

Addressing Extreme Poverty in Bangladesh – The Case of Monga

Survey Report: Data Analysis and Technical Assistance Limited

This report describes various important concerns and different steps relating to the design of the survey. Various steps taken to make the general survey methodology, the field survey methodology and the data management issues function properly have been elaborated in this report. The report present the pertinent issues and steps.

Background:

Under World Bank contracts (two separate contracts), the Data Analysis and Technical Assistance (DATA) have conducted a three-round survey “Addressing Extreme Poverty in Bangladesh: The Case of monga” in the Northwestern region of Bangladesh to have a better understanding of the causes of the occurrence and persistence of Monga. This survey is specifically designed to permit a scientific and rigorous assessment, of impacts of the Monga which would have implications for policy to mitigate Monga, through follow-up surveys.

The South Asia PREM Sector Unit (SASPR) of the World Bank have undertaken this aforesaid survey. This region experiences seasonal deprivation and a famine-like situation, locally known as Monga, with alarming regularity, along with high incidence of chronic poverty. The primary objective of the task is to provide a better understanding of the causes of the occurrence and persistence of Monga, which would also have implications for broader understanding of extreme poverty in Bangladesh; implications for policy, including proposals for pilot interventions, to help relevant actors such as the government, the NGOs, and the donors to mitigate Monga. The funds for this work have come from the UK Department for International Development (DFID) trust fund (TF091124).

In order to conduct the survey the World Bank have recruited Data Analysis and Technical Assistance (DATA) through competitive bidding process, to (i) undertake a listing operation (census of households in selected 125 villages with average size of 250 households, if a village size is more than 250 households, village will be split using natural/constructed demarcation line such as by using river/canal or village road); (ii) help to revise and finalize the household and community questionnaires including translation into Bangla; (iii) pilot test the questionnaires; (iv) hire and train the field supervisors and enumerators; (v) plan, implement and supervise the field work (vi) develop the data entry program, and arrange for data cleaning and entry (vii) provide datasets and final documentation of the data. The main purpose of this consultancy was to carry out structured face to face interviews of households in Bangladesh over 3 rounds.

Survey Areas and Survey Population

The survey has both a household level and a community level questionnaire. The survey has households belonging to the Monga-prone greater Rangpur districts (Kurigram, Gaibandha, Lalmonirhat, Nilphamari, Rangpur) with the sampling frame being representative of the diversity of the region. For example, the survey covered the various

agro-ecological zones of the region, include households on river banks and away from it, include mainland households as well as char-land households. In addition to Monga area households, the survey has sample from non-Monga area households in the northwestern Bogra district. It is determined by the World Bank that the total sample size is 2,375 rural households selected from about 125 villages/PSUs. There are 95 PSUs in 5 districts of greater Rangpur (Lalmonirhat, Kurigram, Nilphamari, Gaibandha and Rangpur) and 30 PSUs in Bogra districts. *See detail in survey location at the bottom of this document.*

Technical Approach

Survey Design and Sampling Strategy

It was decided by the World Bank that the sample size for the study is 2,375 households. Out of these 2,375 households, 1,805 households from 95 PSUs/villages were from Monga-prone greater Rangpur districts (Kurigram, Gaibandha, Lalmonirhat, Nilphamari, Rangpur) and rest 570 households were from non-Monga area, Bogra district, in the northwestern. Sample list of the villages/PSUs from each of the districts were provided by the World Bank.

In the first round of survey, it entailed two sub-surveys: a) Household listing operation: census of households in selected 125 villages with average size of 250 households, if a village size was more than 250 households, village was split using natural/constructed demarcation line such as by using river/canal or village road; and b) the detailed household survey and community component. For the later one it required on-site sampling of required number of households using random sampling technique from the census list and then conducted the household survey on sampled households. For the household sampling from census list a simple random sample selection protocol was developed and used for on-site sample selection. For follow-up 2 rounds of surveys same sample households were tracked and surveyed, only exception is there was no census hence no on-site sampling procedure was adopted for later rounds.

Sampling Protocol

Since village census was compulsory to list all household in the PSUs to sample required 19 households for detailed household survey, it was decided to do the census on the first day of survey in each of the PSUs and in the evening once the census is completed an on-site sampling technique was used to sample 19 households per PSU.

Below is a practical example on sample selection procedure adopted in field after the census is completed. Simple Random Selection of households was performed as follows:

- a. Total number of household in the sample village/PSU; in this case it was 300.
- b. Total number of sample to be selected. In this case the sample size is 19 per PSU.
- c. So an “Interval” (steps) is estimate by dividing: Total Population/Sample size. In this case $300/19 = 15.79$
- d. A random number was generated for each of the PSU by using excel worksheet function “rand()”. In this case it was **0.164**
- e. Then the “Interval (step)” was multiplied by random number “Interval X Random

number”, it gave the value for first sampling number (a non-integer number) = 2.594689447.

Now for the second sampling number the “Interval” value added with first sampling number, for third sampling number again the “Interval value” with second sampling number, and so on until we get all 19 sampling number.

The census was listed per PSU from 1 to Nth number as long as it required to number all the listed households in a PSU. As the sampling numbers are non-integer number, to get an integer that corresponds to the listing number of all households the sampling numbers were converted into integer and added “1” to get the household sample number.

Below is a worksheet of practical example on sample selection procedure adopted in field after the census is completed.

Sampling Worksheet for Selection of Households

Selection procedure for 19 households census in the Baralai mouza of Barabhita union in Phulbari upazila in Kurigram district.

Location	Code:
District: KURIGRAM	29
Thana: PHULBARI	18
Union: BARA BHITA	62
Mouza: BARALAI	62
Village:	1

A	Total number of Households	Total Census in the village:	300
B	Number of Households to be selected	<i>Given sample size for the village:</i>	19
C	Step	Step = A/B:	15.79
D	Random number	<i>Given random number for the calculation:</i>	0.164
E	First random selection	Selection 1 = C X D [Step x Random #]:	2.594689447

Selection Number	Formula of Selection	Selected numbers	Final Selection (censusno) INTEGER + 1
Slection # 1	E:	2.594689447	3
Slection # 2	Selection 1+ step:	18.38	19
Slection # 3	Selection 2+ step:	34.17	35
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Slection # 17	Selection 16 + step:	255.23	256
Slection # 18	Selection 17 + step:	271.02	272
Slection # 19	Selection 18 + step:	286.81	287

Time Period of Data Collection:

The timing of three round surveys was as follows: a) first round was fielded during October-November 2008; b) second round was fielded during February-March 2009, and; c) third round survey was fielded during June-July 2009. Following table shows the exact dates of data collection time by round of surveys:

Duration of Data Collection

Rounds	Type of survey conducted	Data Collection Period
Round 1:	Village Census; Sample Household Survey, and; Community Survey	October 26 - November 29, 2008
Round 2:	First follow-up of sample Household and Community Survey	February 17 - March 14, 2009
Round 3:	First follow-up of sample Household and Community Survey	June 29 - July 27, 2009

Development of Questionnaires

The draft questionnaires for the study have been provided by the World Bank. Later Refinement and adaptation of the questionnaires has been done. Revisions of the questionnaires took place mainly at two instances: 1) initial revision by Consultant upon receipt of the questionnaires; and 2) following the practice session/pretest (testing stage), where the need for further revisions and adaptation has transpired.

After the first draft of questionnaires are received from the World Bank the questionnaires have been revised, modified and reformatted to make it more survey friendly. Then a formative research trip to North-western region (mainly Rangpur and Kurigram) of Bangladesh was arranged to understand living condition and how the people in the munga prone area response in crises. Dr. Umar Serajuddin from the World Bank and Md. Zobair from DATA participated in the formative research trip. After the formative research trip, first draft of the questionnaire has further been revised according to the understanding from formative research.

In follow-up rounds modification of questionnaires mainly due to addition of some questions to or deletion of modules from the survey instrument already fielded in the first round of the survey.

Training for Field Work

When the final draft of questionnaires for training are ready following the formative research trip, questionnaires have been adjusted according to the findings of formative research trip and tools are translated into Bangla. A nine-day long training session has been arranged to train enumerators that includes practice and pre-testing of the questionnaire. World Bank team members participated in training, the pre-test and piloting. After the pretest, a two-day feedback session has been arranged and the questionnaire was further revised for errors detected in the field test (in partnership with researchers from the World Bank) and then once again the questionnaire was modified and finalized for printing.

This practice session and pretest is considered part of the training hence the entire team of interviewers and supervisors participate in it to confirm their commitment and ability to participate in the actual survey. Interviewers tried out the instrument and gave their feedback on the duration of the interview and learn how to secure participation.

The actual survey field work commenced only after the World Bank Task Leader or representative from the World Bank has provided clearance on the final version of the questionnaires.

Training sessions were held in one location (IDB Bhaban, Rokeya Swaroni) for all three rounds of the surveys prior to survey commencement. Following table shows the duration training sessions for each round of surveys:

Duration of Training Sessions:

Rounds	Type of survey	Training Period
Round 1:	Village Census; Sample Household Survey, and; Community Survey	Main training and field practice: October 07 - October 16, 2008 Refresher: October 23 – October 24, 2008
Round 2:	First follow-up of sample Household and Community Survey	Main training and field practice: February 01 - February 09, 2009 Refresher: February 14 - February 15, 2009
Round 3:	First follow-up of sample Household and Community Survey	Main training and field practice: June 13 - June 20, 2009 Refresher: June 25 - June 27, 2009

Participants and Content of Training for Field Work

The Survey manager, all supervisors and interviewers, the data entry staff and data-entry manager participated in the training sessions. The training sessions have been conducted by the Survey Manager Md. Zahidul Hassan, Survey Coordinator Md. Zobair, Database Management Specialist Md. Imrul Hassan, Research Analysts AKM Mahfuzul Kabir and Benger Hassan and the World Bank representative Dr. Umar Serajuddin. The training sessions covered the following topics:

- Debriefing on the objectives of the study, quality control mechanisms, and overall conduct of the project;
- Detailed explanation of each question, so that enumerators are able to interpret all questions consistently, and ask all questions in the prescribed manner with informed explanations to help respondents in case of difficulties;
- Instruction on how to properly fill out the questionnaires (convention for numeric variables, importance of legal values, how to differentiate and write replies such as *non applicable*, *refusal to answer*, *don't know*, and so on);
- Issues related to data entry and checking of questionnaires;

- Techniques to secure participation, interviewing techniques, how to handle difficult situations and common occurrences, probing;
- Mock interviews to test the interviewers;
- a dry run/pretest in the field, and a recap of experience after this dry run/pretest
- Logistics and schedules.

In addition to the aforementioned topics, responsibilities of field supervisors and enumerators have been discussed in the training session.

The duties of the enumerators were to:

- visit the selected establishments/households and ensure their participation;
- conduct face-to-face interviews with the selected respondents;
- record accurately the answers; code the questionnaires accordingly;
- ensure completeness and accuracy of answers; perform accuracy checks on the questionnaires;
- ensure security and safety for the completed questionnaires;
- deliver completed questionnaires to supervisors; and
- safeguard the confidentiality and privacy of the collected information.

The duties of the supervisors were to:

- explain clearly to each enumerator his/her duties and responsibilities;
- assist enumerators in securing establishments' participation if necessary;
- provide all logistical support and material to enumerators;
- supervise all activities of their assigned enumerators during the data collection process through spot checks;
- ensure that the interviewers undertake the survey in the households chosen for the sample without substitution.
- provide replacements for non response
- assess the quality of the work of the enumerators and the quality of the data from each completed questionnaire;
- check completed questionnaires and approve questionnaire for data entry ensuring that the assigned enumerators did not overlook inconsistencies and skip patterns; and spot-check
- provide feedback to enumerators on quality assurance and methodology requirements.
- liaise and report activities to the Survey manager and compile and inform Survey manager about survey progress on weekly basis.

Content of the Questionnaires

Census Survey

Census survey is only administered in the first round of survey to list all the households in survey community. The Census questionnaire collected general information such as, household location, religion, electrification, housing characteristics, land owned by the household, ever migrated for work, participation in 100 days EGP program membership in MFI, asset listing. Furthermore the census survey collected demographic information of the household that includes member specific sex, age, marital status literacy, education

in terms of highest class passed, attending school, main occupation. Census questionnaire has been administered to each of the household in the selected villages. For a village the survey considered maximum of 250 household as village size; if a village size was more than 250 households, village has been split using natural/constructed demarcation line such as river/canal or village road. Once the census has been completed, 19 households from each of the villages sampled using random sampling technique for detailed household survey. *See detail variable and value list in the attached census questionnaire in CD:*

WB_Census_Monga_R1.DOC

Household Survey

The household survey collected detailed information on household demographics, education, health, employment, farm and non-farm activities, credit, migration, risk coping mechanisms, etc. Household questionnaire has been administered to each household selected for the survey. The household head, main respondent, was interviewed to complete the household questionnaire. In specific module there are multiple respondent. For an example while interviewing food consumption module, the quantity consumed is answered by the main female while the price of the item was answered by the main male member of the household. *See detail variable and value list in the attached household questionnaires in CD:*

WB_Household_Monga_R1_Var.DOC

WB_Household_Monga_R2_Var.DOC

WB_Household_Monga_R3_Var.DOC

Community Survey

The community questionnaire used to identify community level characteristics that are important to economic welfare. Community questionnaire has been administered to various community leaders such as the large farmer, the principal of a school, local elites. A community questionnaire has been completed in each village in which a household is selected for the survey. *See detail variable and value list in the attached community questionnaires in CD:*

WB_Community_Monga_R1_Var.DOC

WB_Community_Monga_R2_Var.DOC

WB_Community_Monga_R2_Var.DOC

Survey Methodology and Field Operation

For First Round Survey

The field survey was carried out by ten teams, each consisting of six enumerators and a supervisor. Each of the ten teams was responsible to administer the survey in thirteen (13) villages/PSUs or in twelve (12) villages/PSUs as assigned by the survey manager. This means a team of 7 members administered census in about 13 communities; conduct a detailed household survey on about 240 households; and administer community surveys in respective villages/PSUs.

Six enumerators of a seven member team carried out the household census in the village/PSU on the first day of survey and the field supervisor conducted the community survey on the first day. In the evening once the census is completed an on-site household sampling technique is used and 19 sample households selected. On second day of the survey in the same village/PSU, six enumerators conducted the household survey and each of the enumerators completed three households a day. Thus 18 of 19 sampled households were completed by the enumerators of the 7 member team and the rest one household was surveyed by the field supervisor. In this way one village or PSUs was completed by 2 days by a 7 members' team. Thus a team took 26 working days to complete 13 villages/PSUs that the team is responsible for. Each team worked 6 days a week, means in addition to the required 26 working days to complete the survey there was 4 weekly holidays and 2 long travel days for travel to and from survey sites and 3 days for shifting from one area to another area. Including all days in field, it required a total of 35 days for survey administration other than office days required to training, pre-test, arranging survey supplies logistics, printing questionnaires etc. Two month time was considered as contract period for the field surveyors.

Calculation of field days and contract period for surveyors for this round of the survey

Sample size	# PSU	# Teams	PSU/ Teams	Survey days/team	Long Travel	Moving from one site to another	holidays	Total field days	Office days	Total contract days for field officers
2375	125	10	13	26	2	3	4	35	21	60

Figures may not add to totals due to rounding

For Follow-up Surveys

For follow-up 2 rounds of survey the same field operation procedure were followed and ten survey teams were deployed, only exception is there was no census hence no on-site sampling procedure is adopted. Consequently, duration of data collection days was reduced.

Again, six enumerators of a seven member team conducted the household survey and each of the enumerators completed three households a day. Thus 18 of 19 sampled households completed by the 6 enumerators of the 7 members' team and the rest one household and the community survey were administered by the field supervisor. In this way one village or PSUs was completed by 1 day by a 7 members' team. Thus a team required 13 working days to complete 13 villages/PSUs that the team is responsible for. Each team required 2 long travel days for travel to and from survey sites and about 5 shifting days while moving from one upazila to another. Each team worked 6 days a week; means in addition to the required 20 working days to complete the survey there will be 3 weekly holidays and 1 and pre-test day. Considering all days in field, it required a total of 25 days for survey administration other than office days required to training, pre-test, arranging survey supplies logistics, printing questionnaires etc. Forty days time is considered as contract period for the field surveyors.

Calculation of field days and contract period for surveyors for this round of the survey

Sample size	# PSU	# Teams	PSU/ Teams	Survey days/team	Long Travel	Moving from one site to another	holidays	Total field days	Office days	Total contract days for field officers
2375	125	10	13	13	2	5	4	25	15	40

Figures may not add to totals due to rounding

Data collection method

A quantitative survey was conducted in the sampled areas using separate sets of pre-coded structured survey instruments for household census, household survey, and community level survey.

Quality Control and Survey Supervision (Field, Head-Office, Data Entry)

Throughout the data collection, quality control was the special concern. There was a supervisor responsible for each of the ten teams to oversee day-to-day data collection process. Field supervisors checked interviewing methods, reviewed questionnaires for problems, and dealt with logistical problems on a daily basis. Supervisors also practiced Lot Quality Assessment Technique. A lot of (about 5%) questionnaires was drawn randomly from a pile of filled-in questionnaires and rechecked with the interviewee to maintain the interview quality during the survey. At the end of each day, supervisors and enumerators sat together to discuss and correct any problems arising in the field. Each enumerator first checked his/her survey before handing the questionnaire to the field supervisor, who then reviewed the data entries again before passing it for data entry into computer.

Team Leader and Survey Manager also visited survey sites without any prior notice to oversee the survey. If any inconsistency found necessary measures was taken to correct, and if needed respective enumerator revisited the household to rectify the errors during data collection.

Questionnaire Registration

Each questionnaire was uniquely identified and carried the same household identification number from the first round survey so that follow up surveys could be linked easily with first round survey. The questionnaire contained information on location, including name of District, Upazila, Union; and household identification number.

Office Editing

At the data entry centre an additional check was performed before data entry to ensure all the locating variables and identification variables are entered correctly in the hardcopies of the survey. This ensured that forms are filled in correctly, and allowed linking between first round and follow up rounds survey.

Data Entry and Cleaning

Collected data was then entered into computer by using the customized MS Access data input software developed by DATA. Once data entry is completed, two different techniques were employed to check consistency and validity of data as follows:

1. Five (5%) percent of the filled-in questionnaire was checked against entered data to measure the transmission error or typos, and;
2. A logical consistency checking technique was employed to identify inconsistencies using SPSS and or STATA software. If still any inconsistencies or discrepancies found it was flagged and explained in the database and if possible was corrected in next round of survey.

Survey Locations and Number of Surveyed Households

Survey started with 2375 households from 125 PSUs in north-western region of Bangladesh. As said in earlier sections the survey has households belonging to the Monga-prone greater Rangpur districts (Kurigram, Gaibandha, Lalmonirhat, Nilphamari, Rangpur) with the sampling frame being representative of the diversity of the region.

Survey Locations

The World Bank provided the list of sample survey PSUs by locations by District, Upazila, Union and Mouza. A list of detailed survey location of all 125 PSUs is presented below:

Survey Locations

District	Upazila	Union	Mouza	Agro-ecologic al Zone	HHs in MZA	Sample HH
Bogra	Bogra Sadar	Aria	Aria	4	984	19
Bogra	Bogra Sadar	Lahiri Para	Madhu Majhira	3	409	19
Bogra	Bogra Sadar	Nishindara	Barbakpur	3	3170	19
Bogra	Bogra Sadar	Rajapur	Kuturbari	4	560	19
Bogra	Bogra Sadar	Shabgram	Narali	3	1856	19
Bogra	Dhunat	Chaukibari	Rudrabaria	4	476	19
Bogra	Dhunat	Dhunat	Dhunat	4	3998	19
Bogra	Dhunat	Gosainbari	Gosainbari	4	1855	19
Bogra	Dhunat	Mathurapur	Ujalsingh	4	153	19
Bogra	Gabwali	Dakshinpara Union	Ujgram	4	1085	19
Bogra	Gabwali	Kagail	Amli Chukai	4	257	19
Bogra	Gabwali	Naruamala	Mendipur	4	341	19
Bogra	Gabwali	Rameshwarpur	Hossainpur	4	576	19
Bogra	Sariakandi	Chaluabari	Char Manikdar	7	731	19
Bogra	Sariakandi	Chandan Baisha	Chandan Baisha	4	2857	19
Bogra	Sariakandi	Hat Sherpur	Khord Balali	7	839	19
Bogra	Sariakandi	Kazla	Pakuria	7	461	19
Bogra	Sariakandi	Karnibari	Chhanpacha	7	1428	19
Bogra	Sariakandi	Kutubpur	Debdanga	4	1536	19
Bogra	Sherpur	Garidaha	Gilabari	4	197	19
Bogra	Sherpur	Khanpur	Gopalpur	4	1984	19
Bogra	Shibganj	Deuli	Lakshmikola	3	1445	19
Bogra	Shibganj	Maidanhata	Baksan	3	775	19
Bogra	Shibganj	Mokamtala	Harirampur	3	970	19
Bogra	Shibganj	Roynagar	Roynagar	3	709	19
Bogra	Shibganj	Shibganj	Dhawagir	3	1063	19

District	Upazila	Union	Mouza	Agro-ecologic al Zone	HHs in MZA	Sample HH
Bogra	Sonatola	Balua	Barabalua	4	417	19
Bogra	Sonatola	Jorgachha	Purba Karamja	4	152	19
Bogra	Sonatola	Madhupur Tekani	Paschim Tekani	7	699	19
Bogra	Sonatola	Chukainagar	Purba Tekani	7	1223	19
Gaibandha	Fulchhari	Fazlupur	Kauabada	7	162	19
Gaibandha	Fulchhari	Gazaria	Gazaria	7	1333	19
Gaibandha	Fulchhari	Udakhali	Burail	3	1091	19
Gaibandha	Gaibandha Sadar	Boali	Pearapur	3	860	19
Gaibandha	Gaibandha Sadar	Kamarjani	Karaibari	7	335	19
Gaibandha	Gaibandha Sadar	Kuptala	Chapadaha	3	913	19
Gaibandha	Gaibandha Sadar	Ramchandrapur	Pollakhata	3	172	19
Gaibandha	Gobindaganj	Harirampur	Dhundia	3	561	19
Gaibandha	Gobindaganj	Mahimaganj	Jibanpur	3	442	19
Gaibandha	Gobindaganj	Shalmara	Shalmara	3	931	19
Gaibandha	Palashbari	Barisal	Sarbanga Bhaduria	3	157	19
Gaibandha	Palashbari	Mohadipur	Durgapur	3	932	19
Gaibandha	Palashbari	Palashbari	Suigram	3	371	19
Gaibandha	Sadullapur	Faridpur	Faridpur	3	1038	19
Gaibandha	Sadullapur	Kamar Para	Hatbamni	3	1614	19
Gaibandha	Saghatta	Bhartkhali	Sakoa	7	337	19
Gaibandha	Saghatta	Bonar Para	Shimultari (Uz.H.Q.)	3	1709	19
Gaibandha	Saghatta	Jummerbari	Amdir Para	7	706	19
Gaibandha	Saghatta	Padumsahar	Chalk Datia	3	1206	19
Gaibandha	Saghatta	Shaghata	Hasilkandi	7	1045	19
Gaibandha	Sundarganj	Chandipur	Chandipur	3	2194	19
Gaibandha	Sundarganj	Dahabanda	Sundarganj Panchgachhi	3	969	19
Gaibandha	Sundarganj	Shantiram	Shantiram	3	1550	19
Gaibandha	Sundarganj	Sreepur	Dakshin Sreepur	3	1910	19
Kurigram	Bhurungamari	Andhari Jhar	Dhaurar Kuthi	2	1013	19
Kurigram	Bhurungamari	Boldia	Dakshin Baldia	3	867	19
Kurigram	Bhurungamari	Shilkhuri	Uttar Chhat Gopalpur	3	652	19
Kurigram	Char Rajibpur	Char Rajibpur	Baliamari	7	1331	19
Kurigram	Char Rajibpur	Kodailkati	Sajai	7	1343	19
Kurigram	Chilmari	Ashtamir Char	Datiar Char	7	525	19
Kurigram	Chilmari	Raniganj	Dakshin Uari	7	967	19
Kurigram	Phulbari	Bara Bhita	Baralai	3	1604	19
Kurigram	Phulbari	Kashipur	Kashipur	3	1365	19
Kurigram	Kurigram Sadar	Ghogadaha	Rasulpur	3	657	19
Kurigram	Kurigram Sadar	Jatrapur	Parbatipur	7	332	19
Kurigram	Nageshwari	Bhitarband	Chandipur	3	884	19
Kurigram	Nageshwari	Narayanpur	Uttar Dhakdahar	7	376	19
Kurigram	Nageshwari	Royganj	Royganj	2	1659	19
Kurigram	Nageshwari	Ramkhana	Azmata	3	1040	19
Kurigram	Rajarhat	Chhinai	Mirerbari	3	990	19
Kurigram	Rajarhat	Omar Majid	Ghumaru Bhimsitla	3	677	19
Kurigram	Raumari	Bandaber	Char Saulmari	7	1226	19

District	Upazila	Union	Mouza	Agro-ecologic al Zone	HHs in MZA	Sample HH
Kurigram	Raumari	Dantbhanga	Jhagrar Char	7	1705	19
Kurigram	Raumari	Jadur Char	Jadur Char	7	2271	19
Kurigram	Raumari	Raumari	Chuliar Char	7	2402	19
Kurigram	Raumari	Saulmari	Bausmari	7	454	19
Kurigram	Ulipur	Durgapur	Gopinathpur	3	436	19
Kurigram	Ulipur	Pandul	Apuarkhata	3	1731	19
Kurigram	Ulipur	Saheber Alga	Namajer Char	7	878	19
Kurigram	Ulipur	Thetroy	Hokadanga	2	1499	19
Lalmonirhat	Aditmari	Bhelabari	Taluk Dulali	3	1566	19
Lalmonirhat	Aditmari	Palashi	Mahisheshwar	3	803	19
Lalmonirhat	Hatibandha	Barakhata	Purba Fakir Para	3	956	19
Lalmonirhat	Hatibandha	Shingimari	Dhubni	3	1234	19
Lalmonirhat	Kaliganj	Chandrapur	Uttar Batris Hazari	3	1017	19
Lalmonirhat	Kaliganj	Madati	Taluk Sakhati	3	767	19
Lalmonirhat	Lalmonirhat Sadar	Harati	Hira Manik	3	818	19
Lalmonirhat	Lalmonirhat Sadar	Mahendranagar	Manoram	3	315	19
Lalmonirhat	Patgram	Jagatber	Bhandardaha	3	754	19
Lalmonirhat	Patgram	Sreerampur	Burimari	3	981	19
Nilphamari	Dimla	Dimla	Sardarhat	3	640	19
Nilphamari	Dimla	Jhunagachh	Dakshin Jhunagachh			
Nilphamari	Dimla	Chapani	Chapan	2	1380	19
Nilphamari	Domar	Bhogdabari	Chilahati	3	1616	19
Nilphamari	Domar	Harinchara	Salmara	3	310	19
Nilphamari	Jaldhaka	Balagram	Purba Balagram	3	2049	19
Nilphamari	Jaldhaka	Kaimari	Kaimari	3	2913	19
Nilphamari	Jaldhaka	Shimulbari	Ghugumari	3	527	19
Nilphamari	Jaldhaka	Saulmari	Gopaljhar	2	850	19
Nilphamari	Kishoreganj	Garagram	Khamar Garagram	3	980	19
Nilphamari	Kishoreganj	Nitai	Musrut Panial Pukur	3	1025	19
Nilphamari	Nilphamari Sadar	Chapra				
Nilphamari	Nilphamari Sadar	Saramjani	Natib Chapra	3	905	19
Nilphamari	Nilphamari Sadar	Itakhola	Kanialkhata	3	1599	19
Nilphamari	Nilphamari Sadar	Palashbari	Arazi Itakhola	3	312	19
Nilphamari	Nilphamari Sadar	Tupamari	Daud	3	341	19
Nilphamari	Saidpur	Khata Madhupur	Musarat Dhulia	3	863	19
Rangpur	Badarganj	Kutubpur	Dakshin Bauchandi	3	1092	19
Rangpur	Badarganj	Radhanagar	Radhanagar	3	1452	19
Rangpur	Gangachara	Betgari	Sherpur Kismat	3	589	19
Rangpur	Gangachara	Marania	Char Marania	2	783	19
Rangpur	Kaunia	Kursha	Bishnupur	3	294	19
Rangpur	Kaunia	Tepa Madhupur	Rajib	2	2182	19
Rangpur	Rangpur Sadar	Darshana	Sekh Para	3	420	19
Rangpur	Rangpur Sadar	Pashuram	Pashuram	3	801	19
Rangpur	Rangpur Sadar	Tamphat	Arazi Mankhamar	3	233	19
Rangpur	Rangpur Sadar	Uttam	Ranachandi	3	712	19
Rangpur	Mitha Pukur	Bhangni	Betgara	3	278	19
Rangpur	Mitha Pukur	Emadpur	Mrizapur Digar	3	1235	19
Rangpur	Mitha Pukur	Milanpur	Milanpur	3	501	19

District	Upazila	Union	Mouza	Agro-ecological Zone	HHs in MZA	Sample HH
Rangpur	Mitha Pukur	Rani Pukur	Tajnagar	3	321	19
Rangpur	Pirgachha	Kaikuri	Nazar Mahammad	3	750	19
Rangpur	Pirgachha	Parul	Parul Taluk	3	177	19
Rangpur	Pirgachha	Tambulpur	Tambulpur	3	1918	19
Rangpur	Pirganj	Mithapur	Hasanpur	3	1088	19
Rangpur	Pirganj	Shanerhat	Dhollakandi	3	456	19
Rangpur	Taraganj	Hariarkuti	Ujial	3	1225	19

Number of administrative units visited to obtain 2,375 households

# Districts	# Upazilas	# Unions	# Mouzas	# villages	# households surveyed
6	42	125	125	125	2,375

Number of Surveyed Households by Rounds of Survey

Description	Round 1	Round 2	Round 3
Total sampled HH	2,375	2,375	2,375
Successfully interviewed HH	2,375	2,348	2,338
Could not be interviewed as HH Migrated	-	21	27
Temporarily migrated HH	-	-	10
HH absent/visiting relatives during survey	-	-	2
One member HH and member died	-	1	1
Refused to giving interview	-	10	11
Total HH visited	2,375	2,380	2,389
Why # HH is 2,380 in round 2 and 2,389 in round3 while sampled # HH is 2,375?			
Because:	Household split (division of HHs) and tracked	-	5
			14
Original sampled household	2,375	2,375	2,375

Data files for Soft Data

Here is a list of sections/modules administered in different rounds of surveys with data file names:

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
Household Part											
1		Identification	yes	yes	yes	HH_Identity	HH_ID	ফটো			
2		household composition	yes	yes	yes	Sec_1A	HH_Sec1A	মেজি			PART A: মেজি পলম্পসিএলি অর্থাৎ হু লি
3		housing information	yes	yes	yes	Sec_2	HH_Sec2	নব্ব্ব			
4		health information	yes	yes	yes	Sec_3	HH_Sec3	উর্			মেজি পলম্পসিএলি অর্থাৎ
5		access to infrastructure and other facilities	yes	no	no	Sec_4		ফটো			
6	Section 5: Economic activities and Daily wages	A:- labor status, activities	yes	yes	yes	Sec_5A	HH_Sec5A	অর্থাৎ			5 হুপলি হুজি অর্থাৎ মেজি পলম্পসিএলি অর্থাৎ
7		B:- economic activities, daily wages and salaried job information	yes	yes	yes	Sec_5B	HH_Sec5B	অর্থাৎ			

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
8		C:- job search	yes	yes	yes	Sec_5C	HH_Sec5C				5 hpl Hwajl Acl hupl Mejl pLmpcpEl ajnlj ee Hw abEes
9		D: Employment opportunity in export oriented industries	no	yes	no		HH_Sec5D		D x l cje Scl mLm Lj Meju LjSl phN pCcl f DA		@ pLmMeju 15- 25 hRl hupl pcpEBR Cplm Mejl SeEf DSE
10	Section 6: Agriculture related information	information on homestead and other own land	yes	yes	yes	Sec_6A	HH_Sec6A	Lp choul f DA	A. hpacl VJ Acl EES ü Scl pCcl abE		pLmMejl SeEf D k;SE
11		lease in, share in, rent in land information	yes	yes	yes	Sec_6B	HH_Sec6B		B. nS, i jsi, hál J hNluj Scl pCcl abE		pLmMejl SeEf D k;SE
12		crop	yes	yes	yes	Sec_6C	HH_Sec6C		C. gpm		j 2008 GLBS f kN @ ph gpm mNure HwHM f kN Qje gpmLj- Vee hj Q @ mee Cplmgpnl ph. ml abEBea qh

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
13		other cost for farming	yes	yes	yes	Sec_6D	HH_Sec6D		D. AcfÉ Qohc MQ		j 2008 Hl f1 6- L BS f kÑ
14		harvesting	yes	yes	yes	Sec_6E	HH_Sec6E		E. gpm L M		Qj j J BEn)xQ 2008 6L BS f kÑ pLmgpm Evf jce Li j quR a j l a bÉez HMe öf jce S Qoide AbÑ eS1 Sg - a eS Qo h j hÑ j s j/håL 6uj Sg a eS Qo Li gpmEvf jce Li m gpm l a bÉB phz hÑ j s j/håL 6uj Sg 6L f j gpm B ph e j
15		livestock and poultry	yes	yes	yes	Sec_6F1	HH_Sec6F1	gpm hå å Lø L;S pÇ LÑ f DÅ	F1. Njçf ö Hwop- j HNEÇ LÑ a f DÅ		[Nå 12 j jp] (pLm Mç j SeÉf QŞÉ)
16		biprodukt of livestock and poultry	yes	yes	yes	Sec_6F2	HH_Sec6F2		F2. Njçf ö Hwop- j HNEÇ LÑ f eÉ		[Nå 12 j jp] (pLm Mç j SeÉf QŞÉ)
17		fish farm and fishing	yes	yes	yes	Sec_6F3	HH_Sec6F3		F3. j jR M j l Hw j j Rd j		[Nå 12 j jp] (pLm Mç j SeÉf QŞÉ)
18		forestry	yes	yes	yes	Sec_6F4	HH_Sec6F4		F4. heS		

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
									Mj i		
19		other cost for livestock, poultry, fish farming & fishing and forestry	yes	yes	yes	Sec_6F5	HH_Sec6F5		F5. Nj c f ö-f j c j v p G, j j Rd i, heS Mj i H E L i e Hw f c Qre p c L Ñ Ae f e M Q		
20		non-agricultural enterprise and self employment	yes	yes	yes	Sec_7	HH_Sec7		L p h c p i O r u Sa f n/ h e p / E c h N p c L Ñ f D A		(p L m M e j l S e É f D S É)
21	Section 8: Loan and savings	membership in credit/savings institutes	yes	yes	yes	Sec_8A1	HH_Sec8A1	GZ Hw p' u	a.1 Gz c e L i l f h i p' u S j i l i l f f D a u j e l p c p É p c L Ñ a b É		
22		loan information	yes	yes	yes	Sec_8A23	HH_Sec8A23		A.3 Na 12 j p G Z S e É B h c e, GZ N e H w		

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
									aj abÉ		
23		credit history	yes	yes	yes	Sec_8A3	HH_Sec8A3		A.4 CREDIT HISTORY		
24		household level information of section 8A2 and 8A3	yes	yes	yes	Sec_8A4	HH_Sec8A4		A.2 GZ pidi ZabÉ		pCpLmGZ abÉ Bee, @ pLmGZ pø pçñc VLju f çñd Li a çu
25		A. 5 Loan given to others (other than hh member) in last 12 months	no	yes	yes		HH_Sec8A5		A. 5 Na 12 j p Mej pçpÉ Lañ AeÉ (Mej hçj Ø) Ou GZ		
26		savings	yes	yes	yes	Sec_8B	HH_Sec8B		B: p' u		Na 12 j p Bf eil Mej Lañ p' u La VLi, Uè Hhwpeil çil pç La f ðA
27	Section 9: Migration and remittance	migration in to this village	yes	yes	yes	Sec_9A	HH_Sec9A	j j Onéne J I ç Vç	Part A. HCÑÉ Uèj ç a çu Bpj pç ç ñ f ðA		(12 hpl Hhwajl AçL hupl pçpÉ cl SeÉ ðSÉ

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
28		migration for less than one month (only for new hh member)	yes	yes	no	Sec_9B1	HH_Sec9B1		Part B1. মেজমা অফিস উন্নয়ন-1 জিপি লজ পিউ সে		12 hvpl Hwajl AdL hupl pcpÉ cl SeÉ DSE
29		migration for less than one month	no	yes	yes		HH_Sec9B1_1		pLne 9. জি নে (এ প সে সে		Part B1.1 উন্নয়ন-1 জিপি লজ পিউ সে (12 hvpl Hwajl AdL hupl pcpÉ cl SeÉ DSE
30		migration for more than or one month	yes	yes	no	Sec_9B2	HH_Sec9B2		Part B2. মেজমা অফিস উন্নয়ন x1 জিপি হা অ প উ সে		12 hvpl Hwajl AdL hupl pcpÉ cl SeÉ DSE
31		migration for more than or one month (only for new hh member)	no	yes	yes		HH_Sec9B2_1		pLne 9. জি নে (এ প সে সে		Part B2.1. উন্নয়ন - না স স (1 জিপি হা অ প উ সে) [12 hvpl Hwajl AdL hupl pcpÉ cl SeÉ DSE

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
32		information on currently non residents	yes	no	no	Sec_9C					ei ði 2003 pjm �L kj i H C Meju ��je pj u hphjp LI R ��ha Ne hphjp LI Rej ��je ��CpLm pcp�� ab��e
33		remittance in	yes	yes	yes	Sec_9D1	HH_Sec9D1		D. l � V �	D1. l � - V � f �	
34		remittance out	yes	yes	yes	Sec_9D2	HH_Sec9D2		D. l � V �	D2. l � - V � f i V �	
35	Section 10: Shock and risk coping	shock and coping	yes	yes	yes	Sec_10A	HH_Sec10A	�f k�i J �f k�i S�a T� �iL i m	A. Meju �f k�i u O�e Hw aj f ��u		
36		advance sale of labor and crop (dadon)	yes	yes	yes	Sec_10B	HH_Sec10B		B. Meju AN� gpm i n D � �e (p �i 2007 �L H f k�i) (�f k�i �L ne h�a pidj e ��e u)		cice �ph AN� gpm ��u p � �i f �A

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
37		program participation/ social assistance	yes	yes	yes	Sec_10C	HH_Sec10C		C. Lj pC a pC j pC k pC pC f DA		
38		100 days program	yes	yes	no	Sec_10D	HH_Sec10D		PART- D.100 c- el Lj pC Lj pC Avn pC		
39	Section 11: Food consumption	food consumption expenditure	yes	yes	yes	Sec_11A	HH_Sec11a	i pL McÉ pC f DA	A. pL McÉ		oL, eSü Evf jca Hw AefÉEvp f pC pC f pC
40		food security information	yes	yes	yes	Sec_11B	HH_Sec11b		9B. McÉ šj pC f DA		
41		non food expenditure	yes	yes	yes	Sec_11C	HH_Sec11c		C: McÉ hāa AefÉ		
42		Household asset listing	yes	yes	yes	Sec_11D	HH_Sec11d		D: McÉ pC aj pC		
43		agriculture assets	yes	yes	yes	Sec_11E	HH_Sec11e		E: Lp pC pC f DA		

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
44		other assets and income	yes	yes	yes	Sec_12AB	HH_Sec12AB		A: OTHER PROPE RTY AND ASSETS	B: OTHE R INCO ME	
45		vote and shalishi	yes	yes	no	Sec_13	HH_Sec13	i jV pim AmNe pC f BA			
Census Part											
1		Census household Identification	yes	no	no	monga_wb_cen_ID					
2		Census household roster	yes	no	no	monga_wb_cen_roster					
Community Part											
1		Identification	yes	yes		Identity	Identity				
2		Name And Background Information Of The Respondents	yes	yes	yes	Respondent_Info	Respondent_Info				
3	Section 1: Access To Facilities And Infrastructure	A. Basic Facilities	yes	yes	yes	Sec_1_A	Sec_1_A				

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
4		B. Types Of Physical And Social Infrastructure In Village	yes	yes	yes	Sec_1_B	Sec_1_B				
5	Section 2: Education Facilities		yes	yes	yes	Sec_2	Sec_2				For all the services listed below, please provide the distance from the village for those which are not available in the village.
6	Section 3: Ngo Development Programs		yes	yes	yes	Sec_3	Sec_3				Please list the names of NGOs working in this village, the year they first started operating, and indicate whether or not they offer the following programs. Use the blank spaces for names of additional NGOs. For programs, use

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
											1=yes and 2=no.
7	Section 4: Major Income Earning Activities		yes	yes	yes	Sec_4	Sec_4				Rank according to importance of the income earning opportunities
8	Section 5: Agricultural Production		yes	yes	yes	Sec_5_1_4	Sec_5_1_4				

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
9	5. Planting And Harvesting Date From This Aman To Last Boro For Major Crops (Fill In For Other Major Crops, Including Aus)		yes	yes	yes	Sec_5_5	Sec_5_5				
10	Section 6: Prices And Wages	1. Sale Price Received By Farmers During Harvest Season	yes	yes	yes	Sec_6_1	Sec_6_1				
11		2. Local Retail Price Of Following Products (At The Time Of Interview)	yes	yes	yes	Sec_6_2	Sec_6_2				
12		3. Cost Of Farming (Now)	yes	yes	yes	Sec_6_3	Sec_6_3				Note: Record present or immediate past season prices

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
13		4. Average Price Of Cultivable Land, Of Average Quality. And 5. Availability Of Daily Work And Wage Rates Of Hired Labor (At Present)	yes	yes	yes	Sec_6_4_5	Sec_6_4_5				
14		6. Wage Rates Of Hired Labor In Rice Farming	yes	yes	yes	Sec_6_6	Sec_6_6				<i>Put NA when the task is never performed by a given category of workers</i>
15	Section 7: Migration		yes	yes	yes	Sec_7	Sec_7		Migration		
16	Section 8: Natural Resources And Natural Disasters	1. Do People In This Village Use The Following Natural Facilities / Resources?	yes	yes	yes	Sec_8_1	Sec_8_1				

Serial	Block heading	Section heading	Collected in			Data File Name		Bangla block heading	Bangla section heading	Bangla section heading	Notes
			Round 1	Round 2	Round 3	Round 1	Round 2 and 3				
17		2. During The Last 5 Years, Was This Village Affected By The Following Natural Disasters?	yes	yes	yes	Sec_8_2	Sec_8_2				
18	Wage rates of hired labor in rice farming during survey time and October-2008		no	yes	no		Wages_October(Kartik)				
19	Price collects from the local grocery shop		no	yes	yes		Price_grocery				
20	Access to Institutional and other facilities		no	no	yes		Access				

Data Relationships: Key Variables

Round - 1			Round - 2 and 3		
File name	PrimaryKey1	PrimaryKey2	File name	PrimaryKey1	PrimaryKey2
Household survey data files			Household survey data files		
HH_Identity_001	hhid		HH_ID.sav	hhid	
Sec_1A_001	hhid	mid	HH_Sec1A.sav	hhid	mid
Sec_2_001	hhid		HH_Sec2.sav	hhid	
Sec_3_001	hhid	mid	HH_Sec3.sav	hhid	mid
Sec_4_001	hhid		HH_Sec5A.sav	hhid	
Sec_5A_001	hhid	mid	HH_Sec5B.sav	hhid	mid
Sec_5B_001	hhid	mid	HH_Sec5C.sav	hhid	mid
Sec_5C_001	hhid	mid	HH_Sec5D.sav	hhid	mid
Sec_6A_001	hhid		HH_Sec6A.sav	hhid	
Sec_6B_001	hhid		HH_Sec6B.sav	hhid	
Sec_6C_001	hhid		HH_Sec6C.sav	hhid	
Sec_6D_001	hhid		HH_Sec6D.sav	hhid	
Sec_6E_001	hhid		HH_Sec6E.sav	hhid	
Sec_6F1_001	hhid		HH_Sec6F1.sav	hhid	
Sec_6F2_001	hhid		HH_Sec6F2.sav	hhid	
Sec_6F3_001	hhid		HH_Sec6F3.sav	hhid	
Sec_6F4_001	hhid		HH_Sec6F4.sav	hhid	
Sec_6F5_001	hhid		HH_Sec6F5.sav	hhid	
Sec_7_001	hhid	mid	HH_Sec7.sav	hhid	mid
Sec_8A1	hhid	mid	HH_Sec8A1.sav	hhid	mid
Sec_8A23	hhid		HH_Sec8A23.sav	hhid	
Sec_8A3_001	hhid	mid	HH_Sec8A3.sav	hhid	mid
Sec_8A4	hhid		HH_Sec8A4.sav	hhid	
			HH_Sec8A5.sav	hhid	mid
Sec_8B	hhid	mid	HH_Sec8B.sav	hhid	mid
Sec_9A_001	hhid	mid	HH_Sec9A.sav	hhid	mid
Sec_9B1_001	hhid	mid	HH_Sec9B1.sav	hhid	mid

Round - 1			Round - 2 and 3		
File name	PrimaryKey1	PrimaryKey2	File name	PrimaryKey1	PrimaryKey2
Household survey data files			Household survey data files		
Sec_9B2_001	hhid	mid	HH_Sec9B1_1.sav	hhid	mid
			HH_Sec9B2.sav	hhid	mid
			HH_Sec9B2_1.sav	hhid	mid
Sec_9C_001	hhid				
Sec_9D1_001	hhid		HH_Sec9D1.sav	hhid	
Sec_9D2_001	hhid		HH_Sec9D2.sav	hhid	
Sec_10A_001	hhid		HH_Sec10A.sav	hhid	
Sec_10B_001	hhid		HH_Sec10B.sav	hhid	
Sec_10C_001	hhid		HH_Sec10C.sav	hhid	
Sec_10D_001	hhid	mid	HH_Sec10D.sav	hhid	mid
Sec_11A_001	hhid		HH_Sec11a.sav	hhid	
Sec_11B_001	hhid	mid	HH_Sec11b.sav	hhid	mid
Sec_11C_001	hhid		HH_Sec11c.sav	hhid	
Sec_11D_001	hhid		HH_Sec11d.sav	hhid	
Sec_11E_001	hhid		HH_Sec11e.sav	hhid	
Sec_12AB_001	hhid		HH_Sec12AB.sav	hhid	
Sec_13_001	hhid		HH_Sec13.sav	hhid	
Within Census files (if want to merge two part of census files)					
monga_wb_cen_ID_001	slno				
monga_wb_cen_roster_001	slno				
Key variables to merge census ID and household ID file					
monga_wb_cen_ID_001	union code	censusno			
HH_Identity	union code	censusno			