Welcome

To the Presentation on

Agriculture (Crops, Fisheries and Livestock) Census 2018

To be conducted by

Bangladesh Bureau of Statistics (BBS)

Statistics and Informatics Division (SID)

Ministry of Planning
Outline

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## Background of Agriculture Census

<table>
<thead>
<tr>
<th>Name of Agriculture Census</th>
<th>Duration</th>
<th>Legal Basis</th>
<th>Coverage</th>
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<tbody>
<tr>
<td>Agriculture Census-1960</td>
<td>1 Feb. to 21 March 1960</td>
<td>Agricultural Census Act NO. XLI of 1958</td>
<td>5773 sample mauzas Randomly selected (mainly crops, livestock, fishery partly)</td>
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<td>Agriculture Census-1977</td>
<td>14 April to 31 May 1977</td>
<td>Agricultural Census Act NO. XLI of 1958</td>
<td>14% rural mauza and hill tracts was done special arrangement</td>
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<tr>
<td>Agriculture Census-1983-84</td>
<td>20 days in both years</td>
<td>Agricultural Census Act NO. XLI of 1958 (Amended in 1983)</td>
<td>50% mauza covered with urban rural</td>
</tr>
<tr>
<td>Agriculture (Crops, Fisheries and Livestock) Census-2018 (Proposed)</td>
<td>16-30 April 2018</td>
<td>Statistics Act, 2013</td>
<td>Full count of urban and rural (agri. HH in 4 major City Corporations) (Crops, Fisheries and Livestock details for the first time)</td>
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Mandate for Agriculture Census

▶ Statistics Act, 2013

Clause-6(Ga), BBS is mandated to conduct Agriculture (Crops) Census, Fisheries and Livestock Census

▶ NSDS

Mentioned Agriculture Census as one of the core activity (Core activity:2.3.1) of BBS.

(It emphasized on improvement of crop and non-crop statistics (Agriculture Wing: Strategic Goal-1 and Goal-6) where AC frame will be the basis)
Main objectives

- To identify the structural changes of agriculture sector over time
- To provide basic data of agriculture sector for policy making
- To prepare sampling frame for agricultural surveys
Specific Objectives

i. To conduct the agriculture (crops, fisheries and livestock) census
   (a large scale periodic statistical operation, based on which the comprehensive reports will be made available to the users in shortest possible time)

ii. To determine the structure and related characteristics of agriculture sector
   (by providing statistical data on land utilization, tenancy in terms of leasing, cropping pattern, irrigation status, livestock population with other characteristics, area under fish cultivation and other related information, agricultural machineries and transports, use of fertilizers and other agricultural inputs etc.)
Specific Objectives (Contd.)

iii. To provide benchmark data
   (needed for formulating agricultural development program for agriculture sector and for evaluating progress)

iv. To provide basic frames of households and operational holdings
   (for carrying out future surveys on crops, Poultry-livestock and fisheries subsector)

v. To find basis for developing an integrated program (for current agricultural statistics)

vi. To provide statistics for observing the structural changes
    (in agriculture sector (crops, Poultry-livestock and fisheries) over the years)
Specific Objectives (Contd.)

vii. To facilitate formulation of the government policies and programs
(for the benefit of the rural poor, small and marginal agricultural households and rural development)

viii. To generate disaggregated agriculture statistics
(by administrative and geographic areas, such as division, district, upazila (sub district), union, mouza and rural, urban etc.)
Major areas to be Covered

- Number of farm household
- Gross Cropped area
- Net cropped area
- Propensity of cropping
- Arable land
- Area under each crop
- Homestead land
- Area under permanent crop
- Area under temporary crop
Major areas to be Covered

- Number of livestock HH
  (number of cows, buffaloes, goats, sheep, pigs, poultry birds, ducks, pigeons and other relevant information)

- Number of fisheries HH

- Area under piciculture

- Area under pond and so on

- Detail information on fishery sub-sector
# Previous ACs vs AC 2018

<table>
<thead>
<tr>
<th>SI</th>
<th>Previous Agriculture Censuses</th>
<th>Agriculture Census 2018</th>
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<tbody>
<tr>
<td>01.</td>
<td>A core module, along with a questionnaire, was used for most of the parameters of crop and land use statistics and few parameters of fishery and livestock sub-sectors were estimated/obtained from Previous ACs.</td>
<td>A core module will be used to obtain major parameters of three sub-sectors, and three long questionnaires will be used for collecting detail information for each sub-sector.</td>
</tr>
<tr>
<td>02.</td>
<td>Sampling frame for conducting different surveys, was not prepared from Previous ACs.</td>
<td>One of the prime objectives of AC 2018 is to prepare a Sampling Frame for conducting different surveys of each sub-sector.</td>
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Major issues for considerations (Precensus Activities)

- Literature review (national, international);
- Appropriate designing of the Census;
- “World Programme of the Census of Agriculture 2020 (WCA 2020)” the Guidelines of FAO;
- Identification of questions for core module;
- Identification of questions for long questionnaires;
- Preparation of draft tabulations and manuals;
- Determination of degree of undercount;
- Level of disaggregation of data;
- Integration with other surveys and sampling frame;
First zonal operation for identifying enumeration areas using GIS maps and updating number of hh in computer sheet

Second zonal operation for updating maps and computer sheet, selecting enumerators, supervisors, training centers, banks etc.

To conduct Final Census using Core Module and identify agriculture hh

To conduct Post Enumeration Check

To conduct Sample Census using long questionnaire for crops, fisheries and livestock sub-sectors
Census Methodology

- Full enumeration of general households and agricultural farm will be conducted;
- Approximately 150 thousand enumeration areas will be formed across the country;
- GIS maps will be used for the formation of the enumeration area;
Final operation of AC 2018 will be carried out using a core module

Under counting of AC 2018 (if something is found) will be adjusted following Post Enumeration Check (PEC);

Sample Census will be conducted using long questionnaire for crops, fisheries and livestock;

Data will be inferred and/or extrapolated to the national or subnational level;

ICR technology will be used for data capturing;
Training in agriculture census

- **Stage-1:** Training of master trainers;
- **Stage-2:** Training of Zonal officers;
- **Stage-3:** Training of enumerators and supervisors.
Human Resource for Agriculture Census

- Enumerator : 1,50,000 (per Enu=200HH)
- Supervisor : 24,700 (Per Sup=6Enu)
- Zonal Officer : 2600
- District Census Coordinator : 150
- Divisional Census Coordinator : 8
- Additional National Census Coordinator : 4
- National Census Coordinator (DG) : 1
- Chief Census Coordinator (Secretary) : 1
Output of Agriculture Census 2018

- Preliminary report
  - Report on basic statistics of agricultural holdings (Vol-1);
  - Report on cropping pattern (Vol-II);
  - Reports on sample census (Vol-III);
- Analytical report (Vol-IV);
- PEC report (Vol-V);
- Administrative report (Vol-VI);
- Zila Series -64 reports for 64 Zilas;
## Expected improvements in annual estimates

<table>
<thead>
<tr>
<th>Sub-sector</th>
<th>Existing System</th>
<th>Expected Improvements after AC 2018</th>
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<tbody>
<tr>
<td>Crops</td>
<td>Annual production estimates generated by BBS</td>
<td>Sampling Frame based on AC will be used by BBS for providing annual crop production estimates which will be used for GDP calculation</td>
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<tr>
<td>Fisheries</td>
<td>Annual administrative production data generated by DoF</td>
<td>Sampling Frame based on AC will be used by DoF for providing annual fish production estimates which will be used for GDP calculation</td>
</tr>
<tr>
<td>Livestock</td>
<td>Extrapolated data used, based on mainly inter-censal growth rate (BBS) and partially data from DLS</td>
<td>Sampling Frame will be used for annual surveys</td>
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Expectations from this Meeting

- Discuss issues useful in designing agriculture census 2018;
Tentative areas for support

- Preparation of census tabulations for crop, fisheries and livestock census
- Preparing questionnaire and training manual
- Data capturing
- Preparing and finalizing census reports
- Developing sampling frame for annual surveys for crops, fisheries and livestock and other related surveys
Thank you