

Country Experience : Bangladesh

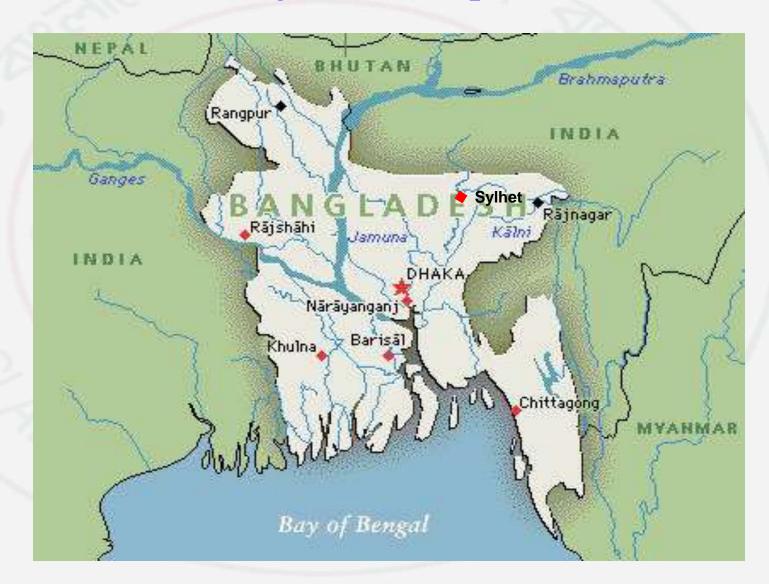
POPULATION AND HOUSING CENSUS 2011 2nd Session of the OIC Statistical Commission Izmir, Republic of Turkey 13-15 May 2012

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Statistics and Informatics Division
Ministry of Planning



Bangladesh Map



Presentation Outline

- Resume of Censuses in Bangladesh
- Census Activities
- Data Dissemination
- Technology and Strategy used
- Lessons learned



Resume of Census in Bangladesh

- Bangladesh Bureau of Statistics (BBS) is mandated to conduct the population and housing census
- Census history in this territory
 - Pre-independence: 1872, 1881,1891, 1901, 1911, 1921, 1931, 1941,1951, 1961
 - > Post-independence: 1974, 1981, 1991, 2001
 - > Present: during March15-19, 2011
- ➤ Population and housing census is conducted in Bangladesh decennially and the current one is the fifth census in independent Bangladesh

Main Objectives of the 5th Census of Bangladesh

- To develop benchmark database for all areas of the country for preparation of development plans and programmes
- To develop sampling frame for all socio-economic surveys
- To use in area delimitation and updating of electoral rolls of all national and local level elections

Census Act and Different Body

- In Bangladesh Census was conducted under The Census Order 1972 vide President's Order No. 70 of 1972.
- For policy matters there is a National Statistical Council (NSC) headed by the Minister for planning
- For inter-ministerial coordination there is a **Steering Committee** headed by the Secretary, Statistics Division
- For technical support there is a **Technical Committee** headed by the Director General, BBS
- For execution of census activities there is a **Working Group** headed by the Project Director.

Census Phase

Phase 1: Main census

Phase 2: PEC (Post Enumeration Check)

Phase 3: Sample census.

Method of Enumeration

- House to house interview method
- > Floating Population were enumerated at census night.
- Modified De-Facto method of enumeration adopted for collection of data for the main census and the PEC
- De-Jure method of enumeration was followed in the sample census
- People on duty and on board were counted at their usual residences

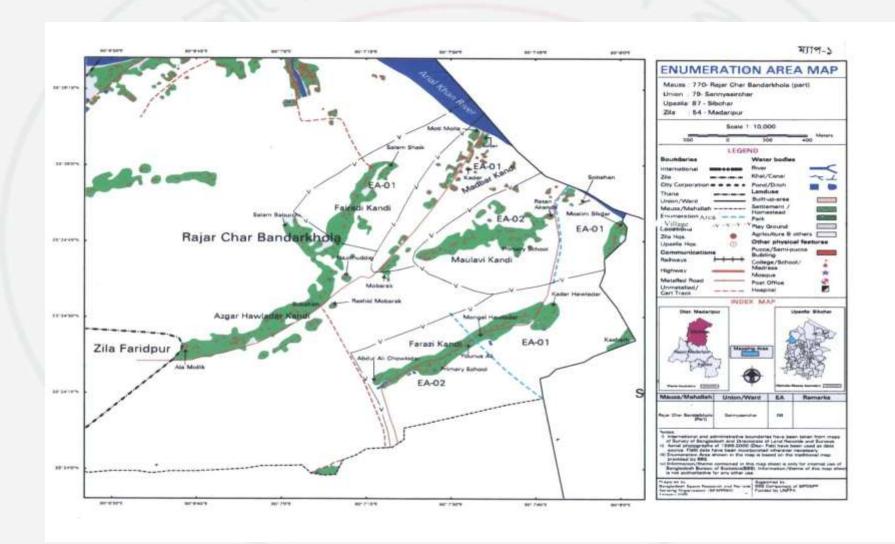
Stages of Census Operation

- Stage 1 : Pre-census activities
- Stage 2 : During census activities
- Stage 3: Post census activities

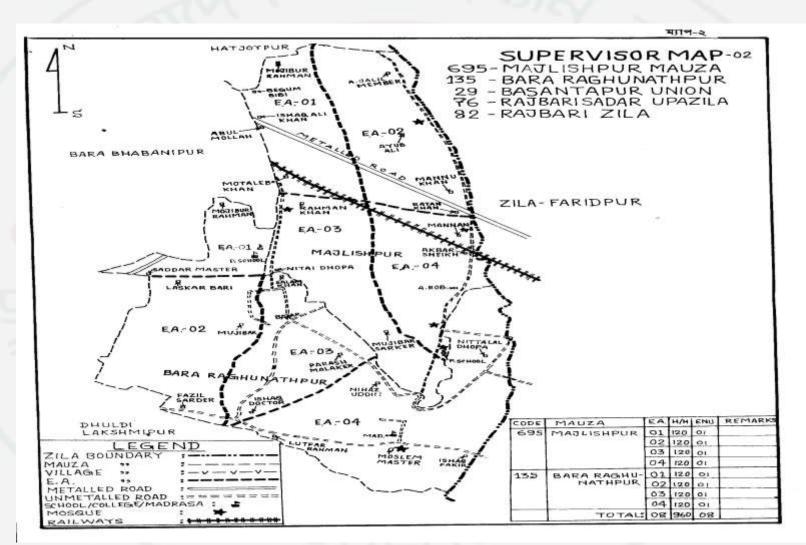
Stage 1: Pre-census Activities

- Updating of Enumeration Area (EA) and supervisor maps and geo-codes
- 2. Designing and pre-testing of questionnaire
- 3. Preparation of Verbatim training manual
- 4. Consultation with stakeholders
- 5. Formation of Census Committees
- 6. Pre-testing of Census Questionnaire
- 7 Printing of Questionnaire with quality assurance

Mauza Map



Supervisor Area Map



Stage 1: Pre-census Activities (cont..)

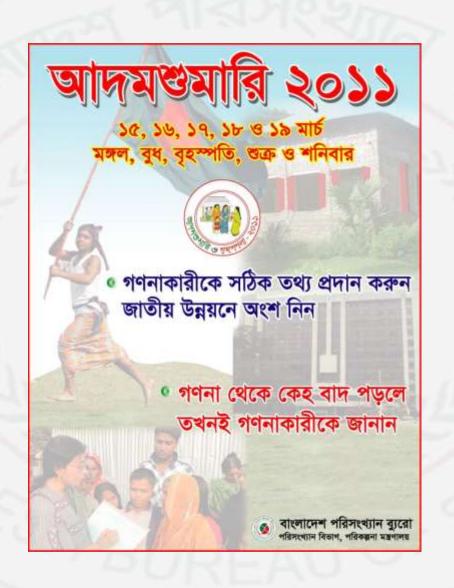
- 8. Pilot Census for verifying overall preparation for the census
- 9. Preparation of enumerator and supervisor list
- 10. Selection of training centers
- 11. Preparation of audio-visual training package in CD & DVD
- 12. Preparation of publicity material and actuation of publicity
- 13. Imparting training to the District Census Coordinators (DCC)s and Zonal Officers (ZO)s.
- 14. Packing of census materials
- 15. Distribution of census materials

Census Reference Period

- Census moment: Zero hour on 15 March,2011
- Census night: Zero hour thru' 6 a.m. on 15 March,2011
- Census period: 15 thru' 19 March, 2011

Census Publicity

- Census publicity arranged to create public awareness
 - > Publicity through print and electronic media
 - ➤ Big size poster for public places
 - ➤ Brochure for institution
 - ➤ Miking for residential area and market
 - ➤ Banner for main public places
 - >Sticker for vehicles
 - ➤ Postal stamp



Questionnaire

- There are 25 questions in the census questionnaire
 - 11 on household and housing (H&H) module
 - 14 on individual module
- Questions on type of household, number of houses, tenancy of the house, source of drinking water, toilet facilities, electricity connection were asked in the HH module
- Information on age, sex, marital status, religion, educational status, field of education, literacy, activity status, field of employment were collected in the individual module
- Ethnicity and Disability are the new variables included in the questionnaire

Census Form/Questionnaire 2011

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1. Household Address:			2. Household No.				a Floating?		4. Type of household		of 5. Number old of house		6. Type of house				7. Tenancy of the house		8. Source of drinking water				9. Toilet facilities		10. Electricity connection			11. Is it a household of athnic population?			, 5	Spoilt				
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Local Level Census Committee

- Union Census Committee
- Upazila Census Committee
- Municipality Census Committee
- District Census Committee
- City Corporation Census Committee
- Ward census committee (incase of city corporation)

Functions of the Committee

- Administrative support
- Supervisory support
- Support to publicity

Motivational Campaign

- Appeal to the teachers-
 - Let the students know the importance of census and motivate them to cooperate the enumerators
- Appeal to public through the religious leaders and religious institution authority to provide accurate data to the enumerators.

Manpower Engaged in the Census Operation in Bangladesh

- Chief Census Coordinator: 1
- National Census coordinator/ Census Commissioner: 1
- Deputy National Census Coordinator: 2
- District Census Coordinator: 130
- Upazila / Thana Census Coordinator: 530
- Zonal Officer: 2612
- Supervisor: 48531
- Enumerator: 296718

Stage 2: During Census Activities

- ➤ Main count were taken place from 15-19 March, 2011
- > The census calendar at a glance

Activities	No. of days	Date						
Training for Master Trainers at BBS HQ	3	22-02-2011	24-02-2011					
Training for Zonal Officers at District HQ	3	26-02-2011	28-02-2011					
Holding Census Committee Meeting at Different Levels	3	02-03-2011	04-03-2011					
Training for Enumerators and Supervisors (3 batches)	9	05-03-2011	13-03-2011					
Main Count	5	15-03-2011	19-03-2011					

Quality Control

Close Supervision:

- i. One supervisor for every 5/6 enumerators
- ii. One Zonal Officer for 2 Unions/Wards
- iii. One UCC for each Upazila
- iv. One DCC for each District or part of a big one
- Independent Check by observer group.
- Use of quality map
- Active participation of local census committees
- Recruitment of more educated female enumerators

Director General BBS is Cheeking the Field Data Collection



Stage 3: Post Census Activities

- > Storing and Inventory of documents
- Data capture by ICR
- Data editing
- Compilation of preliminary report
- Data analysis and preparation of community series and district series
- Preparation of manuscripts for National Report
- Development of database
- Conducting Post Enumeration Check (PEC)
- Carrying-out Sample Census

Technology Used

- Data is being Captured by using ICR machine
- iCADE software is used for data capturing
- CSPro is being used for data analysis
- Data capturing process and iCADE Software is supported by US Bureau of Census.

Scanner used in Census Data Capture



Data Processing of Census 2011



Honorable Planning Minister Viewing the Data Processing Work of Census,2011



Honorable Planning Minister Viewing the Data Processing Work of Census, 2011 (contd.)



Post Enumeration Check (PEC)

- Post enumeration check was conducted independently under control and supervision of Bangladesh Institute of Development Studies (BIDS) during 10-14 April, 2011.
- PEC conducted in 280 enumeration areas
- Both the coverage and content errors will be determined judiciously
- Adjustment will be made to the census data as per standard procedure

Sample Census

- A large survey i.e., sample census was conducted to collect detailed socio-economic and demographic data to compliment the main census
- Estimation and preparation of demographic indicators
- Preparation of national and regional population projection
- 81 Questions with 10 Modules were used in the sample census
- Long Form Enumeration

Tabulation plan

- A tabulation plan has been prepared through input-output analysis:
- Disaggregation by Sex, Locality, Division and District
- ❖ Table number for tabulations of house and housing characteristics are preceded by H, community characteristics by C and Population characteristics by P.
- ❖ As per draft tabulation plan, there will be 38 Statistical table for district series, 18 for community series, 4 for national volume-2 and 139 for analytical report.

Dissemination Plans

Census results will be disseminated Through:

- 1. Printed reports-preliminary, national and community;
- 2. Data products-statement, tables, maps, charts, graphs;
- 3. Report and data -CD and DVD;
- 4. Report and data in Homepage-

(BBS website- www.bbs.gov.bd);

5. Seminar, Workshop and Press Conference

Publication of Reports

- Preliminary report 1
- 2. National series (analytical) volume 1
- 3. National series (union) volume 2
- 4. Urban area report volume 4
- Demographic report volume 3
- 6. District census report 64 volumes
- 7. Community report 64 volumes
- 8. Administrative report volume 5

Reports will be made available in hard copy and CD and key information in website of BBS (www.bbs.gov.bd)

New Features in the Census 2011

- Introducing digital map
- Ensuring total involvement of field administration
- About 30% of ZOs and DCCs are from other organization
- Changing the questionnaire format
- Maximizing the number of female enumerators
- Supplying 'Training Manual' and 'Enumeration Area' map to all the enumerators and supervisors
- Providing audio-visual training in every level
- Introducing ICR in data capture

Preliminary Results

Table: Population by sex, sex ratio, number and average size of households

0 /.	Popula	tion (thou	usands)	C	Househ	olds
Division	Total	Males	Females	Sex ratio	Total	Average size
Barisal	8,147	4,006	4,140	96.8	1,837,700	4.4
Chittagong	28,079	13,763	14,316	96.1	5,604,700	5.0
Dhaka	46,729	23,814	22,915	103.9	10,802,100	4.3
Khulna	15,563	7,782	7,781	100.0	3,740,500	4.2
Rajshahi	18,329	9,183	9,146	100.4	4,481,900	4.1
Rangpur	15,665	7,824	7,840	99.8	3,815,500	4.1
Sylhet	9,807	4,882	4,925	99.1	1,785,300	5.5
Bangladesh	142,319	71,255	71,064	100.3	32,067,700	4.4

Table B: Population trend of Bangladesh, 1974 - 2011

(Population in thousands)

15	1974	1981	1991	2001	2011
Population size (1)	71,479	87,120	106,315	124,355	142,319
Population change	_	15,641	19,195	18,040	17,964
Population increase %	_	21.9	22.0	17.0	14.4
Average annual increase (2)	_	1,931	1,920	1,804	1,772
Average annual growth rate %	_	2.32	2.01	1.58	1.34

⁽¹⁾Enumerated population

⁽²⁾Intercensal period 2001-2011 is 10 years and 51 days

Lesson Learned

- Consistent and effective training improved quality of census data
- Wide publicity improved both coverage and quality of data
- Using same map by both the enumerator as well as the supervisor helped to control duplication and omission in the census.
- Local level committee were found very effective in motivating the public at large whole heartedly in providing actual data to the census workers.
- Audio-visual training is found to be very effective in dissemination of training concepts to the enumerators and supervisors.
- Female enumerators were found to be more sincere and acceptable to the respondent.
- It would have been better if Household listing was done during zonal operation

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Future population prospects

- Age-sex projection of population for the next 10 or 50 years will be done depending on the decision of the Standing Technical Committee
- Data Source: SVRS and Sample Census etc.

Conclusion

 Application of digital map at data collection, audio-visual and small group training at the training phase and rational distribution of work, good governance in census operation and application of ICR technology in data capture and data processing will hopefully end up with quality and credible results.



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Line Number	Name of Household member Write names of all members usually living in the HH. Write the nickname in English in block letters. Write the names in the order: head, spouse, youngest child, older child, other relative and other non-relative.	Age Write the number of completed years, enter "00" if less than one year	Relationship with Head of Household 1-Head of household 2-Wife/husband 3-Children 4-Parents/ parents-in-law 5-Daughter/ son-in-law 6-Brother/sister and brother/ sister-in-law 7-Grandchildren/ great grandchildren/ great 9-Non-relative	1-Male 2-Female	Line number of mother Write '00' if biological mother is not a member of the household If mother is a member of HH, → Go to Q.28	mother alive 1-Yes 2-No	Is father alive 1-Yes 2-No 3-Don't know	Religion 1-Islam 2-Hinduism 3-Buddhism 4-Chirstianity 5-Others	Mother tongue 1-Bengali 2-Others	Second language 1-Bengali 2-English 3-Others 4-None	a. Birth place 1-Same Zila → Q.33a 2-Different Zila 3-Different Country	b. Different Zila/ Country Code (Write using code list)	c. Type of locality of birth 1-Rural area 2-Metropolitan area 3-Other urban area	a. Duration of living in this Zila (Completed years) If Q.32a = 1 → Q.34a	b. Main reason for coming to this Zila 1-Marriage 2-Education 3-Employment/Business 4-In search of work 5-Natural calamity 6-Family quarrel 7-Tortured/ deserted by spouse 8-Other	a. Previous residence, 5 years ago 1-Same Zila → Q.35 2-Different Zila 3-Different Country	b. Different Zila/ Country Code (Write using code list)	locality of former residence	35. School attendance 0-Don't currently attend → Q.37 1-Pre-primary 2-Primary 3-Junior secondary/ higher secondary 5-Graduate 6-Masters and over	36. Type of school 1-Government 2-Non-government/MPO 3-Religious/ 4-Non-formal 5-Others	37. Literacy 1-Cannot read and write → Q.40 2-Can read only → Q.40 3-Can read and write	38. Highest class passed (Education code)	39. Field of education 1-General 2-Technical, Vocationa 3-Religious
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