

Agricultural Census 2019

Ministry of Planning, Statistics and Informatics Division (পরিচালনা পর্ষদ, পরিসংখ্যান ও তথ্যবিভাগ, বাংলাদেশ পরিসংখ্যান ব্যুরো (BBS, পিএসআইডি))

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Identification

SURVEY ID NUMBER

BGD_2019_AC_v01_M_v01_A_ESS

TITLE

Agricultural Census 2019

ABBREVIATION OR ACRONYM

AC 2019

TRANSLATED TITLE

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COUNTRY

| Name | Country code |
|------------|--------------|
| Bangladesh | BGD |

STUDY TYPE

Agricultural Census [ag/census]

SERIES INFORMATION

The first agricultural census (AC) in Bangladesh, at that time a territory, was carried out in 1960. After independence in 1971, five ACs were carried out in 1977, 1983/1984, 1996, 2008 and 2019. An Agricultural Sample Survey was conducted in 2005.

ABSTRACT

The agriculture sector plays an important role in the overall economic development of Bangladesh, and it is a major source of rural employment as well as an accelerator of the country's food production. The broad objective of the census is to determine the structure and characteristics of agricultural holdings. Amongst the other objectives are to provide statistics for crops, fishery, and livestock subsectors, as well as for land use, types of land, and diversity of crops; to provide information about irrigation, agriculture inputs, equipment, and the fisheries sub-sector; and to provide a sampling frame for surveys and censuses related to agriculture. Further, the census' importance lies in the need for timely and reliable statistics on the structure and performance of the agriculture sector to ensure sound agricultural development planning.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Agricultural holdings

Scope

NOTES

The census scope covered agricultural activities (crop, fisheries, and livestock production).

The AC 2019 covered 15 out of the 23 essential items recommended in the WCA 2020, and data were collected using two questionnaires:

- a short questionnaire in the first phase (complete enumeration)
- a long questionnaire in the second phase (sample-based)

The first questionnaire collected information on:

- Household's members number and engagement in agricultural activities
- Land of household: information on extension and usage
- Pisciculture
- Livestock and Poultry
- Crop production: temporary and permanent crops
- Agricultural machinery

The second questionnaire was more extensive and collected information on:

- Land Use and Type
- Land Ownership
- Information on Agriculture: agricultural machinery, cause of crop loss, source of funds, crop production
- Cultivated and Caught Fisheries
- Cattle: dairy production, cattle feed, other costs
- Poultry: egg production, feed and medicine related costs
- Manpower Engaged in Agricultural Work
- Food Security

KEYWORDS

| Keyword |
|---------------------------------------|
| Structure of Agriculture |
| Land Use |
| Land Ownership |
| Crops |
| Livestock and Poultry |
| Fishery |
| Aquaculture |
| Food Security |
| Agricultural Equipment and Facilities |

Coverage

GEOGRAPHIC COVERAGE

The AC 2019 covered the entire country.

UNIVERSE

The statistical unit for the AC 2019 was the agricultural household (holdings), defined as a production unit under single management, both technically and economically, and engaged in agricultural activities. The census covered all households of the country among the households which were cultivating at least 0.05 acres of land, which were defined as agriculture households.

Producers and sponsors

PRIMARY INVESTIGATORS

| Name |
|--|
| Ministry of Planning, Statistics and Informatics Division (পরিকল্পনা, পরিসংখ্যান ও তথ্য বিভাগ), Bangladesh Bureau of Statistics (BBS, পরিসংখ্যান বুরো), Bangladesh Bureau of Statistics (BBS, পরিসংখ্যান বুরো) |

Sampling

SAMPLING PROCEDURE

The AC 2019 used a short and long questionnaire, and data collection was carried out in two phases:

- Phase I: a complete the enumeration of all households, a short questionnaire containing basic agriculture-related items was used for data collection from 9 to 20 June 2019
- Phase II: sample enumeration with a long questionnaire was adopted to obtain detailed data on agriculture. Data collection was conducted from 22 November to 29 December 2020

The operational holdings identified in the first phase, conducted using a short questionnaire, provided the frame for the

agricultural survey for the second phase of the census. The AC 2019 also provided a frame for conducting different surveys on crop, fisheries, and livestock sectors in the country.

A two-stage stratified sampling design was used in the second phase of census, Agriculture Sample Census 2020 (ASC 2020). In the first stage, enumeration areas (EAs) were selected by probability proportional to size (PPS) and in the second stage, farm households were selected by systematic random sampling. Each district was considered as domain which contained three strata (crops, fisheries and livestock) so there were 64 domains in the country and 192 strata. From each of the strata, 53 EAs were selected as the primary sampling units (PSUs) and where domains had less than 53 EAs, all the EAs were selected for the PSUs. A total of 9 863 EAs (PSUs) were selected in the sample. In the second stage, 15 farm households were selected from every sample EA irrespective of the size of the EA. In the case of EAs with less than 15 farm households, all households were selected. A total of 147 674 households were selected.

Data collection

DATES OF DATA COLLECTION

| Start | End | Cycle |
|------------|------------|-----------------------------------|
| 2019-06-09 | 2019-06-20 | First phase (short questionnaire) |
| 2020-11-22 | 2020-12-29 | Second phase (long questionnaire) |

DATA COLLECTION MODE

Paper and Pen Interviewing [PAPI]

DATA COLLECTION NOTES

The data collection in the first phase of the AC 2019 involved 144 236 enumerators, supervised by 23 183 supervisors at a rate of five to six enumerators per supervisor. The supervisors' activities were coordinated by 2 124 zonal officers. In addition, the Bangladesh Bureau of Statistics (BBS) appointed 89 district coordinators, 10 divisional census coordinators to monitor and complete the field level data collection. In the second phase of the census, data collection involved 1 223 enumerators, 223 supervisors, 64 district census coordinators, and 8 divisional census coordinators.

QUALITY ASSURANCE

The AC questionnaires were pre-tested at the field level to test the relevance and adequacy of the survey instruments. The results of the pre-test were analyzed for finalizing the questionnaires. Following the completion of the census field work, a Post Enumeration Check (PEC) Survey was conducted to assess the quality of the data.

data_processing

DATA EDITING

Data processing was carried out using the Intelligent Character Recognition (ICR) method for scanning and extracting data from paper forms. GIS maps were used to identify enumeration areas under Mouza or Moholla.

Data editing included validation carried out by staff who reviewed the processed data and corrected errors or missing data manually. Foxpro was used for data analysis of the AC short questionnaire, CSpro was used for the long questionnaire for data entry, processing and analysis, and STATA was also used for data analysis. All data were thoroughly edited to ensure completeness, accuracy, and consistency.

Access policy

CONTACTS

| Name | Affiliation | Email | URL |
|--|--|---------------------------------|----------------|
| Bangladesh Bureau of Statistics (BBS, গণপ্রজাতন্ত্রী বাংলাদেশ পরিসংখ্যান ব্যুরো) | Ministry of Planning, Statistics and Informatics Division (পরিকল্পনা, পরিসংখ্যান ও তথ্য বিভাগ) | director.agriculture@bbs.gov.bd | www.bbs.gov.bd |

ACCESS CONDITIONS

Data access conditions are set by <http://nsds.bbs.gov.bd/en>

For information on data access conditions contact: <http://nsds.bbs.gov.bd/en>

****DATA AND METADATA ARCHIVING****

Census results were disseminated and are accessible online. Metadata of AC 2019 and ASC 2020 is archived in the BBS server. The data can also be explored from Agriculture Data Management System (ADMS) of BBS. All reports with metadata are available in the Agriculture Data Management System (ADMS) which is available on the BBS website (www.bbs.gov.bd).

Metadata production

DDI DOCUMENT ID

DDI_BGD_2019_AC_v01_M_v01_A_ESS_FAO

PRODUCERS

| Name | Abbreviation | Affiliation | Role |
|--|--------------|--|---|
| Bangladesh Bureau of Statistics (সংসদীয় পরিসংখ্যান বিভাগ) | | Ministry of Planning, Statistics and Informatics Division (সংসদীয় পরিসংখ্যান বিভাগ) | Metadata producer |
| Statistics Division | | 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 (BGD_2019_AC_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 |
|------------------|--------------|------------------|
|------------------|--------------|------------------|

study_resources

questionnaires

Questionnaire 2

title Questionnaire 2
filename BGD_Questionnaire2_ENG_2019.pdf

Questionnaire 1

title Questionnaire 1
filename BGD_Questionnaire_ENG_2019.pdf

reports

Final Report 3

title Final Report 3
filename BGD_Report3_ENG.pdf

Main Results

title Main Results
filename Main_Results_Bangladesh_2019.pdf

Final Report 1

title Final Report 1
filename BGD_Report1_ENG.pdf

Final Report 4

title Final Report 4
filename BGD_Report4_ENG.pdf

Final Report 2

title Final Report 2
filename BGD_Report2_ENG.pdf
