation, or railroad land rented or

DO NOT INCLUDE in item 2:

Land used on a per-head or animal unit license or permit basis, such as section 3 of the Taylor Grazing Act, National Forest, or Indian reservation permit land.

Item 3 — All Land Rented or Leased TO OTHERS — include all land rented out for any purpose if it was part of the acreage reported in items 1 and 2. A report form will be obtained from each of your tenants to cover the operations on that land.

INCLUDE in item 3:

- a. Owned land rented to others for cash or a share of crops or
- b. Land you rented from someone and then subleased to someone
- c. Land worked for you by someone for a share of crops or
- d. Land which you allowed others to use rent-free

Item 4 — Acres in "THIS PLACE" — This figure will show the total of all land you operated at any time in 1987.

If item 4, Acres in "THIS PLACE" is "0" and:

- You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. All your land was operated by a renter or sharecropper, skip to and complete section 10, and explain briefly, "All land rented out," etc. Mail form in return envelope.
- c. You did not have any agricultural activity on owned or rented land in 1987, complete section 10 and explain briefly, such as "retired," "sold farm," and date. Give name and address of current operator if known and return form.

► Section 3 — LAND USE AND IRRIGATION

This section is used to classify the acres in "THIS PLACE" reported in section 2, item 4. Do not include any acres you rented to others reported in section 2, item 3. The sum of the acres entered in various categories should equal total acres in "THIS PLACE."

Land Used for More Than One Purpose — Do not report the same acreage for more than one of the listed purposes. If part or all of your land was used for more than one listed purpose in 1987, report that land only in the first category listed. For example, if you harvested a crop and later used the same land for pasture, report the land in part A, item 1, "Cropland harvested."

Double Cropping — When more than one crop was harvested from the same land in 1987, report that land only ONCE as "Cropland harvested," in part A, item 1 of this section.

Interplanted Crops — If you interplanted crops, such as cotton in an orchard, report the total land used for both crops only ONCE, as "Cropland harvested," in part A, item 1.

Skip Row Planted Crops — Report the acres that represent the total nonplanted or skipped rows as "Cropland idle," part A, item 3, the acres that represent the planted rows should be reported as "Cropland harvested," part A, item 1.

Irrigation is defined as land watered by artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, purposeful flooding, etc. Include acres that receive supplemental, partial, and/or preplant irrigation. Do not report water applied in transplanting tobacco plants, trees, or vegetables as irrigation.

► Section 4 -- CROPS

This section provides space for reporting crops harvested during the 1987 crop year from the land shown in section 2, item 4 (Acres in "THIS PLACE") of your report. A few crops are already listed on the form. For these crops, just report acres harvested, quantity harvested, and value of sales. If you produced crops not listed, write the name of the crop and code from the list provided and report the acres harvested, quantity harvested, and the value of sales.

Form 87-A04(I)

DO NOT INCLUDE:

- Any crops grown on land rented or leased TO OTHERS, or worked by others on shares during 1987.
- b. Crops or crop products purchased from others and later sold.

Acres Harvested — Enter the acres harvested in 1987. Round fractions to whole acres except where tenths are requested by "/10" in the reporting box, such as potatoes.

Quantity Harvested - If your unit of measure is different than the unit on the report form, please convert your figure for the quantity harvested to the unit requested. If the harvest was incomplete by December 31, 1987, please report the quantity harvested and the estimated quantity to be harvested.

Gross Value of Crops Sold — Report the value of all crops sold from "THIS PLACE" in 1987, regardless of the year they were harvested or who owned the land. Be sure to report gross value before deducting expenses and taxes. Include Government CCC loans received for "THIS PLACE" in 1987. Include payments received in 1987 from cooperatives or marketing organizations for crops produced on "THIS PLACE."

Item 7 — Vegetables — Report acres of vegetables harvested FOR SALE or commercial processing. Do not include vegetables grown for home use. Report the total acreage of each vegetable crop harvested.

Item 8 — Fruit Orchards, Citrus, Vineyards, and Nut Trees — Report only if total of 20 or more trees and vines, include those for home use as well as those maintained for sale of their production. Acres in trees and vines that have been abandoned should not be included, these acres should be included in section 3, part A, item 3 "Croalpad idla".

If crops other than fruit and nut trees and vines were interplanted with trees or vines, report the total acres for the orchard crop in item 8 and the total acres of the interplanted crop in the appropriate item.

Item 9 — Other Crops — To report: (1) find the crop name and the code number from the list under item 9; (2) enter crop name and code in the first two columns of the first available answer line under item 9; (3) enter the information that is requested in the remaining columns. If you harvested a crop not listed, use the "OTHER" code and specify the crop name. If you need additional space, use a separate sheet of paper to write the crop name(s), acres and quantity harvested, and gross value of crop(s) sold.

Section 5 — LIVESTOCK, POULTRY, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES

Parts A. B. C. and D - LIVESTOCK AND POULTRY

Animals and Poultry to Include in the Report - Report all Animals and routing to include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 2, item 4) on December 31, 1987. Include all owned by you and any kept by you for others. Include animals on unfenced lands, National Forest land, district land, cooperative grazing association land, or rangeland administered by the Bureau of Land Management on a per-head or lease basis. Animals in transit on December 31, 1987, or animals on a short-tarm pasture (such as wheat nesture or room. animals on a short-term pasture (such as wheat pasture or crop residue) on a per-head or lease basis should be reported by the erson who had control of the animals

Animals and Poultry to Exclude from the Report — Do not report animals or poultry kept on land rented to others or kept under a share arrangement on land rented to others. Do not include animals quartered in feedlots which are not a part of "this place." Animals kept on a place not operated by you are to be included on the report for that place.

Animals Bought and Sold — DO NOT REPORT ANY ANIMALS BOUGHT AND THEN RESOLD WITHIN 30 DAYS. Such purchase and sales are considered "dealer" transactions, and are not included in this census.

Number Sold — Report all animals and poultry sold or removed from "this place" in 1987, without regard to ownership or who shared in the receipts. Include animals sold for a landlord or given to a landlord or others in trade or in payment for goods or services. Do NOT report number sold for any livestock or poultry kept on another place.

Dairy Termination Program or "Whole-Herd Dairy Buy-Out Program" — The amount received in 1987 from the Government under the dairy termination program should be included in section 7, item 1. Dairy cattle and calves sold should be reported in section 5,

Animals Moved to Another Place — For animals moved from "this place" to another place, such as for further feeding, report animals as "sold" and give your best estimate of their market value when they left "this place."

Fat Cattle Sold — Cattle fattened on grain or concentrates for 30 days or more and sold for slaughter are reported in section 5, part A, item 4a.

DO NOT INCLUDE WITH FATTENED CATTLE SOLD:

- a. Cattle and calves sold for further feeding
- b. Dairy cows fed only the usual dairy ration before being sold
- c. Veal calves, or any calves weighing less than 500 pounds

Value of Sales — Report the total gross value of animals and poultry sold or removed from "this place" in 1987 without deducting production or marketing expenses (cost of feed, cost of livestock purchase, cost of hauling and selling, etc.). If the sale price or market value is not known, give your best estimate of their market value when they left "this place." / Do NOT report the value of sales of any livestock and poultry owned by you but kept and sold from a place you did not over the sale of the sale you will not sale of the sale you will not sale of the sale you will not sale of the sale you will not sale you will not sale you will not sale you will not sale you will not sale you. livestock and po did not operate.

Contract and Custom Feeding Operations - Livestock or poultry Contract and Custom Feeding Operations — Livestock or poultry kept by you on "this place" on a contract or custom basis should be included on this report REGARDLESS OF OWNERSHIP. Report as "INVENTORY" numbers of animals or poultry on the place on December 31, 1987. Report as "SOLD" animals and poultry kept on a contract or custom basis and removed or sold from the place in 1987. If the sale price or market value is not known, give your best estimate of the market value of the animals or poultry when they left

The person who furnished the housing and labor should report the poultry operation on his/her report form regardless of who owned the birds. Report as sold the number of poultry that were taken or moved from the place in 1907. from the place in 1987.

Part E — HORSES, OTHER LIVESTOCK, ANIMAL SPECIALTIES, AND FISH

If you owned BEES — Report all colonies or hives of bees and honey operations conducted by you, regardless of where the hives were kept most of the year. Report hives or colonies, pounds of honey sold, and value of sales.

Other Livestock and Livestock Products - Include in all other livestock and livestock products manure, beeswax, and any other animal products sold from "this place" in 1987. Mink pelts and rabbit pelts should be included in number sold and value of sales, but not in inventory.

Fish and Other Aquaculture Products — Report quantity sold and gross value of sales for each.

Section 6 — AMOUNT RECEIVED FROM GOVERNMENT CCC LOANS

Item 1 — Report the amount received under the regular or reserve program for commodities placed under CCC loan during 1987. Include amount received even if commodity was redeemed or forfeited prior to December 31, 1987.

Do not include CCC loans received to build crop storage facilities or amount received for storage payments in the reserve program

▶ Section 7 — FEDERAL PAYMENTS RECEIVED

Report all payments received from Federal Farm Programs in 1987 regardless of whether payment was made in cash or commodity certificates. Include cash payments in item 1. In item 2, include the value of any certificates held or the value received from sale or redemption of any certificates in 1987.

Federal payments include receipts from Federal programs such as deficiency payments, "Whole-Herd Dairy Buy-Out," support price payments, indemnity programs, disaster payments, paid land diversion, inventory reduction payments, payments received for approved soil and water conservation projects, etc.

Section 8 — ACRES SET ASIDE, DIVERTED, OR IDLED UNDER FEDERAL ACREAGE REDUCTION PROGRAMS IN 1987

Include in item 2 all acres in "this place" retired from production and placed, by long-term contract, into the Conservation Reserve Program. Acres placed into the program during and prior to 1987 should be included.

Section 9 — CHARACTERISTICS AND OCCUPATION OF OPERATOR

This section collects information about the operator of ''this place'' defined as the individual owner, the operator, the senior partner, or person in charge.

For Family or Individual Operation - Complete this section for the

For Partnership Operations — Answer all items, except item 2, for the "Senior Partner." The "Senior Partner" is the individual who is mainly responsible for the agricultural operations on "this place," not necessarily the person senior in age. If each partner shares equally in the day-to-day management decisions, consider the oldest as the "Senior Partner." For item 2 (Principal Occupation) consider all members of the partnership together. Please include as "farming or ranching" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, ranching, feedlots, broiler feeding, etc.

For Corporation and Other Operations (Cooperatives, Estates, etc.) — Complete section 9 for the person in charge, such as a hired manager, business manager, or other person primarily responsible for the on-site, day-to-day operation of the farm or ranch business.

Item 4 - Year Began Operation - Report the first year the operator or senior partner began to operate any part of "this place" on a continuous basis. If the operator returned to a place previously operated, report the year operations were resumed.

Report Form 87-A0215, Citrus Caretakers

RM 87-A0215	U.S. DEPART	MENT OF BUREAU OF	COMMERCE THE CENSUS	BUREA	U IS CONFIE	ENTIAL	. It ma	y be see	n only by s	worn Cens	.S. Code). By thouses a	ne same la nd may b	used only	PORT TO T for statistic	HE CENSI
	AG CENSUS USA			in your	port CANNC files are imm	une from	ra ror p n legal _l	process.	or taxation,	investigat	ion, or regulation	ii. Ine la	w also provi	ses that cop	es retain
CENSUS C	ED STATE Of AGRICU Scaretake	JLTU	JRE												
	ENSUS USE ONLY														
9 040	037	038													
		042			Ple	ase con	ect erro	ors in nan	ne, address,	, and ZIP (ode. ENTER stre	et and nu	mber if not s	hown.	
CTION 1 ACREAGI	E IN 1987					5.lf	ou ren		FROM OT	HERS (ite	m 2) enter the f				andlord.
All land owned (include		cropla	nd, pasturel	and,	r of acres						ction, page 4.	wing info	ormation fo	each rente	er.
which you cared for or List on a separate sheet address, and acreage for	managed for others). t of paper the name, or each grove owner	• • • • • • •	🗆 📗	144				Name o	of renter		Mailing address	(include i	ZIP Code)	Number	of acres
include land which you others.) Also complete All land rented or leased land worked on shares l	provided in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st	r ased.		45		a. 7.LC	Of the to oth	land you ers, how ON OF	AGRICUL	or leased cres did y	on, page 4. ou own?	[one oss		_ Acre
Acres in "THIS PLA and acres rented (item	ACE" — ADD acres over 2), then SUBTRACT a and enter the results in	vned (ite cres ren	ted	046			largest agricul raised	value o tural pro	oducts aced?	Principal county—	County n	ame		Number 056	of acres
For this census report t	hese are the acres in ''T	HIS PLA	CE." ——]		in any e enter t	tural ope other co the coun s), etc.	unty(ies), ity	Other counties		-		058	
TOTAL ACRES in bearing Report the following inf	ng and nonbearing citrus	or other	groves on t	his pla	ce. (<i>DO N</i> C	T inclu	ide ab			121	Total acres		Acre	s irrigated	/10
wind, etc. For interplant	ted trees estimate the ar	ea cover	1		fruit. ES OR VINE	S OE	1			1		i Init of	measure -	Mark on	
Crop	name	Code	Nonbearin		Bearing		orv	Acres in vines of	trees all ages	(1986	ty harvested -87 season)	Lbs.	Tons	Boxes	Lbs per b
1. Total oranges		297			298		299		/10	300		301	2 🗆	3 🗌	302
Optional —	a. Valencia oranges								/10						1
Complete only if you find it helpful	b. Navel oranges								. 10						<u> </u>
in computing ''Total oranges''	c. Temple oranges		-												į
	d. Other oranges				259		260	_	:10	270		271			1 222
2 - Grapefruit		267			268		269 293		10			1	2 🔲	3 🗌	272
3. Honey tangerines (r	murcotts)	291						-	10			1	2 🗆	3 🗆	296
4.Other tangerines		309	<u> </u>		310		311		10			313	2 🗆	3 🗀	!
5. Tangelos		303			304		305		-10	306		1	2 🗌	3 🗌	308
6. Other citrus — Na Specify	me				1		2		-10	3		1 🗆	2 🗆	3 🗌	,5 1
					1		2		/10	3		1 🗆	2 🗍	3 🗌	15 I
7. Non-citrus fruit	_		-		1		2	i	:10	3		1 🗆	2	3 🗌	5
or nut trees or vines — Specify					1		2	_	.10	3		1	2	3 🗌	5
If more space is needed, use	REMARKS section, page 4.				l				10 oss value of				1-1	L - U	.1
	ue of sales of citrus and 1987? (Delivered-in valu						-	784 c	ollars	Cents	4				

SECTION 3 Were any NURSERY and GREENHOUSE CROPS, MUSHROOMS, sod, bulbs, flowers, flower seeds, vegetable seeds and plants, vegetables under glass or other protection,						SECTION 6 INCOME FROM FARM-RELATED SOURCES IN 1987 Report amount received before taxes and expenses.						
G	ROWN F	OR SALE on "T	HIS PLACE	" in 198	37?		1 Customwork and other agricultural services Farm-related income					
	□ vrc						Customwork and other agricultural services provided for farmers and others — plowing, None Dollars Cents Output Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dollars Cents Dol					
	⊒ res	- Complete th - Go to section					planting, spraying, harvesting, preparation of					
2	NU	 Go to section 	4		Area irrigated	i	products for market, etc. (DO NOT include charges to grove owners whose land is a part of "THIS PLACE.") 992					
			None	Square 477	feet Acres	Tenths						
1. Nursery and gre	enhouse o	crops irrigated in 1	987			1 /10	Specify kind of work done \$ 00					
2. From the list bel	w, enter	the crop name an	d code for ea	ch crop gi	own.		2. Gross cash rent or share payments received from renting out farmland or payments received from lease or sale of allotments — Include payments for 1993					
Square feet Acres in			the	0-1 1- 10	.07	livestock pastured on a per-head basis, per-month basis,						
Crop name	Code	under glass or other protection	open in 1	987	Sales in 19	187	per-pound basis, etc. \$ 00					
Ì		in 1987	Whole acres	Tenths	Dollars	Cents	3. Sales of forest products and Christmas trees –					
			1	2		t	Include maple products, naval stores, firewood, etc					
			,	/10 \$		00	4. Recreational services, patronage dividends of					
			[/10 \$		00	cooperatives, and other income which is CLOSELY					
			1	710 2		1	RELATED to the agricultural operation on this place —					
		<u></u>		/10 \$	i	00	Specify \$ 00					
1				2			SECTION 7 TYPE OF ORGANIZATION					
If more space is needer	L USA REM	ARKS section, nace	4	/10 \$		1 00	Mark (X) the one item which best describes the type of organization					
Crop name	., 400 /12/9/		crop name			Code	for this place in 1987.					
Bedding plants (Includ Bulbs (Exclude bulb fla	e vegetable	e plants). 479	Potted flowerin	ng plants.		. 710	• FAMILY OR INDIVIDUAL operation — (Do not include partnership and corporation.)					
Cut flowers and cut flo Nursery crops — ornar	rist greens	485	Sod harvested	flaures ==		497	PARTNERSHIP operation — Include family Go to section 9					
nut trees, vines, and	citrus see	dlings 488 (Greenhouse ve	getables .		. 503	partnerships 2					
Foliage plants						. 506	• INCORPORATED UNDER STATE LAW					
SECTION 4	w were	the ACRES in ti	nis place U	SEV IN 1	38/1	!	OTHER, such as estate or trust, prison farm,					
1. Copy acres in "	THIS PLA	ACE'' from sectio	n 1, item 4,	page 1_		Acres	grazing association. Indian reservation, etc. 4 , Specify below then					
		ow, if land was use										
report it in the FIF harvested and als	ST land us o pastured	se listed below that I, only as "Cropland	: applies. For e d harvested.''	xample, re	port cropland		Specify					
							SECTION 8 CORPORATE STRUCTURE (for incorporated operations only)					
0.0001480				N	one Number	of acres	922					
2. CROPLAND					787		1. Is this a family-held corporation?					
		Include all land in , orchards, vineyar					2. Are there more than 10 stockholders?					
greenhouse cre	ps, and la	ind from which cro	os were harve	sted _	¬ ĺ		2. Are there more than 10 stockholders:					
or hay was çu				L	788		SECTION 9 CHARACTERISTICS AND OCCUPATION OF OPERATOR					
b . Cropland use	only for	r pasture or grazing land that could	ng — Include	ad			(Senior partner or person in charge)					
for crops with	out additio	nal improvements.		[]		1. RESIDENCE — Does the operator (senior partner or 923					
c. Cropland use	d for cov	er crops, legume	s and soil-		789		person in charge) live on this place?					
improvement	grasses,	but NOT harves:	ted and NOT		_		2. PRINCIPAL OCCUPATION — At which occupation 928					
pastured	• • • • • •			L	790		did the operator spend the majority (50 percent or					
d. Cropland on v	vhich all	crops failed — (E.	xception: Do	not	750		more) of his/her worktime in 1987? For partnerships consider all members of the partnership together					
report here land failed. Such a	in groves Feage is t	and orchards on w o be reported in ite	hich the crop m 2a.)	[ן כ		or ranching					
e Cropland in c	ultivated	summer fallow.		Г	791		3. OFF-FARM WORK — How many days did the operator 1 None					
				_	793		(senior partner or person in charge) work at least					
f. Cropland idle	— Include	e abandoned grove	acres	L	794		a nonfarm job, business, or on someone else's farm for pay.					
3.Woodland Inc		(a. Woodlan	d pastured .	Г	7 / 7		(Do not include exchange farmwork.)					
woodlots and timb cutover and defore	er tracts a	ind {	•	_	795		s = 150 - 199 days					
with young timber		b . Woodlan	d not pastu	red [796		s ☐ 200 days or more					
4. Other pasturela	ind and	rangeland — Inc	lude anv		1,46							
		land and woodland		[J		4. In what YEAR did the operator (or senior partner)					
5. All other land —	l and in h	nouea lote nondo	roade want	hnele	797		begin to operate any part of this place?					
		reported in items 2					5. AGE of operator (senior partner or person in charge) Years old					
		·	-		798							
6. TOTAL ACRES			in items 2 th	rough 5	. 1		924/1 White					
SECTION 5 W			e IRRIGAT	ED at an	v time in 199	7?	₂ ☐ Negro or Black					
	•	•			-		6. RACE of operator (senior partner or person in charge)					
irrigated land is all or ditches, spread	ıand wate er dikes, e	red by any artificial tc. Include suppler	i or controlled nental, partial	means — I, and prep	sprinklers, furrov lant irrigation.	ws	Asian or Pacific					
-							Islander					
		 Complete this 					9 U Other - Specify					
2 [_ NO	 Go to section : 	6		N1 1	f no-o-						
				No	Number of irrigate		926					
1. How many acres	of harve	ested land were in	rrigated?		680		7. SEX of operator (senior partner or person in charge) 1 Male 2 Female					
1. How many acres Include land from v nonbearing fruit an	thich hay	was cut and land in	bearing and	Г	7		SPANISH ORIGIN — is the operator (senior partner 927					
_		•			681		or person in charge) of Spanish origin or descent					
2. How many acres		ireland, rangelani n 1 above were i			ו ר		(Mexican, Puerto Rican, Cuban, or other Spanish)? 1 Yes 2 No					
ORM 87 A0215 (10 10 86			90.00:									

CROPS other	r than citrus o you or anyon	OCK, OR POULTRY or nursery crops har se else have any LIVI	vested from this	SECTION 14 SELECTED PRODUCTION EXPI others for this place in 1987	NSES	paid by you and	
1 YES - 2 NO -	Complete thi	is section	· · · · · · · · · · · · · · · · · · ·	include your best estimates of expenses paid by y with the grove caretaking or management busines expenses connected with customwork performed operation of nonfarm activities such as packing or businesses or services, not related to the farm bu	s. Do no for other process	ot include ers,	•
		Name	Acres	pusinesses of services, not related to the farm but	None	Dollars	Cents
1. CROPS	<u> </u>					974	Contra
				1. Trees, seeds, builbs, and plants purchased	⊔	\$	1 00
	·			Gasoline and other petroleum fuel and oil purchased for the farm business —			1.
		Name	Current inventory	a. Gasoline and gasohol	П	977 \$	00
2. Livestock, poultry, etc.	 			ł		978	1
				b. Diesel fuel	Ц	979	00
SECTION 11 Was any CO	MMERCIAL I	FERTILIZER, includ	ing ROCK	c.Natural gas	. 🗆	\$ 980	00
PHOSPHATI	E, or LIME us	ed on this place dur	ring 1987?	d.LP gas, fuel oil, kerosene, motor oil,			1 00
1 ☐ YES - 2 ☐ NO				grease, etc.	. ⊔	981	00
1. Acres of cropland fertilized in			e Acres fertilized	3. Electricity for the farm business —(Do not include household expenses.)	П	\$	00
used only for pastures repor	ted in section	4, item 2b □	933]	·· ບ	<u> </u>	1
2. Acres of pastureland and rar in 1987 reported in section				Hired farm and ranch labor — also include employer's cost for social security, workman's		982	1
3. Expenditures for commercial		None	Dollars Cents	compensation, insurance premiums, pension plans, etc.		\$. 00
purchased — all forms, inclu phosphate and gypsum — Inc	clude cost of	975					
custom applications. (Do not inc			00	 Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc., performed on a contract basis by a contractor, a crew 		983	i '
 LIME — tons of lime used an which applied — (Do not inclu 	d acres on	Vone Tons of time	Acres limed	leader, a cooperative, etc.	🗆	\$	00
plaster or gypsum or lime for sar	nitation.)			6. Repair and maintenance expenses for the		984	1
SECTION 12 Were any INS NEMATICID	SECTICIDES ES, OTHER I	, HERBICIDES, FUI PESTICIDES, or OT	NGICIDES, HER CHEMICALS	upkeep of buildings, motor vehicles, and farm equipment		\$	00
used on this	place in 1987	77		oquipment		-	1-00
1 PES -				7. Customwork, machine hire, and rental of machinery and equipment — include expenditures		985	1
2 □ NO -				for use of equipment and for customwork such as pickin	a.	985	-
Include any materials provide item listed, report acres only	once. If mult			hauling, spraying, dusting, fertilizing, etc., performed by OTHERS.	Ц	\$	00
acreage treated for each pure 1. Sprays, dusts, granules, fure		funcioida	Number of acres	8. Interest paid on debts –		986	-
herbicide, insecticide, nemat			on which used	a.Secured by real estate	⊔	\$ 987	00
a.Insects on crops, including			937	b. Not secured by real estate	. 🗆	\$	00
b.Nematodes in crops .			938	9. Cash rent paid for land and buildings in 1987		988	
c.Diseases in crops and ord			330	(Do not include grazing fees.)		\$	00
d. Weeds, grass, or brush i			939	10. Property taxes paid — Include farm real estate,		989	1
(Include both pre-emergence 2. Chemicals for defoliation or			940	machinery, livestock, etc. for the farm business. (Do not include taxes paid by landlords.)		\$	00
of crops or thinning of fruit				.			
3. Agricultural chemicals purch	annd inconti	oides None	Dollars Cents	11. All other production expenses — Include insurant water, marketing charges, miscellaneous farm supplies,	c e ,	990	-
herbicides, fungicides, other	pesticides, et	c. – – – 1976	00	etc. (Do not include depreciation, household expenses, and expenses not associated with the farm business.).		\$	00
Include cost of custom application SECTION 13 MACHINERY				SECTION 15 ESTIMATED CURRENT MARK	ET VAL	UE OF LAND	
		sed for agricultural clude equipment us				-	
or processing	g of citrus.)	• •		Please give your best ESTIMATE of the CURRENT MARKET VALUE of land and	Fasim	nated current mark	od volva
Value of ALL machinery What is the estimated market		· · · · · · · · · · · · · · · · · · ·	<u> </u>	buildings for the acres reported in section 1, items 1, 2, and 3, page 1.	ESTHI	of land and buildi	
equipment, and implements	usually kept o	n this place	imated market value Dollars Cents	None	996	Dollars	Cents
and used for the farm or rand trucks, tractors, sprayers, plows	s, disks, harrow	s, pumps,		1. All land owned —Include land in citrus groves	s		00
motors, irrigation equipment, et			00	which you cared tor or managed for others	997		100
SELECTED machinery a equipment currently on			Of the total, HOW	2. All land rented or leased FROM OTHERS	\$		00
(Report only if used in 1986 or 1987.)		Total number on this place	MANY were manufac- tured in the last 5 years	_	998	- <u></u>	
	None		(1983-1987)	3. All land rented or leased TO OTHERS	\$		00
2. Motortrucks - Include pickup	s	944	945	SECTION 16 PERSON COMPLETING THIS R		- Please print	
3. Wheel tractors other than ga tractors and motor tillers —	ırden	946	947	None		- Dole	
a.Less than 40 horsepower	(PTO)			Telephone number			
b. 40 horsepower (PTO) or	more \square	948	949				

FORM 87-A46(A) (2-8-88)



UNITED STATES DEPARTMENT OF COMMERCE **Bureau of the Census**

Washington, D.C. 20233

FROM THE AGRICULTURE DIVISION **BUREAU OF THE CENSUS**

We are currently conducting a survey of nonrespondents to the 1987 Census of Agriculture. The results of this survey will be used to account for census nonrespondents in census data. This sample-based adjustment to the census will enable us to meet our goal of a complete and accurate measurement of our Nation's agriculture.

WHEN IS THE REPORT FORM DUE?

Please return your completed report form in the enclosed preaddressed envelope within 3 days of receipt. We need a response from everyone receiving this survey request. A prompt response will reduce the cost of additional mail and telephone contacts.

IS YOUR RESPONSE REQUIRED?

Yes, by law (Title 13, United States Code). Excerpts from the law are printed for your information on the back of the report form.

WILL YOUR ANSWERS BE KEPT CONFIDENTIAL?

Yes. By the same law, your report to the Census Bureau is kept confidential. Only sworn Census Bureau employees can see your report to prepare necessary statistical summaries. These summaries in no way reveal information about you as an individual.

WHAT IF YOU DID NOT CONDUCT ANY AGRICULTURAL OPERATIONS IN 1987 OR DO NOT CONSIDER YOURSELF A FARMER OR RANCHER?

If this is your situation, it is important that you complete the appropriate sections and return the report form. We need your information to accurately estimate the proportion of nonrespondent addresses that do not have census farm operations.

WHAT IF THE INFORMATION IS NOT AVAILABLE?

Use your best estimates if you do not have records available to provide the requested data for calendar year 1987.

Thank you for cooperating with us in completing the 1987 Census of Agriculture.

Sincerely.

ROGER H. BUGENHAGEN Assistant Director for Economic and Agriculture Censuses

Noger H. Bugenhagen

Enclosure

**********				OMB No	o. 0607-0606: Approval Expires 12/31/89
		answer the followin			
Item 1	a. At any time during 1987, did you p	plant or produce any YES NO			YES NO
	(1) Hay, corn, or soybeans?	🗆 🗆	(5) Fruits,	nuts, citrus fro	uits, or
	(2) Wheat, sorghum, or other small grains?	🗆 🗆	(6) Vegeta	bles, melons,	or
	(3) Tobacco?	🗆 🗀			ery crops?
	(4) Peanuts, cotton, potatoes, sugar crops?	🛮 🗎 🛪			
	Continue				
	b. At any time during 1987 did you ra	aise, sell, or keep any YES NO	_		YES NO
	(1) Cattle, calves, hogs, or pigs?		(5) Bees,	honey?	🗆 🗖
	(2) Sheep, lambs, or goats?		(6) Fish in	captivity?	
	(3) Chickens or other poultry? (4) Horses, ponies, or mules?	🗆 🗆 🥕		inimal speciali , etc.?	
	If you answered "YES" to ANY of the If you answered "NO" to ALL of the	he questions in a or			
Item 2	Report all land owned, rented, or used be corporation, or organization for which y OF LOCATION OR USE — cropland, pa	ou are reporting. Inclu	ide ALL LAND	, REGARDLES	S None Number of acres
	a. Acres of land OWNED				
	b. Acres of land rented or leased FRC you on shares, used rent free, in e taxes, etc. Include leased Federal, include land used on a per-head by	xchange for services, State, and railroad la	payment of and. (DO NOT	- -	
	c. Acres of land rented or leased TO of shares by others and land sublease				
	d. Please add the acres reported in ite in item c. The result, "ACRES IN T report form.	HIS PLACE," is to be	used for con	npleting this	
Item 3	a. List other individuals associated w partners, relatives, managers, or coll find the following of the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following that the following the following the following that the following the following that the following that the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the foll	ther associated perso —	HIS PLACE at ons. DO NOT	any time duri include landlo	ng 1987. Include ords or tenants.
	First name, middle initial, last name	Number and street or re	ural route and bo	x number	Relationship
		Post Office	State	ZIP Code	
	First name, middle initial, last name	Number and street or re	ural route and bo	x number	Relationship
		Post Office	State	ZIP Code	
	b. List any farm or business name, ot If none, mark (X) this box	_	the label, us	ed for this agr	icultural operation.

FORM 87-A46(A) (2-8-88)

Item 4	List crops harvested in 1987 on the "ACF If none, mark (X) this box		E'' rep	orted in ite	em 2d.			
	THORE, THAIR (A) THIS DOX	.,, <u> </u>		···				
	Name of crop Hay, corn, wheat, soybeans, oats, barley, sorghum, cotton, tobacco, potatoes, melons, peanuts, berries, vegetables, nursery products, etc.			Jantity rvested	Unit of measu Bushels, pounds, etc	landlord's share		
	(a)			(c)	(d)	(e)		
						\$		
			·			\$		
						\$		
L E	Consider the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	ĆINITIUS DI ACE	' F	(21 1007	\$		
Item 5	Specify livestock or poultry on the ''ACRE Include any livestock or poultry, whether	owned by you or L	on L	ecember . ers.	31, 1987, or	sold in 1987.		
	If none, mark (X) this box	<u>L</u>			·			
	Kind of livestock, poultry, or animal specialty	Number on this				Value of sales including landlord's or		
	Cattle, hogs, chickens, turkeys, broilers, ducks, geese, horses, mules, goats, sheep, bees, fish, fur-bearing animals, other livestock	place on December 31, 19	87	Number sold in 1987		contractor's share Dollars only		
	(a)	(b)			(c)	(d)		
						\$		
					···	\$		
						\$		
						\$		
Item 6	Complete this item ONLY if you answered Mark (X) all items that apply to addressee	"NO" to ALL que	stions	in item 1.				
	Rents all land to others and does not have separate crop or livestock operation.] Ne	ver operat	ed a farm or	ranch.		
	SOLD farm or ranch before 1987.	Participates in agricultural activities other than agriculture production — e.g., farm supplier, processor, feed mill operator, provider of customwork or farm						
	Removed land from agricultural production in 1987.	management services, etc.						
		J Oth	Other — Please specify					
	Participates as a partner or sharehold of a farm or ranch operated by someone else.	der						
Item 7	Person completing this report			······································				
Signature		Date co	omplete	d (Month/da	Area co	Telephone de Number		

Page 3

EXCERPTS FROM TITLE 13, UNITED STATES CODE WHICH RELATE TO THE CENSUS OF AGRICULTURE

AUTHORITY TO CONDUCT CENSUS — Section 142

- (a) The Secretary shall in 1979, in 1983, and in every fifth year beginning after 1983, take a census of agriculture.
- (c) The data collected in each of the censuses taken under this section shall relate to the year immediately preceding the year in which such census is taken.

AUTHORITY TO COLLECT PRELIMINARY AND SUPPLEMENTAL STATISTICS — Section 193

In advance of, in conjunction with, or after the taking of each census provided for by this chapter, the Secretary may make surveys and collect such preliminary and supplementary statistics related to the main topic of the census as are necessary to the initiation, taking, or completion thereof.

MANDATORY PROVISIONS OF LAW

Section 221

- (a) Whoever, being over eighteen years of age, refuses or willfully neglects, when requested by the Secretary, or by any other authorized officer or employee of the Department of Commerce or bureau or agency thereof acting under the instructions of the Secretary or authorized officer, to answer, to the best of his knowledge, any of the questions on any schedule submitted to him in connection with any census or survey provided for by subchapters I, II, IV, and V of chapter 5 of this title, applying to himself or to the family to which he belongs or is related, or to the farm or farms of which he or his family is the occupant, shall be fined not more than \$100.
- (b) Whoever, when answering questions described in subsection (a) of this section, and under the conditions or circumstances described in such subsection, willfully gives any answer that is false, shall be fined not more than \$500.

Section 224

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than \$500; and if he willfully gives a false answer to any such questions, he shall be fined not more than \$10,000.

CONFIDENTIALITY OF INFORMATION

Section 9

Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may, except as provided in section 8 of this title (which permits only the release of identifiable personal information to a respondent or the heir, successor or agent of such respondent) -

- (1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or
- (2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or
- (3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

No department, bureau, agency, officer, or employee of the Government, except the Secretary in carrying out the purposes of this title, shall require, for any reason, copies of census reports which have been retained by any such establishment or individual. Copies of census reports which have been so retained shall be immune from legal process, and shall not, without the consent of the individual or establishment concerned, be admitted as evidence or used for any purpose in any action, suit, or other judicial or administrative proceeding.

Section 214

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1987 Classification Error Survey Report Form 87-A90

FORM 87-A9 (2-8-88)	O U.S. DEP	ARTMENT OF COMMERCE BUREAU OF THE CENSUS	NOTICE – Response to this inquiry is required by law (Title 13, U.S. Code). TO THE CENSUS BUREAU IS CONFIDENTIAL. It may be seen only by sworn used only for statistical purposes. Your report CANNOT be used for purpose regulation. The law also provides that copies retained in your files are immune. In correspondence pertaining to this report, please refer to your (By the same law Census emplo es of taxation, from legal proc	yees and may be investigation, or ess.
			Г		٦
EVA	LUATIO	N OF THE			
	987 CE	NSUS ULTURE			
Please comple and RETURN t	1201	AU OF THE CENSUS East Tenth Street conville, IN 47133			
CENSUS USE		011			
SECTION		014 015	Please correct errors in name, address, and ZIP Code. ENTER street the kinds of associations and the types of activities that you		
1. Which	a larg each	e variety of activiti question carefully	t have with agriculture. The Census Bureau's definition of '' ies, some of which you and others may not consider agricult your association with	tural. Please	eread
		ytime during 198		YES	NO
a. Sold	your farn	n or ranch?		1 🗆	2 🗆
b. Retir	ed from f	arming or ranchi	ing?	1 🗆	2 🗆
c. Oper	ated a far	rm or ranch?		1 🗆	2 🗆
d. Oper	sted a gre	enhouse or nurs	ery?	1 🗆	2 🗆
			til work being completed by hired custom operators?	1 🗆	2 🗆
f. Parti mem	cipated as ber of an	a landlord, part agricultural oper	ner, investor, or corporate ation?	025	2 🗆
		owing describes ime during 1987	your agricultural production —		
fruit,	sod, etc.)	or raised ANY Li	ay, tobacco, vegetables, IVESTOCK OR POULTRY ens, fish, bees, etc.}?	030	2 🗔
b. Grew own	crops or or HOME	raised livestock	or poultry for your	031	2 🗆
c. Grev	v crops or	raised livestock	or poultry as a HOBBY?	032	2 🗆
			have any other involvement	040	2 🗆
If YE	S, describe	e the type of involv	vernent		
If you mari	ked ''YES'	' to ANY of the ab	ove items, continue with section 2 on page 2.		
If All item	s were ma	arked "NO," go to	section 6 on page 5.		

SE	This section asks about the NUMBER OF ACRES that was owned or used at any time by the operator or operation named on the mailing label. Each census report should for land under the day-to-day management of the person or operation listed on the mailing label. The land does not have to be "agricultural" — it can include your residence, woodle not have to be a published on the lacest divided in the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by the lacest divided by t	be com nailing l	pleted
	pastureland, etc. — and it does not have to be located in a single place.	None	Number of acres
1	. What is the total number of acres that you, your spouse, or organization		050
	owned during 1987? Include acres owned for only part of the year as well as acres owned for the whole year.		
			051
2.	In 1987, how many acres of land did you, your spouse, or organization rent or lease FROM OTHERS?		
	 Include land you work on shares, use rent-free, or in exchange for services, payment of taxes, etc. 		.
	Include leased Federal, State and railroad land.		
	 Do not include land you use on a per-head basis under a grazing permit. 		
3.	In 1987, how many acres of land did you, your spouse, or organization rent or lease TO OTHERS? • Include land worked on shares by others and land subleased.		052
	·		053
4.	Of the land you rent to others reported in item 3, how many acres do you own?		063
5.	Please add the acres reported in items 1 and 2. Subtract the acres rented to others in item 3. The resulting acreage is your CENSUS PLACE and should		054
	be used for completing the remainder of this report form.		
6.	Of the land in your CENSUS PLACE reported in item 5 above,		055
	a. How many acres were used as pasture?		
	 Include cropland used only for pasture, woodland pastured, and rangeland. 		056
	b. How many acres were cropland on which all crops failed?		058
7.	Do not include land in orchards and vineyards on which crops failed. In what county and State was the largest value of your agricultural products raised or produced?		
	County State		
8.	Did you have agricultural operations in any other county or counties?		1
	osi 1 YES — Enter the county and State name(s) and acreage 2 NO		
	County State		Number of acres
			059
9.	Provide name and mailing address of each landlord FROM whom you rented land or use or worked land on shares (acres reported in item 2 above).	d land	rent free
	Name Mailing address, city, State, ZIP Code		Number of acres
			060
			061
			062
10.	Provide name and mailing address of each person TO whom you rented land and the nu acres rented (acres reported in item 3 above).	mber o	of
	Name Mailing address, city, State, ZIP Code		Number of acres
	maining dedicacy, only, states, zin code		063
			064
			065
0014.0	77.A90 (2.8.88) Page 2		

Page 2

SE	CENSUS P	asks for information about LACE. We know that our make sure we count ear	nailing list contai	ns outdated addresse	olved during 1 s as well as du	987 in your plicates,				
1.		he person making the ma		•						
	First name	Middle initi	ial Last name							
	This person will be refe	rred to as the OPERATOR	of your CENSU	S PLACE.						
	a. What is the name o	of the operator's spouse?								
	First name	Middle initi	al Last name							
	b. Does the operator	live on the CENSUS PLA	CE?	. 070 1 ☐ Yes	2□ No					
	c. In what year did th part of the CENSU	e operator begin to opera JS PLACE?	te any	. 19	Year					
		n did the operator spend ime in 1987?		ozz 1 🗆 Farmin	ıq 2□Oth	er				
	-	tor's age?			Years old	61				
	•	tor's sex?			reals old	anda				
2.		, has the operator receive			2 Fell					
		, illan labon	Mailing add	lrace						
	075 1 ☐ Yes — Provid	e other address ————			,					
	2 🗌 No		City		State	ZIP Code				
3.	For business purpose	s, does the operator use	any other name	for the CENSUS PL	ACE?					
			Name							
	076 1 ☐ Yes — Provid	e other name	Mailing add	+						
	2 🗌 No		City		State	ZIP Code				
4.	Which type of organia	zation best describes you	r CENSUS PLA	CE in 1987?						
	orf and corporation	amily operation (sole propri	etorship), exclud	ding partnership						
	2 Partnership o	peration, including family p	artnership							
	3 ☐ Corporation— corporation	incorporated under state l	aw, including far	nily						
	4 ☐ Other — Such Specify —	as cooperative, estate, tru	st, etc. —							
										
5.	At any time during 19 operation of the CENS	87 were there any other i SUS PLACE?	ndividuals asso	ciated with the						
	one 1 ☐ Yes — Provide 2 ☐ No — Go to s	e information requested be section 4	low							
	Name	Mailing address, city, Sta	ate, ZIP Code	Family relationship of individual to operato CENSUS PLACE (e parent, uncle, son, related)	r of this indi e.g. of CENS not hired m	ss relationship of vidual to operator SUS PLACE (e.g. lanager, business te, partner, other)				
				<u> </u>						

SE	This section asks about the CROPS that Please provide information about all crop important for this evaluation. If you rent harvest. Do not include crops grown on	s including land from	ding the	ose grown und ers, be sure to	der contract. This include the landle	information is	
			ac ha	ow many res were rvested in 187?	b. How much was harveste in 1987?		es the Her value In 1987?
٦.	Hay — all kinds except sorghum hay Include grain hay, grass silage, wild hay, etc.	None	12	1671		Dollars	Cents
	If two or more cuttings were made from the		101		102	103	<u> </u>
	same land, REPORT ACRES ONLY ONCE but	_			To		00
	report total tons of all cuttings		104		dry	106	1 00
2.	Corn for grain or seed					u. \$	00
3	Corn for silege, cut for green chop or dry		107			108	i
٠.	fodder. (Do not include acres already	_				\$	00
	reported in item 2.)		109		110	111	- 00
	Soybeans for beans					u. \$	1 00
٠.	Soybeans for beans		112		113	114	 -
R	Wheat for grain				E	u. \$	00
	-						
6.	Other small grains for grain — oats,		}			}	ı
	barley, rye, rice, etc. Specify crop name(s):	ш	115		***************	116	i
							!
						∭ \$	00
			117		118	119	1
7	Sorghum for grain or seed		L		E	u. \$	00
	•		120			121	
8.	Sorghum for silage, cut for green chop, dry forage or hay.			1			1
						∭s	00
•	Do not include acres already reported in item 7	ш	122		123	124	
9.	Cotton		125		126 Ba	es \$	00
			125	ľ		s. \$	1 00
10.	Peanuts for nuts		128		129	130	100
	= :			1 /10		s. \$	00
11.	Tobacco — ail types		131	7.10	132	133	
12.	Irish potatoes			/40	_		100
	Exclude home use		134	/10	135	vt. \$	00
13.	Sweetpotatoes and vams		1.34	i		1	į
	• Exclude home use			/10	E	u. \$	00
	Vanatables assessed as a second as a second		137	!		138 333	}
14.	Vegetables, sweet corn, or melons for sale Exclude home use			/10			00
	Exolude Herrie and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and Transfer and	_					1
15.	Berries for sale			į l		}	
	Exclude home use			i			į
	Specify crop name(s):		ļ.	! !		-	i i
			139			140	f i
				/10		₩,	00
			-	/10		 \$	1 00
16.	Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees of all ages						! ! !
	Include land on which the fruit crop failed		[1	į
	Do not include abandoned acreages		İ				
	Specify crop name(s):	. 🗆		!			1
	• • •		141	i	***********	142	i
				1		▓.	1
			<u> </u>	/10		⊗ \$	00
							į
17.	All other crops			1]]
	Include field seeds, sugar crops, dry beans, dry page, supflower seeds, etc.			į			Į.
	dry peas, sunflower seeds, etc.	П		i			i
	Specify crop name(s):	. ⊔	143	l t	******************	· ·	1
			143			144	į
			L	/10		\$	00
			sq we	w many uare feet ere under les or other otection in	b. How many acres were in the open in 1987?	c. What was total values in	ue of
18.	Greenhouse or nursery crops — Specify →			87?		Dollars	Cents
			145		146	147	1
					İ		i I
			L			0 \$	00
DRM 8	7-A90 (2-8-88)	Page	4				

This section asks about the LIVESTOCK At types of livestock and poultry are imports present on December 31, 1987, no matter or poultry fed on a contract or custom baduring 1987.	ant for 1 er who	owned them. Be sure t	include all livesto o include all sales	ck and poultry of any livesto	
.	None	a. What was the INVENTORY on your CENSUS PLACE on December 31, 1987?	b. How many were sold in 1987?	c. What was gross values?	
				Dollars	Cents
On December 31, 1987, how many CATTLE and CALVES of all ages were on your CENSUS PLACE?		201	202	\$	00
Of these cattle and calves, how many were —		204	205	206	1 1 1
Milk cows? (Include dry milk cows and milk helfers that had calved.)		207	208	\$ 209	00
b. Other cattle and caives? (Include beef cows, helfers, steers, bulls, and caives.)		207	208	\$ 210	00
What was the gross value of dairy products sold from on your CENSUS PLACE in 1987?				\$	00
3. On December 31, 1987, how many HOGS and PIGS of all ages were on your		211	212	213	i
CENSUS PLACE?		214	215	216	00
4. On December 31, 1987, were there any POULTRY on your CENSUS PLACE?		217	218	\$ 219	00
Of this poultry, how many were —	,		}		į
a. Hens and pullets of laying age?• Exclude started pullets being raised for sale .		220	221	\$ 222	00
b. Puliets 3 months old or older not yet of laying age?				\$	00
c. Broilers, fryers, and other meat-type chickens?		223	224	225	1
Include capons and roasters				\$	00
d. Other poultry raised in captivity?		226	227	228	1
 Include turkeys, ducks, geese, etc Specify kind 					
				229	1 00
5. What was the gross value of eggs sold from your CENSUS PLACE in 1987?				\$	00
On December 31, 1987, were there HORSES and PONIES of any age on your CENSUS PLACE?		230	231	232	1 1
Include boarded horses and ponies		233	234	\$ 235	00
7. On December 31, 1987, were there any SHEEP and LAMBS of all ages on your CENSUS PLACE?				\$	00
8. On December 31, 1987, were there any other livestock or livestock products on your CENSUS PLACE?					1 1 1 1
 Include goats, mules, fur-bearing animals, colonies of bees, fish in captivity, honey, goats milk, wool, mohair, etc					1 1 1 1 1 1 1 1 1 1
•		236	237	238	00
		239	240	241	00
		242	243	\$ 244	1
SECTION 6 PERSON COMPLETING THIS REPOR	2T	<u> </u>		\$	00
Signature	11	300	Area code Nur	mber	
Date completed (Month/day/year)		What is your telephone number?			

1987 Census of Agriculture for Puerto Rico, Report Form 87-A1(PR)

										_			OMB APPROVA	L NO. 06	07-0580:	EXPIRES 09/89
	M87-A1(P	R)		A1	U.S. DEPAR	MENT OF CO BUREAU OF TO	DMMERCE HE CENSUS	TO TH	IE CENS	รบร	onse to this inquiry is required by law (title 1 BUREAU IS CONFIDENTIAL. It may be seen tistical purposes. Your report CANNOT be u	only t	y swom Čensu	s empl	ovees a	nd may be
	CEN	SUS		RICULT		- 1987										
_			A. Report Fo	orm Identifica	tion				_	_			87-A	1(PR)		
	Municipio No.	1	ED No.	Census	Farm seria	il number	Consus		l							
-	,	+	!	use only		7	use only									
Mur	nícipio		1	0 0 Barrio		1										
Nan	ne		rator's Nam Middle nam	e and Mailing le or initial	Address	s										
P.0	. Box, R.F.D. ar	l. un xod br	mber, numb	per and street												
Barr	io (if needed)															
City	or town				Z	IP Code										
035		36	Cen 037	sus use only	038	039					(Please correct errors in name, addi	ess. A	nd ZIP Code 1			
Se	ection 1	UERD	AS IN T	HE LAST	12 MONT	THS				S	ection 3 SUGARCANE	/ 3				
					-	-				Г						
	When reports ''centésimos Centésimos	ing part ,'' neve	of a cuerdi r in fractio	a, write in w ns or decima	rhole numb als. Exampl	ers under e: No	ne Cue	erdas	Cent.	1	. Was any SUGARCANE grown on this	place	during the la	st 12	month	s?
1.	All land ow	ned	. <i>.</i>			[] 049				☐ Yes — Complete this section☐ No — Go to section 4	n	Cuerdes herv	ested	Tons	harvested (2)
	(Interviewer: managed in "	item 1 –	All land ov	vned'' and e.	r, enter all la nter this figu	nd ıre in	050		1	1		None		Cent.	1	Tons
	"item 4 — To	tal cuero	las in this p	lace.'')		_	_		1	ı	a.Fail cane	. 🗆	075	1	076	
2.	Land rented	d (or lea	sed) fron	n others .		[051		 	l	b.Spring cane	. 🗆	077	I I	078	
	Land rented						_		1		c.Ratoon cane	. 🗆	079	1	080	
	TOTAL CU	ERDAS	IN THIS	PLACE -			052		ī	ı	d.Sojourn cane for seed	. 🗆	081	<u> </u>		
	(Interviewer: (item 2) then:	subtract	land rented	to others (it	em 3) and e	nter			1		e. Sojourn cane cut for feed	. 🗆	083	l I		
	your answer h		-	_				<i>t</i> - <i>t</i>	1111	1	f. TOTAL CANE (Add the figures		085	i i	086	
Э.	Land rented		otners. (C		Address	rmation for	_,	ne land erdas	Cent.	I	entered in items "a" through "e" and enter the total in this space.)	1		į i		
					Addicas		053	1465	T Cent.	ŝ	ection 4 COFFEE, TOBACCO, OR F	INF	PPIES	-		
				-, -			054	 -	 	1.	·			ES fro	m this	
											Yes — Complete this section	_		,		
							055		1		□ No − Go to section 5	,,	Cuerdas harve	ested		t harvested (2)
6.	Land rented	i to oth	ers. (Give	the follow	ina inform	ation for ea	ch of the	tenant	e j			None		Cent.		12/
•	Nar				Address	2000 101 021		erdas	Cent.		a.Coffee grown in the shade	. 🗆	092	i I	093	Lb.
						-	056		1		b.Coffee grown in the open	. 🗆	094	i i	095	Lb.
				-			057		!	l	c.Tobacco	. 🗆	096		097	Lb.
			-				058		1		d. Pineapples	. 🗆	098	 	099	Tons
							\dashv			s	ection 5 GRAINS AND FARINACE	ous:	CROPS			
7.	Land mana	ged as /er.)	a salaried	d manager	. (Give the	following i	nformatio	n conc	erning	1	. Were any of the FOLLOWING CROPS harvested from this		Cuerdas harve	ested	Amoun	t harvested
	Nan	ne			Address		Cue	erdas	Cent.	1	place in the last 12 months?		(1)	1_		(2)
							059			1		None	Cuerdas 105	Cent.	106	ounds
Sa	ction 2	OCATI	ON OF A	GRICIII	THEAT L	NO OBE	DATED		<u> </u>	l	a. Pigeon peas	. 🗆	107	<u></u>	108	
00				LAST 12			NATED			ı	b. Dry beans	_	109		110	
1.	Are all of ye	our agr	icultural	operations	located	□ No −	Complete	this s	ection		c. Green beans		111	 	112	
	in the muni above?	cipio ai	no parrio	snown in i	nem A	☐ Yes —	Go to se	ction 3	'	ı	d. Corn		113	1	114	
	Write name a	and cuere	das for prin	cipal barrio a	ınd municipi	o on the first	line; write	names	and		f. Cassava		115		116	
	cuerdas for a "Remarks"	on the la	st page.	a municipios	in spaces p	rovided. If ne	cessary, c	ontinue	ın		g. Celeriac		117		118	
	Principal barrio and	N	lame of ba	rrio	Mur	icipio	Cue 065	rdas	Cent.		-	_	119		120	
	municipio	ļ					L_		ļ		h. Sweetpotatoes		121		122	
	Other						066		-		i. Yams	_	123		124	
	barrios and municipios						067				j. Taniers		125		126	
							068		i]		k. Rice	ا.	127	-	128	
	TOTAL CU	ERDAS	(Must eq	ual cuerda	s in sectio	n 1, item 4)	069		i j	ı	I. Other - Specify	П				

1. Are there any FRUIT TRE	EEC -			_		Section 9 ORNAMENTAL AND FLO			LABITO		-•	,,,,,
			UT PALM	S on this	place?	Did you grow any ORNAMENTAL or or LAWN GRASS for sale on this place in the last 12 months?						
Yes — Complete this		on				in the last 12 months? Yes — Complete this section	-		n the last 12 m	T	Value of s	
□ No − Go to section			Tot			☐ No — Go to section 10		Square feet under shade	Cuerdas	Cent.	(Dollars o	only)
How many cuerdas in be and nonbearing fruit tree	s or		Cuerdas 134	Cent.			None	(1)	(2)	i	(3)	-
coconut palms are on thi			<u> </u>	_i		a. Lawn grass (sod)		224	225	i	226	1 00
3. Which of these fruits are	TF		ER OF ANTS OF -			b. Ornamental plants	$\sqcup \downarrow$			i	\$	1 00
now planted or were harvested in the last 12	-	nbearing	Bearing	— <i>,</i>	Amount arvested	c. Flowering plants (except orchids)		227	228	i	229 \$	1 0
months?		age 11)	age		(3)	d. Orchid plants		230	231		232 \$	1 0
Non-	135	(1)	136	137	(3)	e. Cut flowers (except orchids)	- T	233	234	!	235 \$	10
a. Coconuts	138		139	140	No.	1	12	236	237	 	238	. 0
b. Grapefruits	141		142	143	No.	f. Orchid flowers Section 10 OTHER CROPS	<u> </u>		L	-	*	, U
c. Oranges	144				No.	Were any OTHER CROPS or agricultura	al prod	iucts grow	n on this pla	ce in ti	he last 12 mo	onths
d. Avocados	L		145	146	No.	Yes — Complete this section		-	-			
e. Chironjas	147		148	149	No.	☐ No — Go to section 11				None	Cuerdas har Cuerdas	Ce
f. Plantains	150		151	152	Hds.	a . Watermelons					244	İ
g. Bananas	162		154	165	Hds.	b. Honeydew melons					245	I
h. Citron	156		157	158		c. Tree seedlings (coffee, orange, pl					248	1
_	159		160	161	Lb.	d, Other — Specify				_ 🗆	247	1
i. Mangoes	162		163	164	No.	Section 11 LAND USED IN THE LAS	ST 12	MONTH	S			
j. Papayas	165		166	167	Lb.	The purpose of this section is to distr	ribute	all land or	n this place			
k. Passion fruit	· L				No.	among items 2 through 4 below accounts the last 12 months.	ording	to the wa	y it was use	ed in	Cuerdas	Ce
1. Lemons and limes	168		169	170	Lb.	1. "TOTAL CUERDAS IN THIS PLACE" fo	rom s	ection 1, ite	em 4, on pag	ge 1 →	250	1
m. Other fruits —	171		172	173		NOTE: If the same land was used for tw		nore purpos	ses, report ti	hat land	1	
Specify						only once — in the first item that applies CHITIVATED CROPI AND (Include la		rugeted I	nd on			
					No.	2. CULTIVATED CROPLAND (Include la which crops failed, land under cultivation	nu nai on whe	i vested, lär ether harve:	sted or	None	Cuerdas	Ce
Section 7 VEGETABLES	-					not, land at rest, etc.)		_			251	1
1. Did you cultivate for sale	•		BLES in the	a last 12 i	months?	a. Used for crops or suitable for cult					252	+
Yes — Complete th		tion				b. Cropland that lie at rest (applied to	land v	which lie fal	llow)	. Ц	253	
☐ No — Go to section2. Which of the following	אמ		harvested sale	Value	of sales	3. LAND IN PASTURES — a. Cultivated and/or improved pastured	res			. 🗆		1
vegetables did you harve from this place for sale in		Ì	sale	,	(2)	b. Natural pastures					254	1
last 12 months?	None	Cuerda	s Cent.									-
a. Tomatoes			S Cont.		ars only						255	1
		176	s Cent.	177 \$	ars only	c. Pastures overgrown with brush .					255 256	1
b. Cucumbers	1	176	l I	177	· i	c. Pastures overgrown with brush . 4. OTHER LANDS — a. Woodland, forests, and underbrus	h that	t cannot be		. 🗆		I I I
b. Cucumbers				177 \$ 179	00	c. Pastures overgrown with brush . 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures	sh that	t cannot be	• • • • • • • • • • • • • • • • • • •	. 🗆		1 1 1
c. String beans		178	S COM.	177 \$ 179 \$ 181 \$	00	c. Pastures overgrown with brush d. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe	sh that	t cannot be	e 	. 🗆	256 257	1 1
c. String beans		178		177 \$ 179 \$ 181 \$ 183 \$	00	c. Pastures overgrown with brush 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas	sh that	t cannot be	a land	. 🗆	256	
c. String beans		178 180 182		177 \$ 179 \$ 181 \$ 183 \$	00	c. Pastures overgrown with brush d. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe	sh that ss ences, s repor total ir	t cannot be	e land s 2 through Total	. 🗆	256 257	
c. String beans		178 180 182 184		177 \$ 179 \$ 181 \$ 183 \$ 185 \$	00	c. Pastures overgrown with brush. 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas 4 and enter the t should be the sa	sh that sences, s repor total ir	t cannot be or wastel ted in items of this space item 1 abo	e land s 2 through p. Total vve		256 257 258	
c. String beansd. Lettuce		178 180 182 184 186		177 \$ 179 \$ 181 \$ 183 \$ 185 \$ 187 \$ 189 \$	00	c. Pastures overgrown with brush. 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas 4 and enter the t should be the sa Section 12 IRRIGATION 1. Did you irrigate any land on this place	sh that sences, s repor total ir	t cannot be or wastel ted in items of this space item 1 abo	e land s 2 through p. Total vve		256 257 258	
c. String beans d. Lettuce e. Peppers f. Cabbage		178 180 182 184		177 \$ 179 \$ 181 \$ 183 \$ 185 \$	00 00 00 00	c. Pastures overgrown with brush. 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas 4 and enter the 1 should be the sa Section 12 IRRIGATION 1. Did you irrigate any land on this place Yes — Complete this section	sh that sences, s repor total ir	t cannot be or wastel ted in items of this space item 1 abo	e land s 2 through p. Total vve		256 257 258	
c. String beans d. Lettuce e. Peppers f. Cabbage g. Eggplant h. Pumpkins		178 180 182 184 186		177 \$ 179 \$ 181 \$ 183 \$ 185 \$ 187 \$	00 00 00 00 00 00	c. Pastures overgrown with brush 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas 4 and enter the t should be the sa Section 12 IRRIGATION 1. Did you irrigate any land on this place Yes — Complete this section No — Go to section 13	sh that s ences, s repor total ir me as	t cannot be , or wastel ted in item , this space item 1 abo	e land s 2 through p. Total vve		256 257 258	Ce
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c. String beans d. Lettuce e. Peppers f. Cabbage g. Eggplant h. Pumpkins i. Sweet cooking peppers j. Other vegetables		178 180 182 184 186 188 190 192		177 \$ 179 \$ 181 \$ 183 \$ 185 \$ 185 \$ 189 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$ 199 \$	00 00 00 00 00 00 00 00	c. Pastures overgrown with brush 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas 4 and enter the t should be the sa Section 12 IRRIGATION 1. Did you irrigate any land on this place Yes — Complete this section No — Go to section 13	sh thats ances, s reportotal ir ame as e at ar	or wastel ted in items this space item 1 abo	e land s 2 through p. Total vve		256 257 258 onths? Cuerdas	Ce
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c. String beans d. Lettuce e. Peppers f. Cabbage g. Eggplant h. Pumpkins i. Sweet cooking peppers j. Other vegetables Section 8 CULTIVATED 1. Did you have any CULTIVIMPROVED PASTURE of the last 12 months? Yes — Complete this No — Go to section 9 a. Paragrass b. Guinea grass c. Merker grass d. Pangola grass e. Molasses grass f. Milo (sorghum) g. 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Pastures overgrown with brush 4. OTHER LANDS — a. Woodland, forests, and underbrus utilized for cultivation or pastures b. Lakes, ponds, buildings, roads, fe 5. TOTAL CUERDAS — Add the cuerdas 4 and enter the t should be the sa Section 12 IRRIGATION 1. Did you irrigate any land on this place	sh that s ences, s repor total ir mme as e at ar YSTER YYSTER Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten Tysten T	or wastell ted in items this space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 about the space item 1 abo	nal or irrigat her — Special this	tt12 me None in ion dist	256 257 258 Cuerdas 264 265 trict Number sol last 12 m (2) 273 275	d in th
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(2) 273 275	

Section 14 CATTLE				Section 18 SALES What was the total market to	value of agricultural products		
Do you or anyone else have any CATTLE sold from this place in the last 12 month		this place, or wer	e any	sold from this place in the la and expenses?	st 12 months, before taxes	Dollars only	
I - '		Number on this p	lace July 1, 1988	1. Sugarcane		347	00
Yes — Complete this section No — Go to section 15	one	Dairy cattle	Beef and other cattle	e		348	
2. Cattle and caives of all ages: (If	one	(1)	288	2, Tobacco		349	00
"None," mark (X) and go to item 3.)				3. Coffee			00
a. Cows	٦.	289	290	4. Pineapples		\$0	00
[_	291	292	5. Grains and farinaceous cr	ops (Do not include plantains	351	
b. Heifers 6 months of age and older	_	293	294	- <u>1</u>	ded in item 6.)	\$ 0	00
c. Heifer caives less than 6 months of age]			 Fruits — coconuts, oranges, oranges, oranges, oranges, oranges, oranges 	grapetruits, plantains, bananas, Vest Indies cherries, etc	!	00
d. Buil calves less than 6 months of age	٦	295	296	7. Poultry and poultry produc		353	
	_	297	298	eggs, turkeys, etc			00
e. Steers and buils	ا '			8. Dairy products - milk, che	ese, etc. (Do not include goat	354	^^
INTERVIEWER: The sum of questions "2a" through	h ''2e	should be the same a None			led in item 12.)	355	00
3. Quarts of milk sold in the last 12 month			Quarts sold	9. Cattle and calves		356	00
4. Cattle sold from this place in the	•		3010	10. Hogs		\$ 0	00
last 12 months (Include those fed by				11. Sheep and goats		\$0	00
contract and taken from this place in the last 12 months.)	one	Dairy cattle sold	Beef and other cattle sold	12. Other livestock and livesto		358	
_	ا ۲	300	301	mules, bees, honey, goat mil	ik, etc. — Specity		• •
a . Bull calves and heifer calves	_	302	303	13 Any other and the selection	iote cold — watermala-a	\$ 0	00_
b. All other cattle, except calves					ngs (coffee, orange, plantains,		
Section 15 OTHER LIVESTOCK				etc.), wood, hay, forage, silage	e, molasses, etc. — Specify		
1. Do you or anyone else have any HORSES LIVESTOCK on this place, or were any se						\$ 0	00_
ages and sexes.)				Section 19 OTHER FARM-	RELATED INCOME		
Yes — Complete this section					in the last 12 months from		
	ode	Number on this place July 1, 1988	Number sold in the last 12 months	1	the second second second second second	Dollars only	_
2. Specify		(1)	(2)	 Custom farmwork done for ot spraying, harvesting, preparation 	ners, such as: plowing, planting, n of products for market, etc	\$ 0	00
*				2. Recreational services, such a		386	
			1	picnicking, camping, boarding recreational facilities on this re	and lodging, or other blace	s 0	00
			1	3. For renting out farmland (Inc.		387	-
LIST OF ENT	RIES			 pastured on a per-head basis, i 	monthly payments, or through		
Name Code		Name	Code	1		\$ 0	00
Horses 304 H	ives	of bees	312	 For participation in Government only payments received from t 	he Federal or Puerto Rican		
Sheep of both sexes	abbit	(lb.)	314 316		· · · · · · · · · · · · · · · · · · ·	\$! 0	10
Goats of both sexes	ther	– Specify ↓		Section 20 FARM OPERAT	TOR CHARACTERISTICS		
Section 16 POULTRY	=		318	All these questions refer to	the person who operates th	s farm.	
				1. In what year did you start			
1. Do you or anyone else have any CHICKE ROOSTERS, BROILERS, or other poultry	on '	ENS, PULLETS, this place or were	any	operating this land?	Year		
sold from this place in the last 12 month	s? [Table ald in the	2. Do you (the operator) live —		In a city or town	17
Yes — Complete this section	-		Total sold in the last 12 months	oporatory are —	2 ☐ On another farm? 9 3 ☐ In a rural area but	Outside of Puerto Rico?	
□ No − Go to section 17		Number on this place	(Include poultry fed on a contract	1	not on a farm?		
2. How many —		July 1, 1988	basis and taken from this place in	o. How old alle you telle	396 Years old		
a Lawren (Da not include started mullate	}		the last 12 months.)		397	☐ Elementary school	ol
raised for sale.) - No	ne	(1)	(2)	school completed? Mark (X) one box	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6	•
(1) Less than 1 year old?	J	320	321	Wark (A) One box	7 8 9 10 11 12	Secondary schoo	lc
(2)1 year old or older?] [322	323	1		College or Universi	.i+.,
b. Started pullets? (Include those	_ 1	324	325	5. How many days did the	13 14 15 16 17 and c		ity
raised for sale only.)				operator (or the person		_	
c. Fighting cocks?] [326	327	in charge) WORK OFF this place at least 4		75-99	
d. Other roosters?	ו כ	328	329	hours per day in the last 12 months? (Include work] 100 <i>-</i> -149] 150 <i>-</i> -199	
e. Broilers?	_	330	331	at a nonfarm job,		200 days or more	
f. Other fowl? (Turkeys, pigeons,	- 1	332	333	business, or someone else's farm. Do not include			
guineas, etc.)]			exchange farmwork.)			
g. Chicken eggs?	7		335 Dozens	6 10/han did die te 3	399 . 🗆 The selection of a contract of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of	duate /	1
Section 17 TYPE OF FARM ORGANIZA		N	Dozens	of your (the operator's)	The sale of agricultura livestock, poultry, milk	, etc.)	
				total income come from in the last 12 months?	2 Other farm-related inco	ome	
Which of the following best describes th	e typ	se of your farm or	ganization?		3 Nonfarm-related incon	ne	
INDIVIDUAL OR FAMILY FARM	ليا 1 -			7. What percent of your (the operator's) gross	100 1 Less than 25% 3 C	30% to 74%	
PARTNERSHIP	2 🔲			income received in the		75% or more	
CORPORATION	з 🔲			last 12 months came from farming?			
OTHER	4	Estate, cooperative, o	other type - Specify	8. What is your (the	101 1 Agricultural		
		and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	E Specify	operator s) main	2 Nonagricultural - Spe	cify	
FORM 87-A1(PR) 110-15-861		=*		occupation?	<u> </u>	<u> </u>	_

These questions a. Does A1 number end in 2 or 7?		Ves	No	Section 24 MACHINERY, EQUIPMENT, BUILDINGS, AND FACILITIES ON THIS PLACE JULY 1, 1988
by CENSUS ENUMERATOR. b. Are cuerdas in section 1, item 4, 50 or m				1. How many of the following were on this place July 1, 1988? (Include all
Section 21 PRODUCTS FOR HOME CONSUMPTION	v ·			machinery, equipment, and facilities on this place, regardless of ownership, provided it was in working order.)
Include all animals, products, and crops consumed or given a		uring the last we	eek.	provided it was in working order.
Did you consums or give away any of the following de	uring	the last week	?	a . Selected Machinery and Equipment None Number
1. How many —	e 402	···		(1) Automobiles, jeeps, pick-up and motor trucks
a. Quarts of milk?		<u>a</u>	uarts	(2) Rubber- tired wheel tractors
b. Chicken eggs?	403	D	ozens	(3) Crawler tractors
bi dilakan aggar			OZETIS	(4) Carts (oxen or tractor drawn)
2. Livestock or poultry slaughtered or given away —	404			(5) Coffee depuipers
a. Cattle and calves?	405	Ni	umber	(6) Mechanical coffee dryers
b. Hogs and pigs?	405	Nı	umber	(7) Solar or air coffee dryers
c. Chickens, turkeys, pigeons,	406	,,		(8) Mechanical coffee washers
guineas, or others?	407	Ni	umber	(9) Milking machines
d. Sheep?		Ni	umber	(10) Milk coolers
e. Goats?	408	Ni	umber	(11) Emergency electric power plants
	409		dinger	b. Selected Buildings and Facilities
f. Rabbits?	L	Ni	umber	(1) Storage buildings for crops
3. Crops —	410			(2) Buildings for machinery
a. Coffee?	410	LŁ	b.	(3) Houses for agregados and other workers
	411			
b. Plantains?	412		ds.	2. What is the estimated market value of ALL machinery (Dollars only)
c. Bananas?	<u>.</u>		ds.	and equipment usually kept on this place and used for the farm business? (Include cars, trucks, tractors, plows,
Section 22 INSECTICIDES, HERBICIDES, FUNGICI PESTICIDES, LIME, AND OTHER CHEM				disks, harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and milk coolers, livestock
Include the materials bought by you, the landlord, or any othe by contract. For each item listed, report the cuerdas only onc		on if it was appl	lied	feeders, grinding and mixing equipment, etc.)
		Cuerdas or		Section 25 HIRED WORKERS, AGREGADOS, AND SHARECROPPERS 1. In the last 12 months, did you hire any workers to do farmwork on this place
Did you use any of these chemical products on this place in the last	sed	which used (2)	đ	(do not include employees of labor contractors who did work for you), or was any agregado family or sharecropper living on this place July 1, 1988?
12 months? (1)		Cuerdas	Cent.	Yes — Complete this section
1. Lime (Do not include gypsum or lime used for sanitation.)		414		No – Go to section 26
2. Chemical products used for spraying, dusting, fumigent	s,	415		452
etc. (in the form of powder, liquid, or gas), to control — 8. Insects on crops, cultivated and improved pasture	38			2. Of the hired workers, a. 5 months or more? Workers how many worked on
b. Diseases in crops and orchards (blights, smuts, rusts,		416		this place – b. Less than 5 months? Workers
c. Weeds or grass in crops and pastures		417		How many agregado or sharecropper families were
Section 23 EXPENSES				living on this place July 1, 1988? Families
Include your estimate of expenses paid by you as well as othe contractors, buyers, etc.) for crops, livestock, or livestock proproduced on this place.				REMARKS — Make any remarks you feel are necessary concerning this farm; the owner or manager; the crops, output per cuerda, size of farm; name and address of the owner if the land is managed or leased; etc.
How much did you spend in the last 12 months for the following?	Γ-	Dollars only		
Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep, lambs, goats, horses, baby chicks, started pullets, etc	418	1	00	
Feed purchased for livestock and poultry — grain, hay, silage, mixed feeds, concentrates, etc.	419	1	00	
3. Medicines and drugs purchased for livestock and poultry	\$20	· · ·	00	
4. Seeds, buibs, plants, and trees purchased	\$ \$	1	00	
5. Commercial fertilizers	\$ \$		00	
 Gasoline and other fuel and oil products purchased for the farm business — diesel oil, LP gas, butane, propane, piped gas, 	423	1		
kerosene, fuel oil, motor oil, grease, etc. (Do not include costs for items used in the family home or automobile.)	1.	!		
7. Wages and salaries paid to employees or hired farm workers	424		00	
(Include money paid in cash for farm labor including payments to family members and for Social Security taxes. Do not include		1		
housework or contract work.)	\$ 425		00	
 Contract labor (Include expenditures primarily for farm labor performed on a contract basis by a contractor, corporation, 		i	I	Section 26 PERSON COMPLETING THIS FORM — Please print
or cooperative, etc.)	\$ 426		00	Name PERSON COMPLETING THIS FORM - Please print
 Machine hire and customwork such as plowing, planting, harvesting, silo filling, spraying and dusting chemical products, etc. 		į		1450
10. Agricultural chemicals purchased	\$ 427 \$	i	00	460 Area code
FORM 87 A 1(PR: (10 15 86)	14		Pag	

FORM 87-A1(G) U.S. DEPARTS	MENT OF COMMERCE BUREAU OF THE CENSUS	NOTICE -	. Response to this	OMB APPROVAL NO. C	0607-0580: EXPIRES 09/0
13-20-67	BUREAU OF THE CENSUS	U.S. Code)	. By the same law	YOUR REPORT T	O THE CENSUS :
A1	D.E.		NOT be used for p	only for statistical ourposes of taxation	
1987 CENSUS OF AGRICULTUI	NE	FARM SE	RIAL NUMBER		
GUAM		From A2,	column (6)		
SECTION 1 OPERATOR	Full name (First na	me, middle init	tial, last name)		
1. What is your (the operator's) name?	0 - 1-1-1				
2. What is your (the operator's) mailing address?	Complete mailing	address			
(Give address where correspondence is received.)					
SECTION 2 LAND IN AGRICULTURE					
.				None Acres	Tenths
1. How many acres do you own?				042	/10
2. How many acres do you rent from others?					/10
3. For how many acres do you have a government land permit?					/10
4. How many acres do you occupy without a land permit?				044	/10
5 . How many acres are furnished to you, in connection with your	living quarters,	by the gov	ernment?		i/10
6. How many acres do you rent to others? (Do not include land us	ed by U.S. mili	tary service	s.)	046	/10
7. TOTAL ACRES IN THIS PLACE (ADD the entries in items 1, 2, 3, 4, and	5 then SURTRA	CT the entry	in item 6.) —	047	/10
	0, 0,0,, 000,, 1,,	01 1110 01111 7		Miles	Tenths
8. Is the farm located on a hard o48 surface (all weather) road? 1 Yes 2 No -	About how m		s it to the weather) road	049	/10
and his family) worked on this place in 1987?				Total farm har	ius
a. Of the unneid form hands (including the appropriate and unneid			150 days or more?	25 to 149 days?	Less than 25 days?
Of the unpaid farm hands (including the operator and unpair family workers), how many worked —			150 days or more?	25 to 149 days?	Less than 25 days?
a. Of the unpaid farm hands (including the operator and unpaid family workers), how many worked — b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —			150 days or more?	25 to 149 days?	Less than 25 days?
family workers), how many worked —b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —		060 1 [2 [3 [150 days or more? 055 Individual Partnership Corporation	25 to 149 days?	Less than 25 days? O57 cooperatives)
b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —		060 	150 days or more? 055 Individual Partnership Corporation Other (Coop	25 to 149 days? O556 (Do not include erative, estate, imption — Go to	Less than 25 days? O57 cooperatives) trust, etc.}
family workers), how many worked —		060 1 [2 [3 [4]]]]]]]]]]]]]]]]]]	150 days or more? 055 Individual Partnership Corporation Other (Coop Home consu	25 to 149 days? OSS OSS (Do not include lerative, estate, limption — Go to item 12 olding olding tholding golding ing ing	Less than 25 days? O57 cooperatives) trust, etc.)
b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —	How many acre harvested in 19	060 1 [2 [3 [4 []	150 days or more? 150 days or more? 150 days or more? 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 d	25 to 149 days? OSS OSS (Do not include lerative, estate, limption — Go to item 12 olding olding tholding golding ing ing	Less than 25 days? O57 cooperatives) trust, etc.)
b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —	How many acre harvested in 19: (a) Acres	060	150 days or more? 150 days or more? 150 days or more? 150 days or more? 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 day	25 to 149 days? Obs.	Less than 25 days? osf cooperatives) trust, etc.) osection 3 What was the value of sales in 1987? (d)
family workers), how many worked — b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked — 10. What type of operating organization does this place have? (If you are a manager, specify if working for an individual, partnership, corporation, cooperative, estate, trust, etc.) 11. Is this holding producing mainly for home consumption or sale 12. If producing mainly for sale, is it one of the following? SECTION 3 CROPS HARVESTED IN 1987 • Were any of these VEGETABLES AND FIELD CROPS harvested in 1987?	How many acre harvested in 19: (a) Acres	060	150 days or more? 150 days or more? 150 days or more? 150 days or more? 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 day	25 to 149 days? oss oss (Do not include erative, estate, amption — Go to item 12 olding olding tholding ing erify How many POUNDS were sold in 1987? (c)	Less than 25 days? O57 O57 Osection 3 What was the value of sales in 1987? (d)
b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —	How many acre harvested in 19 (a) Acres 064	060 1 [2 [3 [4 []]]]]] [3 [4 []]]]] [5 [6 []]]] [5 [6 []]]] [5 [6 []]]] [7 [6 []]]] [7 [7 [6 []]]]] [7 [7 [7 [6 []]]]] [7 [7 [7 [7 [7 [7 [7	150 days or more? 150 days or more? 150 days or more? 150 days or more? 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 day	25 to 149 days? oss oss (Do not include learning, estate, amption — Go to item 12 olding olding tholding ing ling ing learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learning learnin	Less than 25 days? O57 Cooperatives) trust, etc.) O section 3 What was the value of sales in 1987? (d) O67
b. Of the paid farm hands (hired workers and paid members of operator's family), how many worked —	How many acre harvested in 19: (a) Acres	060 1	150 days or more? 150 days or more? 150 days or more? 150 days or more? 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 days 150 day	25 to 149 days? oss oss (Do not include erative, estate, amption — Go to item 12 olding olding tholding ing erify How many POUNDS were sold in 1987? (c)	Less than 25 days? O57 O57 Osection 3 What was the value of sales in 1987? (d)

SE	CTION 3 CROPS HARVESTED IN 1987 — Continued	-	How many a	CIRS WATA	How many	How many	What was the
•	Were any of these VEGETABLES AND FIELD CROPS harvested in 1987?		harvested in	1987?	POUNDS were harvested	POUNDS were sold in 1987?	value of sales in 1987?
	FIELD CROPS narvested in 1967?	None	Acres	Tenths	in 1987?	(c)	(d)
6	. Cassava (tapioca)		084	/10	085	086	087
ŀ	. Corn	_	088	/10	089	090	091
1	. Cucumbers	_	092	1 /10	093	094	095
1		_	096	1	097	098	099
l .	. Eggplant	_	100	/10	101	102	103
	. Gado		104	/10	105	106	107
11.	Muskmelons and pepinos	. 🗆	108	1 /10	109	110	111
ĺ	Onions, green		112	1 /10	113	114	115
13	Peppers		116	/10	117	118	119
14.	Pumpkins and squash	. 🗆	120	/10	121	122	123
15.	Radishes		124	/10	125	126	127
16	Sweetpotatoes	. 🗇		/10			
17.	Taro		128	/10	129	130	131
18.	Tomatoes		132	/10	133	134	135
19.	Watermelons		136	1 /10	137	138	139
20.	Yams	_	140	/10	141	142	143
ļ	Other vegetables and field crops — Specify	_	144		145	146	147
	<u> </u>	L!		1			
				/10		!	
	FRUITS AND NUTS						
	More those any finite and mutauses as alones as ali-	058					
	place or were any harvested in 1987?		ı 🗌 Yes	2 🗌 No –	Skip to item 4		
23.	How much land is in bearing and nonbearing fruit					059	res Tenths
	trees and plants?						:10
	·		How many	How ma	ny How man	How many	What was
			How many trees or	How ma	pounds w	ere pounds were	the value
			How many trees or plants are not of	trees or plants ar bearing	pounds were of harvested	ere pounds were	the value
		Nana	How many trees or plants are not of bearing age?	trees or plants ar bearing	pounds we harvested age? 1987?	pre pounds were sold in 1987	the value ? of sales in 1987?
24.	Avocados	None	How many trees or plants are not of bearing age?	trees or plants ar bearing	pounds we harvested age? 1987?	pounds were sold in 1987	the value of sales in 1987?
	Avocados	None	How many trees or plants are not of bearing age?	trees or plants ar bearing	pounds we harvested age? 1987?	pre pounds were sold in 1987	the value of sales in 1987?
25.	Bananas	None:	How many trees or plants are not of bearing age?	trees or plants ar bearing (pounds with harvested 1987?	pounds were sold in 1987	the value of sales in 1987?
25. 26.	Bananas	None 	How many trees or plants are not of bearing age?	trees or plants ar bearing (b)	pounds we harvested age? 1987?	pounds were sold in 1987	the value of sales in 1987?
25. 26. 27.	Bananas Betelnuts Breadfruits	None	How many trees or plants are not of bearing age?	trees or plants ar bearing (b)	pounds wharvested 1987?	pounds were sold in 1987	the value of sales in 1987?
25. 26. 27. 28.	Bananas Beteinuts Breadfruits Coconuts	None	How many trees or plants are not of bearing age? (a) 148 158	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29.	Bananas Betelnuts Breadfruits Coconuts Grapefruit	None	How many trees or plants are not of bearing age? (a) 148 158	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30.	Bananas Betelnuts Breadfruits Coconuts Grapefruit	None	How many trees or plants are not of bearing age? (a) 148 158	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30.	Bananas Betelnuts Breadfruits Coconuts Grapefruit	None	How many trees or plants are not of bearing age? (a) 148 168 168	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30.	Bananas Betelnuts Breadfruits Coconuts Grapefruit	None	How many trees or plants are not of bearing age? (a) 148 168 168	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30. 31.	Bananas Beteinuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes	None	How many trees or plants are not of bearing age? (a) 146 158 168 153 168 179	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30. 31. 32.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes	None	How many trees or plants are not of bearing age? (a) 148 168 168	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30. 31. 32. 33.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges	None	How many trees or plants are not of bearing age? (a) 146 158 168 153 168 179	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30. 31. 32. 33. 34.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas	None	How many trees or plants are not of bearing age? (a) 146 158 168 153 168 179	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas	None	How many trees or plants are not of bearing age? (a) 146 158 168 153 168 179	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987? (e) 157 157 157 157
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops	None	How many trees or plants are not of bearing age? (a) 146 158 168 153 168 179	trees or plants ar bearing (b)	pounds wharvested 1987? (c) 1956 1967 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1	re pounds wer sold in 1987	the value of sales in 1987?
25. 26. 27. 28. 30. 31. 32. 33. 34. 35. 36. 37.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits	None	How many trees or plants are not of bearing age? (a) 146 158 168 153 168 179	trees or plants ar bearing (b)	pounds wharvested 1987?	re pounds wer sold in 1987	the value of sales in 1987? (e) 157 157 157 157
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops Tangerines	None	How many trees or plants are not of bearing age? (a) 148 148 148 148 148 148 148 14	trees or plants ar bearing (b)	pounds wharvested 1987? (c) 1956 1967 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1	156 (d) 156 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2) 16 (2)	the value of sales in 1987? (e) 157 157 157 222
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops	None	How many trees or plants are not of bearing age? (a) 148 148 168 168 178 178 178 178 179 179 179 17	trees or plants ar bearing (b)	pounds wharvested 1987?	pre pounds wersold in 1987 (d) 151 156 161 178 196 211 216 226	the value? of sales in 1987? (c) 152 157 157 157 157 157 157 157 157 157 157
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops Tangerines	None	How many trees or plants are not of bearing age? (a) 148 148 168 168 178 178 178 178 179 179 179 17	trees or plants ar bearing (b)	pounds wharvested 1987?	pre pounds wersold in 1987 (d) 151 156 161 178 196 211 216 226	the value? of sales in 1987? (c) 152 157 157 157 157 157 157 157 157 157 157
25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops Tangerines	None The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	How many trees or plants are not of bearing age? (a) 148 148 148 148 148 148 148 14	trees or plants are bearing (b)	pounds wharvested 1987?	Pounds wersold in 1987	the value of sales in 1987? (e) 152 153 153 153 153 153 153 153 153 153 153
25. 26. 27. 28. 29. 30. 31. 32. 33. 35. 36. 37. 38. 39. 40.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops Tangerines Other fruits, nuts, and tree crops — Specify	None The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	How many trees or plants are not of bearing age? (a) 148 168 168 178 178 179 179 179 179 179 17	trees or plants are bearing (b)	pounds wharvested 1987?	pounds wersold in 1987	the value? of sales in 1987? (e) 152 157 157 157 157 157 157 157 157 157 157
25. 26. 27. 28. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops Tangerines Other fruits, nuts, and tree crops — Specify.	None The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	How many trees or plants are not of bearing age? (a) (b) (a) (c) (b) (c) (d) (d) (d) (d) (d) (d) (d	trees or plants are bearing (b)	pounds wharvested 1987?	pounds wersold in 1987	the value? of sales in 1987? (e) 157 157 222 222 222 222 223 vas the value
25. 26. 27. 28. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40.	Bananas Betelnuts Breadfruits Coconuts Grapefruit Guavas Lemons-Limes Mangoes Oranges Papayas Pineapples Soursops Starfruits Sweetsops Tangerines Other fruits, nuts, and tree crops — Specify.	None	How many trees or plants are not of bearing age? (a) (b) (c) (a) (c) (d) (d) (d) (d) (d) (d) (d	trees or plants are bearing (b)	pounds wharvested 1987? (c) 1955 1966 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 1	pounds wersold in 1987	the value? of sales in 1987? (e) 152 157 157 157 157 157 157 157 157 157 157

Form 87-A1(G)

SECTION 4 LAND USE					
Of the total acres on this place				Acres	Tenths
(Section 2, item 7) —			None	236	!
1 · How many acres of land are in crops?				238	/10
2. How much cropland is used for pasture?				240	/10
3. How much cropland is not used for crops or pasture?				242	/10
4. How much pastureland is used for pasture or grazing?				244	/10
5. How much pastureland is not used for pasture or grazing?				246	/10
6. How many acres are in other land?					/10
7. TOTAL LAND (Add entries in items 1 through 6. The total should				. 248	1
be equal to the entry in section 2, item 7.) SECTION 5 LIVESTOCK AND POULTRY				<u> </u>	/10
SECTION 3					
Do you or anyone else have any of the following livestock and poultry on this place or were any sold from this place in 1987?		How many are on this place today?	How many were sold in 1987?	What was t	
iii 1907:	None	(a)	(b)	(c)	
1. Carabaos of all ages			ļ		
2. Total cattle and calves of all ages		253	254	255	
(Must equal sum of a and b below.) a. Milk cows		256	257	258	
b. All other cattle and calves	П	259	260	261	
3. Hogs and pigs of all ages.		262	263	264	
4. Goats and kids of all ages		265	266	267	
-	_	268	269	270	
5. Horses and colts of all ages		271	272	273	
6. Chicken hens 4 months old and over	🛮	274	275	276	
a. Commercial layers	🗆	277	278	279	
b. Other chicken hens		280	281	282	
7. Chickens less than 4 months old	🗆	283	284	285	
8. Roosters and pullets	🛮				
9. Other poultry		286	287	288	
a. Ducks					
b. Geese	П	289	290	291	
c. Pigeons	_	295	296	297	-
•	_	298	299	300	
d. Other – Specify	🗆				
			Number sold in 1987	What was t	1987?
		None	(a) 301	302 (b)	
0. How many dozens of chicken eggs were sold during 1987?	• • • • • • • • • • • • • • • • • • • •		Doze 303	ns 304	
1. How many quarts of milk were sold during 1987?			Qua		
SECTION 6 FISHERY				· · · · · · · · · · · · · · · · · · ·	
		Total pounds	Total pounds	Value of	sales
		caught (a)	sold (b)	in 19	87
1 Now many pounds of fish were counted during 10073	None	305	306	307	

SECTION 7	SELECTED EXPENDITURES IN 1987	· · · · · · · · · · · · · · · · · · ·			
How much d	id you spend for each of the following in 1987	77		None	Dollars only
1. Machine hire	and customwork				309
2. Wages and s	alaries paid to employees or hired farm worke	rs (Do not include l	nousework or contract		310
1	work. Include cash payments only.)ed for livestock and poultry (Include cost of			니	311
	lso amount paid for grinding and mixing feed.			🗆	312
4. Insecticides,	fungicides, and herbicides				312
5. Fertilizers an	d manure purchased				313
				_	314
	d poultry purchased				
ocomon c	AGO WENT AND TACKET RES USED ON THE	FLACE IN 1907			
1. How many of	the following are on this place? (Include all lifess of ownership, provided it is in operating	specified equipmen	t on this place		Number
1	f all kinds				315
}					316
b. Motortruc	ks		•••••	Łj	317
c. Automobil	es			🗆	i
2. Do you have	the following on this place?				
a Flactricity			318	2 🔲 N	lo.
1					
	ing water		1 Tes	2 🔲 N	10
SECTION 9	OPERATOR CHARACTERISTICS	•			
The following	questions are about the FARM OPERATOR.				
1 Do you live o	n this place?		320 Vos	2 [] N	lo.
				۱۱ زـــ: 2	10
2. In what year	did you begin to operate this place?	***************************************			
3. How old were	you on your last birthday?		Years	old	
4. What is your	main occupation?		1 Agricultural	2 🗔 N	lonagricultural
			324 1 None		00-149 days
work 4 hours	ORK — How many days did the operator or more off this place in 1987?		2 ☐ 1 — 49 days		50 – 199 days
include work else's farm.	at a nonfarm job, business, or on someone Exclude exchange farm work				00 days or more
SECTION 10 E	NUMERATOR'S RECORD (To be filled by the	Census enumerato	r)		
	32	٤,			
1. Who furnishe	d the information in this report?	1 ☐ Operator	4 Wife or member the operator's fa		
		2 Landlord	and operator on	,	
		3 Hired laborer	5☐ Other — Specify	/ 	
2. Remarks (Ma	ke any remarks needed in regard to the place, the	owner or operator, th	e crops cultivated, or the	livestock	
	his place.)				
		·			
3. Residence	a. Election District	b. \	/illage		
of operator 4. Location	a. Election District	b. 8	D number		
of land					
5. Certified by	Enumerator's signature		Date		
6. Checked by	Supervisor's signature		Date		
ORM 87-A1(G) (5-20-87)	<u> </u>		- t		

1987 Census of Agriculture for the U.S. Virgin Islands, Report Form 87-A1(VI)

ORM 87-A1(VI) U.S. DEI	PARTMENT OF COMMERCE BUREAU OF THE CENSUS		- Response to this inq	uiry is r	equired by la	
A1		CONFIDENT may be use	FIAL. It may be seen and only for statistical pure of taxation, investigation.	only by rposes.	sworn Censu Your report (s employees and
1987 CENSUS OF AGRICUL VIRGIN ISLANDS	TURE	FARM SE From A2 c	RIAL NUMBER olumn (6)	•	1 1 1	
Section 1 OPERATOR	Full name (First na	ame, middle initia	els, last name)			
1. What is your (the operator's) name?	Complete mailing	address				
2. What is your (the operator's) mailing address? (Give address where correspondence is received.)						
Section 2 LAND IN AGRICULTURE				**		Acres
How many acres do you own? (If you own more the one tract of land, include all land in the Virgin Isla	an nds.)			_	one 041	/1
2. How many acres do you rent from others? (Include acres worked on shares.)				Г	042	
(Include acres worked on shares.)				٠ ١	043	<u> </u>
3. How many acres do you operate for others as a hir	ed or salaried mar	nager?		[044	/1
4. How many acres do you rent to others?				[⊐ ב	/1
5. TOTAL ACRES IN THIS PLACE (Add items 1 and 2, subtr	act item 4; if managed	d. enter data fro	om item 3 here.) —		045	
	٥	53				
How many unpaid and paid farmhands (including and his family) worked on this place the last 12 m			Total farmhands	\$		
			150 d	ays	25 to 149	Less than
a. Of the unpaid farmhands (including the operato	er and unpaid		054	- 1	055	056
family workers), how many worked —			057		058	059
 b. Of the paid farmhands (hired workers and paid members of operator's family), how many work 	ked —			[336	
 What type of operating organization does this pla (If you are a manager, specify if working for an inc partnership, corporation, cooperative, estate, trus 	lividual,					
8. Is this holding producing mainly for		61				
home consumption or sale?			consumption — Go - Ask item 9	to sec	ction 3	
9. If producing mainly for sale, which of the followin		62 . U Vogot	able holding		s 🗌 Bout	try holding
, , , , , , , , , , , , , , , , , , , ,	5 • • • • • • • • • • • • • • • • • • •		nd forage crop hold	ling		erv holding
		_	nd nut holding		8 Mixe	d holding
		4 Dairy	•		9 🗌 Othe	er – Specify 📈
		5 🗌 Livest	ock holding			
ection 3 CROPS HARVESTED IN THE LAST 12 MOI	NTHS					
Include all crops harvested from July 1, 1987 to Ji by you or by someone else. Be sure to include the which were not harvested because of drought, lab	une 30, 1988 from landlord's share.	Do not inclu	de crops which we	ere a c	omplete fa	ilure or
acre, such as 1/10, 3/10, 1 – 5/10, etc.				-uu35	· mapore	Vi ali
Were any of these FORAGE crops	acres were acr	ow many es were for cutting?	How many acres were for grazing?	acres used f	many s were for both	What was the value of sales in the last 12
cultivated on this place in the last 12 months? None	(a)	(b)	(c)		(d)	months? (e)
1. Sugarcane		/10		066		067
2. Sorghum	690 88		070	071		072
07	i /10	1 /10	075 /10	76	/10	077
3. TOTAL	i /10	1 /10	/10		/10	

Form 87-A1(VI)

ı	on 3 CROPS HARVESTED IN THE LAS		MONTHS - CO	1.					
			v many ACRES harvested in the	How many POU were harvested i		How many were sold i			Vhat was the JE of sales in th
	Vere any of these FIELD CROPS parvested in the last 12 months?		t 12 months?	last 12 month		12 mo	nths?		st 12 months?
	None .	078	(a)	(b)		80 (c)		081	(d)
	Cassava	082	1 /10	083	0	84		085	
	Ory beans	086	/10	087		88		989	
	Ory corn	090	/10	091	- 10	92		093	
	iorghum for grain	094	/10	095	- 10	96		097	
	Sweetpotatoes	098	/10	099	1	00		101	
-	aniers	102	/10	103		04		105	
	′ams ⊔	106	/10	107		08		109	
11. C	Other field crops — Specify	į	£			-		!	
-			/10					<u> </u>	
				How many	ACRES	Wha	t was the	\neg	
	Vere any of these VEGETABLE CROPS			were harve			E of sales 12 month		
H	parvested in the last 12 months?		No	ne (a)			(b)		
12. (Cabbage			110		10			
13. (Carrots			112	1 /	10			
14. 0	elery] 114	1 1	10			
15. (Cucumbers			116	1 /	10			
16. E	ggplant			118	: /	10			
17. 6	ireen beans			120	! /	10			
18. L	ettuce			122	i	10 123			
19. C)kra		Г	124		10			
	Onions		<u>.</u>	126		10			
	eppers			128		129			
	eppers			J [1 /	10		- 1	
22 G	nin a ch		-	130	1	131			
	pinach			130	1	10			
23. S	quash]	1	10			
23. S				132	1	10			
23. S 24. T	quash		_	132		10 10 10 135			
23. S 24. T 25. C	iquash omatoes		_	132		10 10 135 10			
23. S 24. T 25. C • F 26. A	equash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants	on	[138		10 10 133 10 135 10			
23. S 24. T 25. C • F 26. A	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS	on	[138		10 10 133 10 135 10	item 39		Acres Tent
23. S 24. T 25. C • F 26. A	equash Comatoes Other vegetable crops — Specify RUITS AND NUTS Are there any fruit and nut trees or plants his place today or were any harvested in	on the la	st 12 months?	138 1	∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫ ∫	10 133 10 135 10 137 10 10 10 10 10 10 10 10 10 10 10 10 10	item 39	140	Acres Tent
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23. S 24. T 25. C • F 26. A tl	equash Comatoes Other vegetable crops — Specify RUITS AND NUTS Are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbeause any of the following kinds of	on the la	st 12 months? . uit trees and plac How many trees or plants are no	138 1 Yes 138 1 Yes How many trees or plants are of	∫ / / / / / / / / / / / / / / / / / / /	10 133 10 135 10 137 110 10 10 10 10 10 10		y were	
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23. S 24. T 25. C • F 26. A 11	equash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbea are any of the following kinds of RUIT TREES, NUT TREES, OR	on the la	st 12 months? . uit trees and place How many trees or plants are not of bearing age?	138 138 1 Yes nts today? How many trees or plants are of bearing age? (b) 142 Number	How harve last 1	10 133 10 10 137 110 10 10 10 10 10 10 10 10 10 10 10 10	How man sold in th 12 mon (d)	y were e last	What was the value of sales the last 12 months?
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23. S 24. T 25. C • F 26. A 11 27. H • A F P 8. A	equash Comatoes Other vegetable crops — Specify RUITS AND NUTS Are there any fruit and nut trees or plants his place today or were any harvested in How much land is in bearing and nonbea Are any of the following kinds of RUIT TREES, NUT TREES, OR PLANTS on this place?	on the la ring fr	st 12 months? . uit trees and plai How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills Numbe	138 138 1 Yes nts today?	How harve last 1	10 133 10 135 10 137 10 10 137 10 10 137 10 10 137 10 10 137 10 10 10 10 10 10 10 10 10 10 10 10 10	How man sold in the 12 month (d)	y were e last ths?	What was the value of sales the last 12 months?
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23. S 24. T 25. C • F 26. At 11. S 27. H • A F P P 88. A 89. B 80. C	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbea are any of the following kinds of RUIT TREES, NUT TREES, OR LANTS on this place? avocados conuts coconuts crapefruits imes and lemons	on the la	st 12 months? . uit trees and plai How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 156 Numbe 161 Numbe	138	How harve last 1.143.158.168.168	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds	How man sold in th 12 mon (d) 144 149 154 159 164 169	y were e last ths? Fruits Bunches Nuts Pounds	What was the value of sales the last 12 months? (e) 145 150 155
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23. S 24. T 25. C • F 26. A 10 27. H • A F P 8. A 9. B 9. C 1. G 22. L 3. N 4. O	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbea are any of the following kinds of RUIT TREES, NUT TREES, OR PLANTS on this place? Avocados Gananas Goconuts Grapefruits Granges	None	st 12 months? . uit trees and plant trees and plant trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 161 Numbe 166 Numbe 171 Numbe	138 138 138 1 Yes nts today? How many trees to or plants are of bearing age? (b) 142 Number 147 Hills 152 Number 162 Number 167 Number 172 Number 172 Number 172 Number 173 Number 174 Number 175 Number 177 Number 177	How harve last 1 143 153 168 173 178	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds Fruits Pounds Fruits Pounds	How mann sold in the 12 month of 12 month of 144 month of 154 month of 169 month of 174 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of 179 month of	y were e last ths? Fruits Bunches Nuts Pounds Pounds Fruits Pounds	What was the value of sales the last 12 months? (e) 145 150 166 166
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23. S 224. T 25. C • F 226. Att 27. H • A 29. B 30. C 31. G 32. L 33. N 34. O	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbeature any of the following kinds of RUIT TREES, NUT TREES, OR LANTS on this place? Evocados Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances	None	st 12 months? . uit trees and plai How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 166 Numbe 171 Numbe 176 Numbe 181 Numbe	138 136 138 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1 Yes 1	How harve last 1:143 153 158 169 173 178 183	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	How man sold in th 12 mon (d) 144 149 154 159 164 179 179 184 189	y were e last ths? Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	What was the value of sales the last 12 months? (e) 145 150 166 170 175
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23. S 24. T 25. C • F 26. At 11 27. H • A F F P 88. A B 99. B 10. C 11. G 12. L 13. N 14. O 15. P 16. P	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbeature any of the following kinds of RUIT TREES, NUT TREES, OR LANTS on this place? Evocados Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances Frances	None	st 12 months? uit trees and plant How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 161 Numbe 166 Numbe 171 Numbe 171 Numbe 176 Numbe 181 Numbe 186 Hills	138 138 138 138 1 Yes Ints today? How many trees or plants are of bearing age? (b) 142 Number 147 Hills 152 Number 162 Number 167 Number 172 Number 177 Number 177 Number 177 Number 177 Number 177 Number 187 Hills	How harve last 1:158 168 173 178 188	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	How many sold in the 12 mony (d) 144 149 154 155 168 174 179 184 189 189	y were e last ths? Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	What was the value of sales: the last 12 months? (e) 145 150 155 160 170 175 180 185
23. S 24. T 25. C • F 26. At 27. F • A F P 8. A 8. B 9. C 1. G 1. G 1. G 1. C 1. C 1. C 1. C 1. C 1. C 1. C 1. C	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in How much land is in bearing and nonbea are any of the following kinds of RUIT TREES, NUT TREES, OR LANTS on this place? Avocados Sananas Coconuts Grangefruits Granges Pranges Pranges Japayas Japayas Jantains	None	st 12 months? uit trees and plant How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 161 Numbe 166 Numbe 171 Numbe 171 Numbe 176 Numbe 181 Numbe 186 Hills	138 138 138 138 1 Yes Ints today? How many trees or plants are of bearing age? (b) 142 Number 147 Hills 152 Number 162 Number 167 Number 172 Number 177 Number 177 Number 177 Number 177 Number 177 Number 187 Hills	How harve last 1:158 168 173 178 188	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	How many sold in the 12 mony (d) 144 149 154 155 168 174 179 184 189 189	y were e last ths? Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	What was the value of sales: the last 12 months? (e) 145 150 155 160 170 175 180 185
23. S 24. T 25. C • F 26. At 1 27. H • AF P 8. A 8 9. C G 1. G 1. L 1. L 1. L 1. L 1. L 1. L 1.	iquash comatoes Other vegetable crops — Specify RUITS AND NUTS Are there any fruit and nut trees or plants his place today or were any harvested in low much land is in bearing and nonbeature any of the following kinds of RUIT TREES, NUT TREES, OR PLANTS on this place? EVOCADOS Sananas Coconuts Grapefruits Granges Jangues Jangues Jangues Jangues Jangues Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains Jantains	None	st 12 months? uit trees and plant How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 161 Numbe 166 Numbe 171 Numbe 171 Numbe 176 Numbe 181 Numbe 186 Hills 191	138 138 138 1 Yes Ints today? How many trees to or plants are of bearing age? (b) 142 Number 147 Hills 152 Number 162 Number 167 Number 177 Number 177 Number 177 Number 178 Number 178 Number 179 Number 171 Number 171 Number 171 Number 171 Number 172 Number 173 Number 174 Number 175 Number 177 Number 177 Number 177 Number 1787 Hills	How harve last 1:158 168 173 178 188	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds Fruits Pounds Fruits Pounds Bunches Bunches Bunches	How man sold in th 12 mon (d) 144 149 154 159 164 179 184 189 [194	y were e last ths? Fruits Bunches Nuts Pounds Pounds Pounds Boxes Bunches	What was the value of sales the last 12 months? (6) 145 150 155 160 170 175 180 190 195
23. S 24. T 25. C • F 26. At 1 27. F • A F P 28. A 80. C 32. L 333. N 86. P 86. iquash comatoes Other vegetable crops — Specify RUITS AND NUTS are there any fruit and nut trees or plants his place today or were any harvested in How much land is in bearing and nonbea are any of the following kinds of RUIT TREES, NUT TREES, OR LANTS on this place? Avocados Sananas Coconuts Grangefruits Granges Pranges Pranges Japayas Japayas Jantains	None	st 12 months? uit trees and plai How many trees or plants are not of bearing age? (a) 141 Numbe 146 Hills 151 Numbe 161 Numbe 161 Numbe 171 Numbe 176 Numbe 181 Numbe 181 Numbe 181 Numbe 181 Numbe 181 Numbe 181 Numbe 181 Numbe 181 Numbe 185 Hills	138 138 136 138 1	How harve last 1:158 168 173 178 188	much was sted in the 2 months? (c) Fruits Bunches Nuts Pounds Fruits Pounds Pounds Pounds Boxes	How man sold in the 12 mon (d) 144 149 154 159 164 174 179 184 189 194	y were e last ths? Fruits Bunches Nuts Pounds Pounds Pounds Boxes Bunches	What was the value of sales: the last 12 months? (e) 145 150 155 160 170 175 180 185	

Form 87-A1(VI)

Section 4 LAND USE IN THE LAST 12 MONTHS					
Land is to be reported in ONLY ONE CATEGORY. If two or more uses land, report in the FIRST category that applies.	wer	e made of the sam	e		
How many acres were in crops harvested in the last 12 months? (Can adding the acres of the various crops reported in section 3, items 1 through if more than one crop was harvested from the same land, count this land on	39.	However,	None	199	Acres /10
How many acres were in other cropland? (Include cropland pasture, a idle and fallow cropland, and cropland used for soil improvement cropland.)	crop	failure,	_	200	/10
How many acres were in other pasture or grazing land? (Include woo pasture; do not include cropland pasture.)				201	/10
4. How many acres were in woodland? (Do not include woodland pastu	re.)			202	/10
How many acres were in other uses? (Include house lots, barn lots, la ditches, ponds, and wasteland.)				203	/10
6. TOTAL LAND (Add entries in items 1 through 5. This total should equal the ea	ntry .	in section 2, item 5.)	→ □	204	/10
					Number
7. How many wells are on this place?			None	205	
Section 5 LIVESTOCK AND POULTRY ON THIS PLACE NOW AND NUM	_			He	<u>.</u>
LIVESTOCK AND POOLINT ON THIS FEACE NOW AND NOW	IDE		.51 12 MUN	пэ	,
Do you or anyone else have any of the following livestock,		How many are on this place now?	How many sold in the la months	st 12	What was the value of sales in the last 12 months?
regardless of ownership, on this place or were any sold from this place in the last 12 months?	lone	(a)	(b)		(c)
1. Horses and colts, including ponies		206	207		208
2. Mules, asses, and burros of all ages		209	210	•	211
3. Sheep and lambs of all ages		212	213		214
4. Goats and kids of all ages		215	216		217
5. Hogs and pigs of all ages, including sows and boars (Must equal sum of a and b below.) []		218	219		220
a. Pigs less than 8 months old [221	222		223
b. Hogs and pigs 8 months old or older [224	225		226
6. Cattle and calves of all ages (Must equal sum of a, b, c, and d below.)	\supset	227	228	-	229
a. Cows, including heifers that have calved [230	231		232
b. Heifers and heifer calves 1 year old or older (Do not include heifers that have calved.)		233	234		235
c. Bulls, bull calves, steers, and steer calves 1 year old or older		236	237		238
d. Calves less than 1 year old	\supset	239	240		241
Do you or anyone else have any of the following poultry, regardless of ownership, on this place or were any sold		How many are on this place now?	How many sold in the la months	st 12	What was the value of sales in the last 12 months?
nom and place in the last 12 months.	one	(a)	(b)		(c)
7. Chickens (hens, pullets, roosters, broilers, etc.)	_	245		********	
a. How many are 5 months old or older?	亅.	248	249		250
8. Turkeys, ducks, geese, and other poultry	┦.				
			Number so		What was the value of sales in the
			ļ	u	last 12 months?
O Name and design of shiples and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o		None	251 (a)		(b) 252
9. How many dozens of chicken eggs were sold from this place in the las		_	253	Dozens	254
10. How many quarts of milk were sold from this place in the last 12 mont Section 6 SELECTED EXPENDITURES IN THE LAST 12 MONTHS	hs?	<u></u>		Quarts	
			None		Dellara anti-
How much did you spend for each of the following in the last 12 month Nachine hire and customwork			None	255 \$	Dollars only
2. Wages and salaries paid to employees or hired farmworkers				256	
(Do not include housework or contract construction work. Include ca 3. Feed purchased for livestock and poultry (Include cost of grain, feed, of and roughages; also amount paid for grinding and mixing feed.)	one	entrates,	_	\$ 257	
				\$ 258	
4. Insecticides, fungicides, and herbicides			_	\$ 259	
5. Fertilizers and manure purchased				260	
6. Livestock and poultry purchased		. <u> </u>	<u></u>	\$	

Form 87-A1(VI)

Section 7 EQU	IPMENT AND FACILITIES USED ON THIS PLACE IN THE L	AST	12 MONTHS	<u> </u>
1. How many o	of the following are on this place? (Include all specified equi	pme	ent on this	Number
	regardless of ownership, provided it is in operating condition		Non	e Number
a. Tractors	of all kinds		📮	262
b. Motortru	cks			263
c. Automob	iles			263
2. Do you have	the following on this place?			
a. Electricit	y	264	, 🔲 Yes	2 No
b. Piped run	nning water	205	, [] Yes	2 No
Section 8 OPE	RATOR CHARACTERISTICS		<u></u>	
The following	ng questions are about the FARM OPERATOR.			
	n this place (the acres entered in section 2, item 5)?	266	ı 🗌 Yes	2 🗆 No
-	•	267		2 🗀 🕠
2. In what year	did you begin to operate this place?		Year	
3. Where were	you born?	268	1 Virgin Islands	₃ ☐ Elsewhere — Specify.
			2 Puerto Rico	s <u>— cisewhere</u> opechy.
		269		
4. How old we	re you on your last birthday?		Years old	
		270		
5. Is your main	occupation agricultural or nonagricultural?		3 Agricultural	2 Nonagricultural
e offere	VODY Have many days did the anamator word of house			
more off this	VORK — How many days did the operator work 4 hours or place in the last 12 months? Include work at a nonfarm	271		
	s, or on someone else's farm. (Exclude exchange farm		1	₄ ☐ 100—149 days ₅ ☐ 150—199 days
i worki,			2 ☐ 1 — 49 days 3 ☐ 50 — 99 days	6 200 days or more
Section 9 FNU	MERATOR'S RECORD			
!		272		
1. Who furnish	ed the information in this report?		1 Operator	4 Hired laborer
			2 Landlord 3 Wife or a member of	₅ ☐ Neighbor 6 ☐ Other — Specify _▽
			the operator's family	s □ Other = Specify ₹
2. Remarks (M	ake any remarks needed in regard to this place, the owner or oper	ator	, the crops cultivated, or the li	vestock on this place.)
			,	.,
-	·			<u> </u>
	4,500			
_ ,				
<u>-</u>				
	To Island	,	1.0	T- FD 1
3. Location	a. Island		b. Quarter or city	c. ED number
of land				!
	Enumerator's signature			Date
4. Certified by				1
	Supervisor's signature			Date
5. Checked by				
ORM 87-A1(VI) (8-11-86)	Page 4			

1990 Census of Agriculture for the Northern Mariana Islands, Report Form 90-A1(NM)

								<u>c</u>	OMB No. 0607-066	37: Approva	Expires 09/30/
	NOTICE	- Response t	to this inquiry is re	quired by law (ti	tle 13, U.S. BUREAU IS	Part A	- QUE	STIONN	AIRE IDENT	FICATIO	N
	CONFIDÉI uphold the	NTIAL. It may a confidentiali	be seen only by p	persons who have	e swom to only for	Island			L NUMBER	CENS	JS USE ONLY
] :	statistical	purposes. Yo	ur report CANNO or regulation.	T be used for pu	rposes of	number	ARA	Block	Map Spot		
FOR	м 90-А 1	I(NM)		U.S. DEPARTMENT	T OF COMMERCE AU OF THE CENSUS					<u> </u>	
1,10.	4-08)			50112	NO OF THE GENEGOS	Name of	island				
	199	D CENS	SUS OF A	GRICUL1	ΓURE	Municip	ality		·······		
		NODTHE	RN MARIAN			Part B	- OPER	ATOR'S	NAME AND F	HYSICA	LOCATION
		NONTHE	IN MARIAN	IA ISLANDS	•	Full nam	e (First na	ame, mid	dle initial, last na	me)	
\vdash			CENSUS USE O	NIV		Physical	Location	(Describ	e)		
035		036	037	038	039						
L				= -							
	being t	he average	NDENT — We time. If you had not been been been been been been been bee	estimate that ave any comm	it will take fr ents regardi	om 10 to ng these	20 minu estimate	tes to co s or any	omplete this rep other aspect of	ort, with the censu	15 minutes is, refer to
					INSTR	UCTION	8				•
	This se	e operator is	recording inform s associated wit			Repo	rt all land	rented, e ment, fer	ented or leased even though the l rtilizer, or other n	andlord ma	y have
	names	of all landlo	rds.			rente			ented TO OTHE h or a share of th		
	whether as heir spouse	er held under or trustee of	res owned — R r title, purchase f an undivided e eartnership, corp eporting.	contract or most	ortgage, or ind/or your	sum minu tract	of the acre s the acre s of land re	es owned s rented egardless	cres in this place d, plus acres rent TO OTHERS. This s of where locate operated by the p	ed FROM (is entry rep id in the No	OTHERS, resents all orthern
SE			D IN AGRIC	III TIIRE							
001		AM LAN	D IN AGRIC	OLIORE							
									None	Acre	es Tenth
١.									П	040	1
1.	now ma	iny acres d	lo you own? .				• • • • • • •			042	/1
2.	How ma	ny acres do	you rent FRO	M OTHERS?	(Include land (used rent	free)				/1
3.1	How ma	ny acres do	you rent TO C	THERS? (Inc.	lude land for w	rhich no r	ent is rece	nived)		044	/1
ı			IIS PLACE — Ac	dd acres owned en SUBTRACT	d (question 1) acres rented	and acres TO OTHE	rented (q	uestion 2	2),	045	
			er	nter the result i	n this space						1 /1
											_
					ļ	Name of	landlord		Acres	Tenths	-
(question	2) enter the						_		/10	
ľ	informati	on for each	landiord								
					-					/10	1
										/10	
							046			•	
			TRACTS or F he "Total acre						Number	of pieces	
			ucing mainly f				. { 2		e consumption - — ASK question		estion 9
			for sale, whic					☐ Mixe	stock and/or poul d holding	itry holding	ı
9.1	What pe	rcent of the	farm operation	on is financed	by each of th	e follow	4 Ing sourc	☐ Othe :es?		None 049	Percent
•	. Opera	tor								050	9
ì	. Privat	e								050	9
•	. Comm	ercial								□ 051 052	9
•	1. Gover	nment							• • • • • • • • • • • • • • • • • • • •	063	9
										1003	

SECTION 2 FIELD CROPS, MELONS, AND Did you hervest any FIELD CROPS, MELONS, o		_							1
VEGETABLES in 1989 — such as yams, sweetpotatoes, taro, etc.?	r None		low many a were harve in 1989	sted	pou	ow man	pound	many s were 1989?	What was the value of sales in 1989?
002 1 Yes — Complete this section		-	(a) Acres	Tenth		19897			(Dollars)
2 ☐ No — GO to section 3		060	Acies	1	061	(b)	082	<u>) </u>	063 (d)
1.Cassava		064		/1	065		066		\$ 087
2. Chinese cabbage				/1	- 1				\$
3. Corn		068			069		070		\$
3.Com	لسا	072		/1	073		074		075
4. Cucumbers		078		/1	077		078		\$ 079
5. Eggplant		070		/1	1		078		\$
A hadron (control control	П	080		1	081		082		083
6. Melons (exclude watermelons)	ш	084		/1	085		086		087
7. Sweetpotatoes		088		/1	089		090		\$ 091
8. Taro		088		/1	- 1		030		\$
O Wessersham		092	-	!	093		094		095
9. Watermelons	Ц	096		/1	097		098		\$ 099
10. Yams				/1					\$ 103
11.Other field crops and vegetables — Specify –		100		l I	101		102		103
, , , , , , , , , , , , , , , , , , ,				1					
			_	1 /1)				\$
SECTION 3 FRUITS AND NUTS	-								
Do you have any FRUIT and NUT trees or plants on this place — such as coconuts, bananas,				1			,		
mangoes, etc.? (Quantity harvested in 1989 and			iow many es or plant:		/hat qu	antity	What qu	antity	What was the value of sales
	None		re on this	w	as harv	rested	was s	old .	in 1989? (Dollars)
oos 1 ☐ Yes — Complete this section 2 ☐ No — GO to question 16			(a)		(b)		(c)		(d)
,		120		121	(2)		122		123
1. Avocados	ĻJ	124		125		Pounds	1 26	Pounds	127
2.Bananas			Cluste			Pounds		Pounds	\$
3. Beteinuts		128		129		Pounds	1 30	Pounds	\$
	_	132	-	133			134		135
4. Breadfruits	L	136		137		Pounds	1 38	Pounds	139
5. Coconuts						Pounds		Pounds	\$
6. Green oranges	П	140		141		Pounds	142	Pounds	\$
oralism stanges		144		145		rounus	146	rounus	147
7. Guavas		148		149		Pounds	150	Pounds	151
8. Lemons						Pounds		Pounds	\$
9. Limes		152		153		Pounds	154	Po	\$
V. Limida	_	156		157		rounds	1 58	Pounds	159
10. Mangoes		160		161		Pounds	162	Pounds	\$ 163
11. Papayas						Pounds		Pounds	\$
12. Pineapples	П	164		185		F	166	Fault	167
1 & of modificial		168		169		Fruits	170	Fruits	171
13. Starfruits		172		173		Pounds	174	Pounds	\$ 176
14. Tangerines		1/2		173		Pounds	1.75	Pounds	\$
15. Other fruits, outs, and tree crops (coffee		176	·	177			178		179
grapefruit, sweetsops, etc.) - Specify	_			-					
	Ц	L				Pounds		Pounds	\$
				r			·		l
					are feet		Acres [Tenths	What was the value of sales
		_	_	und	er cover		- I	1 CILLIS	in 1989? (Dollars)
 How many square feet under cover and/or acreplanted in ORNAMENTAL PLANTS or in any 	res dic other	you NUR	have BERY	197		198			189
CROP8?				1		1	1	/10	

Form 90-A1(NM)

Of the total acres in this place (section 1, question 4)	SECTION 4 LAND USE						
Of the total acres in this place (section 1, question 4) — 1.10-w many acres are in cropped and used for oil limprovement?	004			None	Ac	res	Tenths
## Annual control of the complement for plants of the pasture or graining land (include woodland pasture.	-			_			Tontal
and croplaind used for soil improvement? A How many series are in other pesture or grazing land? Include woodland pasture. Do not include croplaind pasture? A How many series are in other land? Include houselots, roads, woodland not pastured, wasteland, etc.) I A How many series are in other land? Include houselots, roads, woodland not pastured, wasteland, etc.) I A How many are are are in other land? Include houselots, roads, woodland not pastured, wasteland, etc.) I A How many are are are in other land? Include houselots, roads, woodland not pastured, wasteland, etc.) I A How many of the following livestock and/or poultry are on this place to day or were sold from this place in 1989? I A How many of the following livestock and/or poultry are on this place in 1989? I A How many of the following livestock and/or poultry are on this place in 1989? I A How many of the following livestock and/or poultry are on this place in 1989? I A How many of the following livestock and/or poultry are on this place in 1989? I A How many of the following livestock and/or poultry are on this place in 1989? I A How many of the following are on this place? I Include all pastured in 1989? I A How many quarts of milk were sold during 1989? I A How many quarts of milk were sold during 1989? I A How many quarts of milk were sold during 1989? I A How many quarts of milk were sold during 1989? I A How many quarts of milk were sold during 1989? I A How many quarts of milk were caught on this place in 1989? I A How many of the following are on this place? (Include all specified equipment on this place to investiging provided it is in opporting condition.) I A How many of the following are on this place? (Include all specified equipment on this place to ownership, provided it is in opporting condition.) I A How many of the following are on this place? I A How many of the following are on this place? I A How many of the following are on this place? I A How many of the following are on this place? I A How many of the				🗆	202		/10
3. Now many acres are in other pesture or grazing and include houselots, roads, woodland pesture. A. How many series are in other is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her is not her	and cropland used for soil improvement)?	e, idle (cropiano,	🗆	202		/10
A. How many acreases are to other leads (include nouselots, roads, woodland				🗆	203		/10
8. TOTAL LAND (Add entries in questions I through 4. Total should be equal to entry in section 1, question 4.) SECTION 5 LIVESTOCK AND POULTRY TOTAL CAND 1 LIVESTOCK AND POULTRY TOTAL CAND 4 LIVESTOCK AND POULTRY TOTAL CAND 4 LIVESTOCK AND POULTRY are on this piece today or were sold from this piece in 1989? All other cattle and calves of all ages (*Total of "a" and "b" below) B. All other cattle and calves of all ages (*Total of "a" and "b" below) C. Hops and pigs of all ages C. Hops and pigs of all ages C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Chickens C. Ch					204		
None How many of the following livestock and/or poultry are on this place today or ware sold from this place in 1989? (a) 1989? (b) 1989? (c) 1989? (c) 1989? (d) 1989? (d) 1989? (d) 1989? (d) 1989? (d) 1989? (d) 1989? (d) (d) 1989? (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d)				🗀	205		/10
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Nome many of the following livestock and/or poutry are on this place today? In year of the following livestock and/or poutry are on this place today or were sold from this place in 1989? 1. Total cattle and calves of all ages / Total of "a" and "b" below) a. Milk cows b. All other cattle and calves b. All other cattle and calves c. Hogs and pigs of all ages 3. Goats and kids of all ages 5. Other livestock — Specify 7 6. Chickens 6. Chickens 7. Other poutry (ducks, pigsons, guineas, geese, turkeys, etc.) — Specify 7 8. How many dozens of chicken eggs were sold during 1989? 8. How many quarts of milk were sold during 1989? 8. How many quarts of milk were sold during 1989? 9. How many pounds of fish were caught on this place in 1989? 1. How many of the following are on this place? (Include all specified equipment on this place today, regardless of ownership, provided it is in specified condition.) 1. How many of the following are on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place? 2. Do you have the following on this place?				,			
How many of the following livestock and/or poultry are on this place today? In 1989? (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (Rollars) (value	of sales
### Title place today or were sold from this place in 1989? 1. Total cattle and calves of all ages (*Total of **o* and **o* below)		None					
1. Total cattle and calves of all ages (*Total of "e" and "b" below).					<u>)</u>		2)
Of this total, how many are	1. Total cattle and calves of all ages (Total of "a" and "b" below)	. 🗆		<u> </u>		\$	
b. All other cattle and calves 260 261 95	Of this total, how many are —		257	258		259	
b. All other cattle and calves	a. Milk cows	. 🗆		-			
2. Hogs and pigs of all ages	b. All other cattle and calves	. 🗆	260	261			
3. Goats and kids of all ages 266 287 288 299 270 271 299 270 271 299 270 271 299 272 273 274 275 276 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277 277		_	263	264		ì	
4. Horses, mules, and cotts of all ages 270 271 5. Other livestock — Specify 7 272 273 274 6. Chickens 276 276 227 7. Other pouttry (ducks, pigeons, guineas, geese, turkeys, etc.) — Specify 7 278 278 279 280 8. How many dozens of chicken eggs were sold during 1989? 278 279 280 8. How many quarts of milk were sold during 1989? 200 200 200 9. How many quarts of milk were sold during 1989? 200 200 200 1. How many pounds of flah were caught on this place in 1989? 200 200 200 1. How many of the following are on this place? (include all specified equipment on this place today, regardless of ownership, provided it is in operating condition.) 318 200 318 200 2. Do you have the following on this place? 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 2	2. nogs and pigs of all ages	. ப	266	267			
4. Horses, mules, and cotts of all ages \$ 5. Other livestock — Specify 7 272 273 274 5. Chickens 275 276 277 6. Chickens 275 276 277 7. Other poultry (ducks, pigeons, guineas, geese, turkeys, etc.) — Specify 7 278 279 280	3. Goats and kids of all ages	. 🗆	269	270			
8. Chickens 275 276 277 277 278 278 279 278 279 278 279 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 279 278 278 279 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278 278	4. Horses, mules, and colts of all ages	. 🗆				\$	
6. Chickens 7. Other poultry (ducks, pigeons, guineas, geese, turkeys, etc.) — Specify 7 Value of sales in 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold during 19897 Chicken eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sold eggs were sol	5. Other livestock — Specify	_	272	273		274	
7. Other poultry (ducks, pigeons, guineas, geese, turkeys, etc.) — Specify 7 What was the department of the pigeons of chicken eggs were sold during 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989? 1989?			275	276		1	
None What was the quantity sold in 1989?		. 🗆	270	270			
None What was the quentity sold in 1989? (a) (b) (b) (c)	7. Other poultry (ducks, pigeons, guineas, geese, turkeys, etc.) — Specify 7		278	279		280	
None What was the quentity sold in 1989? (a) (b) (b) (c)						s	
None None Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company C							
None None Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company C						What	
8. How many dozens of chicken eggs were sold during 1989?			Mana	quantit	ty sold	value o	f sales
8. How many dozens of chicken eggs were sold during 1989?			None	in 19	9897		
9. How many quarts of milk were sold during 1989? None Total pounds Total pounds Sold (Dollars)))
9. How many quarts of milk were sold during 1989? Quarts \$ SECTION 6 FISHERY None None Total pounds Sold (Dollars) (a) (b) (c) 1. How many pounds of fish were caught on this place in 1989? SECTION 7 SELECTED EQUIPMENT AND SPECIFIED FACILITIES USED ON THIS PLACE 1. How many of the following are on this place? (Include all specified equipment on this place today, regardless of ownership, provided it is in operating condition.) None Number 315 a. Tractors of all kinds b. Motortrucks c. Automobiles 2. Do you have the following on this place? a. Electricity 1 Yes 2 No	8. How many dozens of chicken eggs were sold during 1989?			200	Dozens	l -	
None Total pounds Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Solid Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars Collars	9. How many quarts of milk were sold during 1989?			303	Quarts	1	
None Total pounds caught sold (Dollars) (ED) (Dollars) (ED) (ED) (ED) (ED) (ED) (ED) (ED) (ED	1.0.12.11					•	
None Caught Sold (Dollars)	UU O						
1. How many pounds of fish were caught on this place in 1989?		None					
1. How many pounds of fish were caught on this place in 1989?			(a)	(b		(c	
1. How many of the following are on this place? (Include all specified equipment on this place today, regardless of ownership, provided it is in operating condition.) a. Tractors of all kinds b. Motortrucks c. Automobiles 2. Do you have the following on this place? a. Electricity 318 1 Yes 2 No	1. How many pounds of fish were caught on this place in 1989?		306	308		307	
1. How many of the following are on this place? (Include all specified equipment on this place today, regardless of ownership, provided it is in operating condition.) a. Tractors of all kinds b. Motortrucks c. Automobiles 2. Do you have the following on this place? a. Electricity 318 1 Yes 2 No		ITIES	USED ON THIS	PLACI	E		
equipment on this place today, regardless of ownership, provided it is in operating condition.) a. Tractors of all kinds b. Motortrucks c. Automobiles 2. Do you have the following on this place? a. Electricity 318 1 Yes 2 No	007						
in operating condition.) a. Tractors of all kinds b. Motortrucks c. Automobiles 2. Do you have the following on this place? a. Electricity 318 1 Yes 2 No							
a. Tractors of all kinds					None	Nun	ber
b. Motortrucks	a. Tractors of all kinds				. 🗆	315	
2. Do you have the following on this place? a. Electricity					_	316	
2. Do you have the following on this place? a. Electricity	D. MOTOrtrucks			<i></i>	. —	317	
a. Electricity	c. Automobiles				. 🗆		
a. Electricity	2. Do you have the following on this place?						
	a. Electricity			2 🗆 N	lo		1
	b. Piped running water			2 🗆 N	lo		

Form 90-A1(NM)

CECTION				
SECTION 8	OPERATOR CHARACTERISTICS			
	i Land SARM OPERATOR			
The following	questions are about the FARM OPERATOR.			
1. Do you live	on this place? (The acres entered in	320	1 ☐ Yes	2 □ No
section 1,			1 L Yes	2 L No
2 1	ar did you begin to operate this place?	321	Year	
2. In what ye		322		
3. How old w	ere you on your last birthday?	322	Years old	
4. What is yo	our main occupation?	323	t 🗌 Agricultural	2 Nonagricultural
5.OFF-FARM	WORK — How many days did the operator 3	324	1 None	4 ☐ 100-149 days
	est 4 hours per day off this place in 1989?			5 150-199 days
	ork at a nonfarm job, business, or on someone . Exclude exchange farmwork.)			s ☐ 200 days or more
		_	<u> </u>	
SECTION 9	ENUMERATOR'S RECORD (To be comple	etec	i by the Census enumerato	or)
-	3	325/	1 Operator	4 D Hired laborer
1. Who furnis	shed the information in this report?	Į	2 Landlord	5 Other - Specify -
	·	1	3 Wife or member of the	5 Z Guilei Optiony
		`	operator's family	
2. Remarks /m	nake any remarks needed in regard to the place, the ov	wne	r or operator, the crops cultivate	ed.
	the livestock on this place.)	•••	or operator, the crops called	,,,
				-
-				
-				
	·· · · · · · · · · · · · · · · · · · ·			
				İ
				į
· •• ·	·			
Enumerator:	Ask at the completion of this questionnaire - "Besk	des	you, (the operator) does any	other person living
	in this household have 15 or more poultry (chicke (cattle, hogs, goats, etc.); a combined total of 10	908. 10 (, aucks, guiness, etc.); o or m more fruit or nut trees or nisn	its; or any crops or
	vegetables harvested for sale during 1989?"			
	If "No " END INTERVIEW			1
	If "No," END INTERVIEW			
	If "Yes," enter note in "Remarks" section and comp	plete	another Agriculture report form	•
3. Certified by	enumerator			331 Date
·				1
				1
4. Checked by	crew leader			332 Date
				1
				<u>i</u>

1990 Census of Agriculture for American Samoa, Report Form 90-A1(AS)

									OMB No. 060				res 09/30/9
1 (Code). By	the same la	to this inquiry is re w YOUR REPORT T	O THE CENSUS	BUREAU IS	Part A			AIRE IDE	NTI			
	CONFIDER uphold the	NTIAL. it ma confidentia	y be seen only by p lity of the census a	ersons who have and may be used	sworn to only for	County	FAR ARA	M SERIA Block	L NUMBER		CE	NSUS U	BE ONLY
l s	tatistical	purposes. Y	our report CANNO , or regulation.	T be used for pur	poses of	iluitibet	ARA	DIOCK	Map Spo	л	1		
FOR	4 90-A			J.S. DEPARTMENT	OF COMMERCE						<u> </u>		
(10-4	-891			ВОЛЕЯ		Island/D	istrict						
	199	O CEN	SUS OF A	GRICUL1	TURE	County							
		A	MERICAN SA	MOA		Part B	- OPER	ATOR'S	NAME AN	ND F	HYSI	CAL LO	CATION
		^	MERIVAN SA						dle initial, las	st na	me)		
		"	CENSUS USE O	NLY		Physical	location	(Describe)				
035		036	037	038	039								
<u> </u>				_		L							
	being t	he averag	ONDENT — We do not not not not not not not not not no	estimate that ive any comm	it will take fr ents regardi	om 10 to ng these	20 minu estimate	ites to co se or any	omplete this other aspec	rep ct of	ort, w	ith 15 m insus, re	inutes fer to
	٠	nal lac de			INSTR	UCTION	S ivate lar						
		nal lands and used in a	owner-like posses	sion for the ben	efit of the	_			ds, not held			ء معامورو ا	L_
	extend section the op- under b. Any la- reporte	ded family s n 1, question erator rather section 1, c nd used to weed as land re	hould be reported in 1. If the land is a pr than the extend question 2 on a se which title or right o inted FROM OTHER	as land owned used for the sole ed family, repor parate question f ownership is no IS under section	under e benefit of t the land naire. ot held, should l 1, question 2. [po na re: us	mmunal ultry are I me of the sponsible	system - kept, com person in for making	If crops we plete this agricharge. The g the decision f the family we have a second to the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we have the family we ha	re rai iculte perse ns.Th	ised or ure que on in ch ne perso	livestock stionnaire narge is th on in char	or in the e one ge will
		_	o rent is paid to the			3. Al	l other la	end					
•	used bland re though agricu	by a nonmer ented TO O h no rent is p Iture questi	n the title is held or mber of the extend IHERS under sect paid by the nonme connaire should be question 3 in the n	ded family, shou ion 1, question ember. In such c completed for t	ild be reported 3. Do this ever ases, a separa he lands repor	as Ex n ins te ke ted ins	periment stitutions pt, compl stitution.	tal farms, - If crop ete this ag Also, give	, schools, chos were raised priculture que the name of the sabove.	d or li stion	ivestoc inaire ir	k or poult the nam	
SE	CTION		ND IN AGRIC		U			pull	-,				
001			<u>~uni</u>	446					N	one		Acres	Tenths
	U-14+		da wan anna an -		ika naceses	7			1	П	040		/10
1.1	HOW MI	my acres	do you own or u	ise in owner-li	we bossessi	MT				نا	042		+ /10
			inel lands?						2 🗆 No				/10
2.	How ma	iny acres (do you rent FRO	M OTHERS?	(Include land	used rent					044		1 710
	Are the	se commu	ınai lands?				. "*3 1 🗆	Yes	2 No				/10
3.	How ma	any acres (do you rent TO (OTHERS? (Inc	lude land for	which no	rent is re	ceived) .			045		1 /10
4.	TOTAL A	ACRES IN T	HIS PLACE - A	DD acres owne	d (question 1	and acre	s rented	(question	2),		1		1
			th er	en SUBTRACT nter the result i	acres rented n this space.	TO OTHE	HS (ques	tion 3), a	nd	-	L		1 /10
							_41		1-1 1/5*	-1		A	1 =
_			DOM OTHERS		<u> </u>	lame of la	ndiord		Island/Dist	rict	 	Acres	Tenths
-	question	n 2) enter t	ROM OTHERS, he following										/10
i	nformat	ion for eac	ch landlord										1
											 		/10
1											L		/10
6.	How ma	iny separa	te TRACTS or F	PIECES of lan	d or plantation	ons	046						
•	are repr	esented in	the "Total acre	s in this place	7"			·	Num	nber	of piec	es	
			ducing mainly f				. { 1 2		e consumpti — <i>ASK ques</i>			o questio	n 9
							048	□ c	haldin-				
			ly for sale, whic				1	Mixe	rtock and/or d holding	poul	try hol	ding	
9.1	What pe	rcent of ti	ne farm operatio	on is financed	by each of ti	he follow	4) Ing sour	. □ Othe ces?	r	1	None [cent
	. Opera	tor										049	%
	-											050	
	o. Privat							• • • • • • •	• • • • • • • • •	• •	<u> </u>	061	%
•	. Comr	nercial					· · · · · · ·						%
	i. Gove	rnment										052	%
												053	

VEGETABLES in 1989 — such as cabbage, cassava, taro, yams, etc.?	None	How many a were harve in 1989	sted	What qu was har in 19	vested	What quantity was sold in 1989?	What was the value of sales in 1989?
1 Yes — Complete this section 2 No — GO to section 3		Acres	Tenths	(b)	١	(c)	(d)
		060		081		062	063
1.Cabbage		084	/10	065	Pounds	Pounds 086	067
2. Cassava			/10		Roots	Roots	\$
3. Corn		068	/10	089	Pounds	070 Pounds	\$
	_	072	!	073		074	075
4. Cucumbers	. Ц	076	/10	077	Pounds	Pounds 078	079
5. Giant taro		080	/10	081	Roots	Roots 082	\$ 083
8. Green beans			/10		Pounds	Pounds	\$
7. Melons (watermelons, honeydews, muskmelons, etc.)		084	/10	085	Pounds	086 Pounds	087
	_	088	1 /10	089		090	091
8.Sugarcane		092	/10	093	Pounds	Pounds 094	\$ 095
9.Taro			/10		Roots	Roots	\$
0.Yams		096	/10	097	Roots	098 Roots	099 \$
1. Other field crops and vegetables (keys	_	100	110	101	10018	102	103
sweetpotatoes, tobacco, etc.) - Specify 7			1				
			/10		Pounds	Pounds	\$
Do you have any FRUIT and NUT trees or plant							
pineapples, etc.? (Quantity harvested in 1989 a	end nu	mber of trees an	d plants	on enume	eration (day.)	
103 1 ☐ Yes — Complete this section		How many trees or plant are on this	. WI	nat quanti		What quantity	What was th
				s harvest	ed	was sold in 1989?	in 1989?
2 No - GO to question 14	None	piace?		in 1989? (b)	ed	was sold in 1989? (c)	in 1989? (Dollars) (d)
	None	(a)	121	(b)	unds 123	in 1989? (c) 2 Pounds	(Dollars) (d) 123 \$
2 No GO to question 14	None	place?	121	(b) Po	12:	in 1989? (c) 2 Pounds	(Dollars) (d)
2 ☐ No — <i>GO to question 14</i> 1.Avocados	None	(a)	121	(b) Po	unds 123	in 19897 (c) Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131
2 ☐ No — GO to question 14	None	piace? (a) 120 124 Clust	121 125 8r8	(b) Po	unds 120	in 1989? (c) Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$
2 ☐ No — <i>GO to question 14</i> 1.Avocados	None	place? (a) 120 124 Clust 128	121 125 978 129	(b) Po	unds 120 unds 130 unds 130 unds 134	In 1989? (c) 2 Pounds 6 Pounds O Pounds 4	(Dollars) (d) 123 \$ 127 \$ 131 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits	None	piace? (a) 120 124 Clust	121 125 ers 129	(b) Po Po Po Po	unds 120 unds 130 unds 130	In 1989? (c) 2 Pounds 6 Pounds O Pounds 4	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$
2 No — GO to question 14 1. Avocados 2. Benanas 3. Breadfruits 4. Cacao 5. Coconuts	None	place? (a) 120 124 Clust 128	121 125 978 129	(b) Po Po Po Po Po	unds 120 unds 130 unds 130 unds 138 unds 138 unds 142	In 1989? (c) Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ \$ 1127 \$ 131 \$ 135 \$ 138 \$ 143
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 3. Grapefruits		place? (a) 120 124 Clust 128 132	121 125 988 129 133	(b) Po Po Po Po Po Po	unds 134 unds 134 unds 134 unds 134 unds 144	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 139 \$ 143 \$ 147
2 No — GO to question 14 1. Avocados 2. Benanas 3. Breadfruits 4. Cacao 5. Coconuts	None	place? (a) 120 124 Clust 128 132 136	121 125 129 133 137	(b) Po Po Po Po Po Po	12: unds 13: unds 13: unds 13: unds 13: unds 14:	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$ 143 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 3. Grapefruits		place? (a) 120 124 Clust 128 132 136 140	121 125 125 129 133 137 141 145	Po Po Po Po	unds 134 unds 136 unds 136 unds 146 unds 146 unds 146 unds 156 unds 156	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 143 \$ 147 \$ 151 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 6. Grapefruits 7. Lemons		place? (a) 120 124 Clust 128 132 136	121 125 129 133 137 141	19897 (b)	unds 136 unds 136 unds 138 unds 142 unds 144 unds 146 unds 146	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$ 143 \$ 1443 \$ 151
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 6. Grapefruits 7. Lemons 3. Limes 9. Mangoes		place? (a) 120 124 Clust 128 132 136 140	121 125 125 129 133 137 141 145	Po Po Po Po Po Po Po Po Po Po Po Po Po P	unds 134 unds 136 unds 138 unds 148 unds 146 unds 156 unds 156 unds 156	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 135 \$ 143 \$ 144 \$ 155 \$ 155 \$ 159
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 8. Grapefruits 7. Lemons 3. Limes		place? (a) 120 124 Clust 128 132 136 140 144 148	121 125 978 129 133 137 141 146 149	Po Po Po Po Po Po Po Po Po Po Po Po Po P	unds 134 unds 134 unds 134 unds 144 unds 146 unds 156 unds 156 unds 156 unds 156 unds 156	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$ 143 \$ 1447 \$ 151 \$ 155 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 6. Grapefruits 7. Lemons 3. Limes 9. Mangoes		place? (a) 124 Clust 128 132 136 140 144 148 152 156	121 125 125 129 133 137 141 146 149 153 157	Po	unds 134 unds 144 unds 146 unds 146 unds 156 unds 166 unds 166 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168 unds 168	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 139 \$ 143 \$ 147 \$ 151 \$ 155 \$ 169 \$ 163 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 8. Grapefruits 7. Lemons 9. Mangoes 9. Oranges		place? (a) 120 124 Clust 128 132 136 140 144 148 152 156	121 125 129 133 137 141 146 149 153 157 161	19897	unds 134 unds 134 unds 144 unds 156 unds 156 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 und	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 135 \$ 143 \$ 1443 \$ 155 \$ 155 \$ 163 \$ 163 \$ 167 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 5. Grapefruits 7. Lemons 9. Mangoes 9. Oranges 1. Papayas 2. Pineapples 3. Other fruits, nuts, and tree crops (pandanus,		place? (a) 124 Clust 128 132 136 140 144 148 152 156	121 125 125 129 133 137 141 146 149 153 157	19897	unds 134 unds 136 unds 136 unds 144 unds 146 unds 156 unds 156 unds 156 unds 156 unds 156 unds 156 unds 156	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$ 143 \$ 147 \$ 151 \$ 155 \$ 165 \$ 167
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 6. Grapefruits 7. Lemons 9. Mangoes 9. Oranges 1. Papayas 2. Pineapples		place? (a) 120 124 Clust 128 132 136 140 144 148 152 156	121 125 129 133 137 141 146 149 153 157 161	19897	unds 134 unds 134 unds 144 unds 156 unds 156 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 und	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 135 \$ 143 \$ 1443 \$ 155 \$ 155 \$ 163 \$ 163 \$ 167 \$
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 5. Grapefruits 7. Lemons 9. Mangoes 9. Oranges 1. Papayas 2. Pineapples 3. Other fruits, nuts, and tree crops (pandanus,		place? (a) 120 124 Clust 128 132 136 140 144 148 152 156	121 125 129 133 137 141 146 149 153 157 161	19897	unds 134 unds 134 unds 144 unds 156 unds 156 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 unds 165 und	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$ 143 \$ 147 \$ 155 \$ 167 \$ 171
2 No — GO to question 14 1. Avocados 2. Bananas 3. Breadfruits 4. Cacao 5. Coconuts 5. Grapefruits 7. Lemons 9. Limes 9. Mangoes 9. Oranges 1. Papayas 2. Pineapples 9. Other fruits, nuts, and tree crops (pandanus,		place? (a) 120 124 Clust 128 132 136 140 144 148 152 156	121 125 129 133 137 141 146 149 153 157 161	19897	unds 130 unds 140 unds 150 unds 150 unds 150 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 unds 160 und	In 1989? (c) Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Fruits	(Dollars) (d) 123 \$ 127 \$ 131 \$ 135 \$ 138 \$ 143 \$ 147 \$ 151 \$ 165 \$ 167 \$ 187

Form 90-A1(AS)

SECTION 4 LAND USE						
Of the total acres in this place (section 1, question 4) —			None	Ac	res	Tenths
1. How many acres are in crops?			🗆 :	201		/10
2. How many acres are in other cropland (cropland pasture, crop failure	, idle c	ropland,		202		1 1
and cropland used for soil improvement)?			🗆	203		1 /10
3. How many acres are in other pasture or grazing land? (include woodlat Do not include cropland pasture.)			🗆			/10
4. How many acres are in other land? (include houselots, roads, woodland				204] i i
not pastured, wasteland, etc.}			⊔	205		/10
5.TOTAL LAND (Add entries in questions 1 through 4. Total should be equal to entry in section 1, question 4.)						/10
SECTION 5 LIVESTOCK AND POULTRY						
		How many	How	many		vas the
	None	are on this place today?	were in 19	sold	in 18	of sales 1897 (lars)
How many of the following livestock end/or poultry are on this place today or were sold from this place in 1989?		(a)	(b)	253	
1. Total cattle and calves of all ages (Total of "a" and "b" below)		254	255		\$	
Of this total, how many are —		254	255		256	;
a. Milk cows		257	258		\$ 259	
b. All other cattle and calves		260	261		\$ 262	
2. Hogs and pigs of all ages					\$	
3. Horses, mules, and colts of all ages		263	264		265 \$	
4. Other livestock — Specify 7		268	267		268	
- Security Wednesday 7					\$	
	_	269	270		271	
5. Chickens 6. Other poultry (ducks, pigeons, guineas,		272	273		\$ 274	
geese, etc.) — Specify						
				_	\$	
			What w		What w	res the
		None	quentiti in 19		In 18	
			(a)		(t)
7. How many dozens of chicken eggs were sold during 1989?			301		302 \$	
8. How many quarts of milk were sold during 1989?			303	Quarts	304	
SECTION 6 SELECTED EQUIPMENT AND SPECIFIED FACILI			S PLACE		•	
How many of the following are on this place? (Include all specified equipment on this place today, regardless of ownership, provided it is						
in operating condition.)				None	Num 315	ber
a. Tractors of all kinds	• • • •			. 🗆	316	
b. Motortrucks				. 🗆		
c. Automobiles				. 🗆	317	
				•		
2. Do you have the following on this place?	_					
a. Electricity		¹8 ¹□Yes	2 🗆 N	0		
b. Piped running water		¹9 1 ☐ Yes	2 🗆 N	o		
FORM 90-A1(ASI(10-4-89) Page 3	_					

The following questions are about the FARM OPERATOR. The following questions are about the FARM OPERATOR. 1. In what year did you begin to operate this place? 2. In what year did you begin to operate this place? 3. How old were you on your last birthdey? 3. How old were you on your last birthdey? 4. What is your main occupation? 5. OFF-FARM WORK — How many days did the operator work at least 4 hours par day off this place in 1989? 1. Who far it least 4 hours par day off this place in 1989? 1. Who farmathed the information in this report? 2. In what is a condamy plu, barrians, of on someone 3. OFF-FARM WORK — How many days did the operator work at least 4 hours par day off this place in 1989? 1. Who farmathed the information in this report? 2. In a condamy plu, barrians, of on someone 3. OFF-FARM WORK — How many days did the operator work at least 4 hours par day off this place in 1989? 2. In a condamy plus plus plus plus plus plus plus plus	SECTION 7			
1. Do you live on this place (the acres entered in section 1, question 47 year section 1, question 47 year section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 5, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the section 4, and the s		PERATOR CHARACTERISTICS		
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T. Who furnished the information in this report?	SECTION 8	NUMERATOR'S RECORD (To be comple	ted by the Census enumerat	or)
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plug seedlings section 7. SECTION 1 Were a	, prefinished pla				if more	space is neede	on Sheet for addit d, list additional p	olants on a sepai	
0001 1 ☐ YES — Comp 2 ☐ NO — Go to	lete part A below. section 2.								
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				Pr	ets 5 inches or over	4	s .0	6	
				- [anging baskets	8	\$.0	10	
Plant n	eme		Code		ets under 5 inches			1	
		7 /				4	.s0	6	
					ts 5 inches or over	8	\$	7.0	
Plant no	- me		Code		anging baskets	-	\$.0	2	9
T IBIT()	anc		Code] [ts under 5 inches	4	. s <u> 0</u>	9	-
] <u> </u>	ts 5 inches or over	8	<u></u>	2 .	
	. —			H	inging baskets		.00	2	
Plant no	ame	7 [Code	7	ts under 5 inches	4	·.·	D 6	
] P	ts 5 inches or over	8	.0.	<u>o </u> .	
				н	inging baskets	-	s0	2	
Plant na	ame		Code	Po	ts under 5 inches	4		o .	
				Po	ts 5 inches or over		s <u>.0</u>	<u>.</u> .	
				H	inging baskets	18	\$.0	o ^{l'}	<u>.</u>
LANT NAME (frican violet (Saintpaulia) .	CODE 0021	PLANT NAME Cyclemen		co		IE	CODE PLA	NT NAME	CO 02
nthurium	2642	Gerbera daisy*							

section 11. Repor	o 3. It by entering the plai flats, pots by size, h. It unfinished plant mi	anging baskets). Rep aterial (plug seedling	oort vegetable transplants fo s, cuttings, liners, tissue cu	or commercial tru	ck crop production	rpe in	
	ded, list additional p		heet. ''' — Report in 11'' X 22'')	flats or specify of	ther flat size –		_
			Type of container	Tot Number of	al sales	Wholesale Number of	sales only
				containers sold	Dollars only	containers sold	Dollars only
Plant name		Code	Flats		\$.00	6 7	
			Pots less than 5 inches	· ·	\$.00	10 11	
			Pots 5 inches or more	 -	\$.00	S 14	
			Hanging baskets	 	\$ 1.00	2 3	
Plant name		Code	Flats	-		6 7	
			Pots less than 5 inches	·	s00	10 11	
			Pots 5 inches or more		s (.00	14 15	·
			Hanging baskets		s .00	2 3	1
Plant name		Code	Flats		\$ 1.00	6 7	
			Pots less than 5 inches	6		10 11	
			Pots 5 inches or more		\$ 1.00	14 15	
			Hanging baskets		\$.00	2 3	i
Plant name		Code	Flats		\$.00	6 7	
			Pots less than 5 inches	8	s .00	10 1:	
			Pots 5 inches or more		\$.00	14 15	
			Hanging baskets		s .00	2 3	
Plant name		Code	Flats	4	\$.00	6 7	
			Pots less than 5 inches	1	s .00	10 :11	
-			Pots 5 inches or more		\$.00	14 15	
			Hanging baskets		s .00	\$ 2	
Plant name		Code	Fiats	1 :	\$.00	\$	
			Pots less than 5 inches		s .00	10 11	
			Pots 5 inches or more		s .00	\$ 14 15	i
			Hanging baskets	1	s .00	\$	
Plant name		Code	Flats		.00	3 \$	i
Tione name			Pots less than 5 inches	 -	\$.00		
			Pots 5 inches or more		.00	10 11	
			Hanging baskets		\$ 1.00	14 115	
Direct come		Cada	Flats		.00	2 3 \$	
Plant name		Code	Pots less than 5 inches	4	s	6 7	
			Pots 5 inches or more		s .00	10 11	1
		- 	Hanging baskets	i -	s .00	14 15	
			Flats		.00	2 3	
Plant name		Code	Pots less than 5 inches	4	.00	6 7 \$	
			Pots 5 inches or more	8 9	.00	10 11	: :
			Hanging baskets	12 1	3 .00	14 15	1
ANT NAME CODE eratum 0273 ryssum 0289 gonia 0305 rysanthemum, ardy/garden 0321 leus 0337 nithus 0363	PLANT NAME Dusty Miller Fuchsia Gazania Gazania Geranium, grown fro cuttings Geranium, grown fro seed or seedlings	0385 Impi 0401 Mari m Pani 0417 Pere m Petu	·········	Rose, potted g Salvia Snapdragon . Verbena Vinca (Cathara roseus)*	arden 0561 0577 0593	PLANT NAME — type bedding plan Broccoli, cabbage cauliflower, and other crucifers Pepper, sweet or I Tomato Other vegetable ty bedding plants	

					70	tal sales	Wholesa	le sales only
				Type of container	Number of containers sold	Dollars only	Number of containers sold	Dollars only
				Flats		\$ 1.00	2 3	\$
Plant name		Code	7	Pots less than 5 inches	4	\$.00	6 7	\$
				Pots 5 inches or more	8	\$.00	10 1	\$
					12	13 \$ 1.00	14	15
		_		Hanging baskets		1	2 3	3
Plant name		Code	\neg	Flats	4	\$ 1.00	6 7	\$ 1.0
				Pots less than 5 inches	8	\$ 1.00 9 !		\$ 1.0
				Pots 5 inches or more	12	13 1	14	\$.(
·				Hanging baskets	_	\$.00	2 3	s
Plant name		Code		Flats	4	\$.00	6 7	\$
				Pots less than 5 inches	8	\$.00	10	
				Pots 5 inches or more	12	\$.00		
				Hanging baskets		\$.00		\$
Plant name		Code		Flats		\$.00	2 3	1
Fiant name		Code		Pots less than 5 inches	4	\$.00	6	s
				Pots 5 inches or more	8	9 \$.00	10	\$
				Hanging baskets	12	\$.00	14	
				Flats		\$00	2	
Plant name		Code	\neg	Pots less than 5 inches	4	\$.00	6	
					8	9	10	
				Pots 5 inches or more	12	\$.00	14	
<u></u>				Hanging baskets		\$.00	2 .	1.1
Plant name		Code		Flats	4	\$ 1.00	6	
				Pots less than 5 inches		\$.00	10	1.1
				Pots 5 inches or more		\$.00	S 14	
				Hanging baskets	!	\$.00	3	3 1.0
Plant name		Code		Flats		\$.00	į, s	<u>.</u>
				Pots less than 5 inches		\$.00		
				Pots 5 inches or more		\$.00	10 s	. <u></u>
				Hanging baskets		\$.00	14	" :
				Flats		\$.00	2	
Plant name		Code	7	Pots less than 5 inches	4		6	
					8	,	10	<u></u>
				Pots 5 inches or more	12	\$.00	14	<u> </u>
				Hanging baskets		\$,00	2	
Plant name		Code	_	Flats	4	\$.00	<u> </u>	<u> </u>
				Pots less than 5 inches	8	.00	10	0
			_	Pots 5 inches or more		\$.00	14	<u> </u>
				Hanging baskets	- 1	s .00	2	
Plant name		Code		Flats	4	\$.00	, s	
				Pots less than 5 inches	i	.00		<u> </u>
				Pots 5 inches or more		.00	s	
				Hanging baskets	12	.00	14 5	
ANT NAME CODE peratum 0273 yssum 0289 gonia 0305 rysanthemum, 0321 leus 0337 anthus 0353	PLANT NAME Dusty Miller Fuchsia Gazania Geranium, grown from cuttings Geranium, grown from seed or seedlings	. 0386 . 0401 . 0417	Impatiens, Marigold Pansy Perennials Petunia	New Guines . 0449 other . 0465 . 0481 . 0497 , herbaceous . 0549 . 0549 . 0545	Rose, potted Salvia Snapdragon Verbena Vinca (Cathat	garden 0561 0577 0593	Other vegetable	ants COE ge, nd s

ert A — Complete this part by entering the plant name and code	from the list b	elow. Report the	number sold in 1	the unit				
specified in parenthèses for each plant type in the plant cultured plantlets, plug seedlings, etc.) in section 7. If i	list. Report un	finished plant ma	terial (cuttings,	liners, tissue	et.			
			Number of units	Dollars	only	Wholes Number of units	ale sales onl Dollars	
Plant name		Code	_	1	1	2	3	-
				\$.00		3	
Plant name		Code		1	1	2	3	
			!	\$.00		\$	
Plant name		Code		;	1	2	3	
				\$.00		s	
Plant name		Code		1		2	3	
				•	.00		. e	
Plant name		Code		1	.00	2	3	
			ĺ					
Plant name		Code		1	.00	2	3	_
			į					
Plant name		Code		1	.00	2	3	
riant name		Code	ļ					
				\$.00	2	\$	
Plant name	\neg \vdash	Code						
				\$.00		\$	_
Plant name		Code	ľ			•	,	
				\$.00		\$	
Plant name		Code		1		2	3	
·				\$.00		s	
Plant name		Code		1	!	2	3	_
					.00			
Plant name		Code		1	1.00	2	3	_
						ļ		
Plant name		Code		\$ 1	.00	2	3	
				1	1.00	2	3	
Plant name	一 	Code						
				\$.00		\$	
Plant name	-	Code				ļ	,	
				\$.00		\$	
Plant name		Code	İ	1		·	3	
				\$.00		s	
Plant name	— <u></u>	Code		1		'	3	
				\$.00		\$	
Plant name		Code		1	2		3	
				4	.00		4	
T NAME CODE PLANT NAME	CODE	PLANT NAME	<u></u> li	CODE		NAME — LEI FL	.OWERS	-
emeria (stems)	0761	Protea, sunburs cordifolium (bl	ooms)	0825	Carnatio	on, (heads) dendrobium (bi Vanda-Miss Joa		a
(blooms) 0729 Ginger and heliconia (blooms f Paradise/ Strelitzia (stems) 0733 Gladiolus (spikes) 0737 tion, standard* (blooms) 0737 Gyosophila (bunches)	0785	Protea, other (b Rose, hybrid tea Rose, sweethea	olooms)	0829 0833 0837	(bloom Pikake (is)		0
tion, ministure (bunches) 0741 Iris (blooms) Lisy (blooms) Lisy (blooms) Chid, cattleys (blooms)	0797	Spandregge ien	ikes)	0844	Plumeria Tuberos	(blooms) i flowers ~		Ö
enthemum, pompon Orchid, cymbidium (blooms)	0809 /s) 0813	Stock (stems) . Tulip (blooms)		0853	Specif	i flowers ~ 'y variety and ui	nit	0
ii/Narcissus (blooms) 0753 Orchid, oncidium (sprays) marguerite (blooms) 0757 Orchid, other** (blooms)	0817	Zinnia (blooms) Other cut flower		0861				

Part A — Complete this part by entering the plant name a specified in parentheses for each plant type in is needed, list additional plants on a separate si	he plant list. Include quantit	. Report the number sold in y grown and sold for expo	n the unit rt. If more spac	:e			
		T T	otal sales	$\neg \neg$	Wholes	ale sales only	
		Number of units	Dollars o	nly	Number of units	Dollars o	
Plant name	Cod	е	1	1 1	i	3	
				00			i
Plant name	Cod	le	1	.00	>	3	<u>;.o</u>
			1			İ	i
			ļ \$.00	,	3	0.1
Plant name	Cod	•					i
			s	.00	,	\$	1.0
Plant name	Cod	e					1
	}		i.s	.00		: : \$	ļ.o
Plant name	Cod	e	1.	2	,		1
			L		i	i .	:
Plant name	Cod	e	, s	1.00		3	 .c
- 101110				1			1
			<u> </u>	.00	,	\$	i.c
Plant name	Cod	e		1			
			\$.00		.5	
Plant name	Cod	e	•	1	<i>i</i>	i s	- :
				1 00		L	:
Plant name	Cod	e	-i *	1.00	,	15	- 1.0
T. Million				1			i i
2			; s	.00		. š	.0
Plant name	Coo	le					i
			s	.00		is .	<u>.</u> a
Plant name	Cod	e		2	,	ř.,	1
				.00			.0
Plant name	Cod	e	₹	2		\$	
				1			
20				.00		• .	
Plant name	Cod	•					:
			<u>s</u>	.00		. \$	<u></u>
Plant name	Cod	e	•				
			s	.00		s	.0
Plant name	Cod	e	+	7	- · · ·	† .	
							i
Plant ages			÷	.00		. .	
Plant name	Cod	e					i
			<u>.</u> s.	.00		. \$	1.0
Plant name	Cod	e	1	2			:
			: !\$.00		\$	
Plant name	Cod	e	7,	2			1 1
				;			1
Plant name	Cod		<u>s</u>	.00	····•	. .	- 0
							i i
			\$.00		\$ 1.	1
Plant name	Cod	<u>e</u>					
			s	.00	i	s	<u>.</u> .c
ANT NAME CODE PLANT NAME		LANT NAME	CODE	PLANT			COD
paragus (bunches) 0897 Cordyline/Ti (stems xwood (pounds) 0901 Hedera/lvy (vines) niferous greens (pounds) 0905 Hally (pounds)	0913 L	uckleberry/Salal (bunches) . eatherleaf ferns (bunches) regon/Sword ferns (bunches)	0921	Pittospo Smilax	rum (bunches) (strings) It cultivated flor		093 093

SECTION 5 Were there as	ny NURSERY PLANTS grown	for sale o	n this place in	19887	,	~				
1 YES - Complete part										
2 ☐ NO — Go to section	6.									
▶ Part A — Complete this part	by entering the plant name and coo	e from the	ist below. Repor	t the nur	nber of plant	s and value				
of sales for each pi cultured plantlets,	lant type that was grown for sale. R etc.) in section 7. Also, report plan	leport untini t material to	sned plant mater be grown on by	others a	s, cuttings, ti s prefini <mark>shed</mark>	ssue plant				
material in section	7. If more space is needed, list addi	itional plants	s on a separate s	neet.						
	· · · · · · · · · · · · · · · · · · ·				Tot	al sales	Т	Wholesal	le sales only	
					Number of plants	Dollars only		Number of plants	Dollars on	iy
					or plants	1 1	- 2	or prants	3	
Р	fant name	[Code	1		!				1
]	!	s	00	,		.00
P	lant name		Code			3 1	2		,	1 -
					ļ	i i				1
				<u>'</u>	···	\$ 1.0	00		<u> </u>	1.00
P	lant name	— [Code	۱ ۱			1		,	1
]		, !	00			1.00
	lant name		Code		ī	1 1	2		3	1.00
,]	1	!				į į
				1		\$	00		<u> </u>	.00
Р	lant name		Code	,	į	1 I	2	. [3	,	-
					1	1		Ì		1
				-		\$ 1.0	200		s	1.00
Р	fant name		Code	1	ļ	1	ľ			1
]	:	s !	00		s	.00
Р	lant name		Code			1	2	3	3	1
				1	!	i				1
				J		\$	00		5	.00
P	lant name		Code	,	ļ	1	2		3	i i
						1				i I
						\$ <u> . (</u>	20		3 	1.00
P	lant name		Code	1	!	i		ļ		
						s ! (00	:	\$.00
P	lant name		Code			1	2		3	1
]	į	1		;		1
		L	-]	+	s	00		\$.00
P	lant name		Code	1						j :
						s .	00		e	.00
р	lant name		Code			*	2		·	1.00
				1						1
<u></u>]		s ¦.(00		\$.00
PI	lant name		Code	,	1	· !	2		3	
					:			4		1
	iant name		Code	-		·	2	;	,	.00
	an name			1		!				1
<u> </u>			.]	į	\$	00		5	.00
DECIDUOUS CODE SHADE TREES	DECIDUOUS CODE FLOWERING TREES	BROAD-LE EVERGRE		CODE	OTHER ENVIRONME	CO:	DE	FRUIT AND N PLANTS	UT (CODE
Ash	Amelanchier	Euonymus	• • • • • • • • • • • • • • • • • • • •	1037	Deciduous sh (except rose	s) 10	B1	Citrus and sub fruit trees	1	1105
Linden	Crabapple	Pittosporu	m	1045	Roses	10i	86 89	Deciduous frui	1	1109
Pine oak 0961 Red maple 0965 Red oak 0969	Flowering cherry 1005 Flowering plum 1009 Golden rain 1013	Other broa	iron	1049	Other herbace (e.g., hostas	ous plants	93	Grapevines Small fruit plan (strawberry,	nts	1113
River birch	Redbud 1017	NARROW-		CODE	daylillies, iri Other environ	ses)* 101	87	Other fruit and	c.) 1 I nut	
Sweet gum	Saucer magnolia 1025 Other deciduous flowering	EVERGRE	ENS		Specify	110	01	trees - Spec	cify 1	1121
trees - Specify 0985	trees - Specify 1029	Pine		1061						
		Yew Other narro		1069						
A0	an a san	evergreer	ns - Specify	1073						
*Report flowering and vegetable bed	ding plants in section 2.									
								,		
Part B — How many of the n	ursery produced plants (ornamenta nell fruit plants) reported in part A al	l plants, frui bove were -	it and nut trees,		None	Number sold	otal	Sales	Wholesale s	ales
					_	1125	26	1 1	127	
Freid grown plants (bare root,	, balled and burlapped, balled and p	octed)			_ 1	1128 11	29	.00 \$	130	.00
2. Container grown plants						1131	32	.00	133	.00
3. Other - Specify						\$.00		.00
M 88 A19 1 (12 21-88)			Dana E				_			

art A — Complete this part by entering the plent name and code from the list sales for each plant type that was grown for sale. Report unfinished plant material in section 7. If more space is needed, list additional pi	t below, rieport the num plant material to be gro	ber of plants and wn on by others :	value of us prefinished		
plant meterial in section 7. If more space is needed, list additional pl		To	tal sales	Wholes	de sales only
	Type of container	Number of containers sold	Dollars only	Number of containers sold	Dollars only
	Pots under 4 inches		\$.00	2	\$
	Pots 4 to 7 inches		\$.00		7 I
Plant name Code	Pots 8 to 13 inches	8	\$.00		\$ I
	Pots 14 to 22 inches	12	\$.00	14	15 \$
	Pote over 22 inches	16	\$.00	1 1	19 \$
	Hanging backets under 8 inches	20	\$ 1.00		²³
	Heinging beekets 8 Inchès or more	24	\$.00	26	27
	Pots under 4 inches		\$.00	2	3
		•	5	6	7 1
	Pots 4 to 7 inches		\$.00 9	<u> </u>	\$ 11
Plant name Code	Pots 8 to 13 inches		\$.00		15
	Pots 14 to 22 inches	16	\$.00		\$ 1
	Pots over 22 inches	20	\$ 1.00		\$
	Hanging baskets under 8 inches	24	\$.00		\$ 1
	Henging baskets 8 inches or more		\$.00		5 3
	Pots under 4 inches		\$.00		\$ 1
	Pots 4 to 7 inches		\$.00		s !
Plant name Code	Pots 8 to 13 inches		\$.00		\$;
	Pots 14 to 22 inches	12	\$.00	1	15 ! \$
	Pots over 22 inches	16	\$.00	!	19 s
	Hanging baskets under 8 inches	20	\$.00		23
	Hanging baskets 8 inches or more	24	25	26	\$!
	 		, ,	2	3
	Pots under 4 inches	4	5 1.00	6	,
	Pots 4 to 7 inches		\$.00 	10	\$
Plant name Code	Pots 8 to 13 inches		\$.00	14	\$ 15 I
	Pots 14 to 22 inches		\$.00	18	\$ 19
	Pots over 22 inches		\$.00	22	\$ 1
	Hanging baskets under 8 inches		\$.00	26	\$
	Hanging baskets 8 inches or more		\$.00		\$
	Pots under 4 inches		\$.00		\$
	Pots 4 to 7 inches		\$.00		, ! ;
Plant name Code	Pots 8 to 13 inches		\$.00		\$
	Pots 14 to 22 inches	}	\$.00	14	\$
	Pots over 22 inches	1 i	\$ 1.00	18	9
	Hanging baskets under 8 inches	1	\$ 1.00		3
	Hanging baskets	24	25	26	, — · · · · · · · · · · · · · · · · · ·
	8 inches or more			2	:
	Pots under 4 inches	4		6	
	Pots 4 to 7 inches	8	\$ 1.00	10	· -
Plant name Code	Pots 8 to 13 inches	12	3 .00	14	;
	Pots 14 to 22 inches		s (.00	18	
	Pots over 22 inches		1	22	<u>.</u>
	Hanging baskets under 8 inches		s .00		
	Hanging baskets 8 inches or more		s .00	26	17
NAME CODE PLANT NAME CODE ema	PLANT NA	ME	CODE . 1358	PLANT NAME Spathiphyllum .	14

	Type of container	Number of	Dollars only	Number of	Dollars only
	Pots under 4 inches	containers sold	\$ 1.00	containers sold	3
		4	s .00	6	7
Plant name Code	Pots 4 to 7 inches	8	\$ 1.00	10	111
- I SAN THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE	Pots 8 to 13 inches	12	13		\$ 1.5
	Pots 14 to 22 inches	16	\$ 1.00	1	\$ 19
	Pots over 22 inches Hanging baskets under 8 inches	20	\$ 1.00 21 \$ 1.00	27	23
	Hanging baskets 8 inches or more	24	25	26	\$ 1.
			\$.00 \$.00		3 !
	Pots under 4 inches	4	5	1	7
Plant name Code	Pots 4 to 7 inches	8	\$.00 9 \$.00	10	5
, out take	Pota 8 to 13 inches	12	13	14	15
	Pots 14 to 22 inches	16	\$ 1.00		19
	Pots over 22 inches Hanging baskets	20	\$ 1.00	22	\$ j.
	under 8 inches Hanging baskets	24	\$.00	26	\$ 27
	8 inches or more		\$.00		3
	Pots under 4 inches	[[\$.00	6	7
	Pots 4 to 7 inches		\$ 1.00	1	11
Plant name Code	Pots 8 to 13 inches	!	s .00	14	\$ 1.
	Pots 14 to 22 inches	16	\$ 1.00	18	19
	Pots over 22 inches Hanging baskets under 8 inches		\$.00	1	\$ 1.
	Hanging baskets	24	\$.00	26	27
	8 inches or more		\$ 1.00	2	3
	Pots under 4 inches	4	\$ 1.00	6	7
	Pots 4 to 7 inches		\$ 1.00 9	10	5 1.
Plant name Code	Pots 8 to 13 inches	12	\$ 1.00	14	15
	Pots 14 to 22 inches		\$.00	18	\$ 19
	Pots over 22 inches Hanging baskets		\$.00	22	\$ 23
	under 8 inches Hanging baskets	24	\$.00	26	\$.
	8 inches or more		\$ 1.00	2	3
	Pots under 4 inches	4	\$.00	6	7
	Pots 4 to 7 inches		\$.00		\$ <u>i</u> .
Plant name Code	Pots 8 to 13 inches	12	\$.00	14	15
	Pots 14 to 22 inches		\$ 1.00	18	19
	Pots over 22 inches Hanging baskets		\$ 1.00	22	\$
	under 8 inches		\$.00		\$ 1.
	Hanging baskets 8 inches or more		\$ 1.00	2	3 1
	Pots under 4 inches		\$.00	6	5 1.
	Pots 4 to 7 inches	8	s .00	10	s .
Plant name Code	Pots 8 to 13 inches	12	s .00	14	\$
	Pots 14 to 22 inches		\$,00	18	\$ 19
	Pots over 22 inches	20	\$.00		\$ 1. \$
	Hanging baskets under 8 inches	24	\$ 1.00	26	\$ 1.
	Hanging baskets 8 inches or more		\$.00		\$
				DI ANIO	
NT NAME CODE PLANT NAME CODE onema 1134 Epipremnum (Pothos) 1.246 inad succulents 1162 Ferns 1.274 enbachia 1190 Ficus 1.302 200 1.302 1.302 1.302	PLANT NA		CODE . 1358 . 1386	Spathiphyllum Syngonium (Nep	CO

SECTION 7	cultured plan	FINISHED PLANT I tlets, prefinished play our own use.)	MATERIA ents, etc.)	LS (For grown	example, cuttings, l produced for sale of	iners, plug s n this place i	eedlings, tis n 1988? <i>(Ex</i>	sue ciude		
0007 1 YES	the value of sa	section by entering the eles by type of unfinishe prefinished plants. If m	d plant mate	erial. Also	o, report plant material s	old to others fo	or further			
2□ NO	- Go to section	8.								
					Type of unfinished	To	otal sales		Wholes	ale sales only
					plant material	Number sold	Dollars on	у	Number sold	Dollars only
					Cuttings		\$.00	2	\$.00
	Plant name		Code	·	Liners	8	\$.00		\$.00
					Plug seedlings	12	\$.00		\$.00
					Prefinished plants	16	\$.00		\$.00
					Tissue cultured plantlets		\$.00		\$.00
					Cuttings	4	\$.00	6	\$.00
	Plant name		Code	<u>. </u>	Liners	8	\$.00	10	\$ 1.00
					Plug seedlings	12	\$.00	14	\$.00
					Prefinished plants	16	\$.00	18	\$.00
					Tissue cultured plantlets		\$.00		\$.00
					Cuttings	4	\$.00	6	\$ 1.00
	Plant name		Code	' -	Liners		\$.00	10	\$ 1.00
					Plug seedlings		\$.00		s
					Prefinished plants	16	\$.00	18	\$.00
					Tissue cultured plantlets		s	.00		\$.00
					Cuttings	, 	\$.00		\$ 1.00
	Plant name		Code		Liners		s	.00		5
			L		Plug seedlings	12	\$.00		\$
					Prefinished plants	16	\$.00	18	\$.00
					Tissue cultured plantlets		s	.00		\$.00
					Cuttings		\$.00		\$ 1.00
	Plant name		Code		Liners		\$.00		\$ 1.00
<u> </u>					Plug seedlings		\$.00		\$.00
					Prefinished plants		\$.00	18	\$.00
				_	Tissue cultured plantlets		s	.00		\$.00
					Cuttings		\$.00		\$.00
	Plant name		Code		Liners	8	\$.00		\$ 1.00
					Plug seedlings	12	\$.00		\$ 1.00
					Prefinished plants	16	\$.00		\$.00
					Tissue cultured plantlets		\$.00		\$.00
					Cuttings	4	\$.00		\$.00
Γ	Plant name		Code		Liners	8	\$.00		\$ 1.00
			 		Plug seedlings	12	\$ 13	.00		\$ 1.00
					Prefinished plants	16	\$.00	18	\$.00
		<u></u>			Tissue cultured plantlets	Ĺ	\$.00		\$.00
PLANT NAME — I	Potted CODE	PLANT NAME — Beddir Garden	ng/ CODE	PLANT F	NAME - CODE	PLANT NA	ME — Nursery	CODE	PLANT NAMI	- Foliage CODE
African violet (Saintpaulia) Azalea Chrysanthemum Gerbera daisy Hibiscus Kalanchoe Lily Poinsettia Rose Other potted flows plants — Specify		Chrysanthemum, hardy/ garden Geranium from cuttings Geranium from seed or seedlings Impatiens, New Guinea Rose Other bedding/garden plants — Specify	1726 1746 1766 1786 1806	Carnation Carnation Chrysant Chrysant Gerbera Orchid, Orchid, Orchid, Rose, by Other cur	n, standard 1846 n, miniature 1866 hemum, standard 2654 hemum, pompon 1886 daisy 1906 cattleya 1926 cymbidium 1946 tother 1986 vestheart 2006 t flowers –	Citrus and z Deciduous 1 Deciduous 2 and nut tr Deciduous 2 Deciduous 3 Herbaceous Narrow-leat evergreens Roses Vines (lands	eesshade treesshrubsplants	2086 2088 2106 2126 2146 2168	Dieffenbachia Dracaena Epipremnum { Ferns Ficus Palms Philodendron Schefflera (Bra and/or Schei Spathiphyllum Syngonium (N	2266 2286 2306 Pothos) 2328 2346 2346 2386 2406 issaia filera) 2426 ephthytis) 2466
						Other nurse	ry lining- — Specify		Other foliage	ecify 2486

SECTION 8 Was SOD grown for sale on this place										
0008 1 YES - Complete this section.	B III 13001									
2 NO − Go to section 9.			Ac	res harve	sted	Val	ue of	gross Dolla	s sales in 1988 rs only)	
			Who 2506	ole acres	Tenths	Total			Wholesale sales	1
1. Sod grown for sale		<u></u>			/10	\$.00	ì	1.00
SECTION 9 Were any DRIED BULBS, CORMS, R USED FOR FORCING) grown for sale	HIZOMES, OI on this place	R TUBERS (1 in 1988?	TO BE							
			A	cres harv	ested	Val	ue of	gross	s sales in 1988	
ooos 1 YES — Complete this section. Report finished form in appropriate sections 1 and/or 3.	ea proaucts		Who	ole acres	Tenths	Total		Jonai	rs only) Wholesale sales	
2 NO - Go to section 10.			2509		1	2510	!		2511	!
1. Dried bulbs, corms, rhizomes, or tubers grown for sale SECTION 10 Were any CULTIVATED MUSHROO	MS grown for				/10	\$.00	\$.00
this place in 1988? - See information	on sheet.		-1			Val			s sales in 1988	
2 NO — Go to section 11.	l	Pounds produced			area re feet)	Val	(l	Dolla	rs only)	
		7512	2'	513		Tota			Wholesale sales	ī
1. Cultivated mushrooms						\$.00	\$.00
SECTION 11 Were any GREENHOUSE PRODUCE TRUCK CROP PRODUCTION OR VE	D VEGETABL GETABLE SE	ES, VEGETA EDS grown/	NBLE T	RANSI	PLANTS sale on ti	FOR COMM! ils place in 1	RCI 887	AL		
oo11 1 YES — Complete parts A, B, and C below. Report 2 NO — Go to section 12.	bedding vegetab	le plants in sec	tion 2.							
Part A GREENHOUSE PRODUCED VEGETABLES										
Enter the information below. Report bedding vegetable plants in section 2. If more spece is needed, list additional plants on a separate	•									
sheet.	Sauara	feet under glass	or other			Value of	gross Dolla	s sale	es in 1988	•
□None	prot	ection used in 1	988			Total			Wholesale sales	
1. Cucumbers.	2516				2517 \$.00	2518 \$.00
2. Lettuce	2519			•	2520		.00	2521 \$		1.00
3. Peppers	2522				2523		.00	2524 \$.00
4. Tomatoes	2525				2526		.00	2527 \$.00
Other greenhouse produced vegetables — Specify	2528				2529		.00	2530		1.00
				··· -	\$.00	\$.00
Part B — VEGETABLE TRANSPLANTS FOR COMMERCIAL TRUCK CROP	-				1	<u> </u>				
PRODUCTION — Enter the information below. Report bedding vegetable plants in section 2. If more space is needed, list	Ar	ea used in 198				Value of	Dolla	s sale	is in 1988 (ly)	
additional plants on a separate sheet.	Square feet und glass or other protection	ei	s in the c		1	Total			Wholesale sales	
None	2531	Whole a		Tenths	2533			2534		1
1. Broccoli, cabbage, cauliflower, and other crucifers	2535	2536		/10	\$ 2537		.00	\$ 2538		1.00
2. Peppers, sweet or hot	2539	2540		/10	\$ 2541		.00	\$ 2542		.00
Tomatoes Other vegetable transplants for commercial truck crop	2543	2544		/10	\$ 2545		.00	\$ 2546		.00
production — Specify 7				: {						i !
				/10	\$.00	\$	s in 1988	.00
			.0			Value of	gross	sale		
Part C — VEGETABLE SEEDS — Enter the information below.		ea used in 198		ppen		Value of	gross Dollai	sale s on	ly)	
Part C - VEGETABLE SEEDS - Enter the information below.	Square feet und glass or other protection	er Acres	in the o	ppen Tenths		Value of	gross Dollai	sale	Wholesale sales	
information below.	Square feet und	er Acres	in the o	· · · ·	2549	Total	Dollai	2550	ly)	.00
information below. ☐ None	Square feet und glass or other protection 2547	Whole a	s in the c	Tenths	1	Total	.00	2550 \$	Wholesate sales	.00
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced on 2 1 YES - Complete this section.	Square feet und glass or other protection 2547	Whole a	s in the cores	Tenths /10	\$ ion	Total	.00	2550 \$	ly)	100
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced	Square feet und glass or other protection 2547 for sale on th Acres 9 Whole acres	Whole a 2548 is place in 15	s in the cocres	Tenths /10	\$ ion	Total Vai	.00	2550 \$	Wholesale sales s sales in 1988 s only) Wholesale sales	
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced Only 1 YES — Complete this section. 2 NO — Go to section 13.	Square feet und glass or other protection 2547 for sale on th Acres (Whole acre: 2551	Whole a 2548 is place in 15	988? (Pour	Tenths /10	\$ ion	Total Val Total 7553	.00	2550 \$	Wholesale sales s sales in 1988 rs only) Wholesale sales 2554	
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced oning 1 YES — Complete this section. 2 NO — Go to section 13.	Square feet und glass or other protection 2547 for sale on th Acres : Whole acre: 2551	Whole a 2548 is place in 19 grown	988? (Pour 2552	Tenths /10	\$ ion	Total Val Total 7553 \$ 2557 \$.00	2550 \$ gross	Wholesate sales S sales in 1988 S only Wholesele sales 2554 \$ 2558 \$	
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced Only 1 YES — Complete this section. 2 NO — Go to section 13. None 1. Alyssum	Square feet und glass or other protection 2547 for sale on th Acres (Whole acre: 2551 2555	whole a 2548 is place in 1: grown Tenths	988? (Pour 2552 2556 2560	Tenths /10	\$ ion	Val Total Val 2553 \$ 2557 \$ 2561 \$.00	2550 \$ gross Dollar	Wholesale sales S sales in 1988 S only) Wholesale sales 2554 \$ 2558 \$ 2558 \$.00
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced one one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the produced one of the pr	Square feet und glass or other protection 2547 for sale on the Acres (Whole acre: 2551 2555 2559	whole a 2548 is place in 19 grown s Tenths //10	9887 (Pour 2552 2566 2564	Tenths /10	\$ ion	Total Val Total 7553 \$ 2557 \$ \$ 22561 \$ \$.00	2550 \$ gross Oollar	Wholesale sales s sales in 1988 s only) Wholesale sales 2554 \$ 2556 \$ 2566 \$.00.
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced oniz 1 YES — Complete this section. 2 NO — Go to section 13. None 1. Alyssum 2. Delphinium	Square feet und glass or other protection 2547 for sale on th Acres (Whole acres 2551 2559 2563 2567	er Acres Whole a 2548 is place in 1: grown 5 Tenths /10 /10	988? (Pour 2552 2566 2564 2568	Tenths /10	\$ ion	Total Val Total 2553 \$ 2257 \$ 22561 \$ 2265 \$ 22659 \$ \$.00	2550 \$ \$.00	Wholesale sales S sales in 1988 (S only) Wholesale sales 2554 \$ 2558 \$ 2566 \$ 2570 \$ \$	00.1
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced oo12 1 YES - Complete this section. 2 NO - Go to section 13. None 1. Alyssum	Square feet und glass or other protection 2547 for sale on th Acres (255) 2559 2563 2567	er Acree Whole a 2548 is place in 1: grown 5 Tenths	9887 (Pour 2552 2566 2564	Tenths /10	\$ ion	Total Val Total 2553 \$ 2557 \$ 2561 \$ 2266 \$ 22669	.00	2550 \$ 2550 \$.00	Wholesale sales s sales in 1988 s only) Wholesale sales 2554 \$ 2558 \$ 2562 \$ 2570 \$ 2574	.00
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced Onl2 1 YES — Complete this section. 2 NO — Go to section 13. None 1. Alyssum 2. Delphinium 3. Marigold 4. Nasturtium 5. Petunia	Square feet und glass or other protection 2547 for sale on th Acres (Whole acres 2551 2559 2563 2567	er Acre: Whole a 2548 is place in 1: grown 5 Tenths	988? (Pour 2552 2566 2564 2568	Tenths /10	\$ ion	Total Val 2953 \$ 2957 \$ 2956 \$ 2366 \$ 2369 \$ 2577	.00	2550 \$ 2550 \$ 2550 000 000 000 000 000 000 000 000 000	Wholesale sales s sales in 1988 s only) Wholesale sales 2554 \$ \$ 2558 \$ 2566 \$ 2570 \$ 2570 \$ 2578	.00
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced oo12 1 YES — Complete this section. 2 NO — Go to section 13. None 1. Alyssum 2. Delphinium 3. Merigold 4. Nasturtium 5. Petunia 6. Stock 7. Sweet pea	Square feet und glass or other protection 2547 for sale on th Acres (255) 2559 2563 2567	er Acree Whole a 2548 is place in 19 grown s Tenths /10 /10 /10 /10 /10 /10 /10	9887 (Pour 2552 2566 2564 2568 2572	Tenths /10	\$ ion	Total Val Total 2553 \$ 2557 \$ 22561 \$ 22565 \$ 22569 \$ 22573 \$ 22573 \$ 22577 \$ 22577	.00	2550 \$ 2550 \$.00 .00 .00	Wholesale sales s sales in 1988 s only) Wholesale sales 2554 \$ 2558 \$ 2566 \$ 2570 \$ 2574 \$ 22574 \$ 22578 \$ 22578 \$ 22578	.00
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced one of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the produced section of the pr	Square feet und glass or other protection 2547 for sale on the Acres (Whole acre: 2551 2555 2563 2567 2571	er Acre: Whole a 2548 is place in 1: grown 5 Tenths	s in the cores (Pour 2552 2556 2564 2568 2572	Tenths /10	\$ ion	Total Val Total 2553 \$ 2957 \$ 2961 \$ 2569 \$ 2577 \$ \$.00	2550 \$ gross Oollar .00 .00	Wholesale sales s sales in 1988 s only) Wholesale sales 2554 \$ 2558 \$ 2566 \$ 2570 \$ 2574 \$ 22574 \$ 22578 \$ 22578 \$ 22578	.00
Information below. None 1. Vegetable seeds SECTION 12 Were any FLOWER SEEDS produced oo12 1 YES - Complete this section. 2 No - Go to section 13. None 1. Alyssum	Square feet und glass or other protection 2547 for sale on th Acres (er Acree Whole a 2548 is place in 19 grown s Tenths /10 /10 /10 /10 /10 /10 /10	s in the cores (Pour 2552 2556 2564 2572 2576 2580	Tenths /10	\$ ion	Total Val Total 2553 \$ 2557 \$ 2561 \$ 22565 \$ 22569 \$ 22577 \$ \$ 22581 \$.00	2550 \$ 2550 \$.00 .00 .00	Wholesale sales s sales in 1988 s only) Wholesale sales 2554 \$ 2556 \$ 2570 \$ 2570 \$ 2574 \$ 22574 \$ 22576 \$ 22574	.00

SECTION 13 LAND, STRUC	CTURES, EQUIPMI	ENT, AND IRRIGA	TION		_		
1. What is your best estimate of the	e current market value	of land and buildings o	wned and/or			2587	ellars only
rented by this business on Decer 2. What is the estimated market va	mber 31, 1988?					\$ 2588	.00
place and used for the horticultu 3. Did you have land area covered by	ural operations?					\$.00
2589 1 YES — Complete items	. =		nclude aisles, walkway	s, etc.).	None	So	uare feet
2 □ NO — Go to item 4 be					_	2590	Out test
a. How much of the greenhouse	area was under glass?					2591	
b. How much of the greenhouse	area was under fiberg	lass and other rigid pla	estic covers?			2676	
c. How much of the greenhouse	area was covered by p	lastic film (single or do	uble cover) or other ma	aterials?		2593	
d. TOTAL LAND AREA COVE	RED BY GREENHOUS	SES — Should equal :	the sum of a + b + c		🗆	<u></u>	
						2594	uare feet
e. How much of the greenhouse	area was new greenho	use space erected duri	ng 1988?		🗆	L	
4. Did you produce potted flowering cultivated florist greens, nursery	g plants, bedding/garde plants, or foliage plants	en plants, cut flowers, on 1988?	cut				
2595 1 YES - Complete items							
2 □ NO — Go to item 7 be	low.						
Report area for each horticultural 1,000 square feet, report 1,000	square feet in the "bed	lding/garden plants'' ci	ategory. If 500 square	feet of potted flowering	2		
plants were also grown in the sai in the "bedding/garden plants" o		pare reet in the potted	triowering plants cat	egory and 1,000 squar	e reet		
	D-11-1 (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Bedding/garden		Cut	Nursery	crops	
	Potted flowering plants	plants (Include vegetable type bedding plants.)	Cut flowers	cultivated florist greens	(Inclu propagatin	de	Foliage plants
	2596	2597	2598	2599	2600	2601	
a. How much greenhouse space			•			:	
in 1988 was used for the production of	Sq ft.	Sq. ft.	. Sq. ft.	Sq. ft.	260b	Sq. ft	5q r
b. How much land covered by shade structures (frames,			,				
cloth, lath, saran, etc.) was used in 1988 for the production of							
production of	Sq. ft. Whole acres Tenths	Sq. ft. Whole acres Tenths	Whole acres Tenths	Sq. ft Whole acres Tenths	Whole acres		hole acres Tenths
c. How much natural shade area	2608	2609	2610	2611	1 2612	2613	
(i.e., palm, citrus, etc.) was used in 1988 for the	/10	/10	.10	;		10	1.0
production of	2614	2615	2616	2617	1261H	+ - 10	
were used in 1988 for the outdoor production of							
(excluding land covered by natural shade or shade structures)	/10	/10		, /10	i	,10	. 10
		1	1		-		
5. Did you irrigate land in 1988? (Ex		greenhouses.)					
2620 1 ☐ YES — Complete items 2 ☐ NO — Go to section 1					N	one Ac	res irrigated
a. How many acres were irrigate	d for the outdoor prod	uction of nursery plant	s?			2622	10
b. How many acres were irrigate	ed for the outdoor prod	luction of sod?					10
c. How many acres were irrigate					1	2623	10
SECTION 14 SALES IN 198 book figures a	8 — Report figures re not available, git						•
1. What were your gross sales durin	g 1988 of all greenhou	se plants, outdoor-gro	wn floricultural plants,	and nursery	No		Pollars only
plants grown — potted flowering foliage plants, unfinished, prefini- truck crop production, vegetable	shed, and starter florist	plants, greenhouse ve	egetables, vegetable tra	ansplants for commerci	al	2624	-
Do not include the sale of fertilize						\$ 2625	.00
2. Of the total gross sales — a. How much was wholesale sale	ns?				ſ]] s	.00
b. How much was retail sales? .						2626	.00
						2627	-
3. What were your returns and allow SECTION 15 SELECTED PRO	DUCTION EXPENS	ES FOR THE TOTA	L HORTICULTURA	LOPERATION IN 19	88 – Repor		1.00
figures to the n	earest WHOLE DOL	LAR. If book figures	are not available, g	ive your best estima		one D	ollars only
What was the cost of plants, seed activity during 1988? (Include co	ds, bulbs, and florist an	d nursery stock purcha	ased and used in the pro	oduction		2628	.00
Source, Saining 19991 (INCHESE CO	vvamovin spawi				· · · · · · · · [\$ 2629	
2. What was the cost of commercia	l fertilizer (all forms) us	ed in 1988? (Exclude)	purchases for resale.) .	• • • • • • • • • • • • • • • • • • • •	[\$ 2630	.00.
3. What was the cost of all other age herbicides, fungicides, other pest	ricultural chemicals pur icides, etc.) during 198	chased for use în prodi 38? (Exclude fertilizer a	uction activity (insection and lime.)	cides,	[\$.00
4. What was the cost of energy (nat operation in 1988? (Include all he	ural gas, electricity, ga	soline, gasohol, diesel	fuel, LP gas, etc.) used	for the horticultural pro	oduction	\$.00
Operation in 1988 (Include all ne-	and cooling cost.	LAVIOUS HEST OF SH CON	Page 11	so, retail outlets, etc.) .		_ *	1.00

THIS PLACE	E, NURSERY, AND O' IN 1988 — Exclude en , garden center clerk	THER HORTICULTURAL LABOR US aployees not directly involved in gra	BED ON wing Nor	Number of employees	Gross wages (Dollars onl	paid y)
What was the total of the gross of compensation, insurance pramiti	wages paid, including emp	loyer's cost for social security, workman's or this business during 1988?			,	.00
2. Of the hired workers in 1988, ho	ow many were			2633	2634	.00
	•		_	2635	2636	1.00
		TION AND LOCATION OF GROWI			\$.00
Type of ownership — Mark (X) to						
2637 1 ☐ Individual proprietor	2☐ Partnersh	ip ₃☐ Corporation	4□ Othe	ar - Specify		
, and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	1=1011010					
2. Location of growing operation(s) — Give the county location	on of the growing operation(s) included in ti	his report form.			
		County		Percent of sales]	
	Principal county		263	8		
	(263	9		
	Other counties		284	0		
	(264	1	1	
SECTION 19					-	
of norticulture	ND EXPLANATIONS - al enterprise, if any, yo	- If you reported no sales in section u operated in 1988. Also add any o	s 1 through 12 ther remarks h	!, please explain ere. Use additio	here the type nai sheet(s),	
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SECTION 19 PERSON COM Name	IPLETING THIS REPO	RT — Please print.			ate	
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FORM 88-A19.1 (I)

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

INFORMATION SHEET 1988 CENSUS OF HORTICULTURAL SPECIALTIES

1. General

A horticultural establishment is an operation growing and selling horticultural products (greenhouse products, outdoor-grown floricultural products, nursery products, mushrooms, and/or sod)

Refer to the instructions below for completing your report form. The enclosed census report form is being used by producers and growers throughout the United States. Because it is meant for use in all parts of the country, it may contain sections and inquiries which do not apply to you. In this case, mark the "No" or "None" box and go on to the next item or section.

If you did not operate a horticultural operation or all of your facilities were idle in 1988, briefly explain your situation in section 18 and complete section 19.

2. If You Receive More Than One Report Form

2. If You Receive More Than One Report Form If you had multiple horticulture operations, you should complete a report form for each separate and distinct production unit, i.e., each individual greenhouse, nursery, etc., or combinations of establishments, etc., for which you maintained separate records of operating expenses, sales, inventories, and production. Return any duplicate or extra report forms in the same envelope with the report(s) you complete so we can remove the extra addresses from our mail list. In the area of the address label of the report form you complete, write the 11-digit Census File Number (CFN) from the label of the extra report form(s). label of the extra report form(s).

3. Partnership Operations

A partnership is an association of two or more persons who have agreed, informally or under legal contract, on the amount of their contributions and profit distributions.

Complete only ONE report form for a partnership operation, including all partners' shares on the same report form. If two or more report forms were received for the partnership, see instruction 2 above.

Partners who also had separate operations of their own should complete report forms for those separate operations. For definition of a partnership, see the instructions for section 17.

4. How To Enter Your Responses On The Report Form

Please enter your answers in the proper spaces and in the units requested, i.e., dollars, pot size, pounds, etc. Write any explanations outside the answer spaces or on a separate sheet of paper. Enter whole numbers unless the "Tenths" column is provided, such as reporting acres of flower seeds in section 12. If you have 1/2 of an acre, convert to the nearest tenths. For example, convert 1/2 to 5/10.

If you do not have exact figures, please give your best estimates. You may indicate "EST." (for estimated) beside the answer if you like. For all dollar items, we need only whole dollars; cents are not required.

5. Completing The Report Form

Sections 1 to 12 — Greenhouse Products, Outdoor-Grown Floriculture Products, Nursery Products, Mushrooms, and Sod

The units of measure on the report form are those most ommonly used throughout the country. If you used a different unit of measure, please specify the unit and size or convert your figure to the unit requested.

When reporting value of sales, do not include products bought for when reporting value of sales, do not include products bought for resale without additional growing. Do not report sales of noncrop garden center items, i.e., chemicals, fertilizers, etc. Report the total value of sales (wholesale or retail) for those products grown on this place and sold directly from this place. Report only the wholesale value of any products sold through a retail outlet which was not on this place or if the retail outlet was considered a separate business establishment. Estimates are acceptable if event focuses are not available. exact figures are not available.

To Report Plants in Sections 1 to 7

In each of these sections, report any of the plants which you grew that are listed in that section.

- 1. Find the plant name and the corresponding code number in the list in that section.
- 2. Enter the plant name and code in the space provided in
- 3. Enter the information requested in each column. In sections 1, 2, and 6, enter the information on the proper line for each type of container. In section 7, enter the information on the proper line to identify each type of unfinished plant material.
- 4. If additional columns are needed, use a separate sheet of paper.

To Report Plants in Sections 8 to 12

In each of these sections, enter the information requested for any of the specified plants which you grew that are listed in that section.

- 1. Enter the information requested in each column for the specified plants that you grew.
- 2. If additional columns are needed, use a separate sheet of paper.

If reporting in Section 8 — Sod, report the total acres of sod harvested from this place in 1988 and value of sales of the sod. Acreage planted to grass intended for sale as sod in subsequent years and not harvested in 1988 should not be

If reporting in Section 10 — Cultivated Mushrooms, report the square feet of bedspace or other space, such as trays, used for mushrooms in 1988 only once even though the space was harvested multiple times or more than one crop was grown during the year. For example, if two crops of mushrooms were harvested from an area of 20,000 square feet of bedspace, report 20,000 square feet of area used. Note in the margin of the report form the number of times mushrooms were harvested from that area. Also include in this section gourmet varieties of mushrooms, such as shitake, which were harvested in 1988.

tion 13 — Land, Structures, Equipment, and irrigation

The estimated market value in item 2, refers to ALL machinery and equipment kept on this place and used for the horticultural business. The value should be an estimate of what the machinery and equipment would sell for in its present condition, not the replacement or depreciated value.

➤ Section 14 - Sales

In item 1, report the value received during 1988, regardless of the year in which the products were harvested. Give gross values (before deducting taxes and expenses). Report total values for a product or products sold in 1988 even though full payment may not have been received in 1988.

ction 15 - Selected Production Expenses

Include expenses paid by you and by anyone else for the production of greenhouse products, outdoor-grown floricultural products, nursery products, mushrooms, and sod on this place. Also include 1988 expenses incurred even if not paid in 1988. Please give estimates if you do not know the exact figures.

➤ Section 16 — Horticultural Labor

Expenditures for hired labor should include gross wages or salaries, commissions, paid bonuses, and leave pay BEFORE DEDUCTIONS, PLUS THE VALUE OF BENEFITS PAID BY YOU, i.e., social security, taxes, unemployment compensation insurance, etc. Do not include room and board, house rent, or other items paid in kind. Exclude employees not directly involved in the growing operation, i.e., garden center

► Section 17 — Type of Horticultural Operation and Location of Growing Operation(s)

In item 1, use the following definitions to assist you in determining the type of ownership for your operation:

Individual Proprietor or Family Operation — Defined as a Individual Propretor or Farmly Operation — Defined as a business organization controlled and operated by an individual (sole proprietor). Include family operations that are not incorporated and not operated under a partnership agreement.

Partnership — Defined as two or more persons who have agreed on the amount of their contribution (capital and effort) agreed on the amount of their contribution (capital and effort) and the distribution of profits. Co-ownership of land by husband and wife or joint filling of income tax forms by husband and wife does not constitute a partmership, unless a specific agreement to share contributions, decisionmaking, profits, and liabilities exists. Producing products under contract or under share rental agreements does not constitute partnerships.

Corporation — Defined as a legal entity or artificial person created under the laws of a State to carry on a business; does not include cooperatives. Include family operations that are incorporated.

Other — If your operation did not fall into the provided categories, mark (X) this box and describe the type of ownership that this operation existed under during 1988.

In item 2, report the county or counties where the growing activities for the operation represented by this report form occurred in 1988. If the growing operations occurred in more than one county, list all of the counties involved and estimate the percent of the total gross sales produced in each county. Check the figures to ensure that the percentages sum to one hundred

➤ Section 18 — Remarks and Explanations

Enter in this section an explanation if you did not report any sales in sections 1 through 12. Also add any other remarks or explanations here.

ection 19 - Person Completing This Report Form

Print the name, address, and telephone number of the person completing this report form. Also, enter the date in the space provided when the report form is completed.

We estimate that it will take from 10 to 30 minutes to complete this report form, with 24 minutes being the average time. If you have any comments reparding these estimates or any other aspect of this census, send them to the Associate Director for Management Services, Room 2027, Bureau of the Census, Washington, DC 2023; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1988 Census of Horticultural Specialties, Commercial Horticultural Survey, 1988 (NASS), Report Form 88-A19.2

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COMMERCIAL HORTICULTURE SUR 1989	RVEY									
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our prompt meil response will save time and expenseonal viait. Please use the enclosed envelope to report by January 20, 1989.	nse of a mail your									
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ennusis in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name	ition 7. If more s	material (prefix pace is needs Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of containes under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over	Number of Containers set	Total s fold 1 6 6 7 9 9 1 5 6 9 9 1 5 6 9 9 1 1 5 6 9 9 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of containers sold D O O O O O O O O O O O O	3 3 \$ 7 7 \$ 111 \$ 3 3 \$ 7 7 \$ \$ 111	.0 .0 .0 .0 .0 .0
ennusis in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name	ition 7. If more s	material (prefix pace is needs Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of container under 5 inches 5 inches or over ging baskets under 5 inches 6 inches or over ging baskets under 5 inches 7 inches 7 inches 8 inches or over ging baskets under 5 inches 9 inches 1 inches or over ging baskets under 5 inches 1 inches or over ging baskets under 5 inches 1 inches or over ging baskets under 5 inches 1 inches or over	Number of Containers set	Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Tot	Dollars only	Number of containers sold 2 0 6 0 10 10 0 2 0 6 0 10 10 0 10 0 2 0 6 0 10 0 10 0 10 0 10 0 10 0 10 0 10	3 3 \$ 7 7 \$ 111 \$ 3 3 \$ 7 7 \$ \$ 111	
ennusis in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name	inished plant r	material (prefix pace is needs Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of contained pe of contained under 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 6 inches or over	Number of Containers set	Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Total s. Tot	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of containers sold	3 3 \$ 7 7 \$ 111 \$ 3 3 \$ 7 7 \$ \$ 111	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Plant name Plant name Plant name	inished plant r	material (prefipece is needs Code Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of containes under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches	Number of Containers set	Total s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the contai	3 3 \$ 7 7 \$ 111 \$ 3 3 \$ 7 7 \$ \$ 111	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Plant name Plant name Plant name	inished plant r	material (prefipece is needs Code Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of contained pe of contained under 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 6 inches or over	Number of Containers set	Total s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the contai	3 3 \$ 7 7 \$ 111 \$ 3 3 \$ 7 7 \$ \$ 111	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ennuals in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name Plant name	inished plant r	material (prefipece is needs Code Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of containes under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches inches or over ging baskets under 5 inches	Number of Containers set	Total s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of containers sold 2 0 6 0 1 10 0 2 0 6 0 10 0 10 0 10 0 2 0 6 0 10 0 10 0 10 0 10 0 10 0 10 0 10	\$ 11	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ennuals in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name Plant name	inished plant rition 7. If more s	material (prefipece is needs Code Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of contained pe of contained pe of contained pe of contained be of contained inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over	Number of Containers set	Total s	ales Dollars only	Number of containers sold Description On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the containers sold On the contain	\$ 11	Oollers only
ennuals in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name Plant name	inished plant rition 7. If more s	material (prefix pace is needs Code Code Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of contained pe of contained pe of contained under 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 6 inches or over ging baskets under 5 inches 6 inches or over ging baskets 5 inches or over ging baskets 5 inches or over	Number of Containers set	Total s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the containers sold Definition of the contai	\$ 11	00 00 00 00 00 00 00 00 00 00 00 00 00
ennuals in section 2. Report un cultured plantilets, etc.) in sect Plant name Plant name Plant name Plant name Plant name	inished plant rition 7. If more s	material (prefix pace is needs Code Code Code Code	Pots Pots Pots Pots Pots Pots Pots Pots	pe of contained under 5 inches or over ging baskets under 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches 5 inches or over ging baskets under 5 inches	Number of Containers set	Total s	Dollars only	Number of containers sold 2	\$ 11	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

CTION 1 POTTED FLOWERING PLANTS FOR INDOOR OR P Part B — Complete this part by entering the area in production (including to	walkways, aisles, etc.)			al area in	Intentions	a for
in 1988 and intentions for production in 1989 for the plants liste Flowering plants — POTS	od.		Produc (Sq: X9055	tion in 1988 Jare feet)	production is (Pots)	n 19
a. African violets (Saintpaulia)			X9069		X9075	
b. Azaleas (finished florist showing color)			X9062		X9088	
c. Chrysanthemums (Exclude hardy/garden mums.)						
d. Lilies, Easter			X9076		X9082	
• Lilies, other			X9083		X9089	
f. Poinsettias			X9090		X9096	
			X9097		X9103	_
g. All other potted flowering plants		• • • • • • • • • • • • • • • • • • • •	in	entions for pro (Number o	duction in 1989	9
Flowering plants — HANGING BASKETS			х9300			_
CTION 2 Were any BEDDING/GARDEN PLANTS (including for sale on this place in 1988?				rown		_
202 1 ☐ YES — Complete perts A and B below. 2 ☐ NO — Go to section 3. Part A — Complete this part by entering the plant name and code from the of container (i.e., flats, pots by size, hanging baskets). Report vs. section 11. Report unfinished plant material (plug seedlings, cut more space is needed, list additional plants on a separate sheet.	egetable transplants fo tings, liners, tissue cul	er commercial tr Itured plantlets,	uck crop production 7.	n in		
SPECIAL INSTRUCTIONS FOR REPORTING "FLATS" —	Report in 11" X 22" f					
	Type of container	Number of containers sold	tal sales Dollars only	Number of containers so	Dollars o	
		containers soil	1	2	3	_
Plant name Code	Flats	4	\$.C	6	7	_
	Pots less than 5 inches	8	\$.C	10	\$ 11	_
	Pots 5 inches or more	12	\$.0	14	\$ 15	_
	Hanging baskets		1	0 2	\$	_
Plant name Code	Flats		\$	0	s	_
- Internation	Pots less than 5 inches	Ĭ	\$	-	\$	_
	Pots 5 inches or more	8		0	11 \$	
	Hanging baskets	12	13 \$ 1.0	0 14	15	
	Flats		\$	2	3	
Plant name Code	Pots less than 5 inches	•	5	8	7	_
	Pots 5 inches or more	8	\$.0	10	11 \$	
		12	13	14	15	_
	Hanging baskets		\$	2	\$	_
Plant name Code	Flats	4	\$.C	6	7	
	Pots less than 5 inches	8	9 .0	10	11	
	Pots 5 inches or more	12	13	0 14	15	_
	Hanging baskets		\$.0		\$	
Plant name Code	Flats	4	\$.0	1	\$	_
	Pots less than 5 inches		\$.0	1 -	\$	_
	Pots 5 inches or more	•	\$.0	0	s	_
	Hanging baskets	12	\$.O		15 \$!
	Flets		\$.0	0 2	3 \$	
Plant name Code	Pots less than 5 inches	4	\$.0	0	7	1
	Pots 5 inches or more	8	\$.0	10	11	7
		12	s	14	15	4
					WE - Vegetable	٥
ssum	Henging baskets	Rose, potted Salvia Snapdragon	garden 058 057 059 069	type beddin Broccoli, cal cauliflower the other cruc	g plants bbage, r. and	01

Form 88-A19.2

					To	tal sales		Wholes	sale sales on	łу
				Type of container	Number of containers sold		ers only	Number of containers sold	0	
				Flats		8	.00	2	3	1
Plant name		Code	7	Pots less than 5 inches	4	8	.00	8	7	i i
					8	9	.00	10	111	1
				Pots 5 inches or more	12	13	1.00	14	16	
				Hanging baskets	†	1		2	3	
Plant name		Code	_	Flats	4	5	1.00	6	7	
				Pots less than 5 inches	8	\$	1.00	10	8	-
			_	Pots 5 inches or more	12	13	.00	14	15	_
	 			Hanging baskets	ļ	\$.00	2	3	
Plant name		Code		Flats		\$.00		8	_
				Pots less than 5 inches		8	.00	10	8	_
			_	Pots 5 inches or more		\$.00		•	
				Hanging baskets	12	13	.00	14	15	1
				Flats		t *	00.	2	3	1
Plant name		Code	7	Pots less than 5 inches		8	.00	6	7 \$	1
				Pots 5 inches or more	8	\$.00	10	11	
					12	13	.00	14	15	_
				Hanging baskets Flats	<u> </u>	8	.00	2	3	
Plant name		Code	_		4	5		6	7	
				Pots less than 5 inches	8	9	.00	10	11	-
			_	Pots 5 inches or more	12	13	.00	14	15	
				Hanging baskets		\$.00	2	3	
Plant name		Code		Flats	4	\$.00	6	\$	1
				Pots less than 5 inches	8	\$.00	10	8	1
				Pots 5 inches or more	112	\$ 13	.00	14	8	1
				Hanging baskets		•	.00		8	i
Diane	•	Cc-1-		Flats		•	.00	<u> </u>	3 8	!
Plant name		Code	\neg	Pots less than 5 inches	1	\$.00	·	7 \$	i
				Pots 5 inches or more	8	s t	.00	10	8	1
				Hanging baskets	12	13	.00	14	15	ļ
ANT NAME CODE	PLANT NAME	CODE	PLANT N		E PLANT NAN	ıE	CODE		E Vegetabi	
oretum 0273 saum 0289 onle 0305 ysanthemum, rdr/garden 0321 sus 0337 nthus 0363 eport vinca vine (V. major) and vine	Dusty Miller Fuchsia Gazania Geranium, grown fre cuttings Geranium, grown fre seed or seedlings ca groundcover (V. mi	om 0417 om 0433	Impatiena Marigold Pansy Perennials	s, herbaceous 0512 	Salvia Snapdragon Verbena Vinca (Catha roseus)*	ranthus	0881 0877 0893 0809 0828	Broccoli, cabi cauliflower, other crucif Papper, swee Tomato Other vegetal bedding pla	bege, and fers it or hot	. 0
·	ıction in 1989 for th	in production (i e plants listed.	ncluding w	valkways, aisles, etc.)	in 1988 and		Total a	nin 1988 p	intentions production in	for 19
Bedding/gerden plants — FLA Geraniums	.TS						9117	Sq. ft.	121	
b. All other flowering and folio	ar type bedding/ger	dan plants				1	9122	Sq. ft.	126	1
c. Vegetable type bedding pla					• • • • • • • • • • • • •	, x	9127	Sq. ft.	131	-
Bedding/garden plants — PO1		to comille	siei prode	AUG (11.)		····· ×	9132	X8	138	
a. Hardy/garden chrysanthem							9139	Sq. ft.	146	
b. Geraniums, grown from cu	ıttings					L	9146	Sq. ft.		
c. Geraniums, grown from se	ed or seedlings			• • • • • • • • • • • • • • • • • • • •				Sq. ft.		
d. All other flowering and folio							9183	Sq. ft.	169	
Vegetable type bedding plan						×	9160 Intent	Sq. ft.		

Were there any CUT I	LOWERS grown for sale o	n this pla	ce in 1988?							
1 ☐ YES — Complete parts A and B 2 ☐ NO — Go to section 4.	below.									
Part A — Complete this part by entering	og the plant name and code from	the list bei	ow. Report the	number	sold in t	he unit				
specined in parentrieses for cultured plantiets, plug seedi	each plant type in the plant list. lings, etc.) in section 7. If more:	space is ne	nisnea piant mi eded, list additi	onal plan	its on a s	eparate she	et.			
				Num		al sales		Whole: Number	sale sales on	
Plant name			Pode .	of u	nits	Dollars o		of units	Dollars 3	only
Plant name			Code				1			1
						\$ 1	.00	2	3	1:
Plant name			Code							1
						\$.00	2	6	1
Plant name			Code				1			E [
				ļ		\$ 1	.00	2	5	+
Plant name			Code							i
				ļ		\$ 1	.00	,	8	-
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NT NAME CODE comeria (stems)	PLANT NAME Gerbers daisy (blooms)	CODE 0765	PLANT NAME Protes, sunbur	rst		CODE	PLANT Carnati	NAME - LEI I on, (heads)	FLOWERS	C
urium (blooms)	Ginger, pink (blooms) Ginger, red (blooms) Ginger, other (blooms)	0773	cordifolium (I Protes, other Rose, hybrid to	(biooma) ea (bioom	s)	0829	thloon	dendrobium (i Vanda-Miss Jons)		01
ation, standard* (blooms) 0737 ation, miniature (bunches) 0741 senthemum, standard	Gladiolus (spikes) Gypsophila (bunches) Heliconia (blooms)	0789 0793	Rose, sweethe Snapdragon (s Statice (bunch Stephanotis (t	pikes)		0841	Ptumeri Tubero	(strands)		0
santhemum, pompon nches)	iris (blooms)	0797 0801 0805	Stock (stems) Tulip (blooms)			0853	Speci.	ei flowers — fy variety and	unit	0
odil/Narcissus (blooms) 0753 y, marguerite (blooms) 0767 sia (stems)	Orchid, cymbidium (blooms) Orchid, dendrobium** (sprays) Orchid, oncidium (sprays)	0817	Zinnia (bloom: Other cut flow Specify varie	ers -		0861				
oort heads separately under lei flowers (code eport blooms for lei flowers separately under	Orchid, other** (blooms)	0821 9873 or 0877	ŋ.							
Part B — Complete this part by enterin (including walkways, aisles,	na the area in production					Total area ir		1	tentions for	
for production in 1989 for th	e plants listed.	Total pla	nts grown in 1		pro:	duction in 1	988		uction in 198	19
Carnations, standard		X9010		Number	9011		Sq.	ft. X9015		
Cernations, miniature		X9028		Number	9029		Sq.	tt. ×9033		
Chrysanthemums, standard		X9034		Number	9035		Sq.			ę
Chrysanthemums, pompon		X9016		Number	9017		Sq.			s
Roses, hybrid tea		X9022		Number	9023		Sq	1		5
Roses, sweetheart				Number		e acres	Sq. Tenths	n.	acres	S
Gladioli				×	9045	o acres		X9049	, ecres	ien
							/1			

Page 4

Part A — Complete this part by entering the plant name and code fror specified in parentheses for each plant type in the plant list.	n the list below. Heport to Include quantity grown i	he number sold in and sold for export	the unit . If more space			
is needed, list additional plants on a separate sheet.		T 70	tal sales	Whole	sale sales ont	
		Number of units	Dollars only	Number of units	Dollars o	
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IT NAME CODE PLANT NAME regus (bunches) 0887 Cordyline/Ti (stems) ood (pounds) 0801 Hedera/lvy (vines) erous greens (pounds) 0905 Holly (pounds)	0913 Leatherleaf f	Selai (bunches) erns (bunches) rd fems (bunches)	0921 Pittos 0925 Smile 0929 Other	T NAME porum (bunches) c (strings) cut cultivated fic	riet greens —	000
ert B — Complete this part by entering the area in production (includ	ing walkways, aisles. etc		Total area in	Int	tentions for	
in 1988 and intentions for production in 1989 for the plants	listed.	pro	duction in 1988 le scres Tenti		acres	B Ye

Plant name	SECTION 5 Were there any NURS	ERY PLANTS grown	for sale	on this place	in 198	8?		_			
Pert A — Complete this part by enoring the places center and code from the field above. Report the number of places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and value cultured places and va	1 La 1E3 — Complete parts A and 6	below.									
Plant name	2 □ NO — Go to section 6.										
### Code Plact name	Part A — Complete this part by entering of sales for each plant type to	ng the plant name and coo hat was grown for sale. R	ie from the eport unfil	list below. Rep nished plant ma	ort the n terial (lin	umber of plan ers. cuttings.	nts and value tissue	,			
Plant name	cultured plantiets, etc.) in se	ction 7. Also, report plans	t material t	o be grown on b	y others	as prefinishe	d plant				
Plant name											
Plant name											
Paint name					<u> </u>						
Paint name						of plants	Dollars	ORIY	of plants	3	ara only
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Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell fruit plants) reported in part A above were — Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and smell	Norway manie	e 0997	Holly	um	1041	Groundcove	rs	1085	fruit trees Deciduous	fruit and	1105
vergreens - Specify 1003 What with the product of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 1003 of the specify 100	Pin oak	cherry 1005	Rhododer Other bro	ndron ad-leaf	. 1049	Other herba	ceous plants	1093	Grapevines Small fruit	plants	1113
There decidous shade trees - Specify 0985 There decidous flowering trees - Specify 1029 There decidous flowering trees - Specify 1029 There decidous flowering trees - Specify 1029 There are trees - Specify 1025 Spruce 1065 Spruce 1065 Spruce 1065 Spruce 1065 Spruce 1069 Other narrow-leaf a evergreene - Specify 1073 For cut Christmas trees 1077 Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and small fruit plants) reported in part A above were — 1. Field grown plants (bare root, balled and burlapped, balled and potted) 2. Container grown plants Other — Specify 1029 Total Wholesale sales Wholesale sales 1125 1129 1126 1129 1127 1128 1129 1130 00 \$ 00 1131 1132 1133 1131 1132 1133 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00 1131 1132 1133 100 \$ 00	River birch	en	_			daylillies, i	rises)*	1097	blueberry	. etc.)	1117
Juniper 1057 Pine 1061 Spruce 1065 Yew 1069 Other narrow-leaf evergreens — Specify 1073 For cut Christmas trees 1077 Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and small fruit plants) reported in part A above were — 1. Field grown plants (bare root, balled and burlapped, balled and potted) 2. Container grown plants Other — Specify 1057 Pine 1061 Spruce 1065 Prine 1061 Number sold Salee 1125 1126 1127 1128 1129 1130 1130 100 \$.00 1131 1132 1132 1133 100 \$.00	Other deciduous shade Other deciduous shade	agnolia 1025	EVERGR	EENS		Specify .		1101	trees -	Specify	1121
Yew 1069 Other narrow-leaf evergreens — Specify . 1073 For cut Christmas trees 1077 Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and small fruit plants) reported in part A above were — 1. Field grown plants (bare root, balled and burlapped, balled and potted) 2. Container grown plants	trees - Specify uses -	Specify 1029	Juniper Pine		. 1061						
*Report flowering and vegetable bedding plants in section 2. For cut Christmas trees 1073 Part B — How many of the nursery produced plants (ornamental plants, fruit and nut trees, grapevines, and small fruit plants) reported in part A above were — 1. Field grown plants (bare root, balled and burlapped, balled and potted)			Yew Other na	errow-leaf	. 1069						
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1. Field grown plants (bare root, belied and burlapped, balled and potted)	Part B — How many of the nursery pro	duced plants (ornamental	l plants, fr	uit and nut trees		None	Number		Salas	Wholes	sele sales
2. Container grown plants						_			1	i	
3. Other — Specify 1131 1132 1133 .00 \$.00 \$.00						_	1128	1129		1130	.00
3. Other – Specify	2. Container grown plants						1131		.0		.00
M 88-A19,2 (11-7-88) Page 6	3. Other — Specify							\$.0	0 \$.00

urt A Complete this part by entering the plant name and code from the list	реюж. нерогт тв питі	ber of plants, and	value_of		
sales for each plant type that was grown for sale. Report unfinished plant material in section 7. If more space is needed, list additional pla	plant matérial to be gro ents on a separate sheet	wn on by others	ss prefinished		
	Type of container	Number of	Dollars only	Number of	Dollars only
		containers sold	1	containers sold	3
	Pots under 4 inches	4	\$ i.00	6	7
Plant name Code	Pots 4 to 7 inches	8	* .00	10	11
Plant name Code	Pots 8 to 13 inches	12	13	14	15
	Pots 14 to 22 inches	16	\$ 1.00	18	19
	Pots over 22 inches Hanging baskets	20	21 1	22	23
	under 8 inches Hanging baskets	24	# i.00	28	27
	8 inches or more		* 1.00	2	3
	Pots under 4 inches	4	5 .00	6	7
	Pots 4 to 7 inches	8	* .00	10	11
Plant name Code	Pots 8 to 13 inches	12	8 .00	14	15
	Pots 14 to 22 inches	16	8 1.00	18	19
	Pots over 22 inches Henging baskets under 8 inches	20	8 .00	22	23
	Hanging baskets	24	\$.00 25	28	27
	8 inches or more		\$.00	2	3
	Pots under 4 inches	4	\$.00	8	7
	Pots 4 to 7 inches	В	9 .00	10	11
Plant name Code	Pots 8 to 13 inches	12	\$.00	14	15
	Pots 14 to 22 inches	18	\$ 1.00	18	19
	Pots over 22 inches	20	\$.00	22	23
	Hanging baskets under 8 inches Hanging baskets	24	8 .00	28	\$
	8 inches or more		\$.00	2	\$
	Pots under 4 inches	4	\$.00	6	7
	Pots 4 to 7 inches	8	\$.00	10	11
Plant name Code	Pots 8 to 13 inches	12	\$.00	14	\$ 15
	Pots 14 to 22 inches	16	\$.00	18	8
	Pots over 22 inches	20	\$.00	22	\$
	Hanging baskets under 8 inches	24	\$.00	1	8
	Hanging baskets 8 inches or more		• .00	1	8
	Pots under 4 inches	ļ	\$.00	<u> </u>	\$
	Pots 4 to 7 inches		.00	10.	\$ 11
Plant name Code	Pots 8 to 13 inches	12	\$.00		\$ 15
	Pots 14 to 22 inches		.00		
	Pots over 22 inches	16	\$.00		8
	Hanging baskets under 8 inches	20	\$.00		\$
	Hanging baskets 8 inches or more	24	¢ .00	25	\$
	Pots under 4 inches		\$.00		8
	Pots 4 to 7 inches		⁵ 1		8
Plant name ' Code	Pots 8 to 13 inches	8	9		† † \$
	Pots 14 to 22 inches	12	\$.00	14	15
	Pots over 22 inches	16	17 \$.00	18	19
	Hanging baskets under 8 inches	20	8 .00	22	23
	Hanging baskets 8 inches or more	24	25	28	27 \$
T NAME CODE PLANT NAME CODE nema 1134 Epipremnum (Pothos) 1246	PLANT N	AME	CODE . 1358	PLANT NAME Spethiphyllum	

ype of container s under 4 inches s 4 to 7 inches s 8 to 13 inches s 14 to 22 inches s over 22 inches ging baskets ches or more s under 4 inches s 4 to 7 inches s 4 to 7 inches s 8 to 13 inches s 14 to 22 inches s 14 to 22 inches s 14 to 22 inches s 14 to 22 inches s 14 to 22 inches s 14 to 22 inches s 14 to 22 inches s 14 to 21 inches s 14 to 21 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 7 inches s 14 to 13 inches s 14 to 13 inches s 14 to 14 inches s 14 to 15 inches s 14 to 15 inches s 14 to 16 inches s 16 inches s 17 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches s 18 to 18 inches	16	\$ 5 5 \$ 9 \$ \$ 17 \$ 5 17 \$ \$ 21 \$ \$ 5 5 \$ \$ 9 9 \$ \$ 13 \$ \$ 17 \$ 5 17 \$ \$ 22 1 \$ 5 1		6 10 14 18 22 26 6 10 10 14 18 22 26 6 10 10 14 18 18 18 18 19 10 10 11 14 18 18 18 18 18 18 18 18 18 18 18 18 18	3 \$ 7 \$ 111 \$ 115 \$ 223 \$ 227 \$ 3 \$ 77 \$ 111 \$ 119 \$ 223 \$ 27 \$ 3 \$ 77 \$ 111 \$ 115 \$ 117 \$ 118 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 \$ 119 119
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4 to 7 inches	8	9	.00	10	11
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Palms . Philodendr Schefflers	on	. 135 . 138	8 6	Spathiphyllum Syngonium (Nei Other foliage pla	phthytis) 1
or Scheff	lera)	. 141	4	Specify	ants —
E grown for sale ir	1988. Enter th	ne area i	n production	(including	
d foliage plants, to ed.	otal value of wh	olesale	sales in 198	8 for potted	
for unfinished	Total value of	seles	7 -		Intentions f
e cuttings	of potted fol	isce	wholes	ale sales of	potted foliar production
'Growing On''	1988		ported i	Dollars)	1989 (Square fee
		I I	X9115		X9118
.00 \$	–	.00	+	.00	
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e e e	ing beskets f 8 inches ing baskets hea or more PLANT N/ Pelms Philodendi Schefflera or Scheff grown for sale in foliage plants, to d. for unfinished ts and rooted cuttings from others in Growing On" Blars)	ing beskets 78 inches 78 inches PLANT NAME Pelms Philodendron Schefffera (Brassais and/ or Schefffera (Brassais and/ or Schefffera) grown for sale in 1988, Enter the foliage plants, total value of when the form others in Growing On' (wholesale and of ported for plants grown b Growing On' (lilars) X9113	ing beskets *8 inches *8 inches *8 inches *9 ing baskets *Palmt NAME *Plant NAME *Plilodenfero *Palms *138 *Philodenfero *Philodenfero *Political (Brassis and/ or Schefflera) *138 *Schefflera *138 *Schefflera *138 *Schefflera *138 *Schefflera *138 *Schefflera *Total value of wholesale and of ortical (wholesale and retail) *for unfinished to untinings (wholesale and retail) *for unfinished cuttings (wholesale and retail) *for unfinished to untinings (wholesale and retail) *for unfinished cuttings (plants grown by you in 1988 *[Dollars] **Size (Dollars) **Size (Dollars)	ing beskets 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 Inches 78 I	ing beskets 18 inches 20 21 22 22 23 26 25 26 25 26 26 26 26 27 26 26 27 26 26 27 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27

SECTION 7 Were any UNFI cultured plantle material for you	rts, prefinished	MATERIA plants, etc.	ALS (Fo .) growi	r example, cuttings, n/produced for sale o	liners, plug on this place	seedlings, ti in 1988? <i>(E:</i>	- cclude	•		
occident of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	s by type of unfinisi	hed plant ma	terial. Als	le from the list below. Re so, report plant material s l, list additional plants on	sold to others f	or further				
2□ NO — Go to section 8.										
				T		otal sales		Whole	sale sales onl	у
				Type of unfinished plant material	Number sold	Dollars or	*y	Number sold	Dollars	
				Cuttings		9	.00	2	3 \$.00
Plant name		Cod	e	Liners	<u> </u>	5 \$.00		7 \$.00
				Plug seedlings	8	9	.00	10	8	.00
		•		Prefinished plants	12	13 \$.00	18	15	.00
				Tissue cultured plantlets	16	\$.00	18	\$.00
				Cuttings	4	\$	00.	4	8	.00
Plant name		Cod	e	Liners	8	\$.00	10	\$.00
				Plug seedlings	112	\$.00	14	\$.00
				Prefinished plants	18	8	.00	18	\$.00
				Tissue cultured plantlets		8	.00	2	\$.00
				Cuttings	4	\$.00	6	\$.00
Plant name		Cod	e	Liners	8	\$	00.	10	8	.00
				Plug seedlings	12	\$ 13	00.	14	\$ 15	.00
				Prefinished plants	16	\$.00	18	19	.00
				Tissue cultured plantlets		\$.00	2	\$.00
				Cuttings	4	\$.00		\$	1.00
Plant name		Code	•	Liners	8	\$.00	10	\$.00
L				Plug seedlings	12	\$ 13	.00	14	15	.00
				Prefinished plants	18	\$ 17	.00	18	19	.00
				Tissue cultured plantlets		1	.00	2	\$.00
				Cuttings	4	\$.00	8	\$.00
Plant name		Code	•	Liners	8	9	i .00	10	\$ 11	.00
				Plug seedlings	12	13	.00	14	15	.00
				Prefinished plants	16	17	.00	18	19	.00
				Tissue cultured plantlets		\$.00	2	\$.00
				Cuttings	4	\$.00	6	\$.00
Plant name		Code	<u>'</u>	Liners	8	\$.00	10	\$ 11	00.1
				Plug seedlings	12	13	.00	14	15	.00
				Prefinished plants	16	17	.00	18	19	.00
				Tissue cultured plantiets		1	.00	2	3	.00
		0		Cuttings	4	5	00.	8	7	1.00
Plant name		Code		Liners	8	9	1 I	10	11	1.00
				Plug seedlings	12	13	.00	14	15	.00
				Prefinished plants	16	17	.00	18	19	.00
PLANT NAME - Potted CODE P	LANY NAME — Bedd	ling/ CODE		Tissue cultured plantlets NAME - CODE	PLANT NA	S ME – Nursery	; .00]	PLANT NAM	E — Follage	LOO CODE
flowering	arden hysanthemum, hardy parden aranium from cutting eranium from seed or seedlings patiens, New Guinea see see see lise see see see see see see see see see	1726 is 1746 1766 1786 1806	Carnatio Chrysan Chrysan Gerbera Orchid, Orchid, Orchid, Rose, hy Rose, sy Other cu	ner ,, standard , 1846 , , ministrue , 1886 , themun, standard , 2654 , themun, pompon , daisy , 1906 , cattleya , 1926 , cymbidium , 1946 , other , 1986 , other , 1986 , themun, pompon , 1946 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 1986 , themun , 19	Broad-leaf e Citrus and a Deciduous f Deciduous e and nut tre Deciduous a Herbaceous Narrow-leaf evergreen Roses	ivergreens ibtropicals towering trees ruit sea shade trees ibrubs plants	2046 2086 2086 2108 2126 2146 2166 2186 2208 2228	Aglaonema Dieffenbachia Dracaena Epipremnum Ferna Ficus Paima Philodendron Schefflera (BR and/or Sche Spathiphyllum Syngonium (Mother Foliage	(Pothos)	2266 2286 2306 2325 2346 2346 2386 2406 2426 2426 2446
FORM 88-A19.2 (§1-7-88)				Page 9		,		,	.,	

SECTION 8 Was SOD grown for sale on this place	e in 1988?									
0008 1 ☐ YES — Complete this section.						V	alua of	aros	s sales in 1988	
₂□ NO — Go to section 9.			Α.	cres harve	sted -		alue of	Dolla	rs only)	
			Who 2506	ole acres	Tenths	Tot	el	,	Wholesale sales	5
1. Sod grown for sale					/10	(00.1	,	1.00
SECTION 9 Were any DRIED BULBS, CORMS, R USED FOR FORCING) grown for said	HIZOMES, OF on this place	t TUBERS (in 1988?	TO BE							
			T _A	cres harv	ested	V	alue of	gros	s sales in 1988	
occs 1 YES — Complete this section. Report finished for in appropriate sections 1 and/or 3.	cea products		<u></u>	ole acres	Tenths	Tot		Dolla	rs only) Wholesale sale:	
2 NO − Go to section 10.			2509		+	2510		·	2511	Ţ
Dried bulbs, corms, rhizomes, or tubers grown for sale SECTION 10 Were any CULTIVATED MUSHROO		_	<u> </u>		/10	\$.00	\$.00
this place in 1988? — See information	on sheet.			-						
oono 1 ☐ YES — Complete this section. 2 ☐ NO — Go to section 11.		Pounds	.	Bed (Sque	area re feet)	V	alue of	gros Dolla	s sales in 1988 rs only)	
30.000000000000000000000000000000000000		612		513		Tot	al	, _	Wholesale sales	B
1. Cultivated mushrooms						\$	_	.00	i .	.00
SECTION 11 Were any GREENHOUSE PRODUCE TRUCK CROP PRODUCTION OR VI	D VEGETABLI GETABLE SEI	ES, VEGET. EDS grown.	ABLE 1 produ	rransi	PLANTS sale on ti	FOR COMM his place in 1	IERCI 19887	AL		
0011 1 YES — Complete parts A, B, and C below. Report	bedding vegetabl	e plants in se	ction 2.							
2 NO — Go to section 12. Part A — GREENHOUSE PRODUCED VEGETABLES —										
Enter the information below. Report bedding vegetable plants in section 2. If more space is needed, list additional plants on a separate										
sheet.					Ī	Value	of gros	s sale	es in 1988	
□None	Square for prote	eet under glass ection used in 1	or other 988			Total	(Ďolia	rs or	Wholesale sales	
1. Cucumbers.	2518				2617		.00	2518		.00
	2519			- .	2520		1	2521		ī
2. Lettuce	2622				2523		1.00	2524		1.00
3. Peppers	2525				2528		00.1	2527		1.00
5. Other greenhouse produced vegetables — Specify 2	2528				\$ 2529		.00	\$ 2530		.00
					\$.00	\$.00
Part B VEGETABLE TRANSPLANTS FOR COMMERCIAL TRUCK CROP PRODUCTION Enter the Information		_								
below. Report bedding vegetable plants in section 2. If more space is needed, list	Are	ea used in 19	88			Value	of gros (Dolla	s sale	es in 1988 Ny)	
additional plants on a separate sheet.	Square feet unde	Acre	s in the	орел		Total			146-411	
□None	protection	Whole	acres	Tenths					Wholesale sales	
1. Broccoli, cabbage, cauliflower, and other crucifers	2531	2532		/10			.00			.00
2. Peppers, sweet or hot	2635	2536		/10	\$	_	.00			.00
3. Tomatoes	2539	2540		/10	2541		.00	2542 \$.00
4. Other vegetable transplants for commercial truck crop production — Specify ✓	2543	2544			2545		I I	2546		1
				/10	\$.00	\$.00
Part C — VEGETABLE SEEDS — Enter the information below.	Are	a used in 19	88			Value	of gros (Dolla	s sale	es in 1988 (ly)	
None	Square feet unde glass or other protection	—	s in the			Total			Wholesale sales	
1	2547	Whole 2548	acres	Tenths	2549		-	2550		7
1. Vegetable seeds	l for sale on th	s place in 1	9887	/10	\$		i.00	\$		1.00
oo12 1 YES — Complete this section.	Acres		T			V	elue of	gros	s sales in 1988	
2 □ NO — Go to section 13.	B Whole acres	Tenths	(Pou	Product nds of cle		Tot		Dolla	rs only) Wholesale sales	
1. Alyssum	2551	/10	2552			2553 \$.00	2554	.00
_	2555		2558			2557		1	2558	1.00
2. Delphinium	2559	/10	2560			\$ 2561		.00	2582	
3. Marigold	2563	/10	2564			2585		.00	2568	1.00
4. Nasturtium	2587	/10	2588			2569		1.00	2570	1.00
5. Petunia	2571	/10	2572			\$ 2573		.00	\$ 2574	j.00
6. Stock	2575	/10	2578			\$ 2577		.00	\$ 2578	.00
7.Sweet pea	2579	/10	2580			\$ 2581		.00	\$ 2582	1.00
8. Verbena	2583	/10	2584			\$ 2585		.00	\$ 2586	.00
, ¥	1	į				[.		.00		.00
l п		i /10	ri .			8 .			18	

SECTION 13 LAND, STRUC	CTURES, EQ	UIPM	ENT, AND IRE	RIGAT	TION .					1	Dollars only	
1. What is your best estimate of the										2587	Dollars only	 -
rented by this business on Decer 2. What is the estimated market va	mber 31, 1988	7								2588		.00
place and used for the horticulto 3. Did you have land area covered by	ural operations	7	• • • • • • • • • • • •							\$.00
2589 1 ☐ YES — Complete items				nce. In	clude aisles, v	alkways	s, etc.).		None		Square feet	
2 NO — Go to item 4 be									_	2590		
How much of the greenhouse									🗖	2591		
b. How much of the greenhouse									⊔	2592		
c. How much of the greenhouse	area was cove	ered by p	olastic film (single	or do	uble cover)? .					2593	*	
d. TOTAL LAND AREA COVE	RED BY GREE	NHOU	BES — Should d	equal t	he sum of a +	b+c			🗆			
										2594	Square feet	
How much of the greenhouse	area was new	greenho	use space erecte	d durii	ng 1988?					L		
A Harramush Washan assumed assum	off also some	n abada	houses and ath			d for the	production of			2874	Square feet	
4. How much "other covered space florist crops (Report area only or									🗆	1		
<u>.</u>					_					2675	Acres	Tenths
6. How many open ground acres we include aisles, walkways, etc.)?						once.			🗆	Ĺ		/10
6. Did you produce potted flowering cultivated florist greens, nursery	g plants, beddi plants, or folia	ng/garde	en plants, cut flo	wers,	cut							
2595 1 YES - Complete items			2 II. 10001									
2 NO − Go to item 7 be Report area for each horticultura	low.		For avample 16	•	one of hadding	/aerden	niente wasa be	mantad	from 1 000 so	u ora foa		
report area for each norticultural report 1,000 square feet in the "port 500 square feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port feet in the "port	bedding/garde tted flowering	n plants plants	" category. If 50 category and 1,	000 squa	are feet of pott quare feet in th	ed flowe e "beddi	ring plants we ing/garden pla	re also gi nts'' cate	rown in the sai agory.	ne area,	•	
			Bedding/gard	_					1		_	
	Potted flow plants		plants (include veget	able	Cut flow	ers	Cut cultivat florist gre		Nursery of (Incluing propagating	de	Foliage pl	ants
	2696		type bedding pl	ants.)	2598		2599		2600		2801	
How much greenhouse space in 1988 was used for the												
production of	2602	Sq. ft.	2603	Sq. ft.	2604	Sq. ft.	2605	Sq. ft.	2606	Sq. ft.	2807	Sq. ft.
b. How much land covered by shade structures (frames, cloth, lath, saran, etc.) was												
used in 1988 for the production of		Sq. ft.		Sq. ft.		Sq. ft.		Sq. ft.		Sq. ft.		Sq. ft.
c. How much natural shade area (i.e., palm, citrus, etc.) was	Whole acres	Tenths	Whole acres 2609	Tenths	Whole acres	Tenths	Whole acres 2611	Tenths	Whole acres	Tenths	Whole acres 2613	Tenths
used in 1988 for the production of	2614	/10	2615	/10	2616	/10	2617	/10	2618	/10	2819	/10
d. How many acres in the open were used in 1988 for the	1		2615					! !	2018	i	2019	i !
outdoor production of (excluding land covered by natural shade or shade			1					 	1	i		Ī
structures)		/10	1	/10	\	/10		/10		/10	L	/10
7. Did you irrigate land in 1988? (E)	cciude land cov	vered by	greenhouses.)									
2620 1 ☐ YES — Complete items 2 ☐ NO — Go to section 1		elow.							N	one	Acres irrigat	be
a. How many acres were irrigate		oor prod	uction of nursery	/ plant:	s?					2621	_	/10
b. How many acres were irrigate	ed for the outd	loor prod	duction of sod? .							2622		/10
c. How many acres were irrigate	d for the produ	action of	other horticultur	al crop	s grown in the	open?.	,			2623		/10
SECTION 14 SALES IN 198	8 - Report	figures	to the neares	t WH	OLE DOLLA	R. If						
What were your gross sales during			-			l nlante	and nursary		N	one —	Dollars only	,
plants grown — potted flowering foliage plants, unfinished, prefini truck crop production, vegetable	plants, beddin	a/aarde	n plants, cut flow	vers. c	ut cultivated fl	orist are	ens, nursery o	ants, ommerci		2624	20	1
truck crop production, vegetable Do not include the sale of fertilize	and flower see er, lime, spray	nateria	, dried bulbs, con Is, garden tools,	ms, rhi etc	zomes, tubers	, and cul	tivated mushre	oms? –	[□ \$.00
2. Of the total gross sales -									_	2625		
a. How much was wholesale sale	es?							· · • · · •	٠٠	2628		.00
b. How much was retail sales?		· · · · · ·		• • • •			• • • • • • • • • • • • • • • • • • • •	• • • • •	[\$ 2627		.00
3. What were your returns and allow										\$.00
SECTION 15 SELECTED PRO figures to the n										• [
What was the cost of plants, see.	de hulhe and	flariet er	od pureen stock	n reche	eed and used	in the ne	duction		No	2828	Dollars only	/
activity during 1988? (Include co										\$ 2829		.00
2. What was the cost of commercia	ıl fertilizer (all f	orms) u	sed in 1988? <i>(Ex</i>	clude j	ourchases for	resale.) .			г	3 \$.00
3. What was the cost of all other ag	ricultural chem	nicals pu	rchased for use i	n prod	uction activity	(insectio	ides,			2630		00
herbicides, fungicides, other pest	ticides, etc.) dı	uring 19	88? (Exclude fen	tilizer a	nd lime.)		• • • • • • • • • • • • • • • • • • • •			\$ 2631	_	.00
4. What was the cost of energy (nat operation in 1988? (Include all he	ating and cool	ing cost.	Exclude heat or	air con	ditioning only	for office	s, retail outlet	s, etc.).	oduction	\$.00

THIS PLACE	E, NURSERY, AND 01 IN 1988 — Exclude em ., garden center clerks	HER HORTICULTURAL LABOR ployees not directly involved in	arrandina.	None Number of employee	Gr	oss wages paid (Dollars only)	
What was the total of the gross compensation, insurance premit.	wages paid, including empi	oyer's cost for social security, workm r this business during 1988?	en's				.00
2. Of the hired workers in 1988, ho	ow many were —			2633	2634		
a.Part-time employees (worked	less than 150 days)?	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	2635	2638		i .00
		TION AND LOCATION OF GRO					.00
		I TOR AND LOCATION OF GRO	WING OPENA	1 (CH(S) IN 1908			
1. Type of ownership — Mark (X) t			_				
2837 1 Individual proprietor	2 ☐ Partnersh	ip s□ Corporation	411	Other — Specify		· ·	
2. Location of growing operation(s) — Give the county location	n of the growing operation(s) included	in this report for	n.			
		County	State	Percent of sales			
	Principal county			2638			
	1		_	2639			
	Other counties		_	2840	\dashv		
				2641	\dashv		
			L	L			
SECTION 18 REMARKS AN	ID EXPLANATIONS -	- If you reported no sales in sec u operated in 1988. Also add ar	tions 1 through	12, piesse expla	in here ti	ne type net(s).	
if necessary.	ee.p.,120, 11 211y, yo	2 Operated III 1000. Also 200 21	iy vulet lemai.	s nere. Oss sour	uurar arre		
· 							
CECTION 40 PERCENCE	INI ETIMO TIVO TOTA	DT 01					
Name PERSON COM	PLETING THIS REPO	KI — Piease print.			Date		
i .							
Address (Number and street, city, S	State, ZIP Code)					Telephone	
					Area code	Number	
ORM 88-A19.2 (11-7-88)		Page 12					

Information Sheet, Form 88-A19.2(I)

FORM 88-A19.2 (I)

INFORMATION SHEET 1989 COMMERCIAL HORTICULTURE SURVEY

1. General

A horticultural establishment is an operation growing and selling horticultural products (greenhouse products, outdoor-grown floricultural products, nursery products, mushrooms, and/or sod)

Refer to the instructions below for completing your report form. The enclosed census report form is being used by producers and growers throughout the United States. Because it is meant for use in all parts of the country, it may contain sections and inquiries which do not apply to you. In this case, mark the "No" or "None" box and go on to the next item or section.

If you did not operate a horticultural operation or all of your facilities were idle in 1988, briefly explain your situation in section 18 and complete section 19.

2. If You Receive More Than One Report Form

2. If You Receive More Than One Report Form If you had multiple horticulture operations, you should complete a report form for each separate and distinct production unit, i.e., each individual greenhouse, nursery, etc., or combinations of establishments, etc., for which you maintained separate records of operating expenses, sales, inventories, and production. Return any duplicate or extra report forms in the same envelope with the report(s) you complete so we can remove the extra addresses from our mail list.

3. Partnership Operations

A partnership is an association of two or more persons who have agreed, informally or under legal contract, on the amount of their contributions and profit distributions.

Complete only ONE report form for a partnership operation, including all partners' shares on the same report form. If two or more report forms were received for the partnership, see instruction 2 above.

Partners who also had separate operations of their own should complete report forms for those separate operations. For definition of a partnership, see the instructions for section 17.

4. How To Enter Your Responses On The Report Form

Please enter your answers in the proper spaces and in the units requested, i.e., dollars, pot size, pounds, etc. Write any explanations outside the answer spaces or on a separate sheet of paper. Enter whole numbers unless the "Tenths" column is provided, such as reporting acres of flower seeds in section 12. If you have 1/2 of an acre, convert to the nearest tenths. For example, convert 1/2 to 5/10.

If you do not have exact figures, please give your best estimates. You may indicate "EST." (for estimated) beside the answer if you like. For all dollar items, we need only whole dollars; cents are not

5. Completing The Report Form

Sections 1 to 12 — Greenhouse Products, Outdoor-Grown Floriculture Products, Nursery Products, Mushrooms, and Sod

The units of measure on the report form are those most commonly used throughout the country. If you used a different unit of measure, please specify the unit and size or convert your figure to the unit requested.

figure to the unit requested. When reporting value of sales, do not include products bought for resale without additional growing. Do not report sales of noncrop garden center items, i.e., chemicals, fertilizers, etc. Report the total value of sales (wholesale or retail) for those products grown on this place and sold directly from this place. Report only the wholesale value of any products sold through a retail outlet which was not on this place or if the retail outlet was considered a separate business establishment. Estimates are acceptable if exact figures are not available.

To Report Plants in Sections 1 to 7

In each of these sections, report any of the plants which you grew that are listed in that section.

- 1. Find the plant name and the corresponding code number in the list in that section
- 2. Enter the plant name and code in the space provided in that section.
- 3. Enter the information requested in each column. In sections 1, 2, and 6, enter the information on the proper line for each type of container. In section 7, enter the information on the proper line to identify each type of unfinished plant material.
- 4. If additional columns are needed, use a separate sheet of paper.

To Report Plants in Sections 8 to 12

In each of these sections, enter the information requested for any of the specified plants which you grew that are listed in that section.

- 1. Enter the information requested in each column for the specified plants that you grew.
- 2. If additional columns are needed, use a separate sheet of paper.

If reporting in Section 8 — Sod, report the total acres of sod harvested from this place in 1988 and value of sales of the sod. Acreage planted to grass intended for sale as sod in subsequent years and not harvested in 1988 should not be reported.

If reporting in Section 10 — Cultivated Mushrooms, report the square feet of bedspace or other space, such as trays, used for mushrooms in 1988 only once even though the space was harvested multiple times or more than one crop was grown during the year. For example, if two crops of mushrooms were harvested from an area of 20,000 square feet of bedspace, report 20,000 square feet of area used. Note in the margin of the report form the number of times mushrooms were harvested from that area. Also include in this section gourmet varieties of mushrooms, such as shitake, which were harvested in 1988.

► Section 13 - Land, Structures, Equipment, and Irrigation

The estimated market value in item 2, refers to ALL machinery and equipment kept on this place and used for the horticultural business. The value should be an estimate of what the machinery and equipment would sell for in its present condition, not the replacement or depreciated value.

► Section 14 - Sales

In item 1, report the value received during 1988, regardless of the year in which the products were harvested. Give gross values (before deducting taxes and expenses). Report total values for a product or products sold in 1988 even though full payment may not have been received in 1988.

➤ Section 15 — Selected Production Expenses

Include expenses paid by you and by anyone else for the production of greenhouse products, outdoor-grown floricultural products, nursery products, mushrooms, and sod on this place. Also include 1988 expenses incurred even if not paid in 1988. Please give estimates if you do not know the exact figures.

► Section 16 — Horticultural Labor

Expenditures for hired labor should include gross wages or salaries, commissions, paid bonuses, and leave pay BEFORE DEDUCTIONS, PLUS THE VALUE OF BENEFITS PAID BY YOU, i.e., social security, taxes, unemployment compensation insurance, etc. Do not include room and board, house rent, or other items paid in kind. Exclude employees not directly involved in the growing operation, i.e., garden center clerks.

► Section 17 — Type of Horticultural Operation and Location of Growing Operation(s)

In item 1, use the following definitions to assist you in determining the type of ownership for your operation:

Individual Proprietor or Family Operation — Defined as a business organization controlled and operated by an individual (sole proprietor). Include family operations that are not incorporated and not operated under a partnership agreement.

Partnership - Defined as two or more persons who have agreed on the amount of their contribution (capital and effort) and the distribution of profits. Co-ownership of land by husband and wife or joint filing of income tax forms by husband and wife does not constitute a partnership, unless a specific agreement to share contributions, decisionmaking, profits, and liabilities exists. Producing products under contract or under share rental agreements does not constitute partnerships.

Corporation — Defined as a legal entity or artificial person created under the laws of a State to carry on a business; does not include cooperatives. Include family operations that are incorporated.

Other — If your operation did not fall into the provided categories, mark (X) this box and describe the type of ownership that this operation existed under during 1988.

In item 2, report the county or counties where the growing activities for the operation represented by this report form occurred in 1988. If the growing operations occurred in more than one county, list all of the counties involved and estimate the percent of the total gross sales produced in each county. Check the figures to ensure that the percentages sum to one hundred

► Section 18 - Remarks and Explanations

Enter in this section an explanation if you did not report any sales in sections 1 through 12. Also add any other remarks or explanations here.

Section 19 — Person Completing This Report Form

Print the name, address, and telephone number of the person completing this report form. Also, enter the date in the space provided when the report form is completed.

We estimate that it will take from 10 to 30 minutes to complete this report form, with 24 minutes being the average time. If you have any comments regarding these estimates or any other aspect of this census, send them to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1988 Farm and Ranch Irrigation Survey, Report Form 88-A62

RM 88-A62 U.	I.S. DEPARTMENT							0.00	. 000. 0	634: Appro	
	BUREA	OF COMMERCE LU OF THE CENSUS	REPORT TO THE may be used on!	ponse to this inqu CENSUS BUREA y for statistical pu e law also provide	UIS CONFID	ENT	IAL. It ma t CANNO	ly be seen o T be used fo	nly by sw ir purposi	vorn Census es of taxatio	s employees and on, investigation
4000 - 4 - 14 - 4 - 14 - 14 - 14 - 14 -											
1988 FARM AND IRRIGATION S			Г	_							7
1201 East	f the Census it Tenth Stre iville, IN 4	et									
NOTE Consider as irrigated all land watere controlled means — sprinklers, furrow likes, etc. Include preplant, partial, s ririgation. Include irrigation of prohardland, and cropland	vs or ditches supplementa pastureland,	, spreader , or semi- hayland,	Pk	sess mention the mer of the addre (Please	e Census File ses label) if y s correct any s	on w	rite to us	about this	report.		ieft
vere harvested in 1988. See addition separate instruction sheet.	nai instructio		CENSUS 010 USE ONLY	012	014	016	3	018	020	021	022
Was any land on the farm o	or ranch you	operated in		y time in 198	87				_		
024 1 ☐ YES - Complete items 2 th	hrough 14 an	d 16	2 🗆 NC) – Skip to ite	m 15	_					
ACREAGE IN 1988									No	ne Num	ber of acres
a. All land owned						٠			🗆	_ 1	
 All land rented or leased from other taxes, etc. include leased Federal, St 	ers, including	land worked	on shares, used	d rent free, in e	xchange fo	ser	vices, pa	yments o	f _	_	
c. All land rented or leased to other							-			027	
acres enrolled in the Conservation	Reserve Pro	gram as land i	ented to othe	ers.)		٠			⊏		
d. TOTAL ACRES IN THIS PLACE				rented (item i enter your ans						028	
Em 8 LAND USE IN 1988				<u> </u>		•			-		
Distribute all acres in this place in co among items a through d. If the same						N	one Nu	mber of a	cres		mber of acre
in the first use listed below that applies.	s. (Please refe	to the INSTR	UCTION SHEE	T.)	ny once			(1)			(2)
a. Cropland (1) Cropland harvested — Include	all land from	which crops w	ere harvested	or hav was cu	t. and all		029			030	
land in orchards, citrus groves, a	and vineyards				. 	٠.					
(2) Cropland used only for pastu could have been used for crops							031			032	
(3) Other cropland — Include cro	pland used f										
			s, cropiana on	which all crop	ps failed,		033			034	
cropland in cultivated summer	fallow, and	cropland idle		which all crop	ps failed,		033			□ ⁰³⁴	*************
cropland in cultivated summer b. Woodland — Include woodland po		cropland idle					035	-			
cropland in cultivated summer b. Woodland — Include woodland p. c. Other pastureland and rangeland — d. All other land — Include any land	eastured and - Include any p I not reported	cropland idle woodland no pastureland oth above. Includ	t pastured	and woodlan		!	035 037 039				
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Included a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cressing a cress	at pastured er than croplar de land in house totals in the lit to item 2d a Averaging irrigation in the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a constant of the lit is a	se lots, se spaces. bove.) rrigated crop d supplemental le vield per ted acre vested Bushels, shalled Tons, green Bushels Bushels Bushels Cwt. Cwt. Tons, /10 dry Pounds Lbs. lint Tons	or semi-irrig Estimate water api 2	or or or or or or or or or or or or or o	33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Non-irr acr harve	Non-ligated es es es es es es es es es es es es es		ge yield per rigated acre rvested Bush shell Tons greer Bush Bush Cwt.

	IEET.)	8 — Repor ere than one	meurou, i	opor. acre	s irrigated by	escn met	noo useu,		
a. Sprinkler irrigation				None	Acres	irrigated	\neg		
(1) Center pivot									
a. High pressure (60 PSI or greater)				🗆 🧍	570				
b. Low pressure (under 60 PSI)				г	571				
(2) Mechanical-move									
a. Low Energy Precision Application (LE below leaf canopy	PA) — App	lication of w	ater	🗆 📗	672				
b. All other mechanical move systems				5	573		_		
(3) Hand move					243				
(4) Solid set and permanent system					244		7		
b. Gravity irrigation					245				
(1) Gated pipe				🗖 📗			1		
(2) Open ditch, siphon tubes				🗆 🏻	246				
(3) Flooding from underground pipe with va other gravity method (excluding methor	alves, ditche ds reported	s, canals, di above)	ikes, and an	y _ [247				
c. Drip or trickle irrigation				_ 5	248				
d. Subirrigation (water applied beneath the g					249				
water table at a predetermined depth)				🖂 📗					
METHOD OF WATER DISTRIBUTI FERTILIZERS AND PESTICIDES II							RCIAL		
(Please refer to the INSTRUCTION					X) all boxes th				
SHEET)		Method of wa	eor dietributie		Applica commercial	tion of fertilizer or	How	many times	were
		nethod of wa	Drip or	Sub-	pesticides i wa Commercial	n irrigetion ter Pesticide	CI	ops irrigate	
None	Sprinkler	Gravity	trickle	irrigation	fertilzer	application	Less than 3	3 to 7	8 or mor
a. Corn (field) for grain or seed	1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6 🗆	600 1 🗆	2 🗆	3 □
ل الـ	1 🗆	2 🗆	3 🗆	4 🗆	5 □	6 🗆	603 1 🗆	2 🗆	3 □
c. Sorghum for grain or seed	270 1 □	· 2 🗆	з 🗆	4 🗆	5 🗆	6 🗆	1 🗆	2 🔲	3 🗆
d. Wheat for grain	280 1 □	2 🗆	3 □	4 🗆	5 🗆	_ 6 🗆 _	609 1 🗆	2 🗀	3 □
e. Barley for grain	1 🗆 _	2 🗆	3 🗆	4 🗆	5 □	6 🗆	1 🗆	2 🗆	3 🗆
T. Soybeans for beans	1 🗆	2 🗆	3 □	4 🗆	5 🔲	6 🗆	615 1 🗆	2 🗌	3 □
g. Beans, dry edible	310 1 🗆	2 🗆	з 🗆	4 🗆	5 🗌	_ 6 🗆 _	618 1 🗆	2 🗆	3 □
n. Rice	1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6□	1 🗆	2 🗌	3 🗆
1. Other small grains (oats, rye, etc.)	330 1 🗆	2 🗆	3 🗆	4 🗆	5 🗆	6 🗆	1 🗆	2 🗆	3 □
j. Alfalfa and alfalfa mixtures for hay or dehydrating	1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6 🗆	627 1 🗆	2 🗆	3 🗆
k. All other hay including wild or native hay . 🔲	1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6 🗆	630 1 🗆	2 🔲	3 □
1. Peanuts for nuts	1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6 🗆	633	2 🗆	3 🗆
n. Cotton	360 1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6 🗆	636 1 🗆	2 🗆	3 🗆
n. Sugar beets for sugar	1 🗆	2 🗆	з 🗆	4 🗆	5 🗆	6 □	639 1 🗆	2 🗆	3 □
o. Tobacco, all types	380 ₁ 🗆	2 🗆	3 🗆	4 🗆	5 🗆	6 🗆	1 🗆	2 🗆	3 □
p. Potatoes, Irish	1 🗆	2 🗆	3 🗆	4 🗆	5 🗆	6 🔲	1 🗆	2 🗆	3 🗆
q. Land from which vegetables were	400				_ 1		648		
harvested	1 🗆	2 🗆	3 📙	4 🗆	5	- 6 🗆 -	1 🗆	2 🗆	3 🗆
		2 🗆					1 📙 📋	2 ∐	3 ∐
Berries	1 U		3 📙	4 📙	5 📙	6 🗆	854		
s. Land in bearing and nonbearing fruit orchards, citrus or other groves,	410						854		_
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1 🗆	2 🗆	3 🗆	4 🗆	5 🗋	6 🗆	1 🗆	2 🗆	3 □
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2 🗆	3 🗆	4 🗆	5 🗆	6 🗆	854 1 857 1 860	2 🗆	3 🗆
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2 🗆	3 🗆	4 🗆	5 🗋	6 🗆	1	2 🗆	3 [
Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2 2 2 TY OF WAT convenient for average act the of water a arm or another section is a section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect	3 3 3 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4	5	6 🗆	654 1 657 1 660 1 1	2 🗆	3 🗆
Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2 TY OF WAT convenient fof average act the of water a arm or another init most continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuous continuou	3 3 3 TER USED I	4	5	6 6 6 None 4 /10	1	2 🗆 2 🗆 2	3 🗆
B. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4	5	6 6 None 4 10 10 10 10 10 10 10	1	2	3 □ 3 □ 3 □
B. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2	3 3 TER USED I	4	5	6 6 None 4 10 10 10 10 10 10 10	s per minute	2	3 □ 3 □ 3 □
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2	3 3 7 3 7 3 7 3 7 5 7 5 7 5 7 5 7 5 7 5	4	5	None 4 /10 Total gellon No. of 24 h Total inches	sper minute	2	3 □ 3 □ 3 □
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2	3	4	5	None 4 /10 Total gallon No. of 24 h	sper minute	2	3 3 3 3 3 1 signated
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2	3	4	5	None 4 /10 Total gellon No. of 24 h Total inches	sper minute	2	3 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
s. Land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees	1	2 D 2 D TY OF WAT convenient fit average act fit average act the of water a arm or ano unit most co rs one acre of	3	4	5	None 4 /10 Total gallon None 4 /10 Total incher None 4	sper minute	2	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

ACRES IRRIGATED Off-farm water suppliers (if or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood ditches; or neighborhood d	U.S. Bureau of Reclamation commercial company or mu	n; irrigation distr Inicipal or comm	rict; mut nunity w	tual, private, vater system	cooperath	76,	None — G	io to item 7	- Acres irrig
(1) How much water was	received?				455		Total acre	e-feet	- Acres and
	eived — Include all assessme ter suppliers				. \$. 00	Dollars or	niy	
a. If water was received	d at no cost, check					No cost			
	our regular allocation of wate					Yes — En: 458	ter number	of acre-feet	7
					2 [_
NUMBER OF IRRIG	ATION WELLS ON THIS I	PLACE IN 1988	3, WELL	DEPTH, AP		ING CAP	ACITY		
. Wells used in 1988			<u></u>			Nu	mber of we	ells used	
				r number of fe				capacity je from well)	Operati pressu
		Depth of well	Depth to of irrig	water at start ation season	Pumping de to bowls o	epth (Depth r impellers)		BPM	PSI
(1) For places with 5	Well number 1	461	1		2		3		676
or less wells pumped in 1988, report the	Well number 2	465	1	_	2		3		677
following information	Well number 3	469	1		2		3		678
	Well number 4	473	1		2		3		679
	Well number 5	477	<u> </u>		2		3		680
(2) For places with more than 5 wells pumped in 1988, report the		Average depth of well	at star	depth to water t of irrigation season	Average depth ((bowls or	Depth to	(Discharg	ump capacity se from well) SPM	Averag operating pi PSI
average for all wells	All wells	481	1		2		3		681
Does any part of your syste PUMPS, OTHER THE report all pumps on this place,	IAN WELL PUMPS, ON THE	ntion devices? . HIS PLACE IN a or not, USED FO	1988 DR —	None		es 2 No	0	Average di	ischarge cap
Does any part of your syste	om contain back-flow-prevention well PUMPS, ON The whether they are in service	ntion devices? HIS PLACE IN and an analysis of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	1988 OR —	None	Nu 490 492	∕es 2 □ N	0	Average di	
Does any part of your syste PUMPS, OTHER TH report all pumps on this place, Tailwater pits Ponds, lakes, reservoirs, riv Relifting or boosting water	IM CONTAIN back-flow-preven IAN WELL PUMPS, ON THE , whether they are in service vers, etc.	ntion devices? . HIS PLACE IN . or not, USED FO	1988 OR —	None	90 Nu	∕es 2 □ N	0	Average di	
Does any part of your syste PUMPS, OTHER TH deport all pumps on this place, . Tailwater pits . Ponds, lakes, reservoirs, riv . Relifting or boosting water PUMPING IRRIGAT	with system HIS PLACE IN 1988 FOR FIOR WATER BY POWER 1988 FULL STRUCTION SHEET.)	ntion devices? . HIS PLACE IN . or not, USED FO	1988 OR — vells or ered by	None	Nu 490 492 494	res 2 Number of pu	0	Average di	GPM
Does any part of your syste PUMPS, OTHER TH Peport all pumps on this place, Tailwater pits Ponds, lakes, reservoirs, riv. Relifting or boosting water PUMPING IRRIGAT SOURCE — Include 1 (Please refer to the IN)	IN CONTAIN BACK-flow-preven IAN WELL PUMPS, ON THE WHETHER THEY ARE IN SERVICE WITHIN SYSTEM WITHIN SYSTEM WHIS PLACE IN 1988 FOR TION WATER BY POWER 1988 fuel adjustment cost. STRUCTION SHEET. None	Ation devices? HIS PLACE IN or not, USED FO Number of youngs power.	1988 OR — vells or ered by	None	Nu 490 494	res 2 Number of pu	o mps quantity uel used	Average di 491 493 Acres i of	GPM
Does any part of your syste PUMPS, OTHER TH Peport all pumps on this place, Tailwater pits Ponds, lakes, reservoirs, riv. Relifting or boosting water PUMPING IRRIGAT SOURCE — Include 1 (Please refer to the IN)	whether they are in service vers, etc. within system HIS PLACE IN 1988 FOR HIS PLACE IN 1987 POWER STRUCTION SHEET.) None	Number of v	1988 OR — vells or ered by	None Total cost c Dollars	Nu 490 492 494 Of fuel used Cents	res 2 New New New New New New New New New New	quantity uel used	Average di 491 493 493 Acres i of 497 wh	GPM
Does any part of your syste PUMPS, OTHER TH report all pumps on this place, Tailwater pits Ponds, lakes, reservoirs, riv. Relifting or boosting water PUMPING IRRIGAT SOURCE — Include 1 (Please refer to the IN)	within system HIS PLACE IN 1988 FOR 1988 fuel adjustment cost. STRUCTION SHEET.) None	Number of pumps power type of energy	1988 OR — vells or ered by	Total cost of Dollars	9 Nu 490 492 494 Cents OO	mber of pu	mps quantity sel used K.	Average di 491 493 Acres of vh 497	GPM
Does any part of your syste PUMPS, OTHER TH deport all pumps on this place, Tailwater pits Ponds, lakes, reservoirs, riv. Relifting or boosting water PUMPING IRRIGAT SOURCE — Include of (Please refer to the IN.) Electricity Natural gas	whether they are in service vers, etc. within system HIS PLACE IN 1988 FOR FION WATER BY POWER 1988 fuel adjustment cost. None	Number of pumps power type of energy	1988 OR — vells or ered by	None Total cost c Dollars 496 \$ 499 \$ 302	90 Nul 490 492 494 Cents 00 00	Total of fu	quantity rel used	Acres of 491 493 Acres of 497 wh 500 Acres 503	GPM
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Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number Number N	Total of fu	quantity used used K. M. G. G. G. PLACE I	Average di 491 493 Acres i of 500 Acres i 503 ial. 506 ial. N 1988 Purpose c Mark (X) p Replace- c ment c 1	of expenditurincipal purposes Next and State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State Sta

Form 88-A62

Item 12 IRRIGATION PRACTICES IN 1988		
a. How did you decide when to apply water in 1988? — Mark (X) all that apply 527 1 Condition of crop (observation)		
2 Feel of the soil		
3☐ Use of soil moisture sensing devices such as moisture blocks or tensiometers		
4 Use of commercial scheduling service		
5☐ Media reports on crop-water needs (newspapers, radio, and TV)		
© Water delivered by irrigation organization in turn (no choice by water user)		
7 By calendar schedule		
s□ Other — Specify		
	-	
b. Did you have to discontinue irrigation during 1988 long enough to AFFECT crop yields?		
669 1 ☐ Yes — If "Yes", answer the following. 2 ☐ No — Go to item 13 (Mark (X) all that apply) ¬		
670 1 Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc.)		
2☐ Shortage of ground water (lowering water level of wells or depletion of ground water)		
3☐ Irrigation equipment failure		
₄□ Energy shortage		
₅☐ Poor water quality		
6 ☐ Loss of water rights		
7☐ Cost of water		
8 Other - Specify	-	
Item 13 OTHER USES OF IRRIGATION WATER ON THIS PLACE IN 1988		
Was irrigation used for any of the following secondary purposes?	None	Acres on which applied
a. Prevent freeze damage		440
b. Crop cooling to delay early budding or blooming		441
· ·		442
c. Leaching to remove salts from the soil (salinity control)		443
d. Other — land disposal of liquid livestock waste, etc. — Specify		•
	_ 🗆	
1 Yes – If "Yes", answer the following: 7 2 No – Go to item 15	.,	Number of acres
On how many acres did you use these techniques?	None	672
a. Irrigation water captured for further use (tailwater pits)		673
b. Surge flow or cablegation technique		
c. Use of any special furring techniques, such as wide-spaced bed furrowing, compacted furrowing, or		674
furrow diking — Specify technique used $\sqrt{}$		
•	_	
Item 15 IRRIGATED LAND IN 1987		
a. Was any land irrigated on this place in 1987? Do not answer this item if you irrigated any land in 1	988.	
528 1 ☐ Yes — Answer b and c below 7 2 ☐ No — Go to item 16		
b. Reason for not irrigating in 1988 — Mark (X) any of the following that apply:		
529 1 ☐ Sufficient soil moisture — no irrigation needed		
2☐ Shortage of surface water (water from reservoirs, lakes, streams, water supply organizations, etc	. 1	
3☐ Shortage of ground water (lowering water level of wells or depletion of ground water)	,	
4☐ Irrigation uneconomical due to high fuel and power costs and/or low commodity prices		
5☐ Irrigation equipment failure		
6☐ Loss of water rights		
7☐ Sold water rights		
8☐ Other – <i>Specify</i>		
•		
Do you consider your discontinues of indeed on the party of the		
c. Do you consider your discontinuance of irrigation to be permanent?		
530 1 Yes		
2 □ No		
Item 16 PERSON COMPLETING THIS FORM — Please print		
		Talant
Name Date		Telephone Area code Number

FORM 88-A62(I)

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

ADDITIONAL INSTRUCTIONS FOR THE 1988 FARM AND RANCH IRRIGATION SURVEY

In completing the questionnaire, if exact figures are not available, give your best estimate. An estimate is more useful than an omitted answer.

▶ Item 3.1 — LAND USE — All acres "In This Place" should be reported only once, in the first category that applies.

Similarly, for each category of land use, report the acres irrigated in 1988 in the appropriate category.

Report all cropland, pastureland, and rangeland watered by artificial means at any time during 1988. In addition to fully irrigated land, report as irrigated any lands to which partial, supplemental, or semi-irrigation was applied. Also include any acreage which received only preplant irrigation (watered before planting). Haylands, pastureland, or rangeland should be reported as irrigated if spring flood water was spread by canals, ditches, spreader dikes, pipes, or other works.

▶ Item 3.2 — IRRIGATED AND NON-IRRIGATED CROP YIELDS — For each crop harvested, report separately the acreage and average yield from irrigated land and non-irrigated land.

Report harvested crops as irrigated if any water was artificially applied either before planting or during the crop growing season in 1988. Report the crop as irrigated if water was applied to supplement rainfall, even if the amount of water applied was not sufficient to obtain maximum yields.

Please give your best estimate of the quantity of water applied per acre for each irrigated crop. Report in either average acre-feet (one acre-foot covers one acre one foot deep) or total inches applied.

- ▶ Item 4 METHOD OF WATER DISTRIBUTION This item refers to the method used to spread water over the land. Report the acres of land irrigated by each type of field distribution system listed. Do not report information for the delivery system used to convey water from the source to the field, instead report information for the FIELD distribution system used.
- ▶ Item 5 METHOD OF WATER DISTRIBUTION, ETC., BY SELECTED CROPS Pesticides include chemicals used to control insects, weeds, nematodes, and diseases. Check the appropriate box if ANY commercial fertilizer or pesticides were used on a crop, even if only a portion of the crop was treated.

Report the maximum number of times any field for a crop was irrigated. Include the number of preplant irrigation applications in this figure.

▶ Item 9 — ENERGY USE FOR IRRIGATION PUMPING — Report the expenditures for fuel and power used in 1988 for irrigation pumping by each type of energy used on this place. Include in the cost figures any additional charges such as the "fuel adjustment charge" or any other type of additional charge which is based on the amount of power or fuel purchased.

Also report the total quantity of fuel used in the units specified and the acres irrigated by each type of energy used on this place. Again, give best estimates if actual figures are not available.

- ▶ Item 10 MAINTENANCE AND REPAIR COSTS Report all expenses in 1988 for keeping irrigation equipment and facilities in working order. Include expenses for tune-ups, oil changes, and repairs to pumps, motors, pipes, canals, sprinkler systems, etc. Also include expenses for ditch and canal cleanout.
- ▶ Item 11 IRRIGATION EXPENDITURES Report expenditures made in 1988 for the construction of irrigation facilities and purchase of irrigation equipment and machinery on this place. Include estimates of expenditures made by or shared with others (landlords, government agencies, etc.). Report cost of maintenance and repairs in Item 10.

NOTE — Based on tests with farmers and ranchers, it takes from 30 to 60 minutes to complete this form with most operators completing it in 43 minutes per response. If you have any comments regarding these estimates or any other aspect of this survey, send them to the Associate Director for Management Services, Room 2027, Bureau of the Census, Washington, DC 20233; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1988 Agricultural Economics and Land Ownership Survey, Report Form 88-A9A, Operator's Report

	TE: 30 DAYS AFT	ER RECEI	PT OF FORM							OMB No. 060	7-0630: Approval E	xpires 09/30/9		
FORM (9-12-88)	88-A9A		U.S. DEPARTMENT OF BUREAU OF	COMMERCE THE CENSUS	TO TH	CE - Response to thi IE CENSUS BUREAU I	S CONFIDENTIAL	L. It may	be seen only by	sworn Čensus (employees and	i mav be		
19			AL ECONOMICS	AND	regulat	only for statistical pur tion. The law also prov	vides that copies	retained in	your files are in	mune from lega	ation, investig	ation, or		
			RSHIP SURVEY R'S REPORT		in corres	In correspondence pertaining to this report, please refer to your Census File Number (CFN) 88-A9A								
					İ	_					58-A9A			
	e complete this and RETURN TO		BUREAU OF THE CENS 1201 East Tenth Street Jeffersonville, IN 4713			,					1			
1			nerican farmers are changi know facts such as:	ng.	ļ									
	The relative del		of farmers perating expenditures, and											
Thee	the amount	and source	es of income of farmers problems can be examined	only by	l									
obtaii give t	ning information from he best answers yo	m you and i u can, mak	the other survey respondent king estimates when you do	s. Please not have										
exact confid to you	dentiality is maintai u.	ned. Please	be combined with others e answer each question that	so that t applies	}									
CENS USE	US 035	036	037 038											
ONLY						Please correct errors	in name, address	s, and ZIP	Code. ENTER st					
SEC	build	ings (Sec	1988 AND CURRENT	clude all ci					Number of	these acres	current marke including the	dwellings		
	Wood	iland, was	steland, idle land, house l	ots, etc.				None	acres		er buildings on Pollars	them.		
		IOLI I AME	OWNED						043	044		00		
2. A	LL land rented or lea	sed FROM	OWNED OTHERS, including land wor	ked on sha	res; leased	l Federal, State, and ra	ilroad land; and	į	045	046				
la	nd used rent free. (C	o NOT incl	lude land used on a per-head i 'HERS, including land worked	basis under	a grazing p	permit.) Also complete	item 5 below	. 🗆 [047	048		00		
			the Conservation Reserve Pr					. 🗆	049	\$		00		
			CE" (Please ADD acres owners (item 3 above), and enter (above), then	[e the ACRES i for this survey			
,,	THIS PLACE" mean	s your farm	n or ranch, feedlots, poultry l	nouses, gre	enhouses,	and/or any other agric	ultural operations	s.		-				
5. If	you rented land FRO	M OTHER	S (item 2 above), please ente	r the follow	ring inform	nation for each landlord	<u>:</u>							
		•	Name of landlord				Mailing a	ddress c	flandlord			nber of s rented		
F	irst name, middle in	itial, last na	ame			Number and street	or rural route and	box numi	per		280			
						City			State	ZIP Code				
F	irst name, middle in	itial, last na	ame			Number and street	or rural route and	box numb	per		281			
ļ						City			State	ZIP Code				
F	irst name, middle in	itial, last na	ame			Number and street of	or rural route and	box numb	per		282			
						City			State	ZIP Code				
F	irst name, middle in	itial, last na	ame			Number and street of	or rural route and	box numl	Der		283			
						City			State	ZIP Code				
F	irst name, middle in	itial, last na	ame			Number and street of	or rural route and	box numb	per	1	284			
						City			State	ZIP Code		:		
L	 _			Nur	nber	-				1				
m	any additional landle	ords do you		061										
ac	iditional landlords o	n the contii	nuation sneet	L			Acres		tal cash rent					
						None	cash leased	063	ollars Cents					
7. H	ow much total cash	rent did yo	ou pay for acres leased during	1988?				\$	00					
PLEA READ		ay be able of this form	to skip b. There were in if c. The land you	no crops or a operated l	livestock in before 198	from others was rented in 1988 on the acres in 88 has been sold and is blease explain in section	"THIS PLACE" (now operated by	item 4 ab	ove). else.		the return envi	elope.		
						·	· ·	Acre	Sale	es value				
Q 144	ac any form or re1	a land anti-	by you in 1992 to-				None 06		Doll:	ers Cents				
			by you in 1988 for — es?						\$ 067	00		•		
b.	Other purposes?						i		\$	00				
ot	erator was employe	ed as a farn	n item 4 above a managed op n manager?						ı □ YES	2 NO	•			
1 U. in	1988, did you purcl ch as recordkeeping	nase profes J, farm prac	ssional or färm management : ctices advice, financial planni	services ing, rent co	llection, et	tc.?		204	□ YES	2 🗆 NO				

SECTION 2 AGRICULTURAL LA				IF NO LAND ACQUIRED I	IN 1988 —				
	refer to acres owned as re O LAND WAS OWNED, S		ı	SKIP TO ITEM 7.	W 1500 —	Market val		Amount fir	neoced
	Acres	Estimat market v		6a. If you acquired land in 19 PLEASE report estimated market value of land and	88, None	December 31, Dollars	1988 Cents	Dollars 197	Cents
	140	Dollars	Cents	buildings acquired and amount financed		\$	00	\$	oo
1a. Copy reported acres from section 1, item	1						·L	•	
b. How many of these acres owned during 1988 were still owned by you on December 31, 1988? Report the market value of these owned acres	142	143	00						
Using the market value reported in item 1b VALUE, please estimate the market value		ne 051		b. if you financed land purchased in 1988 (item above), please enter the	6a		Γ		
a. Operator dwelling if on acres in 1b	🗆	\$ 052	00	amount financed from the following sources:	e		None	Amount fi	Cents
b. Dwelling(s) for hired labor if on acres in	n 1b	\$ 053	00					198	1
c. All other buildings and structures on ac	res in 1b] \$	00	1. Federal land bank	• • • • • • • • • • • • • • • • • • • •			\$ 199	00
d. Land (excluding buildings)		055	00	2. Farmers Home Admin	istration			\$ 200	00
as cand texchiding bollowings)		/ L		3. Insurance companies				\$ 201	00
3. Of the land owned by you on December 3' (item 1b), how many acres were obtained		ne Acres		4. Commercial banks/sav	vings & loan compa	nies		\$ 202	00
a. Purchase from non-relative	🗆			5. Other (Include seller I	financing)			\$	00
b. Purchase from relative	C	146							
c. Inheritance or gift	🗆	147							
d. Other — <i>Specify</i>	🗆]	[7a. Report the following info	rmation				
			ł	for land you owned on December 31, 1988 and	leased				
TOTAL (Should equal acres in item 1b	.1	148		to others.					
TOTAL (Should equal acres in item 15	<i>y</i>				Number Total a	20100	t value s leased	Value o	
4. For all the farm and ranch land owned on I (item 1b), please report the number of acre		ne Acres		• Type of lease None	151 155	Dollars	s Cen	ts Dollars	Cents
land use categories:	es in the tollowing 140h	171		1. Cash		\$	00	\$	00
a. Cropland	□	172		<u>.</u>	152 156	160 \$. 00	164	00
b. Orchard/vineyard	□	173		2. Share	153 157	161	00	165	i -
c. Cropland used for permanent pasture .	🗆	ı 📗 💮		3. Cash/share .	154 158	162		166	00
d. All other pasture or rangeland	_	174		4. Other		\$	00	\$	00
	_	175							
e. Forest/woodland not pastured	L	176							
f. Other (farmstead, wasteland, roads, d	itches, etc.)]					_		
		177		 b. What were the expenses leased to others in 1988. 	(Include your estin	nate of taxes,	None	Dolla:	rs Cents
TOTAL (Should equal acres in item 1b)			insurance, and inputs you production on land lease	u made to the agriced to others.)	ultural			00
Please report land ACQUIRED and/or SOLI time period and the total acreage OWNED (December 31).			:						
Land owned on I Land owned December 31 I (Acres)	Land acqui	uisposei	d of	8. For CASH LEASES report item 7 above, how many		Number of cash	leases	Acre	
of year below (1)	(2)	(Acre:		adjustment of rental pays the event of unusual or	ment in	167		168	
1988 Duri	ing 1988			exceptional conditions?	🛮	l.			
1987 198	3 - 1987	190							
1982 197	9 - 1982	191							
1978 197	5 — 1978	192		9. Of the farm and ranch land	d you owned on		None	Acre	
182	0 - 1974	193		December 31, 1988 (item were enrolled in the Feder	i 1b above), how mi ral Conservation	•	_	189	
19/4	0 - 13/4			Reserve Program?		• • • • • • • • • • • • • • • • • • • •			

FORM 88-A9A (9-12-88)

s	FOR THE AGRICULTURAL OPERAT These items concern the kinds of purchases items.	ION			S	DESTS AS OF DECEMBER 31, 1988 (See enclosed information sheet.) The data to be reported are those owed as of	 -		
	during 1988 for agricultural operations on "T REPORTED IN SECTION 1, Item 4. Report the purchases or expenditures. (See enclosed inf	HIS PL	ACE" AS			The debts to be reported are those owed as of December 31, 1988 staining from the operation the acrea reported in section 1, Itan 4 "THIS PLACE." (Exclude landlard debt.)	of:	Total amount ow Decamber 31	red on
	Capital expenditures for "THIS PLACE" during 1988		Total cost purchases expenditur in 1988	OF .		Source of debt	None	(Exclude in unless pes	terest
		None	Dollars	Cents	١.	Federal Land Banks (or Federal Land Bank Associations)		091	00
1.	Expenditures for improvements on land such as				1		_	092	1
	irrigation improvements, land preparation, well drilling, ponds, drainage, roads, feedlots, fences, trench silos, lagoons, etc. (Exclude moveable equipment)		073	00	2	2. The Farmers' Home Administration		\$	100
2.	Expenditures for buildings and structures — Include new or	_		1	3	Commodity Credit Corporation loans	_	093	
	additions to dwellings, barns, shelters, milking pariors, hog houses, poultry houses, crop storage, siles, etc.		074	00		a. On crops	L	094	00
	(Exclude repairs)		075	00	i	a. For crop storage facilities		095	00
3.	Purchases of tractors and farm machinery (Report total	Ц	076		4	- Insurance companies (Exclude premiume due)		\$	00
	cost minus trade-in values) b. Used		077	00	١.	. Commercial banks and savings banks (national or		096	1
4.	Purchases of all trucks and autos (Report total cost minus trade-in values)		\$ 078	00	ľ	State banks, trugt companies, etc.)	<u>.</u> □.	8	00
5.	Purchases of breeding livestock and dairy cattle (Report all other livestock purchases in section 3b, item 2.)		8	00	٥	Individuals from whom you bought part or all of this acreage —		097	
	All other agricultural capital purchases — include moveable	_		1		a. Under a mortgage or dead of trust		98	00
"	irrigation equipment and machinery such as pipes, siphons, nozzles, pumps, and engines; other motor driven vehicles		-	1		b. Under a land purchase contract		8	00
	such as airplanes or other special use vehicles and equipment that were used on this place (Exclude capital		079	į				099	i
S	purchases covered above) CTION 3B AGRICULTURAL OPERATING EXPENSE	B and a	other purchase	1 00	7	Production credit associations		*	00
	for this place during 1968. Do not include a taxes, cash rent; expenditures for the purcha machinery; expenditures for the farm dwellin	e of la	nd, buildinas, or		8	Cother lenders —		100	00
	estate taxes, insurance, and other items; elec PAID BY LANDLORDS, and value of frame fur	EXCL	ude expenses			a. State and county lending agencies	П		100
		•			İ	 Mortgage compenies, real estate agents or dealers, savings and loan associations, agricultural credit 		101	į
		None	Total exper	Cents		corporations, credit unions, livestock loan companies, and Small Business Administrations, etc		8	00
1.	Expenditures for feed — grain, hay, silage, mixed feeds, concentrates, etc		\$	00	9	Merchants and dealers, including cooperatives, mail order companies, farm machinery companies, and other manufacturers. (Exclude debts on 30-dey accounts) for purchase of —			
2.	Purchases of livestock and poultry other than breeding		081	1		a. Tractors and farm machinery, including repairs	п	\$	00
	stock and dairy cattle (Report breeding stock and deiry cattle purchases in section 3A, item 5 above)		9 082	00					1
3.	Purchases of fertilizer		\$ 090	00		 Autos and trucks , including repairs, gasoline, oil, other fuel, feed, seed, fertilizer, livestock, poultry, and other purchases for the operation of this acreege from 	•-	103	1
4.	Purchases of herbicides and pesticides		\$	00		merchants and dealers, including building supplies, fencing, hardware, customwork, and similar purchases		8	00
5.	Expenditures for hired and contract labor (Report gross cash payments to employees, including peid family members, before deductions for Social Security, taxes,		083		10	Any other individuals, reletives, friends, lendlords, estates, etc. (Exclude debts on 30-day accounts)		104 \$	00
	insurance premiums, etc. See information sheet.)		084	00	۱.,	. Unpaid bills for veterinary services, utilities, past due taxes or			
6.	Purchases of gasoline, diesel fuel, LP gas, other fuel, motor oil, and gresse for farm use only		8	00	l''	insurance premiums, and debts for other purposes relating to this acreege. (include all debts on accounts you do not	_	105	1
7.	Interest and service charges on:	_	085		S	expect to pey in 30 days)		\$	00
	a. Farm real estate debt		086	00	Ĭ	SOLD DURING 1988	PRU	DUCIS	
	b. Farm operating debt		\$	00		(See anologed information sheet.)			,
8.	Personal property taxes on livestock, machinery, and other farm probability of the second color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for machinery and color for ma		087 \$	00					
	taxes in section 9)	ш.			1	What was the total market value of farm products (crops, livestock, poultry, and products, stc.) sold from this place in	None	Dollars	Cents
9.	Insurance premiums for all types of crops, livestock, machinery, and buildings. (Include farm share for auto and truck insurance)		\$	00		1988? INCLUDE THE VALUE OF THE LANDLORD'S AND/OR CONTRACTOR'S SHARE, estimating if necessary. Also include value of government CCC loans, but exclude sales of		106	1
10.	All other agricultural OPERATING expenditures such as machine hire, customwork, seeds, containers, water, transportation and marketing charges, utilities, upkeep of				2	forest products. If you rented or leased land from others on a shere basis, what was the value of the landlord's shere of the total		107	00
	ferm buildings, machinery and fances, drains and irrigation systems, feed drying and grinding, veterinery services and supplies, storage charges, lime and soil conditioners, and general business expenses.		089	00		sales reported in item 1 above?			00
	98-A9A (9-12-88)			1	_				

c	SCTION C PROPUSTION CONTRACTO				COLION 104			
ં	PRODUCTION CONTRACTS Did you have any contract to produce any crop, poultry, or livestock	products in			BUSINESS ASSETS OWNED BY TO OPERATION	IE FA	RM	
	1988? Do not include marketing only contracts. (See enclosed infor for definitions).	mation sheet			(See enclosed information sheet.)			
	1 ☐ YES — Complete this section 2 ☐ NO — Go to section 7						Current ma value of ass owned as	ets of
4	Estimate the total market value of your production	Dollars 109	Cents				December 31	
•	under contract (Report only for production moved off this place in 1988).	\$	00			None	Dollars 121	Cents
	Specify items under contract 7			1	Farm share of autos and trucks (percent farm			i
	•			'	use × total market value)		122	00
				2.	Tractors, farm machinery, tools, and equipment		\$	00
		110	<u> </u>	3.	Crops produced and stored and still owned on December 31,		:	1
2.	How much did you receive for your production under contract? (Include any management fees received.)	\$	00		1988. (Exclude crops under government CCC loans.)		123	į
3.	What is your estimate of the cost of items and services	111			a. On-farm		124	00
	provided to you under these production contracts?	\$	¦ 00			_		
S	INCOME AND EXPENSES FROM OTHER SOURCES IN 1988. Do not include incomposition 5 and expenses reported in section 5.	e reported in			b. Off-farm		125	00
	Information sheet.) Report amount received before taxes Non	Dollars	Cents	4.	Beef, dairy, hogs, sheep, poultry, and other livestock		s	00
1.	INCOME		1		(horses, mink, bees, fish, rabbits, etc.)		-	1
	 Payments received by this operation for participation in FEDERAL FARM PROGRAMS and any DIRECT federal or state operations are produced in 1999 (Included Application). 	112]_			126	
	state payment received in 1988. [Include deficiency payments, conservation reserve payments, disaster payments, etc. Exclude CCC loans.]	\$	00	5.	Purchased feed, seed, fertilizer, fuel, chemicals and other inputs on hand		\$	00
	b, Gross income from ALL OTHER farm-related sources,		1 1				127	1 .
	customwork, machine hire, recreational services, boarding, lodging, lease of allotments, sale of forestry			6.	Stock in Federal land banks, production credit associations, and other farmer cooperatives		\$	00
	products, Christmas trees, gum for naval stores, and all other businesses or sources of income closely related to	113						į į
	this agricultural operation. (Exclude gross cash rent and share payments.)	\$	00	7.	All other assets of this FARM OPERATION (cash, bonds,		128	!
2.	EXPENSES				certificates of deposit, savings and checking accounts, and money owed to this operation, including crops and			1
	From ALL OTHER farm-related sources reported in items 1a and 1b above, enter the total estimated expenses paid by	114		s	livestock sold for future payment.)		\$	100
	you and others in 1988. (Include all cash operating expenses, taxes, interest, insurances, etc. DO NOT include any	11.4			Report for the farm operator, senior			
C	expenses already reported in sections 3A and B.)	\$	00	}	partner, or hired manager's househ (Do not include assets reported in	old.		
3	NET CASH FARM INCOME OF PARTNEI PLACE (See enclosed information sheet is	inder general			section 10A above; see enclosed information sheet.)		Current mar	
	information, item 2 for definition of open partnership.)	itor within a	İ				value of ass	of
1.	Was this place operated as a partnership in 1988?		ļ				December 31,	
	115 1 YES - Complete this section		l			None	Dollars	Cents
	· 2 NO — Go to section 9	Numbe	or	١.	Total value of cash; checking, savings, and money market		129	1
2.	How many total partners were involved in this partnership operation in 1988 (including yourself)?			''	accounts; Certificates of Deposit; U.S. Savings Bonds and other bonds; and money owed to you		\$	00
	117				, , , , , , , , , , , , , , , , , , ,		130	1
3.		ess than 10 per		2.	Corporate stock, cash surrender value of life insurance, and all other financial assets		\$	00
	farm-related sources) was received by the OPERATOR as 2 4	0 to 29 percent 0 to 49 percent		ļ				!
	4 🗖 1	iO to 69 percent	:	3.	Off-farm operator dwelling, if owned (Do not include value reported in section 2, item 2b.)			i i
S		0 percent and c	never	İ	a. What was the estimated market value of this dwelling		131	I I
	THE REAL COTATE TAXES				as of December 31, 1988?		\$	00
	Did you report owning any farm or ranch land in 1988? (Section 1, item 1)						132	1
	Secuon I, Item I)							00
	268 1 YES - Complete this section (See enclosed information)	ion sheet.)			b. What were the debts owed on this dwelling as of December 31, 1988?		\$	+
	***	Acres			December 31, 1988?		\$	1
1	288 1 YES — Complete this section (See enclosed informed 2 NO — Go to section 10 Report the number of acres of farm or ranch land shown on			4.	December 31, 1988?		\$	
1	1 ☐ YES — Complete this section (See enclosed informet 2 ☐ NO — Go to section 10	Acres	Cente	4.	December 31, 1988? Other assets owned and debts — Include real estate and businesses not part of this operation, such as farm input and processing enterprises, beauty shops, etc.; second/vacation homes and recreational vehicles; the		\$	
1	288 1 YES — Complete this section (See enclosed informed 2 NO — Go to section 10 Report the number of acres of farm or ranch land shown on	Acres	Cents	4.	December 31, 1988? Other assets owned and debts — Include real estate and businesses not part of this operation, such as farm input and processing enterprises, beauty shops, etc.;		133	
1.	1 ☐ YES — Complete this section (See enclosed informat 2 ☐ NO — Go to section 10 Report the number of acres of farm or ranch land shown on your 1988 Real Estate tax bill(s)	Acres 118 Dollars		4.	December 31, 1988? Other assets owned and debts — Include real estate and businesses not part of this operation, such as farm input and processing enterprises, beauty shops, etc.; second/vacation homes and recreational vehicles; the household share of autos and trucks; and machinery and equipment for nonfarm uses, etc. a. Estimated market value of these assets, as of			00
1.	1 YES — Complete this section (See enclosed informat) 2 NO — Go to section 10 Report the number of acres of farm or ranch land shown on your 1988 Real Estate tax bill(s). What was the assessed value of farm and ranch land and buildings, and other improvements shown on your real estate tax bill(s) for 1988?	Acres 118 Dollars	Cents	4.	December 31, 1988? Other assets owned and debts — Include real estate and businesses not part of this operation, such as farm input and processing enterprises, beauty shops, etc.; second/vacation homes and recreational vehicles; the household share of autos and trucks; and machinery and equipment for nonfarm uses, etc.		133	
1.	1 YES — Complete this section (See enclosed information 2 NO — Go to section 10 Report the number of acres of farm or ranch land shown on your 1988 Real Estate tax bill(s)	Acres 118 Dollars		4.	December 31, 1988? Other assets owned and debts — Include real estate and businesses not part of this operation, such as farm input and processing enterprises, beauty shops, etc.; second/vacation homes and recreational vehicles; the household share of autos and trucks; and machinery and equipment for nonfarm uses, etc. a. Estimated market value of these assets, as of December 31, 1988		133	00
1. 2.	1 ☐ YES — Complete this section (See enclosed informat 2 ☐ NO — Go to section 10 Report the number of acres of farm or ranch land shown on your 1988 Real Estate tax bill(s). What was the assessed value of farm and ranch land and buildings, and other improvements shown on your real estate tax bill(s) for 1988? What was the total amount of farm and ranch real estate	Acres 118 Doltars			December 31, 1988? Other assets owned and debts — Include real estate and businesses not part of this operation, such as farm input and processing enterprises, beauty shops, etc.; second/vacation homes and recreational vehicles; the household share of autos and trucks; and machinery and equipment for nonfarm uses, etc. a. Estimated market value of these assets, as of December 31, 1988		133	

266 APPENDIX F

FORM 88-A9A (9-12-88)

Page 4

Page 5

Form 88-A9A

SECTION 11 OFF-FARM INCOME DURING 1988 AND HOUSEHOLD SIZE (See end for the farm operator, senior partner, or hired manager's household. 1. How much did you and persons living in your household receive in 1988 from each of the following sou a. Cash wages, salaries, tips, military pay, commissions, piece-rate payments, and cash bonuses (rep deducting income taxes and other withholding items.) (1) Nonfarm jobs (2) Other farm and ranch work — Exclude customwork reported in section 7, item 1b. (3) Wages paid to household members for work on this place b. Operation of self-employment business (not reported in section 7) or professional practice. Report c. Retirement and/or disability (1) Social Security (2) Other public retirement or disability payments (government, military, or railroad). (3) Private pensions d. Public assistance, Supplemental Security Income, and unemployment compensation e. Interest and dividends f. Net income from estates or trusts, rental income from nonfarm properties, royalties for mineral lease g. Annutities, alimony, regular contributions from persons not living in the household, and money incom h. Gifts or inheritance i. Net gain from sales of items such as real estate, machinery, stocks, allotments, and bonds (not inchinate)	nces? nort amount before net after cash expenses (Net Cash Income) es. (Exclude one-time settlements.)	100 208 000 208 000 209 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000
SIZE OF HOUSEHOLD 2a. How many persons were in your household on December 31, 1988? Include yourself (operator or senice).	Number partner) 219	
spouse, children, and others living in your household b. How many were under 16 years of age?	220	
SECTION 12 OFF-FARM WORK AND EDUCATION (See enclosed information sheet.)	Column 1	NO SPOUSE Column 2
NOTE: Answer column 1 for operator. Answer column 2 for spouse; if no spouse mark (X) box top of column 2.	REPORT FOR OPERATOR	REPORT FOR SPOUSE
Education — What was the highest grade (or year) of school ever completed?	1 Less than 8 4 13-14 2 9-11 5 15-16 3 12 6 17 or more	1 Less than 8 4 13-14 2 9-11 5 15-16 3 12 6 17 or more
Off-farm work — Did you or your spouse work for pay at an off-farm job during 1988? (Include self-employment business or professional work. Exclude exchange farm work.) If more than one off-farm job, describe the one at which the most hours were worked.	1 YES — Complete this column 2 NO —If no for both, skip to section 13. If spouse is Yes, complete column 2	311 Spouse did not work off-farm
a. For whom did you or your spouse work? (Name of company, business, organization, or other employer.)		Specify
What kind of business or industry is this? (Public school, road construction, auto repair, State Labor Dept., farm, etc.)	Specify	Specify
What kind of work were you (or your spouse) doing? (Electrical engineering, stock clark, typist, farm or ranch worker, etc.)	Specify	Specify
d. What were your (or your spouse's) most important activities or duties on the job? (Types, sell cars, operates a truck, finishes concrete, keeps accounts, etc.)		Specify
Were you (or was your spouse): Employee of another farm or ranch? Employee of a private company, business or individual, for wage, salary, or commission? Federal, State, local government, or school district employee? Self employed — operating an incorporated farm related business? Self employed — operating a nonincorporated farm related business? Self employed — operating an incorporated nonfarm related business or professional practice? Self employed — operating a nonincorporated nonfarm related business or professional practice?	2	1
3. How many hours per week were normally worked for pay at this off-farm job?	Hours	Hours
4. How many weeks per year were normally worked at this off-farm job?	Weeks	Weeks
5. How many miles were traveled one way to work at this off-farm job?	Miles COMPLETE COLUMN 2	Miles
SECTION 13 REMARKS AND EXPLANATIONS SECTION 14 PERSON COMPLETING THIS REPORT — Please print Name 287 Date		code Number
ORM 88-A9A (9-12-88) Page 6		

FORM 88-A9A(I) (10-13-88)

DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

INFORMATION SHEET

1988 AGRICULTURAL ECONOMICS AND LAND OWNERSHIP SURVEY

General Information

Changes in the agriculture sector have created a demand for current data on farm assets and liabilities, farm debt, land ownership, etc. Your name has been selected as a sample of farm operators from the 1987 Census of Agriculture to provide additional data on land ownership, farm income, assets, debt, production costs, and nonfarm income from farm households

To make record keeping more economical, every report form mailed in the 1988 Agricultural Economic and Land Ownership Survey has a separate Census File Number (CFN). **We need a reply from everyone** receiving the report form as soon as possible, whether agricultural operations were conducted in 1988 or not. Please follow the instructions given below before completing section 1. You will then be able to determine what additional information is to be provided.

1. More Than One Report Form

If you received more than one report form and you DID NOT have multiple farming operations, complete only ONE report form for your operation. Near the address label of each extra report form, write "Extra" and the 11-digit (CFN) from the label of the report form you completed. Return the extra report(s) in the **same** envelope with your completed report form, so that we can remove the extra addresses from our mail register. addresses from our mail register.

If you had multiple farming operations, several of them might have been selected for this survey. If you get multiple report forms, you are requested to complete a report form for EACH SEPARATE and DISTINCT production unit (farm, ranch, feedlot, greenhouse, etc.) for which you receive a form if you maintained SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production. If you have more operations than you received forms, please do not combine them into any of the forms received. Report only for those operations for which data are

2. Partnership Operations

Complete only ONE report form for the entire partnership farm and ranch operations, including all partners' shares on the same report. If two or more report forms were received for the partnership operation, follow the instructions in item 1 above.

A partnership is an association of two or more persons who have agreed (informally or under legal contract) on the amount of their contributions or profits.

Co-ownership of land by husband and wife, or joint filing of income tax forms, does not constitute a partnership unless an agreement to share contributions, decision-making, profits, and liabilities exists. Consider the operator to be the "Senior Partner" and who functions as the person mainly in charge of the agricultural operations on this place as defined in section 1, item 4. If partners share the work equally, consider the oldest individual as the "Senior Partner" and the "Operator" for reporting purposes on this partnership.

3. Sections Which Do Not Apply

The enclosed report form may contain sections and inquiries which do not apply to you. If a section or item does not apply, you may simply mark the "None" or "No" box and go on to the next item or section as directed.

4. How To Respond

Please record your answers in the proper spaces, on the correct lines, and in the units requested, i.e., dollars, acres, etc. Write any explanation outside the answer spaces, in the remarks section, or on a separate piece of paper. Remember to write the 11-digit CFN on any correspondence.

If you do not recall exact figures, please give your best estimates. You may indicate "Est." (for estimated) beside the answers, if you like. For all dollar items, report whole dollars. The "Cents" columns have been preprinted with zeros.

Information for Specified Sections

► Section 1 — ACREAGE IN 1988 AND CURRENT MARKET VALUE OF LAND AND BUILDINGS

Section 1 determines the land for which you should report agricultural activities. It also provides space for reporting value of land and buildings, names and addresses of landlords, and other land-related items

Changes in the Acres Operated in 1988

Report all land associated with your agricultural operation in 1988 even if some or all of it was no longer a part of your operation on December 31, 1988.

If you had agricultural operations at any time during 1988, but quit farming before December 31, 1988, report your 1988 operations and sales, for that land, during the portion of the year that you operated. If you have quit farming, you would not normally have inventory values for poultry, livestock, machinery, and equipment to report. Please explain in section 13 that you quit farming or ranching during 1988 and give the approximate date. If the land you previously operated is currently being operated as an agricultural operation by someone else, please give the name and address of the current operator.

If you acquired land for agricultural operations, but did not use it for livestock or crop production, it should still be included in section 1, item 1.

Completing Items 1, 2, 3, and 4 of Section 1 — Use items 1, 2, and 3 to determine the total acres of land you own and operate.

These data will determine the sections to be completed on the survey report form. Include all land you were associated with in 1988, regardless of location or use. Do not include holdings of residential or investment property located off "this place" (the farm land you operate). Report all land in whole acres. If you operate less than one acre, report it as one acre.

Item 1 — Land Owned — Report all land owned and associated with agriculture in 1988 whether held under title, purchase contract or mortgage, homestead law, or as heir or trustee of an undivided estate, by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting. Exclude residential property not located on this operation.

Item 2 - Land Rented or Leased FROM OTHERS - Report all land rented by you from all landlords even though the landlord may have supplied equipment, fertilizer, or other materials and/or some supervision of the work.

INCLUDE in item 2

- a. Land (for agricultural uses) that you rented FROM others for cash payments
- b. Land worked on a share basis
- c. Land owned by someone else which you used rent-free
- d. Federal, State, Indian, or railroad land rented or leased

The names of all landlords are needed. Landlords will be contacted to provide their financial information on costs and returns for land leased to each operator.

DO NOT INCLUDE in item 2:

Public land used on a per-head or animal unit license or permit basis. For example, land used under section 3 of the Taylor Grazing Act, national forest land, and certain Indian reservation permit land.

Item 3 - Land Rented TO OTHERS -

INCLUDE in item 3:

- a. Owned land rented TO others for cash or a share of the crops or livestock
- Land which you rented from others and then subleased to others in 1988
- Land rented out for residential or other nonfarm purposes, if it was part of the land reported in items 1 or 2
- d. Land worked for you by someone else on a share-of-crop or livestock basis
- e. Land which you allowed others to use rent-free

Note: Do not include land enrolled in the Conservation Reserve Program (10 year CRP land) as rented to others.

Item 4 — Acres in This Place — This is the total acres you owned in 1988 (item 1), PLUS the land you rented FROM others (item 2), MINUS the land you rented TO others (item 3). It is very important that you report this figure correctly (even if "O" acres), since much of the form applies to the resulting net figure — the "Acres in This Place."

"Zero Acres in This Place" — Should you complete the rest of this form?

If you had crop or livestock activities on the land for any portion of 1988, you should complete the rest of the form. See "Changes in Acres Operated in 1988" above.

If all your land was operated by a cash or share tenant for all of 1988, skip to section 13 and:

- a. Explain in section 13 that "All land was rented out," and give the name and address of the cash or share tenant in 1988.
- **b.** Complete section 14 with name, date, and telephone number. If you had no agricultural operation during 1988:
- a. Explain briefly in section 13, "sold farm," "retired," etc., and give the approximate date that you quit operating. If you sold your farm, please give the name and address of the current owner(s) or operator(s), if known.
- **b.** Complete section 14 with name, date, and telephone number. Mail the form in the return envelope provided.

Value of Land and Buildings — Current Market Value is defined as the value at which the farm or ranch could be sold within a reasonable length of time. The full market value of land and buildings should include the influence of nonagricultural factors such as being near an urban area, market interest rates, as well as agricultural factors affecting market value. Please give your best estimate of the current market value of the land and permanent buildings, including permanently attached or built-in equipment. Include the value of the dwelling(s) on this place and of all farm buildings such as barns, poultry houses, fruit packing sheds, vegetable sheds, etc. Include the value of attached or built-in machinery and equipment which would normally be included with the sale of the farm or ranch such as:

- a. Crop drying equipment (not portable)
- b. Tobacco curing equipment
- c. Stationary feed grinding and mixing equipment
- d. Automatic feeding and watering equipment
- e. Cages and pens, used for confinement of livestock and poultry
- f. Cold storage facilities for fruit, vegetables, etc.
- g. Stationary hatchery equipment
- h. Stationary greenhouse heating and watering equipment

EXCLUDE the value of portable equipment and machinery such as portable irrigation systems and portable crop dryers.

DO NOT INCLUDE the value of major agricultural manufacturing or processing plants, such as cotton gins or sugar mills, located on this place, nor the value of other buildings used for nonagricultural purposes, such as retail stores, filling stations, factories, motels, etc.

Item 9 — Farm Manager — A hired farm manager is a person who is paid a salary or wage (and sometimes a commission) to operate a farm or ranch for an individual or family, a corporation, an institution, or other organization. The farm manager is often responsible for purchases, sales, making day-to-day operating decisions involving the crop or livestock operations for the farm or ranch, and most frequently supervises others in performing these operations. Do not confuse a farm manager with a hired person(s) who merely carries out the employer's instructions, or with a foreman or a share operator.

Item 10 — Services from a professional farm management firm might include accounting and financial planning, (once a year tax preparation does not constitute financial planning), record keeping, production and input information, crop and livestock marketing, rent collecting, tenant finding, etc. These services would be performed by a person or firm other than the farm or ranch operator, landlord, or tenant.

► Section 2 — AGRICULTURAL LAND OWNERSHIP

Section 2 refers to all of the **land owned on December 31, 1988**. The acres owned as reported in section 1, item 1, were all the acres owned and operated anytime during 1988. If there was no land owned on December 31, 1988, skip to section 3. If any land was acquired, sold, or disposed of during 1988, the response to land owned on December 31, 1988 may differ from land operated during 1988, by the amount of acres involved in these transactions. If no land transactions took place during 1988, the entries in (1a) land owned during 1988 and in (1b) land owned on December 31, 1988, will be the same.

The market value for land, dwellings, and other buildings is the value of these items on acres owned December 31, 1988, reported in item 1b. The value of farm and ranch land and all buildings owned on December 31, 1988, may vary from the total market value reported in section 1, item 1 by the value of land sold in 1988. The operator's dwelling and dwellings for hired labor must be located on the land owned to be reported in item 1b. Your best estimate is requested when reporting these values. The sum of land and all buildings reported in item 2 (a-d) should equal the total market value reported in item 1b.

Item 2 — All Other Buildings and Structures includes barns, cribs, silos, equipment shops, grain bins, storage sheds, etc.

Item 4 - Land Use Definitions

- a. Cropland is land that is cultivatable and normally used for crops.
- Orchard/vineyard are permanent crops such as tree crops and vineyards.
- c. Cropland used for permanent pasture is cultivatable cropland that is being used for permanent pasture but could be cropped.
- All other pasture or rangeland is all land owned where livestock are permitted to graze (exclude any non-owned public grazing land).
- Forest/woodland not pastured is forest and woodland on which livestock is fenced out.
- f. Other (farmstead, wasteland, roads, ditches, etc.) is wasteland, roads, driveways, ditches, building sites, houses, barns, wind breaks, ponds, lakes, personal gardens, etc.

Item 5 — Land Acquired, Sold, or Disposed of and Owned on Specific Years — Report acres owned as of December 31 for the specified year in column 1. Report acres acquired and/or sold for the period shown in columns 2 and 3.

Item 7a — Leases — Item 7 requests the number of leases, acres leased, market value of acres leased and value of rent received, by type of lease on the land you owned on December 31, 1988. Do not include land you rent from others, and in turn, subleased to someone else. The market value of acres leased should be your estimate of the value for all land and buildings leased, if sold on the current market. The value of rent received should be the cash value of rent paid to you, or if the rent payment was received as a share of the crop or livestock, estimate the cash value of such items if they were sold on the current market. Any combination of cash and share payment should be summed together for total value of rent received during 1988.

Item 8 — Cash Leases Adjusted — Unusual conditions could be considered drought, hail, tornado, hurricane, adverse weather damage, etc. Exceptional conditions could be growing conditions where yields are above normal.

Section 3 — PURCHASES AND EXPENDITURES DURING 1988 FOR THE AGRICULTURAL OPERATION

DO NOT INCLUDE:

- a. Expenditures on farm property rented to others
- b. Expenditures on nonfarm property
- c. Expenditures made by landlord(s) (such as taxes)
- Expenditures related to nonfarm activities (trading and speculation or livestock dealer activities)
- ► Section 3A Report all capital purchases or expenditures made for the agricultural operation during 1988. Include sales taxes, but exclude finance charges. Finance charges will be recorded in section 3B, item 7. Report the costs of items minus trade-in values allowed. If you had no expenditures for the items, mark (X) in the "None" box.
- ➤ Section 3B Report all agricultural operating expenses you, the partnership, or organization incurred for the "acres in this place" as reported in section 1, item 4. Do not include estimates of expenditures for items provided or paid for by landlords. The value of items or inputs furnished by contractor on a production contract are to be reported in section 6, not as operating expense in this section.

Item 5 — Hired and Contract Labor — Include gross salaries and wages, commissions, dismissal pay, vacation pay, and paid bonuses paid to hired workers, family members, hired managers, administrative and clerical employees, and salaried corporate officers. Also, include supplemental cost for benefits such as employer's social security contributions, unemployment compensation, workmen's compensation insurance, life and medical insurance, pension plans, etc.

Include as contract labor costs of workers furnished on a contract basis by a labor contractor, crew leader, or cooperative for harvesting vegetables or fruit, shearing sheep, or similar farm activities. Do not include costs for building or repair work done by a construction contractor. Include the cost of customwork or machine hire in item 10.

Form 88-A9A(I)

Item 7 — Do not include interest on owner/operator dwelling where amount is separated from interest on other land and buildings on "this place." Include interest paid on CCC loans in item 7b. If during the year you borrowed funds for general farming or ranching operations and cannot readily state the specific purpose for which the funds were used, report the interest expense on the amount borrowed in item 7b.

► Section 4 — DEBTS AS OF DECEMBER 31, 1988

Report all debts owed as of December 31, 1988 on the assets owned by the farm operation, partnership or corporation, and associated with the agricultural operations on "this place." If you cannot allocate debt between owned land reported in section 1, item 1, and owned land rented to others in item 3, report the total debt for owned land and explain in "Remarks" in section 13.

For debts covering land in addition to acres "in this place," report your estimate for that part of the debt that applies only to "this place." The share to be reported should be estimated in proportion to the market values of the properties. Other debts should also be prorated if they relate only in part to the agricultural operations "on this place."

DO NOT INCLUDE:

- a. Debts on farm property rented to others
- Debts on nonagricultural property such as cotton gins, canning factories, sugar mills, motels, stores, etc.
- c. Your landlord(s) share of any debts
- d. Charge accounts that are usually paid in full each month (debts owed for less than 30 days should not be reported)

INCLUDE:

a. Debt on accounts you do not expect to pay in 30 days

For each of the specified lending sources to which no debt was owed on December 31, 1988, mark (X) in the "None" box.

Section 5 — MARKET VALUE OF AGRICULTURAL PRODUCTS

Report the gross value of all crops, livestock, and poultry, and their products sold from "this place" in 1988. Reasonable estimates are acceptable. Use the following definitions to determine whether to include or exclude data:

 $\textbf{Calendar Year} \leftarrow \text{Report all sales in calendar year 1988 regardless of the year produced.}$

Shares — If you rented land on a share basis or worked on shares for others, include the value of the landlord's share of any products removed from this place in both item 1 and item 2. Estimate the equivalent market value, if necessary.

Partnership — If the farm or ranch is operated as a partnership, report the total value of all products sold from this place for all partners.

Government Loans — Consider the value of a crop placed under government loan or seal in 1988 as sold.

Co-op and Pool-Type Arrangements — If a crop was sold through an organization which makes payments in several installments over a period of time, report the total value received in 1988 regardless of the year the crop was produced.

Contract Production — For products produced under a contract or agreement, report an estimate of the market value of the product at the time it was removed from "this place," even though you may have received only a portion of the value.

Sales by Other Household Members — Include the sales of products made from this place by other household members, such as 4H projects, etc.

Nonfarm Activities — Exclude sales of nonfarm-related businesses or activities such as livestock dealer activities. For example, do not include the value of animals purchased and resold within 30 days. The income and expenses from these kinds of activities are reported in section 7.

Home Use - Do not include the value of home use.

Forest Products — Exclude the value of forest products sold. They are to be reported in section 7, item 1b.

Sales From Other Places — Exclude farm sales from land rented to others or from livestock held on or sold from someone else's farm or ranch. If livestock were placed in a feedlot for finishing, report as market value your estimated value of the livestock when they were removed from "this place."

The sum value of all sales, shares, loans, co-op, and contract arrangements make up the total market value of farm products sold. If you rented or leased land from others on a share basis, the value of the landlord's share should be included in item 1 and is also reported in item 2 as the value of the landlord's share.

► Section 6 - CONTRACTS

Many farm products are produced and marketed under a contract or binding agreement between the farm operator (producer) and the person who buys or uses the farm product. It may be a production contract, a marketing contract, or a combination of both.

Production contracts require the contractor to provide an input usually in the form of livestock, poultry, seed, feed, machine work, or labor. If the agreement establishes only a market for the product and does not provide any input from the contractor, it is considered a sales or marketing contract and does not apply to this section.

Report in item 1 your estimate of the market value of the commodity produced under a production contract. The market value will be your estimate of the value of the commodity when taken from "this place," (including the landlord's share).

In item 2 report all **cash** value, including management fees received for producing the commodity under contract, (also include landlord's share). Report in item 3 your estimate of the value of inputs provided to you under the production contract. This would be the value of labor provided, your estimate of any livestock or poultry provided by the contractor (your estimate of their market value when brought onto "this place"), and any service such as spraying, tilling, harvesting, etc., provided by the contractor.

Marketing contracts usually specify the kind and/or amount of farm products to be delivered, but do not furnish inputs such as feed, seed, labor, or equipment.

Do not include contracts made by you for sevices (customwork, hauling, etc.) or to produce farm items for you where you are the purchaser rather than the supplier of the products.

► Section 7 — INCOME AND EXPENSES FROM OTHER FARM-RELATED SOURCES IN 1988

Item 1a — Report payments you received in 1988 from all State or federal government farm programs. For example: conservation reserve, acreage reduction, disaster relief or wool incentive programs. (Exclude CCC loans, the value of CCC loans are reported in section 5.)

Item 1b — These data are other income from farm-related sources not reported in section 5. Report only those income producing activities for which you used part of the land, buildings, machinery, equipment, labor, or capital normally used on "this place," and which you do not consider as entirely separate from your farming activities. Report gross amount received before taxes and expenses. Do not report income or expenses for customwork or agricultural services you provided for others if operated as an entirely separate business from your agricultural operations. The net income from a separate business should be reported in section 11, item 1b.

Item 2 — Include any expenses incurred from producing income from farm-related sources that have not been reported in sections 3a and 3b. (For example, if you leased a lot to sell Christmas trees produced on your farm and the cost was not reported in section 3, it should be reported here.)

➤ Section 8 — NET CASH FARM INCOME OF PARTNERSHIPS

Report the proportion of the total net cash farm income received from "this place" by the senior partner. (See definition of operator in Partnership Operations, item 2, General Information on the information sheet.)

Report the total number of partners in the partnership including the operator (senior partner) and estimate what percent of the net farm income was received by this operator (senior partner).

The net cash farm income is calculated by taking the gross sales of agricultural products of the farm, plus gross income from farm-related sources, minus the cash farm operating expenses and the cash operating expenses for farm-related income sources.

FORM 88-A9A(I) (10-13-88)

Form 88-A9A(I)

► Section 9 — REAL ESTATE TAXES

Report in this section taxes levied on farm and ranch land, buildings, and other improvements, reported on your tax bill(s) for the year 1988.

If you have more than one tax bill (example, county, State, school district, etc.) for the same acres:

- a. Include the acreage only once in item 1
- b. For one parcel, report in item 2 the largest assessed value from one of the individual tax bills
- c. For multiple parcels, report the sum of the taxes paid by you from all bills in item 3

Do not include taxes on nonfarm property, such as land and buildings used for cotton gins, sugar mills, canning factories, motels, stores, etc. For taxes that are levied on both agricultural and nonagricultural property, estimate and report only that portion of the taxes applying to your farm or ranch. Also exclude personal property taxes (personal property taxes are reported in section 3b, item 8). Do not include real estate taxes on operator dwellings not located on "this place."

► Section 10 — ASSETS OWNED BY THE FARM OPERATION AND HOUSEHOLD

Report all assets owned on December 31, 1988. Estimates are acceptable.

- ➤ Section 10a Report assets owned by the farm operation, partnership, or corporation and associated with "this place" as defined in section 1 Item 3 includes crops produced and stored whether to be sold or not. Also included in item 3 could be crops produced and intended to be fed to livestock or poultry. Item 5 contains feed that was purchased and intended for use on "this place."
- ➤ Section 10b Report assets owned and belonging to the operator, (senior partner in a partnership) or farm manager, and his/her household. The household is defined as anyone residing in the operator's residence (the operator, spouse, children, other relatives, and any other persons living with the operator in his/her household).

If household and business accounts are not kept separately, allocate the financial items between section 10a, items 6 and 7, and section 10b, items 1 and 2, according to whether you feel these assets are owned by the business or members of the household.

► Section 11 — OFF-FARM INCOME DURING 1988 AND SIZE OF HOUSEHOLD

Report in this section the income of all members of the operator's household. If the report is for a partnership, include payments received by the senior partner and persons living in his/her household.

Include income received between January 1, and December 31, 1988. Be sure to include wages, salaries, pensions, interest, and other payments, etc. received by you, your spouse, your children, other relatives, and other persons living in your household. This includes persons who usually live there but are temporarily away for reasons such as visiting, traveling, attending school or college, or in hospitals or nursing homes, etc.

If a member lived in your household for only a part of 1988, include the income of that member only for the time that he/she was in your household. Do not include payments received by persons (such as hired workers, etc.) not living in the operator's household.

If you are not certain of the exact figures, please give your best estimate. Mark (X) in the "None" box if you have no off-farm income to report.

Managed Farms Including Large Corporations — For a farm or ranch operated by a farm manager or by one family, relate all income items to the farm manager and the persons living in his/her household. In item 1a(3), include the salary, wages, or commissions received by the manager from the employer. Do not include any nonfarm income received by the corporation or employer.

Losses — If your household had net losses from the rental of nonfarm properties (item 1f), the sale of items such as real estate, machinery, stocks, etc. (item 1i), the operation of a self-employment business (item 1b) in 1988, report those losses by writing "LOSS" to the right of your entry.

Item 2 — Size of Household — Include persons whose usual place of residence is in your household, as of December 31, 1988. As mentioned above, this includes persons who usually live there but are temporarily away for reasons such as visiting, traveling, attending school or college, or in hospitals or nursing homes, etc. Exclude persons who are temporarily in your household, for example, visiting you for the holidays.

► Section 12 — OFF-FARM WORK AND EDUCATION

Please complete this section for both the operator and spouse. No legal status between the operator and spouse are required, but usually the spouse is either the wife or husband of the operator.

Off-farm work by the operator or his/her spouse is defined as work off 'this place' in section 1. This off-farm work may be farmwork on another farm or ranch, but farmwork on another farm in exchange for like work is to be excluded. If the operator or spouse worked more than one off-farm job in 1988, describe the one at which the most hours were worked between January 1 and December 31, 1988. Do not include hours worked but not paid.

Based on tests with farmers and ranchers, it takes about 45 to 90 minutes to complete this form with most operators completing the form in 60 minutes. If you have any questions regarding these estimates or any other aspect of this survey, please call or write the Associate Director for Management Services, Room 2027, Bureau of the Census, Washington, DC 20233; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1988 Agricultural Economics and Land Ownership Survey, Report Form 88-A9B, Landlord's Report

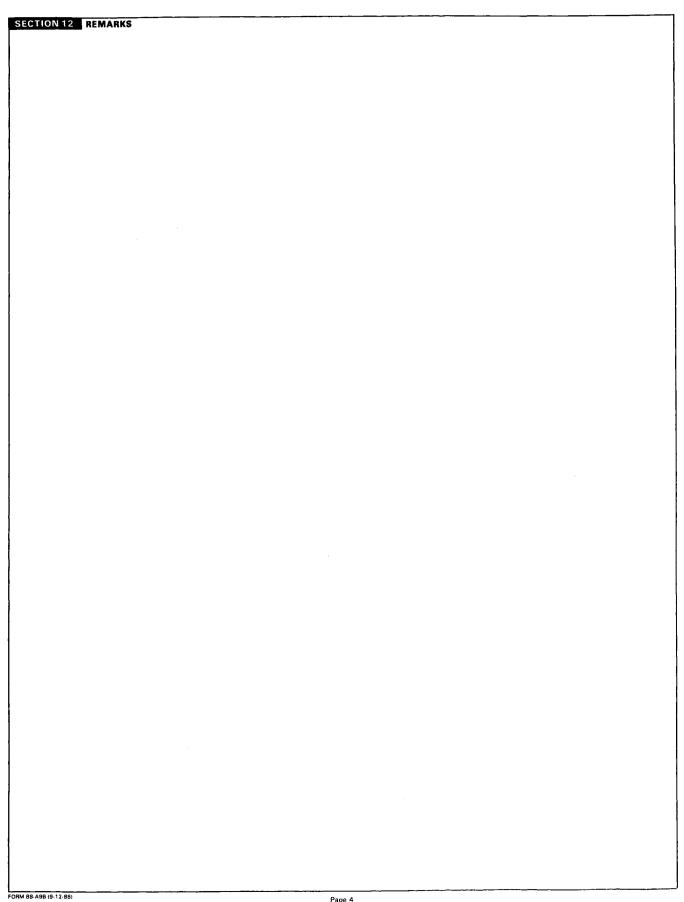
FORM 88- / (9-12-88)		U.S. DEPARTMENT OF BUREAU O	F THE CER	vsus TO THE used or												
198			AL ECONOMICS A RSHIP SURVEY	AND	<u> </u>	In correspondence pertaining to this report, please refer to your Census File Number (CFN)										
	LA	NDLOF	D'S REPORT					88-A9B								
	omplete this		BUREAU OF THE CENSI 1201 East Tenth Street Jeffersonville, IN 4713			Γ	_									
The	financial need	is of the	American farmers are chang		-											
	It is im The relative de The capital in	portant to ebt burder vestment,	know facts such as:													
nformatio est ansv gures. Ye	many other fin in from you an vers you can, our answers wil	ancial pro d the oth making e Il be comb	olems can be examined only be er survey respondents. Pleas stimates when you do not he ned with others so that confident sestion that applies to you.	e give nave ex	the act											
CENSUS	035	036	037 038													
JSE ONLY	039	040	041 042		1	Please	cor	prrect errors in name, address, and ZIP Code. ENTER street and number if not shown.								
SECTIO	IN 1 AC	REAGE	N 1988 AND CURRENT	MARI	(ET VALUE o	_			_							
		ILAGE I	it 1000 Ails Collissi.	14174147	Acres		7									
			were used in 1988 by the farm		049		1	Estimated market value								
ranch	operator listed (on the top	line of the address label?				J	None O50								
	•		rket value of all land and build	-				\$ 100 056								
			ed in item 2, what was the est reported in item 1 above)			-										
			acres reported in item 1 abov					057								
			•					058								
	=		orted in item 1 above including ures (on acres in item 1 above					059								
	-		acres in item 1 above					060								
e. Lan	u (Excluding D	ullulligs/														
a. Did yo	u operate a farr	n or ranch	in 1988? —													
149 1	☐ YES 2 ☐] NO - ;	SKIP to section 2A		ned acres erated in 1988	Nam	е									
h. If ves	how many of th	he acres o	perated in 1988 were	150		Num	oer a	and street								
owned		give farm	or ranch name and			City		State ZIP Code								
				<u> </u>		City	_									
SECTIO			S AND EXPENDITURES with the acreage reporte			1	S	SECTION 28 AGRICULTURAL OPERATING EXPENSES AND OTHER PURCHASES related to the acreage in section 1, item 1, during	198							
	The mad	items in th e during 15	is section concern the kinds of p 188 for the agricultural operation openditures. Do not include your	urchase is. Repo	s and expenditure rt the total cost o	es f the		Do not include expenses paid by tenant, depreciation, income taxes, expenditures for the purchase of land, buildings, or machinery, expenditur the landlord dwelling including repairs, real estate taxes, insurance, etc.								
	pital expendit				Total cost purchases expenditur	or			es							
	ring 1988			None	in 1988 Dollars		1.		0							
improv	rement, land pro	eparation,	on land: such as irrigation well drilling, ponds,	HOUG	073	Cents	2.	2. Purchases of livestock and poultry other than breeding stock and dairy cattle — Report breeding stock and	0							
			s, trench silos, lagoons, etc.		\$	00	,	dairy cattle purchases in section 2A, item 5.	0							
						i I	Ī	090	+-							
• Expen	ditures for build	lings and s	tructures — Include arns, shelters, milking		074	į	4.	Purchases of herbicides and pesticides	0							
parlors	s, hog houses, p	oultry ho	arns, shelters, filliking uses, crop storage,		\$	00	5.	b. Expenditures for hired and contract labor — Report gross cash payments to employees including paid family members, before deductions for social security, taxes, insurance premiums, etc.	0							
	ases of tractors t total cost mini				075		6.	Purchases of gasoline, diesel fuel, LP gas, other fuel, motor oil, and grease for farm use only	! ! 0							
a. Nev	v				\$	00	7.	Interest and service charges on:	i							
L				\Box	076	00	l	a. Farm real estate debt \$	0							
b. Use	:u			L	077	100	Ì	b. Farm operating debt	0							
. Purcha	ases of all truck: ninus trade-in v	s and auto alues	s — Report total		\$ 078	00	8.	Personal property taxes on livestock, machinery, and other farm production items — Report real estate taxes in section 7.	0							
Purch	sees of broading	ı livertect	and dairy cattle - Report all			l	9.	Insurance premiums for all types of crops, livestock, and	{							
other i	livestock purch	ases in se	ction 2B, item 2		\$	00	10	property insurance on farm buildings (Include farm share of autos and truck insurance.) \$ 9. All other agricultural operating expenditures such as machine	0							
ırrıgati nozzle	on equipment a s, pumps, and e	ind machir engines; o	chases Include moveable ery such as pipes, siphons, ther motor driven vehicles				10	All other agricultural operating expenditures such as machine hire, customwork, seeds, containers, water transportation and marketing charges, utilities, upkeep of farm buildings (including tenant's dwelling), machinery and fences, drains	1							
vehicle	es that were use	ed on this	s, or other special use place. (Exclude capital	, !	679	. 00		and irrigation systems, feed drying and grinding, veterinary services and supplies, storage charges, lime and soil conditioners and depend business expenses.								

S	ECTION 3 DEBTS AS OF DECE		8			1	SEC	TION 6	A	GRIC	ULTURA	L LAND	OWN	ERSHII	P			
	(See enclosed inform The debts to be reported are those owed by as of December 31, 1988 arising from the other acres reported in section 1, item 1.	the landlord		owed b	al amount y landlord per 31, 198 ide interes	38 i	3	Report for all (Include all c woodland, w (Include land	roplano vastelai i reporti	d, past nd, idle ed in s	ureland, ra eland, and i ection 1, it	ngeland, farm residen em 1, plus ai	ces.)	Tot acres o		D	Estima market ollars	
			None	unles	s past due			other farm ai interest in, a						141		143		00
1	Federal Land Banks (or Federal Land Bank	Associations)		091		00		Of the land y					3,		None	144	Acres	
1_	The Farmers Home Administration		_	092 \$	10	00		. Purchase							. 🗆	145		
1 -	Commodity Credit Corporation loans:			093			t	. Purchase	from	relativ	/e				. 🗆	146		
1	a. On crops			094		00	۰	. Inheritano	ce or g	jift					. 🗆	147		
	b. For crop storage facilities		🗆	\$		00		d. Other -	Specif	'y					_ 🗆	148		
4.	Insurance companies (Exclude premiums of		🗆	\$	0	00		TOTAL (S	Should	equal	acres in it	em 1)	<i>.</i>		. 🗆		****	
5.	Commercial banks and savings banks (Natibanks, trust companies, etc.)	ional or State	🗆	\$	0	0	3. (Of the farm	and rai	nch lai	nd vou ow	ned on			None		Acres	
6.	Individuals from whom you bought part or			097	1	0		December 3 ederal Con	1, 198	38, ho	w many ac	res were er	roiled	in the		169		
	a. Under a mortgage or deed of trust		_	098		0		or all farm a			•				۔ ت			
_	b. Under a land purchase contract		_	099	- · · i	00	1	Reported in	item 1	1 abov	e), please	report the n	umbe	r of	None	_	Acres	
1 -	Production credit associations		니	100	10	·~	ŀ	acres in the . Cropland		-		-			None	171		
"	a. State and county lending agencies		🗆	\$	0	0		-								172		
	 Mortgage companies, real estate agents savings and loan associations, agricultur 	ral credit		101	i 1	J	ŀ	Orchard/							_	173		
	corporations, credit unions, livestock los small business administration, etc	an companies.	П	\$		0		. Cropland		-	•				_	174		
9.	Merchants and dealers, including cooperat	ives, mail order	_					I. All other			-				_	175		
	companies, farm machinery companies, ar manufacturers (exclude debts on 30-day a	nd other occounts)		102				. Forest/wo			-				_	176		
	for puchase of — a. Tractors and farm machinery, including	renairs	П	\$	lo	0	f	. Other (far	mstea	d, was	steland, ro	ads, ditches	s, etc.)	. Ц			
	b. Autos and trucks (including repairs), gas fuel, feed, seed, fertilizer, livestock, pour						5. P	lease repor	t land	ACOU	IRED and/	or SOLD or I	DISPO	SED OF	turina e	ach sr	necified t	rime
	purchases for the operation of this acrea	age from merchant	ts	103	1	ļ	р	eriod and to	otal ac	reage	OWNED a	the end of	each s	specified	time pe	riod (D)ecembe	er 31).
	and dealers, including building supplies, customwork, and similar purchases	tencing, hardware	🗆	\$	l o	0		wned on mber 31	¦ ।	Land o	owned res)	Date			acquire cres)	d	Land so	ed of
10.	Any other individuals, relatives, friends, lar estates, etc. (Exclude debts on 30-day acc	ndlords,	🗆	104		0	of ye	ar below	178	(1					(2)	1,	(Acre (3)	35)
11.	Unpaid bills for veterinary services, utilities	. past due taxes			- 1-	Ť	1	988	179			During 15		185			90	
1	or insurance premiums, and debts for other to this acreage (Include all debts on account	r purposes relating nts not expected		105	į	ı	1	987	180			1983-1	987	186		15		
	to be paid in 30-days.)			\$	0	0	1	982	181			1979-1		187		15		
S	CHON 4 ASSETS OWNED BY (See enclosed inform		RD		ent market		1	978	182			1975-1		<u> </u>			 93	
	The assets to be reported are those owned a	as of December 31		owr	of assets ned as of		1	974	183			1970-1	974	188				
	1988, involved with the ownership of the ac Do not include your tenant's share of any as				per 31, 198	_	1	969	103					<u> </u>				
١,	Farm share of autos and trucks (Percent of f	form	None	Dolla 121	ars Ce	nts		NO LAND		RED IN	N 1988 -							
١	use × total market value)		. 🗆	122	<u> </u>	<u> </u>	SI	KIP TO ITEN	W 7.				Dece	farket va mber 31,	lue 1988		ount fin	anced
2.	Tractors, farm machinery, tools, and equip	ment	. 🗆	123	10	٥		you acquire					196	ollars	Cents	D 197	ollars	Cents
3.	Crops produced and stored and still owned on December 31,	ırm	. 🗆	\$	I 0	٥		ildings acq					\$			198		00
	1988. (Exclude crops under	arm	. 🗖	124	1 0			you financed		1. Fed	eral land ba	ınk				\$		00
1.				125	10		in	nd purchase 1988 (item	6a),	2. Farr	mers Home	Administration	on			199		00
.	Beef, dairy, hogs, sheep, poultry, and other (horses, mink, bees, fish, rabbits, etc.)		. 🗆	\$ 126	0	0_	an	ease enter th nount financ		3. inst	ırance comp	oanies				\$ 201		00
5.	Purchased feed, seed, fertilizer, and other in	nputs on hand	. 🗆	\$ 127	0	0	fo	om the llowing		4 . Con	nmercial ba	nks/savings &	k loan	companies		\$ 202		00
	Stock in Federal Land Banks, Production Created and other farm cooperatives		_	\$. 0	٥	so	ources:	1	5. Oth	er (Include :	seller financir	ng)		1	\$		00
l	All other assets of this farm operation (cash,		_		1		7 P	leport the fo	allowin	a info	rmation fo	r land vou o	wned	on Dece-	nher 31	. 198	8. and	
	certificates of deposit, saving and checking money owed to this operation, including cro	accounts, and ps and		128	 	1	le	eased to oth	ners.	9 "1101		Total ac		Marke	t value		Value of	
	livestock sold for future payment)			\$	i 0	0		ype of			Number of leases	leased t	0	of acres			ceived in Dollars	1988 Cents
SE	PARTICIPATION IN IREPORTED FOR THE					١		lease		ione	151	155		159		163		
	[Management of				\dashv		Cash			152	156		160	i 00	164		00
		Mark (X) on		ox for eac	ch item	_	b	Share			153	157	$\neg \neg$	161	100	165		100
		Landlord only	Tenant o		andlord and enant jointl		c	. Cash/shar	-		154	158		162	+	166		00
1.	Selection of fertilizer and chemicals	135	2		3.	7	d	Other					1	\$	00) \$		00
١.	<u>[</u>	136	2 🗆	+	3□	1		or CASH LEA				HOW		Number o	ash lea		Acre	s
3.	Selection of crop varieties or livestock 137				many allow for adjustment of rental payment in the event of unusual or exceptional conditions?													
	breeds	138	2	_	_3□	4	ما و	1988, did y	/Oti Pi''	rchaec	any profe	ssional farm) Man	agement	service	s such	as	ļ
4.	Harvesting decisions	1 🗆	2	_	3 🗌	4	rec	cordkeeping	g, farm	pract	ices advice	e, financial p	olannir	ng, rent c	ollectio	n, etc.	.?"	
	Marketing agricultural products	1 🗆	2		3	┚	20	4 1 🗆 Y	ES		2 🗌 NO							ز

Form 88-A9B

SECTION 7 REAL ESTATE TAXES	(See	enclosed infor	matic	n sheet)	SECTION 10A CHARACTERISTICS AND OCCUPATION OF
				Acres	LANDLORD — Continued
Report the number of acres of farm and rand shown on your 1988 real estate tax bill(s).			118		3. SPANISH ORIGIN — Is the landlord (senior partner or person in charge) of Spanish origin or descent
2. What was the assessed value of farm and ra				ollars Cents	(Mexican Puerto Rican Cuban 234
buildings, and other improvements shown of for 1988?	n your	tax bill(s)	119	00	or other Spanish)?
3. What was the total amount of farm and rand					235
taxes (land, buildings, and other improveme you as shown on your tax bill(s) for 1988?	nts) pa	yable by	120	00	4. AGE OF LANDLORD Years old
SECTION 8 NET CASH INCOME	FOR 1	988 205 / .	Negat	ivo.	236 1 🔲 Operating a farm or ranch
What was your net cash income from land you o your net income from farm and ranch land you or rented to others in 1988? (Section 6, item 1) Mathat matched your net cash income for 1988. Mark (X) ONE	wned a rk the i	nd 2 2 3 3 3 4 3 5 5 3	None \$1 — \$10,0 \$25,0 \$50,0	\$9,999 00 - \$24,999 00 - \$49,999 00 - \$74,999	2
SECTION 9 TYPE OF OWNERSHI		OWNERSHIP TYPE ON ACRES		ERSHIP TYPE ON RES LEASED TO	6 ☐ Retired — previously farming
Please indicate the type of ownership on the acr you owned or had an ownership interest as of December 31, 1988, reported in section 6, item Type of owner (Check those applicable)		OWNED (Section 6, item 1)	INDIV (Se	IDUAL ON LABEL ction 1, item 1) Mark (X) in propriate box	or farm related business 7 ☐ Retired — previously nonfarm related occupation 8 ☐ Other — <i>Specify</i> ¬ 2
1 - SOLE OWNERSHIP		221	,	1	
²⁶⁹ 1 ☐ Female					6. What proportion of total business income (farm and nonfarm) you and your family
2 Male 2 HUSBAND/WIFE: Land held jointly		222			farm and nonfarm) you and your family received was from the sale of agricultural products and/or rental income from all
		223			agricultural lands you owned in 1988? (3 🗆 26% to 50%
Land held by husi		224			4 ☐ 51% to 75% 5 ☐ 76% or more
☐ Land held by wife		-	. П	Complete	SECTION 10B CORPORATION LANDLORDS
partners are related, include husband/wife as two partners when owned with at least one other owner.		225		section 10A	landlord? (Example, own or manage a nonfarm business or operate another farm or ranch?) 238 1 \[NO - Skip to section 11 \]
Number of partners Female Male					2 ☐ YES — If "YES" — Did the corporation engage in any of the following activities?
4 OTHER (non-family) PARTNERSHIP — Less					1. RELATED TO AGRICULTURE 239 a. Operate a farm or ranch
than half the partners are related	• • • • •	226			 b. Manufacture or distribute farm supplies 240 (feed, fertilizer, farm machinery, etc.) 1 ☐ YES 2 ☐ NO
partners — Female Male _ 5 FAMILY CORPORATION — At least half of)	c. Processing of crops, poultry, livestock (slaughter plant, meat packing, processing, canning, milling) 1 YES 2 NO
stockholders are related. If 10 or fewer stockholders, enter number of stockholders		227 I		:	d. Wholesaling, retailing of farm products (grain elevators, livestock auctions, produce markets, other food stores 242
If more than 10 stockholders, check here				Complete section 10B	including supermarkets, etc.)
6 NON-FAMILY CORPORATION — Fewer than half of stockholders are related	:	228			Other activities related to farm products 1 YES – Specify 2 2 NO 2. NONAGRICULTURAL ACTIVITIES 244
If more than 10 stockholders, check here	*	1		J	a. Manufacture of nonagricultural products . 1 YES 2 NO
7 OTHER such as cooperative, prison farm, g	razing	229	1	01.	b. Wholesaling, retailing of nonagricultural 245 products
association, Indian reservation (Include uns estates)	ettled			Skip to	c. Real estate
Specify	· i	230		section 11	d. Banking and finance
8 TOTAL should equal acres in section 6, ite SECTION 10A CHARACTERISTICS		OCCUPATION	OÉ L	ANDIODO	e. Life insurance
FOR INDIVIDUAL AND PARTNERSHIP LAF characteristics reported on a partnership sh	IDLOR	DS (The followin	g		f. Other business activities 1 ☐ YES — Specify $_{\overrightarrow{k}}$ 2 ☐ NO
RESIDENCE a. Where does the landlord live?		On the land in sec On another farm	tion 1,	item 1	3. Mark (X) one box to indicate the appropriate size of total business receipts (farm and nonfarm) of the corporation in 1988
section 1, item 1	{ ₃□	In a rural area, not			4 🗆 \$1,000,000 or more
b. Distance of residence from land reported in section 1, item 1	1	In a city, town, or Less than 5 miles 5-24.9 miles 25-49.9 miles 50-149.9 miles 150 or more miles		area	4. Of the total receipts from all sources, what proportion from the corporation was from the sale of agricultural products and/or rental income from all agricultural lands owned and/or operated?
233	/ 1 🗆	White			SECTION 11 PERSON COMPLETING THIS REPORT — PLEASE PRINT Please check your answers.
2. RACE of landlord	2 🗆 3 🗆	Black American Indian Asian or Pacific Is	lander	İ	Mark (X) one Name 267 Date 1 □ Owner of land
		Other - Specify_			Area code Number 2 ☐ Agent ()
FORM 88 A98 i9 12 881					· · · · · · · · · · · · · · · · · · ·

Form 88-A9B



Page 4

FORM 88-A9B(I)

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

INFORMATION SHEET 1988 AGRICULTURAL ECONOMICS AND LAND OWNERSHIP SURVEY

General Information

You have been identified as a landlord of the farm operator whose name appears on the address label. The questions in sections 1 through 5 refer to the land you leased to this tenant.

The enclosed report form was designed to collect data from landlords of farm and ranch land but may contain sections and inquiries which do not apply to you. Where this is the case, you may simply mark the "None" or "No" box and go on to the next item or section.

Please begin with section 1 and read the items and instructions to see what information you should provide. Give the best answers you can. Please estimate for information on which you do not keep records.

To make recordkeeping more economical, every report form in the Agricultural Economics and Land Ownership Survey has a separate Census File Number (CFN). **We need a reply from everyone** receiving the report form, whether agricultural operations were conducted in 1988 or not. Please complete and return your report as soon as you can, preferably within the next 2 weeks. Use the enclosed self-addressed envelope.

Please put your answers in the answer spaces (unshaded areas). You may write explanations and comments in the shaded areas to the left of the answer spaces or in the "Remarks" section on page 4.

Please mark answers of "Yes," "No," or "None" by placing an (X) in the small answer box. If the answer is "No" or "None" and a small answer box is not provided, leave the answer space blank.

If you do not recall exact figures, please give your best estimates. You may indicate "Est." (for estimated) beside the answer, if you like. All dollar items may be entered in whole dollars. Cents are not required.

If you are the caretaker, executor, administrator, or act as agent for the actual landlord, please answer all the questions you can for the landlord, estimating if necessary. When reporting section 1, item 1, "acres owned by you," include in the total the parcel of land used by the farm operator listed on the top line of the address label. Section 3 — Debt — If you have knowledge of the amount and source of debt owed on the property in section 1, item 1, please complete section 3. Answer all other questions in reference to the actual owner if possible, i.e., does the actual owner live over 150 miles from the land reported in section 1, item 1; if a corporation owned the land, how is it related to agriculture; etc. For items which you cannot respond — please write "unknown" or "unk." Write in the remarks section, completed by "caretaker," "executor," "administrator," etc.

Instructions For Specified Sections

Section 1 — ACREAGE IN 1988 AND CURRENT MARKET VALUE OF LAND AND BUILDINGS

Item 1 — Report all of the land you own that was used (rented, leased, used rent-free, etc.) by the farm operator listed on the label. Include cropland, pastureland, woodland, and wasteland.

Item 2 — Please give your best estimate of the market value of the land, including all permanent buildings and permanently attached equipment. Include the value of dwelling(s) on the place and all farm buildings such as barns, poultry houses, fruit packing sheds, vegetable sheds, etc.

Item 3 — All Other Buildings and Structures — Using the market value reported in item 2 as the total value, please estimate the value of the land and buildings separately. Include barns, cribs, silos, equipment shops, grain bins, storage sheds, etc.

► Section 2 — PURCHASES AND EXPENDITURES DURING 1988 FOR THE AGRICULTURE OPERATION

Report all purchases or expenditures made by you for the agricultural operation on the acres reported in section 1, item 1, during 1988. On individual items, include sales taxes, but exclude finance charges. Finance charges should be reported in section 2b, item 7. Report the costs of items minus trade-in values allowed. Mark (X) in the "None" box if you have no purchases or expenditures to report.

DO NOT INCLUDE THE FOLLOWING EXPENDITURES IN THIS SECTION:

- Expenditures made by the tenant or the tenant's share of any costs.
- b. Expenditures on nonfarm property.
- Expenditures related to nonfarm activities (trading and speculation or livestock dealer activities).
- ➤ Section 2A Report all capital purchases or expenditures made for the agricultural operation during 1988. Include sales taxes, but exclude finance charges. Finance charges will be recorded in section 2B, item 7. Report the costs of items minus trade-in values allowed. If you had no expenditures for the items, mark (X) in the "None" box.
- Section 2B Report all agricultural operating expenses you, the partnership, or organization incurred for the acres reported in section 1, item 1. Do not include estimates of expenditures for items provided or paid for by tenants.

Item 5 — Hired and Contract Labor — Include gross salaries and wages, commissions, dismissal pay, vacation pay, and paid bonuses paid to hired workers, family members, hired managers, administrative and clerical employees, and salaried corporate officers. Also, include supplemental cost for benefits such as employer's social security contributions, unemployment compensation, workmen's compensation insurance, life and medical insurance, pension plans, etc.

Include as contract labor costs of workers furnished on a contract basis by a labor contractor, crew leader, or cooperative for harvesting vegetables or fruit, shearing sheep, or similar farm activities. Do not include costs for building or repair work done by a construction contractor. Include the cost of customwork or machine hire in item 10.

Item 7 — Include all interest paid on land and buildings in section 1, item 1. Include interest paid on CCC loans in item 7b.

► Section 3 - DEBTS AS OF DECEMBER 31, 1988

The debts to be reported are those owed as of December 31, 1988, arising from the ownership of the acres in section 1, item 1, which were leased to the farm operator whose name appears on the label.

For debts covering land areas which include, but are not limited to the acres in section 1, item 1, report only your estimate of that part of the debt that applies to these, section 1, item 1, acres. The share to be reported should be estimated in proportion to the market value of the properties. If you cannot allocate debt between owned land reported in section 1, item 1, and total owned land, report the total debt for the total owned land and the total owned acreage involved, and explain in "Remarks" on page 4. Other debts should also be prorated if they relate only in part to the agricultural operations reported for the acreage in section 1, item 1.

DO NOT INCLUDE THE FOLLOWING KINDS OF DEBTS:

- Debts on nonagricultural property such as cotton gins, canning factories, sugar mills, motels, stores, etc.
- Your tenant's share of any debts
- c. Charge accounts that are paid in full monthly (debts owed for less than 30 days should not be reported).

INCLUDE

Debts not expected to be paid in 30 days should be reported.

For each source to which no debt was owed on December 31, 1988, mark (X) in the "None" box.

► Section 4 - ASSETS OWNED BY THE LANDLORD

The assets to be reported are those owned as of December 31, 1988 that are part of, or related to, the acres reported in section 1, item1.

Estimates are acceptable. For each item owned, enter the estimated market value. If owned assets are used on more owned acreage than that reported in section 1, item 1, and leased to the tenant on the label, prorate the value of the asset to this property based on the percent it is used or located on this property. Mark (X) in the "None" box for items that do not apply.

DO NOT INCLUDE:

- a. Your tenant's share of any assets.
- Poultry, livestock, and other assets owned by contractors, investors, etc.
- c. Machinery, equipment, and other assets rented from others.

► Section 6 - AGRICULTURAL LAND OWNERSHIP

Section 6 refers to **all** of the farm and ranch land owned by you on December 31, 1988 including the acres leased to the tenant's name(s) on the label. If you have other tenants or operate owned land yourself, these should be combined into a total of all land owned by you, and recorded in section 6, item 1.

The market value for land, dwellings, and other buildings is the value of all these items on all acres owned December 31, 1988.

Item 4 - Land Use Definitions

- Cropland is land that is cultivatable and normally used for crops.
- Orchard/vineyard are permanent crops such as tree crops and vineyards.
- c. Cropland used for permanent pasture is cultivatable cropland that is being used for permanent pasture but could be cropped.
- d. All other pasture or rangeland is all land owned where livestock are permitted to graze (exclude any non-owned public grazing land).
- Forest/woodland not pastured is forest and woodland on which livestock is fenced out.
- f. Other (farmstead, wasteland, roads, ditches, etc.) is wasteland, roads, driveways, ditches, building sites, houses, barns, wind breaks, ponds, lakes, personal gardens, etc.

Item 5 — Land Acquired, Sold or Disposed of, and Owned on Specific Years — Report acres owned as of December 31 for the specified year in column 1. Report acres acquired and/or sold for the period shown in columns 2 and 3.

Item 7 — Leases — Item 7 requests the number of leases, acres leased, market value of acres leased, and value of rent received, by type of lease on the land you owned on December 31, 1988. Do not include land you rent from others, and in turn, subleased to someone else. The market value of acres leased should be your estimate of the value for all land and buildings leased, if sold on the current market. The value of rent received should be the cash value of rent paid to you, or if the rent payment was received as a share of the crop or livestock, estimate the cash value of such items if they were sold on the current market. Any combination of cash and share payment should be summed together for total value of rent received during 1988.

Item 8 — Cash Leases Adjusted — Unusual conditions could be considered drought, hall, tornado, hurricane, adverse weather damage, etc. Exceptional conditions could be growing conditions where yields are above normal.

Item 9 — Services from a professional farm management firm might include accounting and financial planning, (once a year tax preparation does not constitute financial planning), record keeping, production and input information, crop and livestock marketing, rent collecting, tenant finding, etc. These services would be performed by a person or firm other than the farm or ranch operator, landlord, or tenant.

► Section 7 — REAL ESTATE TAXES

The taxes which are to be reported in this section are those levied on farm and ranch land, buildings, and other improvements, as reported on your tax bill(s) for the year 1988, for all the farm and ranch land and buildings you own as reported in section 6, item 1. If you have more than one tax bill (example, county, State, school district, etc.) for the same acres:

- a. Include the acreage only once in item 1.
- b. For one parcel, report in item 2 the largest assessed value for one of the individual tax bills.
- c. For multiple parcels, report the sum of the taxes paid by you from all bills in item 3.

Do not include taxes on nonfarm property, such as land and buildings used for cotton gins, sugar mills, canning factories, motels, stores, etc. For taxes that are levied on both agricultural and nonagricultural property, estimate and report only that portion of the taxes applying to your farm or ranch. Exclude personal property taxes (personal property taxes are reported in section 2b, item 8).

➤ Section 8 — NET CASH INCOME FOR 1988

Mark (X) in the box that best reports your net cash income from farming and ranching in 1988. As a landlord, this would be your net cash income for the land you operate as a farm operator, partner, or corporation, plus net income from rents (cash/share, etc.), from farm or ranch land leased to others during 1988. Net cash farm income is the gross sales of agricultural products off the farm, plus gross income from farm-related sources (customwork, etc.), minus the cash farm operating expenses and cash operating expenses from farm-related income sources.

► Section 9 - TYPE OF OWNERSHIP

Use the following definitions to assist you in determining the type of organization for your land ownership. You should report in column 1, the type of organization for the land ownership on the total acres of farm and ranch land you owned and, in column 2, the type of organization for the land leased to the farm operator named on the label. They may or may not be the same.

Individual or Family (Sole Proprietorship) — Defined as a farm or business organization controlled and operated by an individual. This includes family operations that are not incorporated and not operated under a partnership agreement.

Partnership — Defined as two or more persons who have agreed on the amount of their contribution (capital and effort) and the distribution of profits. Co-ownership of land by husband and wife or joint filing of income tax forms by husband and wife does not necessarily mean that a partnership exists unless there is some agreement as to sharing contributions, decision-making, profits, and liabilities.

Corporation, Including Family Corporations — Defined as a legal entity or artificial person created under the laws of a State to carry on a business. This definition does not include cooperatives. These types of operations are often managed.

Other — Such as a cooperative (defined as an incorporated or unincorporated enterprise or association created and formed jointly by the members), estate or trust (defined as a fund of money or property administered for the benefit of another individual or organization), prison farm, grazing association, Indian reservation, etc.

► Section 10 — CHARACTERISTICS AND OCCUPATION OF LANDLORD

Individual and partnership landlords should complete part A of this section and leave part B blank. Corporation landlords should complete part B and leave part A blank. Other types of landlords, such as cooperative, estate or trust, prison farm, grazing association, or Indian reservation, should skip section 10.

Based on tests with farmers and ranchers, it takes about 40 to 60 minutes to complete this form with most landlords completing the form in 50 minutes. If you have any questions regarding these estimates or any other aspect of this survey, please call or write the Associate Director for Management Services, Room 2027, Bureau of the Census, Washington DC 20233; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington DC 20503.

FORM 88-A9B(I) (10-11-88)

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U.S. Department of Commerce BUREAU OF THE CENSUS Washington, D.C. 20233

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