

Census of Agriculture 2018

United States Department of Agriculture (USDA), National Agricultural Statistics Service (NASS)

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Identification

SURVEY ID NUMBER

GUM_2018_CA_v01_M_v01_A_ESS

TITLE

Census of Agriculture 2018

ABBREVIATION OR ACRONYM

CA 2018

COUNTRY

Name	Country code
Guam	GUM

STUDY TYPE

Agricultural Census [ag/census]

SERIES INFORMATION

The U.S. Bureau of the Census conducted the first Census of Agriculture in Guam in 1920, as part of the decennial Population and Housing Census. From 1930 through 1960, censuses of agriculture continued to be carried out in conjunction with the decennial population and housing census program. Beginning in 1964, censuses in Guam were conducted as part of the quinquennial censuses of agriculture and have been conducted on a five-year cycle. The Census of Agriculture 2018 was the fifteenth agricultural census to be conducted in Guam.

ABSTRACT

The census of agriculture is the leading source of statistics about Guam's agricultural production and the only source of consistent, comparable data at the island level. Census statistics are used to measure agricultural production and to identify trends in an ever-changing agricultural sector. The census includes data on the structure of agricultural land, crops and livestock, farm characteristics, as well as production expenses, value of agricultural products, use of technology, and aquaculture.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Agricultural holdings

Scope

NOTES

The census scope covered agricultural (crops and livestock) activities. Additionally, information on aquaculture activities carried out by the holdings was collected.

The questionnaire collected information on:

1. Land in agriculture
2. Root crops
3. Vegetables and melons
4. Fruits, nuts, and nursery crops
5. Land use
6. Irrigation
7. Livestock
8. Poultry
9. Aquaculture
10. Value of sales
11. Production expenses
12. Equipment
13. Practices

KEYWORDS

Keyword
Structure of Agriculture
Land use
Crops
Livestock and Poultry
Aquaculture
Agricultural Equipment

Coverage

GEOGRAPHIC COVERAGE

The Census of Agriculture 2018 covered the entire territory of Guam.

UNIVERSE

The statistical unit for the Census of Agriculture 2018 was the farm, defined as any place from which USD 1000 or more of agricultural products produced and sold, or normally would have been sold, during the calendar year 2018 (1 January to 31 December 2018). According to the census definition, a farm is essentially an operating unit, not an ownership tract. Therefore, all land operated or managed by one person or partnership represents one farm. In the case of multiple tenants, the land assigned to each tenant is considered a separate farm, even though the landlord may consider the entire holding to be a single unit.

Producers and sponsors

PRIMARY INVESTIGATORS

Name
United States Department of Agriculture (USDA), National Agricultural Statistics Service (NASS)

PRODUCERS

Name	Affiliation	Role
College of Natural and Applied Science	University of Guam	Recruitment and training of local officers and field staff; supervision of local administrative matters
Guam Department of Agriculture		Preparation of the questionnaire

Sampling

SAMPLING PROCEDURE

The frame of the Census of Agriculture 2018 consisted of a list of farm operators compiled by the Cooperative Extension and Outreach Service of the University of Guam, and by the Guam Department of Agriculture.

The census was a complete enumeration of all farms from the frame which met the cut-off threshold. Namely, it included all holdings that produced and sold agricultural products worth USD 1000 or more, or that would have normally sold this amount during the 2018 calendar year.

Data collection

DATES OF DATA COLLECTION

Start	End
2019-04	2019-08

DATA COLLECTION MODE

Face-to-face [f2f]

DATA COLLECTION NOTES

Data for the Census of Agriculture 2018 was collected via face-to-face interviews through pen and paper personal interviews (PAPI). The census employed one project manager, one crew leader/supervisor, and ten enumerators, who received a special training in accordance with instructions prepared by National Agricultural Statistics Service. The training included practice in interviewing and filling out the questionnaire plus detailed discussion of the enumerator's instructions.

QUALITY ASSURANCE

Quality checks included strict field supervision, clerical screening for farm activity, follow-up of non-respondents, keying and transmission of completed report forms, computerized editing of inconsistent and missing data, review and correction of individual records identified during the computer edit, review and correction of tabulated data, and electronic data processing.

Efforts were made to measure errors associated with the adjustments done for farm operations that were on the list of farm operators but did not respond to the questionnaire. The error measurement was derived from the standard error of estimates at island level, where appropriate, and was expressed as a coefficient of variation at the island level. Every estimate has a corresponding coefficient of variation published with it.

questionnaires

QUESTIONNAIRES

One questionnaire was used for the census. The form was prepared by the National Agricultural Statistics Service, in cooperation with the Guam Department of Agriculture. The questionnaire covered 15 out of the 23 essential items recommended in the WCA 2020.

data_processing

DATA EDITING

The keyed data from each report form was available to analysts of the National Agricultural Statistics Service in Washington, DC, via electronic media, for computer editing and analysis. The corrected data were then tabulated by the computer and reviewed by analysts. Prior to publication, tabulated totals were reviewed by analysts to identify inconsistencies and potential coverage problems. Comparisons were made with previous census data, as well as other available data. The computer system provided the capability to review up-to-date tallies of all selected data items for various sets of criteria, which included, but were not limited to, geographic levels, farm types and sales levels. Data were examined for each set of criteria, and a write-up (criticism) was produced for data that was inconsistent. When necessary, data inconsistencies were resolved by carrying out corrections to data records.

DATA PROCESSING NOTES

Completed questionnaires of the Census of Agriculture 2018 for Guam were sent to the Census Bureau's National Processing Center in Jeffersonville, Indiana for data capture and scanning. Optical scanning was used to capture data from the questionnaires. Staff of the National Agricultural Statistics Service on site at the National Processing Center provided technical guidance and monitored processing activities. Each report form was reviewed and coded prior to data keying. Report forms that did not meet the census farm definition were voided. Missing information was derived using reported data for similar farms (in terms of type and size) in nearby areas. After all the report forms had been reviewed and coded, the data were keyed and subjected to a thorough computer edit.

Access policy

CONTACTS

Name	Affiliation	Email	URL
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College of Natural and Applied Science	University of Guam		Link
National Agricultural Statistics Service (NASS)	United States Department of Agriculture (USDA)	nass@nass.usda.gov	Link

ACCESS CONDITIONS

Access and use information is set by National Agricultural Statistics Service, Department of Agriculture:
<https://catalog.data.gov/dataset/quick-stats-agricultural-database>.

Metadata production

DDI DOCUMENT ID

DDI_GUM_2018_CA_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
College of Natural and Applied Science		University of Guam	Metadata producer
National Agricultural Statistics Service	NASS	United States Department of Agriculture (USDA)	Metadata producer
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata adapted for FAM
Development Data Group	DECDG	World Bank Group	Metadata adapted for World Bank Microdata Library

DDI DOCUMENT VERSION

Identical to a metadata (GUM_2018_CA_v01_M_v01_A_ESS) published on FAO microdata repository (<https://microdata.fao.org/index.php/catalog>). Some of the metadata fields have been edited.

data_dictionary

Data file	Cases	variables
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study_resources