Users' Manual for Handling Resampled Micro Data of Cambodia Socio-Economic Survey (CSES)

CSES 2012

Version 2.0

2019
The Institute of Statistical Mathematics (ISM)
and
Statistical Information Institute for Consulting and Analysis (SINFONICA)

History of revision of the manual

- Second version 2.0 in March 2019
  - Revised based on the discussion during the workshop in December 2018

- First draft version 1.0 in December 2018

CONTENTS

CSES 2012

Appendix:

Chapter 1. About this Manual

1. This manual was prepared for users to use the next 80% resampled micro data sets of Cambodia Socio-Economic Survey 2012.

80% resampled micro data set (38 files)	
In CSV format	
[1] "Households_80.csv"	"HHMembers_80.csv"
[3] "HHFoodConsumption_80.csv"	"HHRecallNonFood_80.csv"
[5] "HHVulnerability_80.csv"	"PersonEducation_80.csv"
[7] "HHHousing_80.csv"	"HHLandOwnership_80.csv"
[9] "HHProductionCrops_80.csv"	"HHCostCultivationCrops_80.csv"
[11] "HHInventoryCrops_80.csv"	"HHSalesCrops_80.csv"
[13] "HHLivestock1_80.csv"	"HHLivestock2_80.csv"
[15] "HHFishCultivation1_80.csv"	"HHFishCultivation2_80.csv"
[17] "HHFishCultivation3_80.csv"	"HHForestryHunting1_80.csv"
[19] "HHForestryHunting2_80.csv"	"HHNonAgriculture1_80.csv"
[21] "HHNonAgriculture2_80.csv"	"HHNonAgriculture3_80.csv"
[23] "HHLiabilities_80.csv"	"HHIncomeOtherSource_80.csv"
[25] "HHConstruction_80.csv"	"HHDurableGoods_80.csv"
[27] "PersonMaternalHealth_80.csv"	"PersonHealthU2_80.csv"
[29] "PersonIllness_80.csv"	"PersonDisability_80.csv"
[31] "PersonEcoCurrent_80.csv"	"PersonviolenceA_80.csv"
[33] "PersonViolenceB_80.csv"	"HHOtherInfo_80.csv"
[35] "PSUListing_80.csv"	"weighthouseholds_80.csv"
[37] "weightpersons_80.csv"	"hhexp_80.csv"
[39] "hhinc_80.csv"	
In R format	
[1] "Households.80"	"HHMembers.80"
[3] "HHFoodConsumption.80"	"HHRecallNonFood.80"
[5] "HHVulnerability.80"	"PersonEducation.80"
[7] "HHHousing.80"	"HHLandOwnership.80"
[9] "HHProductionCrops.80"	"HHCostCultivationCrops.80"
[11] "HHInventoryCrops.80"	"HHSalesCrops.80"
[13] "HHLivestock1.80"	"HHLivestock2.80"

[15] "HHFishCultivation1.80"	"HHFishCultivation2.80"
[17] "HHFishCultivation3.80"	"HHForestryHunting1.80"
[19] "HHForestryHunting2.80"	"HHNonAgriculture1.80"
[21] "HHNonAgriculture2.80"	"HHNonAgriculture3.80"
[23] "HHLiabilities.80"	"HHIncomeOtherSource.80"
[25] "HHConstruction.80"	"HHDurableGoods.80"
[27] "PersonMaternalHealth.80"	"PersonHealthU2.80"
[29] "PersonIllness.80"	"PersonDisability.80"
[31] "PersonEcoCurrent.80"	"PersonviolenceA.80"
[33] "PersonViolenceB.80"	"HHOtherInfo.80"
[35] "PSUListing.80"	"weighthouseholds.80"
[37] "weightpersons.80"	"hhexp.80"
[39] "hhinc.80"	

2. The original micro data sets composed of all the samples of CSES were provided by National Institute of Statistics (NIS), Cambodia in 2015 based on the Charter for Experimental Laboratory for Research Purpose Statistical Use of Micro Data, and resampled at the rate of 80% by Sinfonica.

3. The above resampled data sets are available through the Institute of Statistical Mathematics (ISM) both in CSV and R format.

4. This manual was first compiled in November 2018 by;

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Chapter 2. Outline of CSES 2012

Summary

Objectives of the survey	The main objective of the survey is to collect statistical information about the living conditions of the Cambodian population and the extent of poverty. The survey results can be used for identifying problems and making decisions based on statistical data.
Topics covered by the survey	The next eight topics; · Demographic characteristics · Housing · Agriculture · Education · Labour Force · Health and Nutrition · Victimization · Household Income and Consumption
Frequency of the survey	Annually since2007. CSES 2004 and CSES 2009 were large sample surveys (12,000 households), whereas the years between have small samples (3,600 households for CSES 2010 and 2011, then 3,840 households in CSES 2012).
Survey period	● The annual sample was divided into 12 monthly samples. Data collection was carried out from January 2012 to December 2012. ● For a household, survey period was one month. Recall data on income and expenditure was collected in the household questionnaire. Reference period of food was 7 days. That of non-food was from a month to 12 months depending on items. Also, the diary questionnaire on income and expenditure was requested to record during the survey month.
Coverage of the survey	● Geographically, the survey covered the whole country. Cambodia consisted of 24 provinces. ● Private households with one or more persons, including nomadic households. Institutional households such as long term hospitals, prisons, monasteries, military quarters were excluded.
Sample design	● For CSES 2012 a new CSES survey sample and questionnaire design was implemented. ● Three-stage stratified sample selection Sampling frame: General Population Census 2008 for sampling of

	villages (14,073 villages) ? Strata: province and urban/rural (48 strata) ? Stage 1: A random sample of PSUs was selected from each stratum using systematic PPS. Stage 2: One EA was selected by SRS, in each villege selected in stage 1. Stage 3: In each selected EA a sample of 10 households was selected. Sample size In total 3,840 households ● Response rate Almost a 100 percent response rate.
Weight	● Two kind of weights: household weight and person weight
Data collection method	● Face to face ● In total 50 teams for field work. A team consisted of a supervisor and four enumerators. In urban one enmerator was in charge of 10 household during each month, while in rural two enumerators were responsible for one PSU and for interviewing 20 households.. ● During a survey month, different questions were asked during the first visit and in the following four weeks.
Data entry and data check	● Supervisors from the field delivered questionnaires to NIS. Data editing and coding was implemented in NIS.
Publication and dissemination	● Reports and tables are available at NIS website. Metadata is also available at NADA.

The below describes based on the study description on NADA.

- **Series Information**

The Cambodian Socio-Economic Survey 2012 (CSES) is the eleventh survey collecting data from household and individuals in Cambodia on different areas relating to poverty. The survey is conducted by the National Institute of Statistics (NIS) of the Ministry of Planning (MOP). The first Socio-Economic Survey was conducted in 1994 (CSES 1994). Since then the CSES has been conducted in 1996, 1997, 1999 and 2004. Since 2007 NIS conducts the CSES annually.

The CSES2004 was the fifth survey that was conducted and as a countrywide sample survey of villages and households in Cambodia. CSES2004 was the first survey with a collection of income and receipts, expenditure and consumption of own production in a diary were daily transactions are reported. The sample size in CSES2004 was 1,000 households every month. Since 2007 the Socio-Economic Survey is conducted every year with a sample size of 300 households every month (3,600 household annually). The annual surveys are undertaken as a part of the project, “Capacity Development for Socio-Economic Surveys and Planning” of the Royal Government of Cambodia. This project is supported and financed by Sida (The Swedish International Development Cooperation Agency). In 2009 the CSES was similar to CSES 2004 with a sample size of 1,000 households every month (12,000 households on annual basis).

For 2010 and 2011 the sample size was again brought down to 3,600. CSES 2012 had a slightly bigger sample size of 3,840.

The earlier CSES rounds have all made it possible to report sets of indicators on 8 main areas of social concern

- Demographic characteristics
- Housing
- Agriculture
- Education
- Labour Force
- Health and Nutrition
- Victimization
- Household Income and Consumption

In CSES 2010 some changes have been introduced in the household questionnaire. Most changes were minor except for the questions on current economic activity.

For the CSES 2012 a new CSES survey sample and questionnaire design was implemented.

- **Overview**

The Cambodia Socio-Economic Survey (CSES) asks questions to a country wide sample of households and household members about housing conditions, education, economic activities, household production and income, household level and structure of consumption, health, victimization, etc. There are also questions related to people in the labour force, e.g. labour force participation.

Poverty reduction is a major commitment by the Royal Government of Cambodia. Accurate statistical information about the living standards of the population and the extent of poverty is an essential instrument to assist the Government in diagnosing the problems, in designing effective policies for reducing poverty and in monitoring and evaluating the progress of poverty reduction. The Millennium Development Goals (MDG) has been adopted by the Royal Government of Cambodia and a National Strategic Development Plan (NSDP) has been developed. The MDGs are also incorporated into the “Rectangular Strategy of Cambodia”.

Cambodia is still a predominantly rural and agricultural society. The vast majority of the population get their subsistence in households as self-employed in agriculture. The level of living is determined by the household's command over labour and resources for own-production in terms of land and livestock for agricultural activities, equipments and tools for fishing, forestry and construction activities and income-earning activities in the informal and formal sector. The CSES aims to estimate household income and consumption/expenditure as well as a number of other household and individual characteristics.

The main objective of the survey is to collect statistical information about living conditions of the Cambodian population and the extent of poverty. The survey can be used for identifying problems and making decisions based on statistical data.

The main user is the Royal Government of Cambodia (RGC) as the survey supports monitoring the National Strategic Development Plan (NSDP) by different socio-economic indicators. Other users are university researchers, analysts, international organizations e.g. the World Bank and NGO’s. The World Bank has published a report on poverty profile and social indicators using CSES 2007 data . In this regard, the CSES continues to serve all stakeholders involved as essential instruments in order

to assist in diagnosing the problems and designing their most effective policies. The CSES micro data at NIS is available for research and analysis by external researchers after approval by Senior Minister of Planning. The interesting research questions that could be put to the data are many; NIS welcomes new research based on CSES data.

- **Objectives**

General Objectives:

CSES 2012 will continue the work started through CSES 2004 and the annual CSES 2007 and 2008 and would primarily aim at producing information needed for planning and policy making for reduction of poverty in Cambodia. Reduction of poverty has been given high priority in Cambodia's National Strategic Development Plan (NSDP 2009-2013). In addition to this, the survey data help in various other ways in developmental planning and policy making in the country. They would also prove useful for the production of National Accounts in Cambodia.

A long-term objective of the entire project is to build national capability in NIS for conducting socio-economic surveys and for utilizing survey data for planning for national development and social welfare.

Specific Objectives:

Among specific objectives, the following deserve special mention:

1) Obtain data on infrastructural facilities in villages, especially facilities for schooling and health care and associated problems.
2) Obtain data on retail prices of selected food, non-food and medicine items prevailing in the villages.
3) Collect data on utilization of education, housing and land ownership
4) Collect data on household assets and outstanding loans.
5) Collect data on household's construction activities.
6) Collect information on maternal health, child health/care.
7) Collect information on health care seeking and expenditure of the household members related to illness, injury and disability.
8) Collect information on economic activities including the economic activities for children aged between 5 and 17 years.
9) Collect information on victimization by the household
10) Collect information on the presence of the household members.

- **Scope**

Briefly the CSES rounds have all made it possible to report sets of indicators on 8 main areas of social concern:

1. Demographic characteristics
2. Housing
3. Agriculture
4. Education
5. Labour Force
6. Health and Nutrition
7. Victimization
8. Household Income and Consumption

- **Sampling**

Sampling Procedure:

The sampling design in the CSES 2012 survey is a three-stage design. In stage one a sample of villages is selected, in stage two an Enumeration Area (EA) is selected from each village selected in stage one, and in stage three a sample of households is selected from each EA selected in stage two.

Stage 1: A random sample of PSUs was selected from each stratum. The sampling method was systematic PPS (PPS=sampling with probability proportional to size). The size measure used was the number of households in the PSU according to the sampling frame.

Stage 2. One EA was selected by Simple Random Sampling (SRS), in each village selected in stage 1.

Stage 3. In each selected EA a sample of 10 households was selected. The selection of households was done in the field by the supervisors/interviewers. All households in selected EAs were listed by the enumerator. The sample of households was then selected from the list by systematic sampling with a random start (the start value controlled by NIS).

- **Response Rate**

The CSES 2012 enjoyed almost a 100 percent response rate. The high response rate together with close and systematic fieldwork supervision by the core group members were a major contribution for achieving high quality survey results.

- **Weighting**

Sampling weights were computed for every stage. First stage weights (W1) were assigned to selected villages. With the PPS procedure employed villages were selected with different probabilities. Large villages are over-represented in the sample and, small villages are under-represented. In the calculattion of results (estimates) from the sample it must be ensured that there is compensate for this misrepresentation. The way to do that is to assign sampling weights to the selected villages (PSUs). The over-represented large villages should be down-weighted and the under-represented small villages should be up-weighted.

The second stage sampling weights W2 are calculated as the number of households in the village (according to the chairman) over the number of sampled households (10).

The household sampling weights (Wprel) are calculated by multiplying W1 by W2. All the sampled households in the village get the same household weight. These weights were then calibrated.

- Data Collection

Data Collection Dates:

From 1 January 2012 to 29 December 2012

Data Collection Mode:

Face-to-face

Data Collection Notes:

For the CSES 2012 a new CSES survey sample and questionnaire design was implemented. The data collection and field work have therefore been monitored closely. especially in the beginning of the year. The changes caused only minor problems in the data collection. The fieldwork operations and logistics have been running very well. A training on sub-national level for all supervisors and enumerators was held in the beginning of the year. The training was paid for by local cost. Now NIS has its own capacity to carry out the out the data collection process, but is financially supported diretly by Sida. The L T As have participated in a few fieldtrips to learn more about the data collection and to check whether the work is carried out as planned. The Subject Matter Staff (SMS) have also participated more in the field work than previous years. As a result, the enumerators' undrstanding of the questions has improved and at the same time tha SMS has received information about possible questionnaire improvements. All these activities will lead to better quality in the data collection.

Interviewers and supervisors were initially divided into teams of five persons (one supervisor and four interviewers), making in total 50 teams for the fieldwork. Each month, 25 teams were working

in the field with a workload of 10 households per interviewer. In urban areas, 4 PSUs were allocated to one team while in rural areas, 2 PSUs were allocated. The fieldwork plan was designed in order to gather around 60 households monthly per team.
For a given month, the team arrived in the village three days before the first day of the month to tend to preparatory tasks like discussing with village authorities, filling out the Household Listing Form, and thereafter sample those households to be interviewed.

The Village Form was filled out by the supervisor.
The Household Questionnaire had 16 sections that were filled out by the interviewer during the first visit to the household, and in the following four weeks according to the following scheme:
FIRST VISIT: Initial visit
WEEK 1: Education and literacy, Housing
WEEK 2: Household economic activities, Household liabilities, Household income from other sources, and other expenditures (partial non-food recall)
WEEK 3: Durable goods and other expenses, Construction activities in the past 12 months, Nutrition, Fertility and child care, Mortality
WEEK 4: Health check of children, Current economic activity, Health, HIV/AIDS, Victimization

Once the month ended, the team went back to the NIS headquarters in Phnom Penh.
Questionnaires from the same PSU was delivered to the Data Management team by the supervisor in a packet including all of the documents used and produced in the fieldwork, including maps, enumeration lists, questionnaires, diaries, etc. Before going to the villages, teams were briefed and introduced to minor adjustments of the interviewing procedure that had to be made as a result of monitoring activities and feed-back from the data processing.

The fieldwork started in Janury 2010 and was scheduled to end in December 2010.
Fifty (50) supervisors and 200 enumerators were recruited by NIS and trained for the fieldwork. The training took place in Phnom Penh and lasted three weeks for supervisors and two weeks for enumerators. Before the start of each fieldwork month, there were briefing and retraining sessions. Each fieldwork team included one supervisor and four enumerators. In urban areas one enumerator was responsible for one PSU and for interviewing 10 households, while in rural areas two enumerators were responsible for one PSU and for interviewing 20 households. In all, 125 enumerators and supervisors, divided into 25 teams, were carrying out the fieldwork at the same time. Two such team groups were formed and each team group alternated monthly.

Enumerator and Supervisor training:

Initial training was provided during nine days for a group of 20-30 staff (not all were attending all the time). This training included a translation into Khmer of selected parts of the questionnaire, and a field test in a village outside Phnom Penh where the participants performed test interviews in 16 households. The experiences from this exercise were followed up during the course. The course also included general aspects on survey methodology and ways of controlling for errors. Many of the findings from this training served as input to later stages.

Prior to the start of the fieldwork intensive interviewer and supervisor training was carried out. The 200 interviewers and 50 supervisors recruited were split into two groups, each consisting of 100 interviewers and 25 supervisors. The two groups later alternated so that the first group did their fieldwork during odd survey months (i.e. November, January, March …) while the second group covered the even survey months (i.e. February, April …).

The training was designed with this in mind. Training of the first group was provided in English by a WB consultant and simultaneously interpreted in Khmer by the appointed NIS officer. The second group was trained by NIS only.

Common was that the supervisors were first trained during one week, and then jointly with their interviewers for two weeks. Before all fieldwork months the group in turn was gathered at the NIS to walk through the questionnaire and manuals in order to correct errors that were detected during the briefing sessions or the monitoring operations, and to learn how to handle any changes that were introduced to the survey instruments.

- Questionnaires

Three different questionnaires or forms were used in the survey:

Form 1: Household listing sheets to be used in the sampling procedure in the enumeration areas.

Form 2: Village questionnaire answered by the village leader about economy and infrastructure, crop production, health, education, retail prices and sales prices of agriculture, employment and wages, and recruitment of children for work outside the village.

Form 3: Household questionnaire with questions for each household member, including modules on migration, education and literacy, housing conditions, crop production, household liabilities, durable goods, construction activities, nutrition, fertility and child care, child feeding and vaccination, health of children, mortality, current economic activity, health and illness, smoking, HIV/AIDS awareness, and victimization.

The interviewer is responsible for filling up Form 1 and Form 3 to respondents. . For Form 2, the supervisors will be asked to canvass this form. In case that the supervisors are absent for any reason, the interviewers may be also asked to help fill up this form (Form 2).

Supervision:

Any survey of the CSES dimensions needs a comprehensive system for quality management and monitoring. Only then can deviations from the target be tended to in time to avoid shortfalls. Interviewers and supervisors were initially divided into teams of five persons (one supervisor and four interviewers), making in total 50 teams for the fieldwork.

The CSES management group within NIS therefore set up a meticulous monitoring scheme to be implemented from the very beginning. The monitoring team did include at least five NIS staff. Commonly the DG of NIS has spent one week monthly while other top ranked NIS officers have been out for two weeks on average. At times other officials from NIS or the Ministry have participated.

Inspections entailed both announced and unannounced visits. Every team was visited at least twice during their fieldwork periods. The pur-poses of these visits were several. One important purpose was to get a disciplinary effect on supervisors and enumerators from their knowledge that such inspections must be ex-pected throughout the fieldwork month, including also at the very end of the diary month. Also important was to give feedback and encouragement to fieldworkers and to complement training by advice and suggestions and to sort out any problem that had arisen in the course of fieldwork in the village. Another area of concern was to ensure that the household listing and sampling was done in accordance with the procedures that were devised.

In general, a supervisor is assigned to supervise several enumerators during the field operations. The major duties and responsibilities of a supervisor in relation to your work as enumerator are the following:

1. Your supervisor is responsible for ensuring that all the enumerators under him/her do the listing and enumeration work satisfactorily in time. He/she plans and organises the work in his/her area of supervision and sees to it that everything is conducted efficiently and completely.
2. Your supervisor is required to check your work as enumeration proceeds to make sure that you have done your work correctly and have followed the standard procedures laid down by the NIS. He will check all the questionnaires filled by you. You must show and submit your work to him/her and report to him/her the progress of your work and avoid committing the same errors again.
3. As part of his/her supervisory functions, your supervisor will visit the enumeration area assigned to you to check that you have completely covered your area in the listing operation. He may observe you when you are interviewing some respondents. He/she will also re-interview some of the households you have interviewed to check whether the information you have obtained are valid.
4. The supervisor may provide to you all necessary field supplies and questionnaires etc. As soon as you complete the enumeration, you must return all unused supplies and materials to him/her. Otherwise, you will not be given clearance to collect your final service fee payment at the end of your work.

The supervisor serves as a link between you and higher officials of the NIS. Just as he/she informs you of the instructions from NIS officials, you must inform him/her of any problem or difficulty that you experience. Seek his/her advice on how to deal with problems in the field as often as needed. He may help you establish contact with village leaders, commune leaders, and other representatives of the village.

Chapter 3. Data and metadata provided

- CSES 2012 micro data sets were provided to Sinfonica in March 2015 by NIS.

Data set provided

◆ Household data in STATA format

File names in STATA format (37 files)	
[1] "HHConstruction.dta"	"HHCostCultivationCrops.dta"
[3] "HHDurableGoods.dta"	"HHFishCultivation1.dta"
[5] "HHFishCultivation2.dta"	"HHFishCultivation3.dta"
[7] "HHFoodConsumption.dta"	"HHForestryHunting1.dta"
[9] "HHForestryHunting2.dta"	"HHHousing.dta"
[11] "HHIncomeOtherSource.dta"	"HHInventoryCrops.dta"
[13] "HHLandOwnership.dta"	"HHLiabilities.dta"
[15] "HHLivestock1.dta"	"HHLivestock2.dta"
[17] "HHMembers.dta"	"HHNonAgriculture1.dta"
[19] "HHNonAgriculture2.dta"	"HHNonAgriculture3.dta"
[21] "HHOtherInfo.dta"	"HHProductionCrops.dta"
[23] "HHRecallNonFood.dta"	"HHSalesCrops.dta"
[25] "HHVulnerability.dta"	"Households.dta"
[27] "PersonDisability.dta"	"PersonEcoCurrent.dta"
[29] "PersonEducation.dta"	"PersonHealthU2.dta"
[31] "PersonIllness.dta"	"PersonMaternalHealth.dta"
[33] "PersonviolenceA.dta"	"PersonViolenceB.dta"
[35] "PSUListing.dta"	"weighthouseholds.dta"
[37] "weightpersons.dta"	

◆ Metadata

Questionnaire		
	CSES2012 Diary ENG.xls	Diary questionnaire
	CSES2012 Village ENG.xls	Village questionnaire
	CSES2012 HH Questionnaire.xls	Household questionnaire

Survey Report		
	Report CSES2012.pdf	
Manual		
	CSES2012 field manual ENG.pdf	
Data dictionary		
	None	
Code		

(Note) Data dictionary was not provided.

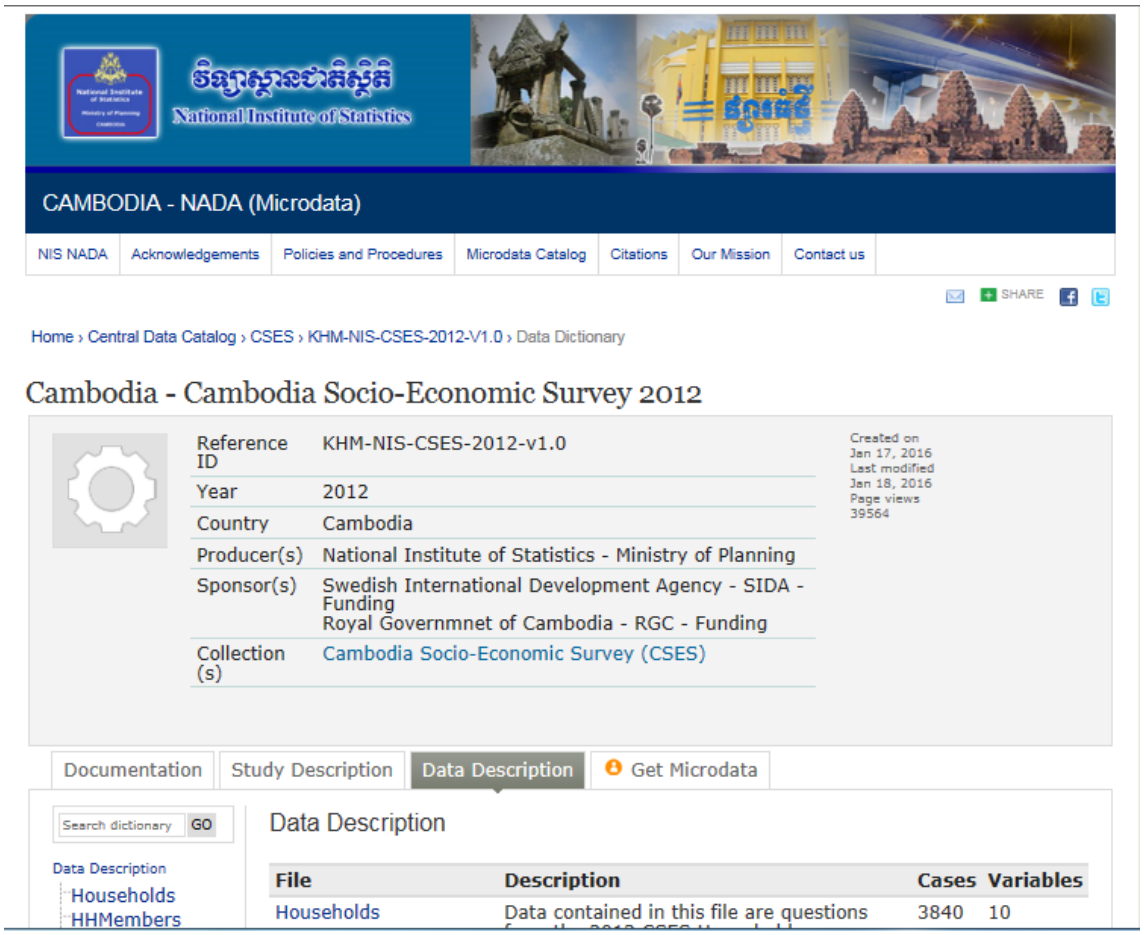
- In addition, summary file of household income, “IncomeHousehold_2012.sav” was provided upon request on the occasion of the workshop in December 2018.
  It will be discussed in Section 7.0.

Other source of metadata

- ILO Microdata Repository
  http://www.ilo.org/surveydata/index.php/catalog/341/related_materials
  (Accessed on 1 May 2018)

Questionnaire form and Field Manual in English are available.

- Cambodia-NADA (Microdata)
  https://nada-nis.gov.kh/index.php/catalog/17/data_dictionary
  (Accessed on 1 May 2018)



Data discription in English is available.

- Homopage of NIS
  https://www.nis.gov.kh/index.php/en/14-cses/12-cambodia-socio-economic-survey-reports
  (Accessed on 1 May 2018)

Survey Reports of CSES are available.

Chapter 4. Data Import

4.1 Import STATA data files into R

- **Imported the following 37 STATA files into R**

```
> infiles<-list.files()
> infiles<-infiles[-27]
> infiles
 [1] "HHConstruction.dta"          "HHCostCultivationCrops.dta"
 [3] "HHDurableGoods.dta"          "HHFishCultivation1.dta"
 [5] "HHFishCultivation2.dta"      "HHFishCultivation3.dta"
 [7] "HHFoodConsumption.dta"       "HHForestryHunting1.dta"
 [9] "HHForestryHunting2.dta"      "HHHousing.dta"
[11] "HHIncomeOtherSource.dta"     "HHInventoryCrops.dta"
[13] "HHLandOwnership.dta"         "HHLiabilities.dta"
[15] "HHLivestock1.dta"            "HHLivestock2.dta"
[17] "HHMembers.dta"               "HHNonAgriculture1.dta"
[19] "HHNonAgriculture2.dta"       "HHNonAgriculture3.dta"
[21] "HHOtherInfo.dta"             "HHProductionCrops.dta"
[23] "HHRecallNonFood.dta"         "HHSalesCrops.dta"
[25] "HHVulnerability.dta"         "Households.dta"
[27] "PersonDisability.dta"        "PersonEcoCurrent.dta"
[29] "PersonEducation.dta"         "PersonHealthU2.dta"
[31] "PersonIllness.dta"           "PersonMaternalHealth.dta"
[33] "PersonviolenceA.dta"         "PersonViolenceB.dta"
[35] "PSUListing.dta"              "weighthouseholds.dta"
[37] "weightpersons.dta"

> library(foreign)
> outfiles<-list()
> for(j in 1:length(infiles)){
+ df<-read.dta(infiles[j],convert.factors=F)
+ outfiles<-c(outfiles,list(df))
+ }
> length(outfiles)
[1] 37
```

```
# 37 R data frames were stored in the list “outfiles”.
# Made list of data file name, number of records and variables

> Rnames<-sub(".dta","",infiles)
> for(j in 1:length(infiles)){
+ if(j==1) cat("      data frame                    nrow     ncol ¥n")
+ cat(j,": ",format(Rnames[j],width=27),": ",
+ format(nrow(outfiles[[j]]),width=6),",",
+ format(ncol(outfiles[[j]]),width=3),"¥n")
+ }

      data frame                    nrow     ncol
1 :  HHConstruction             :    3576 ,  27
2 :  HHCostCultivationCrops     :    4034 ,  21
3 :  HHDurableGoods             :   34809 ,  14
4 :  HHFishCultivation1         :      82 ,   9
5 :  HHFishCultivation2         :    2614 ,   6
6 :  HHFishCultivation3         :    3683 ,   6
7 :  HHFoodConsumption          :   57784 ,   8
8 :  HHForestryHunting1         :    5851 ,   9
9 :  HHForestryHunting2         :    6645 ,   6
10 :  HHHousing                 :    3841 ,  51
11 :  HHIncomeOtherSource       :    4220 ,   8
12 :  HHInventoryCrops          :    1916 ,   8
13 :  HHLandOwnership           :    3781 ,  37
14 :  HHLiabilities             :    1365 ,  12
15 :  HHLivestock1              :   20526 ,  19
16 :  HHLivestock2              :    3898 ,   6
17 :  HHMembers                 :   17644 ,  23
18 :  HHNonAgriculture1         :    1703 ,  15
19 :  HHNonAgriculture2         :    7418 ,  11
20 :  HHNonAgriculture3         :    2604 ,  11
21 :  HHOtherInfo               :    3840 ,  47
22 :  HHProductionCrops         :    4036 ,  15
```

23 :	HHRecallNonFood	:	40135 ,	8
24 :	HHSalesCrops	:	1625 ,	8
25 :	HHVulnerability	:	3843 ,	20
26 :	Households	:	3840 ,	10
27 :	PersonDisability	:	17644 ,	18
28 :	PersonEcoCurrent	:	16086 ,	47
29 :	PersonEducation	:	16754 ,	29
30 :	PersonHealthU2	:	585 ,	19
31 :	PersonIllness	:	17644 ,	23
32 :	PersonMaternalHealth	:	1245 ,	15
33 :	PersonviolenceA	:	17588 ,	8
34 :	PersonViolenceB	:	44 ,	14
35 :	PSUListing	:	384 ,	16
36 :	weighthouseholds	:	3840 ,	7
37 :	weightpersons	:	17644 ,	8

4.2 Structure of data files

The next table is based on the data description in Cambodia-NADA.

Note:

OLD No represents the alphabetical order of file names.

NEW No represents the structural order of data file, as the next table.

CSES 2012: Data files and corresponding part of questionnaire

OLD No	NEW No	File name	Description	Cases	Variables
26	1	Households	Cover page	3840	10
17	2	HHMembers	01. Initial Visit: A. List of Household Members.	17644	20
7	3	HHFoodConsumption	01. Initial Visit: B. Food, Beverages and Tobacco Consumption during the Last 7 Days.	57784	5
23	4	HHRecallNonFood	01. C. RECALL NON-FOOD EXPENDITURES	40135	5
25	5	HHVulnerability	01. D. VULNERABILITY	3843	17
29	6	PersonEducation	02. Education and Literacy	16754	25
10	7	HHHousing	04. Housing.	3841	48
13	8	HHLandOwnership	05. Household Economic Activities, A. Land Ownership	3781	34
22	9	HHProductionCrops	05, B. Production of Crops (Including Fruits and Vegetables, etc.)	4036	12
2	10	HHCostCultivationCrops	05. C. Cost of Cultivation of Crops including Fruits and Vegetables, etc.	4034	18
12	11	HHInventoryCrops	05.D.1 Inventory of Crops (Including Fruits and Vegetables, etc.)	1916	5
24	12	HHSalesCrops	05.D.2 SALES OF CROPS (INCLUDING FRUITS AND VEGETABLES ETC.).	1625	5
15	13	HHLivestock1	05. Household Economic Activities, E. INPUTS AND OUTPUTS OF LIVESTOCK AND POULTRY RAISING ACTIVITIES, First table, Columns 1-15	20526	16

16	14	HHLivestock2	05. Household Economic Activities, E. Inputs and Outputs of Livestock and Poultry Raising Activities, Second table	3898	3
4	15	HHFishCultivation1	05. F. Inputs and Outputs From Fish Cultivation and Fishing/Trapping of Aquatic ProductS, Table 1	82	6
5	16	HHFishCultivation2	05. F. Inputs and Outputs From Fish Cultivation and Fishing/Trapping of Aquatic Products, Table 2	2614	3
6	17	HHFishCultivation3	05. F. Inputs and Outputs from Fish Cultivation and Fishing/Trapping of Aquatic Products, Table 3.	3683	3
8	18	HHForestryHunting1	05.G. Inputs and Outputs from Forestry and Hunting, Table 1	5851	6
9	19	HHForestryHunting2	05. G. Inputs and Outputs from Forestry and Hunting, Table 2.	6645	3
18	20	HHNonAgriculture1	05.H. List of Households Non-agricultural Economic Activities during the Past 12 Months, Table 1	1703	12
19	21	HHNonAgriculture2	05. H. List of Household Non-Agricultural Economic Activities during the Past 12 Months, Table 2.	7418	8
20	22	HHNonAgriculture3	05. H. List of Household Non-Agricultural Economic Activities during the Past 12 Months, Table 3	2604	8
14	23	HHLiabilities	06. Household Liabilities	1365	9
11	24	HHIncomeOtherSource	07. Household Income from Other Sources	4220	5
1	25	HHConstruction	08. Construction Activities in the Past 12 Months.	3576	24
3	26	HHDurableGoods	09. Durable Goods	34809	11
32	27	PersonMaternalHealth	10. Maternal Health: Last pregnancy and delivery	1245	11
30	28	PersonHealthU2	11. Child Health - YOUNGEST CHILD & AND ALL CHILDREN UNDER 2	585	14

31	29	PersonIllness	13. Health Care Seeking and Expenditures, Section B	17644	19
27	30	PersonDisability	14. Disability.	17644	14
28	31	PersonEcoCurrent	15. Current Economic Activity.	16086	43
33	32	PersonviolenceA	17. Vicitmization, Victim of Violence section, Table 1	17588	4
34	33	PersonViolenceB	17. Victimization, Victim of Violence section, Table 2	44	10
21	34	HHOtherInfo	Data contained in this file are questions from various sections of the 2012 CSES questionnaire. These include: 01. B. Food, Beverages and Tobacco Consumption during the Last 7 Days: Q1 03. B. Information on Migration: Current Migrants: Q1 05. A. Household Economic Activities: Land Ownership: Q1A - Q3 05. B. Production of Crops (Including Fruits and Vegetables, etc.): Q1 05. D. Inventory of Crops (Including Fruits and Vegetables, etc.): Q1 05. D. 1. Sales of Crops (Including Fruits and Vegetables, etc.): Q1 05. E. Inputs and Outputs of Livestock and Poultry Raising Activities: Q1 05. F. Inputs and Ouputs from Fish Cultivation and Fishing/ Trapping pf Aquatic Products; Q1 - Q2 05. G. Inputs and Outputs from Forestry and Hunting: Q1 - Q2 05. H. List of Household Non-Agricultural Economic Activities during the Past 12 Months 06. Household Liabilities: Q1 08. Construction Activities in the Past 12 Months 10. Maternal Health: Q1 11. Child Health: Q1 13. A. Health Care Seeking and Expenditure: Subsidized	3840	29

			Household Health Care: Q1 – Q4 17. A. Victimization: Q1 – Q3		
35	35	PSUListing	Information about the PSUs.	384	15
36	36	WeightHouseholds	Household weights	3840	7
37	37	Weightpersons	Person weight	17644	8

Rearrangement of Rfiles and outfiles

```
> file.order<-c(26,17,7,23,25,29,10,13,22,2,12,24,15,16,4,5,6,8,9,
+ 18,19,20,14,11,1,3,32,30,31,27,28,33,34,21,35,36,37)
> Rnames.old<-Rnames
> Rnames<-Rnames[file.order]
> Rnames
 [1] "Households"             "HHMembers"
 [3] "HHFoodConsumption"      "HHRecallNonFood"
 [5] "HHVulnerability"        "PersonEducation"
 [7] "HHHousing"              "HHLandOwnership"
 [9] "HHProductionCrops"      "HHCostCultivationCrops"
[11] "HHInventoryCrops"       "HHSalesCrops"
[13] "HHLivestock1"           "HHLivestock2"
[15] "HHFishCultivation1"     "HHFishCultivation2"
[17] "HHFishCultivation3"     "HHForestryHunting1"
[19] "HHForestryHunting2"     "HHNonAgriculture1"
[21] "HHNonAgriculture2"      "HHNonAgriculture3"
[23] "HHLiabilities"          "HHIncomeOtherSource"
[25] "HHConstruction"         "HHDurableGoods"
[27] "PersonMaternalHealth"   "PersonHealthU2"
[29] "PersonIllness"          "PersonDisability"
[31] "PersonEcoCurrent"       "PersonviolenceA"
[33] "PersonViolenceB"        "HHOtherInfo"
[35] "PSUListing"             "weighthouseholds"
[37] "weightpersons"

> outfiles.old<-outfiles
> for(j in 1:37) outfiles[[j]]<-outfiles.old[[file.order[j]]]

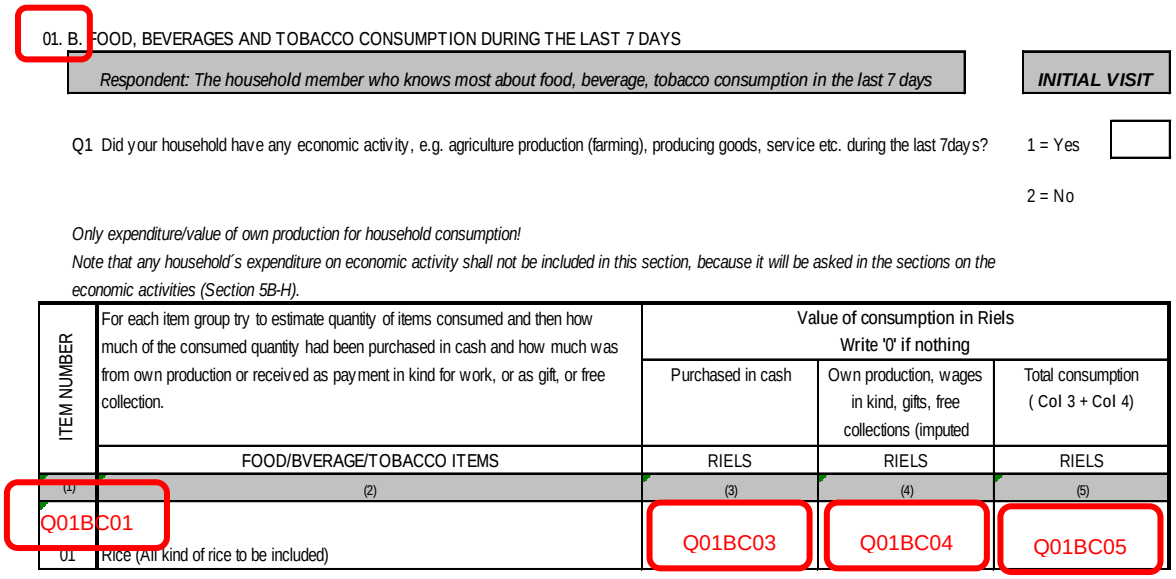
> for(j in 1:length(infiles)){
+ if(j==1) cat("      data frame                    nrow     ncol ¥n")
+ cat(j,": ",format(Rnames[j],width=27),": ",
+ format(nrow(outfiles[[j]]),width=6),",",
+ format(ncol(outfiles[[j]]),width=3),"¥n")
+ }
      data frame                    nrow     ncol
1 :  Households                 :    3840 ,  10
2 :  HHMembers                  :   17644 ,  23
3 :  HHFoodConsumption          :   57784 ,   8
4 :  HHRecallNonFood            :   40135 ,   8
5 :  HHVulnerability            :    3843 ,  20
6 :  PersonEducation            :   16754 ,  29
7 :  HHHousing                  :    3841 ,  51
8 :  HHLandOwnership            :    3781 ,  37
9 :  HHProductionCrops          :    4036 ,  15
10 :  HHCostCultivationCrops     :    4034 ,  21
11 :  HHInventoryCrops           :    1916 ,   8
12 :  HHSalesCrops               :    1625 ,   8
13 :  HHLivestock1               :   20526 ,  19
14 :  HHLivestock2               :    3898 ,   6
15 :  HHFishCultivation1         :      82 ,   9
16 :  HHFishCultivation2         :    2614 ,   6
17 :  HHFishCultivation3         :    3683 ,   6
18 :  HHForestryHunting1         :    5851 ,   9
```

19	HHForestryHunting2	:	6645 ,	6
20	HHNonAgriculture1	:	1703 ,	15
21	HHNonAgriculture2	:	7418 ,	11
22	HHNonAgriculture3	:	2604 ,	11
23	HHLiabilities	:	1365 ,	12
24	HHIncomeOtherSource	:	4220 ,	8
25	HHConstruction	:	3576 ,	27
26	HHDurableGoods	:	34809 ,	14
27	PersonMaternalHealth	:	1245 ,	15
28	PersonHealthU2	:	585 ,	19
29	PersonIllness	:	17644 ,	23
30	PersonDisability	:	17644 ,	18
31	PersonEcoCurrent	:	16086 ,	47
32	PersonviolenceA	:	17588 ,	8
33	PersonViolenceB	:	44 ,	14
34	HHOtherInfo	:	3840 ,	47
35	PSUListing	:	384 ,	16
36	weighthouseholds	:	3840 ,	7
37	weightpersons	:	17644 ,	8

Naming rule of the variable

For example: the variable of Q01BC05,

Q01B represents the questionnaire form, and C05 represents the column number of the questions.



01. B. FOOD, BEVERAGES AND TOBACCO CONSUMPTION DURING THE LAST 7 DAYS

Respondent: The household member who knows most about food, beverage, tobacco consumption in the last 7 days

INITIAL VISIT

Q1 Did your household have any economic activity, e.g. agriculture production (farming), producing goods, service etc. during the last 7days? 1 = Yes

2 = No

Only expenditure/value of own production for household consumption!

Note that any household´s expenditure on economic activity shall not be included in this section, because it will be asked in the sections on the economic activities (Section 5B-H).

ITEM NUMBER	For each item group try to estimate quantity of items consumed and then how much of the consumed quantity had been purchased in cash and how much was from own production or received as payment in kind for work, or as gift, or free collection.	Value of consumption in Riels Write '0' if nothing		
		Purchased in cash	Own production, wages in kind, gifts, free collections (imputed	Total consumption (Col 3 + Col 4)
	FOOD/BVERAGE/TOBACCO ITEMS	RIELS	RIELS	RIELS
(1)	(2)	(3)	(4)	(5)
Q01BC01		Q01BC03	Q01BC04	Q01BC05
01	Rice (All kind of rice to be included)			

4.3 Names and types of variables

Displayed the names and types of variables

```
> for(j in 1:37){
+ cat("##",j,"#### ",Rnames[j]," ##########¥n")
+ print(str(outfiles[[j]]))
+ cat("¥n¥n")
+ }
## 1 ####  Households  ##########
'data.frame':   3840 obs. of  10 variables:
 $ HHID        : chr  "0100301" "0100302" "0100303" "0100304" ...
 $ PSU         : chr  "01003" "01003" "01003" "01003" ...
 $ HHnumber    : chr  "01" "02" "03" "04" ...
 $ Males       : int  1 3 3 2 3 0 4 1 4 3 ...
 $ Females     : int  1 2 5 3 2 3 2 2 1 4 ...
 $ Total       : int  2 5 8 5 5 3 6 3 5 7 ...
 $ SupervisorId: chr  "011" "011" "011" "011" ...
 $ RowDiff     : int  0 0 0 0 0 0 0 0 0 0 ...
 $ SignOut     : POSIXct, format: "2013-01-18 18:07:00" "2013-01-18 18:31:00" ...
 $ Operator    : chr  "zada" "zada" "zada" "zada" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:11"
 - attr(*, "formats")= chr  "%9s" "%9s" "%9s" "%8.0g" ...
 - attr(*, "types")= int  7 5 2 251 251 251 3 253 255 15
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 2 ####  HHMembers  ##########
'data.frame':   17644 obs. of  23 variables:
 $ pkid      : int  2 3 4 5 6 7 8 9 10 11 ...
 $ hhid      : chr  "2101910" "2101910" "2101910" "2101910" ...
 $ Q01AC01   : int  1 2 3 4 5 1 2 3 4 5 ...
 $ Q01AC03   : int  1 2 1 1 2 1 2 1 1 2 ...
 $ Q01AC04A  : int  23 4 29 20 20 10 20 25 12 24 ...
 $ Q01AC04B  : int  3 6 11 11 8 9 1 4 5 10 ...
 $ Q01AC04C  : int  1972 1974 1992 1995 2008 1983 1985 2003 2006 2011 ...
 $ Q01AC05   : int  39 37 19 16 3 28 26 8 5 0 ...
 $ Q01AC06   : int  1 2 3 3 3 1 2 3 3 3 ...
 $ Q01AC07   : int  NA NA 1 1 1 NA NA 1 1 1 ...
 $ Q01AC08   : int  NA NA 2 2 2 NA NA 2 2 2 ...
 $ Q01AC09   : int  1 1 4 4 NA 1 1 NA NA NA ...
 $ Q01AC10   : int  2 1 NA NA NA 2 1 NA NA NA ...
 $ Q01AC11A  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q01AC11B  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q01AC12A  : int  2 0 0 2 0 0 0 0 0 0 ...
 $ Q01AC12B  : int  0 NA NA 0 NA NA NA NA NA NA ...
 $ Q01AC12C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01AC13   : int  1 1 1 2 1 1 1 1 1 1 ...
 $ Q01AC14   : int  NA NA NA 30 NA NA NA NA NA NA ...
 $ EntryUser : chr  "riya" "riya" "riya" "riya" ...
```

```
 $ ChangeDate: POSIXct, format: "2012-02-21 19:17:00" "2012-02-21 19:17:00" ...
 $ Persid    : chr  "210191001" "210191002" "210191003" "210191004" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 252 252 252 252 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 3 ####  HHFoodConsumption  ##########
'data.frame':   57784 obs. of  8 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "2101910" "2101910" "2101910" ...
 $ Q01BC01   : int  1 2 3 4 5 6 7 8 11 12 ...
 $ Q01BC03   : int  0 5000 18000 30000 5000 2000 3500 7000 2500 15000 ...
 $ Q01BC04   : int  21000 0 10000 0 0 0 0 3000 0 0 ...
 $ Q01BC05   : int  21000 5000 28000 30000 5000 2000 3500 10000 2500 15000 ...
 $ EntryUser : chr  "riya" "riya" "riya" "riya" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:18:00" "2012-02-21 19:18:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 253 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 4 ####  HHRecallNonFood  ##########
'data.frame':   40135 obs. of  8 variables:
 $ pkid      : int  17 32 44 45 47 49 51 54 55 56 ...
 $ HHID      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q01CC01   : int  1 4 5 6 8 10 12 2 3 4 ...
 $ Q01CC04   : int  40000 13000 120000 600000 300000 150000 20000 90000 40000 10000 ...
 $ Q01CC05   : int  0 0 60000 0 0 0 0 0 0 0 ...
 $ Q01CC06   : int  40000 13000 180000 600000 300000 150000 20000 90000 40000 10000 ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:27:00" "2012-02-21 19:29:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 253 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 5 ####  HHVulnerability  ##########
'data.frame':   3843 obs. of  20 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "0803010" "2101801" "1209101" ...
```

```
 $ Q01DQ1    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q01DQ2    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q01DQ3    : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_1  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_2  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_3  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_4  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_5  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_6  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_7  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_8  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_9  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_10 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_11 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ4_12 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q01DQ5    : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "riya" "morokat" "buntha" "Buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:25:00" "2012-02-21 19:33:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 6 ####  PersonEducation  ##########
'data.frame':   16754 obs. of  29 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "2101910" "2101910" "0803010" ...
 $ Q02C01    : int  1 2 3 1 2 3 4 4 5 1 ...
 $ Q02C1b    : int  2 2 2 1 2 2 2 4 2 1 ...
 $ Q02C02    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q02C03    : int  1 1 1 1 2 2 2 1 2 2 ...
 $ Q02C04    : int  1 1 1 1 1 1 2 1 2 2 ...
 $ Q02C05    : int  14 7 12 4 2 2 NA 9 NA NA ...
 $ Q02C06    : int  15 7 14 4 2 1 NA 13 NA NA ...
 $ Q02C07    : int  2 2 2 2 2 1 NA 1 NA NA ...
 $ Q02C08    : int  NA NA NA NA NA 2 NA 10 NA NA ...
 $ Q02C09    : int  NA NA NA NA NA 1 NA 1 NA NA ...
 $ Q02C10    : int  NA NA NA NA NA 2 NA 1 NA NA ...
 $ Q02C11    : int  NA NA NA NA NA NA 11 NA 11 NA ...
 $ Q02C12    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ Q02C13    : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q02C14    : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q02C15    : int  2 2 1 2 2 1 2 1 2 2 ...
 $ Q02C16A   : int  NA NA 0 NA NA 0 NA 0 NA NA ...
 $ Q02C16B   : int  NA NA 1200000 NA NA 0 NA 120000 NA NA ...
 $ Q02C16C   : int  NA NA 50000 NA NA 10000 NA 23000 NA NA ...
 $ Q02C16D   : int  NA NA 35000 NA NA 4000 NA 30000 NA NA ...
 $ Q02C16E   : int  NA NA 370000 NA NA 130000 NA 150000 NA NA ...
 $ Q02C16F   : int  NA NA 750000 NA NA 0 NA 20000 NA NA ...
 $ Q02C16G   : int  NA NA 20000 NA NA 4000 NA 2000 NA NA ...
 $ Q02C16H   : int  NA NA 2425000 NA NA 148000 NA 345000 NA NA ...
```

```
 $ EntryUser : chr  "riya" "riya" "riya" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:25:00" "2012-02-21 19:25:00" ...
 $ Persid    : chr  "210191001" "210191002" "210191003" "080301001" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 7 ####  HHHousing  ##########
'data.frame':   3841 obs. of  51 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "2101910" "2101801" "1209101" ...
 $ Q04_01    : int  1 1 1 2 1 1 1 1 1 2 ...
 $ Q04_02    : int  20 56 42 30 30 40 48 30 20 35 ...
 $ Q04_03    : int  1 1 1 1 1 1 1 1 1 2 ...
 $ Q04_04    : int  1 2 2 2 2 2 2 2 2 2 ...
 $ Q04_05    : int  4 2 2 4 3 4 2 4 4 4 ...
 $ Q04_06    : int  3 2 2 2 2 2 2 1 3 2 ...
 $ Q04_07    : int  1 3 3 1 1 3 3 1 3 1 ...
 $ Q04_08    : int  3 9 9 9 1 3 9 9 3 1 ...
 $ Q04_09    : int  50 NA NA NA NA 3 NA NA 7 NA ...
 $ Q04_10M1  : int  1 NA NA NA NA 2 NA NA 3 NA ...
 $ Q04_10M2  : int  2 NA NA NA NA 1 NA NA 2 NA ...
 $ Q04_10M3  : int  3 NA NA NA NA NA NA NA NA NA ...
 $ Q04_11    : int  10 NA NA NA NA 5 NA NA 3 NA ...
 $ Q04_12    : int  3 10 5 10 1 3 10 10 3 1 ...
 $ Q04_13    : int  50 0 120 0 NA 3 0 0 7 NA ...
 $ Q04_14M1  : int  1 NA 1 NA NA 1 NA NA 3 NA ...
 $ Q04_14M2  : int  2 NA 2 NA NA 2 NA NA 2 NA ...
 $ Q04_14M3  : int  NA NA NA NA NA NA NA NA 1 NA ...
 $ Q04_15    : int  12 NA 30 NA NA 5 NA NA 5 NA ...
 $ Q04_16    : int  0 40000 0 5000 27700 0 40000 14000 0 15000 ...
 $ Q04_17    : int  3 1 3 1 1 1 1 1 1 1 ...
 $ Q04_18A   : int  NA 1 NA 1 1 2 1 1 1 1 ...
 $ Q04_18B   : int  NA 2 NA 2 2 1 2 2 2 2 ...
 $ Q04_18C   : int  NA 2 NA 2 2 2 2 2 2 2 ...
 $ Q04_18D   : int  NA 2 NA 2 2 2 2 2 2 2 ...
 $ Q04_18E   : int  NA 2 NA 2 2 2 2 2 2 2 ...
 $ Q04_19A   : int  2 7 7 2 2 2 6 2 7 2 ...
 $ Q04_19B   : int  2 3 3 2 1 1 3 1 3 1 ...
 $ Q04_20    : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q04_21    : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q04_22A   : int  1 2 1 1 1 1 1 1 1 1 ...
 $ Q04_22B   : int  1 2 2 1 1 1 2 2 1 2 ...
 $ Q04_22C1  : int  NA 1 1 NA NA NA 2 2 NA 2 ...
 $ Q04_22C2  : int  NA 2 2 NA NA NA 3 4 NA NA ...
 $ Q04_22C3  : int  NA 3 NA NA NA NA NA NA NA NA ...
 $ Q04_22D   : int  NA 3 6 NA NA NA 3 5 NA 1 ...
 $ Q04_23A   : int  14000 0 0 8000 38500 0 0 35000 0 16000 ...
 $ Q04_23B   : int  0 10000 0 0 12000 0 0 0 0 2600 ...
 $ Q04_23C   : int  0 0 0 0 0 0 0 0 0 0 ...
```

```
 $ Q04_23D   : int  10000 20000 45000 15000 21000 40000 45000 35000 40000 30000 ...
 $ Q04_23E   : int  0 0 0 2000 0 0 0 0 0 2400 ...
 $ Q04_23F   : int  6000 30000 10000 0 0 11000 10000 0 6000 0 ...
 $ Q04_23G   : int  0 0 0 0 0 0 0 0 0 2000 ...
 $ Q04_24    : int  1 1 1 1 1 2 1 1 1 1 ...
 $ Q04_25A   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q04_25B   : int  50000 100000 70000 120000 280000 160000 100000 60000 100000 200000 ...
 $ Q04_26    : int  0 0 0 0 0 0 0 0 0 0 ...
 $ EntryUser : chr  "morokat" "riya" "buntha" "Buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:36:00" "2012-02-21 19:39:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 252 252 252 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 8 ####  HHLandOwnership  ##########
'data.frame':   3781 obs. of  37 variables:
 $ pkid      : int  4 5 6 7 8 9 10 11 12 13 ...
 $ hhid      : chr  "2101801" "2101801" "2101801" "2101801" ...
 $ Q05AC01   : int  1 2 3 4 1 2 1 1 2 1 ...
 $ Q05AC02   : num  3000 1300 1000 1000 30000 ...
 $ Q05AC03   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q05AC04A  : int  300 100 70 70 4500 1200 250000 1000 700 500 ...
 $ Q05AC04B  : int  2 2 2 2 2 2 1 2 2 2 ...
 $ Q05AC04C  : int  2 2 2 2 2 2 2 3 3 2 ...
 $ Q05AC05A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC05B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC05C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC06A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC06B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC06C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC07   : int  1 1 1 1 2 1 1 1 1 1 ...
 $ Q05AC08   : int  1999 1999 1999 1999 2009 1991 2009 1980 1980 1983 ...
 $ Q05AC09   : int  2 2 2 2 4 2 2 1 1 1 ...
 $ Q05AC10   : int  NA NA NA NA 60000000 NA NA NA NA NA ...
 $ Q05AC11   : int  3200000 2000000 2000000 2000000 100000000 20000000 8000000 28000000 21000000
57840000 ...
 $ Q05AC12   : int  1 1 1 1 1 1 1 2 2 1 ...
 $ Q05AC13A  : int  3 3 3 3 4 4 3 NA NA 3 ...
 $ Q05AC13B  : int  8 8 8 8 8 8 3 NA NA 3 ...
 $ Q05AC14   : int  3 3 3 3 3 2 3 NA NA 3 ...
 $ Q05AC15   : int  6 6 6 6 1 2 2 1 1 2 ...
 $ Q05AC16A  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q05AC16B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC16C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC17   : int  1 1 1 1 2 1 1 4 4 1 ...
 $ Q05AC18A  : int  1 1 1 1 2 1 1 1 1 1 ...
 $ Q05AC18B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC18C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AC19   : int  NA NA NA NA 2010 NA NA NA NA NA ...
 $ Q05AC20   : int  1 1 1 1 1 1 1 1 1 1 ...
```

```
 $ Q05AC21   : int  1999 1999 1999 1999 2009 1991 2009 1980 1980 1983 ...
 $ Q05AC22   : int  3 3 3 3 3 3 3 3 3 3 ...
 $ EntryUser : chr  "buntha" "buntha" "buntha" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:44:00" "2012-02-21 19:45:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%10.0g" ...
 - attr(*, "types")= int  253 7 251 255 251 253 251 251 253 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 9 ####  HHProductionCrops  ##########
'data.frame':   4036 obs. of  15 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "2101910" "2101910" "2101801" ...
 $ WetDry    : int  1 1 2 1 1 1 1 1 1 1 ...
 $ Q05BC01   : int  1 2 1 1 2 3 4 1 1 2 ...
 $ Q05BC02   : int  2 2 1 1 2 3 4 1 1 2 ...
 $ Q05BC03B  : chr  "102" "103" "101" "102" ...
 $ Q05BC04   : num  4300 700 30000 3000 1300 1000 1000 2000 7550 5550 ...
 $ Q05BC05   : num  4300 700 30000 3000 1300 1000 1000 2000 7550 5550 ...
 $ Q05BC06   : num  2250 200 21150 720 240 ...
 $ Q05BC07   : num  50 10 150 0 0 0 0 5 20 15 ...
 $ Q05BC08   : num  90 0 0 0 0 0 0 0 0 0 ...
 $ Q05BC09   : int  950 1400 950 1000 1000 1000 1000 1700 820 820 ...
 $ PastYear  : int  2011 2011 2011 2011 2011 2011 2011 2011 2011 2011 ...
 $ EntryUser : chr  "riya" "riya" "riya" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:45:00" "2012-02-21 19:45:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 3 255 255 255 255 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 10 ####  HHCostCultivationCrops  ##########
'data.frame':   4034 obs. of  21 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "2101910" "2101910" "2101801" ...
 $ WetDry    : int  1 1 2 1 1 1 1 1 1 1 ...
 $ Q05CC01   : int  1 2 1 1 2 3 4 1 1 2 ...
 $ Q05CC02   : int  2 2 1 1 2 3 4 1 1 2 ...
 $ Q05CC03   : int  30000 7500 1000000 60000 25000 22000 22000 17000 100000 80000 ...
 $ Q05CC04   : int  240000 20000 4300000 68000 26000 24000 24000 100000 364000 260000 ...
 $ Q05CC05   : int  180000 20000 0 30000 20000 15000 15000 0 100000 80000 ...
 $ Q05CC06   : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05CC07   : int  22500 0 845000 2000 2000 2000 2000 60000 0 0 ...
 $ Q05CC08   : int  30000 0 23000 0 0 0 0 7000 96000 0 ...
 $ Q05CC09   : int  270000 30000 1000000 0 0 0 0 0 150000 100000 ...
 $ Q05CC10   : int  180000 20000 1050000 0 0 0 0 0 200000 150000 ...
```

```
 $ Q05CC11   : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05CC12   : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05CC13   : int  0 0 460000 0 0 0 0 0 0 0 ...
 $ Q05CC14   : int  0 0 0 20000 10000 10000 5000 100000 0 0 ...
 $ Q05CC15   : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05CC16   : int  952500 97500 8678000 180000 83000 73000 68000 284000 1010000 670000 ...
 $ EntryUser : chr  "riya" "riya" "riya" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:46:00" "2012-02-21 19:46:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:12"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 253 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 11 ####  HHInventoryCrops  ##########
'data.frame':   1916 obs. of  8 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "2101910" "2101910" "2101801" ...
 $ Q05DC01   : int  1 2 3 1 2 3 4 1 1 2 ...
 $ Q05DC02B  : chr  "102" "103" "101" "102" ...
 $ Q05DC03   : num  2290 190 1000 720 240 150 50 2600 1000 300 ...
 $ Q05DC04   : int  950 1400 950 1000 1000 1000 1000 800 1000 1000 ...
 $ EntryUser : chr  "riya" "riya" "riya" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:47:00" "2012-02-21 19:47:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%9s" ...
 - attr(*, "types")= int  253 7 251 3 255 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 12 ####  HHSalesCrops  ##########
'data.frame':   1625 obs. of  8 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "2101910" "2101909" "2101802" "0803008" ...
 $ Q05D1C1   : int  1 1 1 1 1 1 2 1 1 2 ...
 $ Q05D1C2   : chr  "101" "102" "102" "102" ...
 $ Q05D1C3   : num  20000 4300 200 140 2600 500 1000 2000 1200 1850 ...
 $ Q05D1C4   : int  950 820 1000 1200 1000 1000 1000 1000 1000 1500 ...
 $ EntryUser : chr  "riya" "riya" "buntha" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:48:00" "2012-02-21 22:57:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%9s" ...
 - attr(*, "types")= int  253 7 251 3 255 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL
```

```
## 13 ####  HHLivestock1  ##########
'data.frame':   20526 obs. of  19 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q05E1C01  : int  1 2 3 4 5 6 7 8 9 10 ...
 $ Q05E1C03  : int  2 2 2 2 2 2 1 2 2 2 ...
 $ Q05E1C04  : int  NA NA NA NA NA NA 22 NA NA NA ...
 $ Q05E1C05  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05E1C06  : int  NA NA NA NA NA NA 70000 NA NA NA ...
 $ Q05E1C7a  : int  NA NA NA NA NA NA 30 NA NA NA ...
 $ Q05E1C7b  : int  NA NA NA NA NA NA 25 NA NA NA ...
 $ Q05E1C08  : int  NA NA NA NA NA NA 140000 NA NA NA ...
 $ Q05E1C09  : int  NA NA NA NA NA NA 0 NA NA NA ...
 $ Q05E1C10  : int  NA NA NA NA NA NA 0 NA NA NA ...
 $ Q05E1C11  : int  NA NA NA NA NA NA 70000 NA NA NA ...
 $ Q05E1C12  : int  NA NA NA NA NA NA 0 NA NA NA ...
 $ Q05E1C13  : int  NA NA NA NA NA NA 0 NA NA NA ...
 $ Q05E1C14  : int  NA NA NA NA NA NA 0 NA NA NA ...
 $ Q05E1C15  : int  NA NA NA NA NA NA 0 NA NA NA ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ Changedate: POSIXct, format: "2012-02-21 19:36:00" "2012-02-21 19:36:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 253 253 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 14 ####  HHLivestock2  ##########
'data.frame':   3898 obs. of  6 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "2101910" "2101910" ...
 $ Q05E2C01  : int  1 2 1 2 2 4 1 1 2 2 ...
 $ Q05E2C03  : int  20000 20000 1380000 200000 800000 40000 5000 20000 70000 40000 ...
 $ EntryUser : chr  "morokat" "morokat" "riya" "riya" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:38:00" "2012-02-21 19:38:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 15 ####  HHFishCultivation1  ##########
'data.frame':   82 obs. of  9 variables:
 $ pkid      : int  1 2 3 4 6 7 8 9 10 11 ...
 $ hhid      : chr  "2101801" "2101910" "2101802" "2101803" ...
 $ Q05F1C01  : int  1 1 1 1 1 1 1 1 1 1 ...
```

```
 $ Q05F1C02  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q05F1C03  : int  240 18 400 16 6 12 24 35 60 450 ...
 $ Q05F1C04  : int  2800000 500000 5000000 1000000 500000 200000 450000 500000 500000 2000000 ...
 $ Q05F1C05  : int  30000 7000 30000 10000 40000 10000 25000 5000 100000 20000 ...
 $ EntryUser : chr  "buntha" "riya" "buntha" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:54:00" "2012-02-21 19:55:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 253 253 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 16 ####  HHFishCultivation2  ##########
'data.frame':   2614 obs. of  6 variables:
 $ pkid      : int  3 5 6 7 8 9 10 11 12 13 ...
 $ hhid      : chr  "0803010" "1209101" "2101801" "2101910" ...
 $ Q05F2C01  : int  5 5 5 1 5 5 5 5 5 5 ...
 $ Q05F2C03  : int  250000 10000 5000 40000 30000 50000 5000 400000 20000 10000 ...
 $ EntryUser : chr  "morokat" "Buntha" "buntha" "riya" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:40:00" "2012-02-21 19:44:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 17 ####  HHFishCultivation3  ##########
'data.frame':   3683 obs. of  6 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q05F3C01  : int  1 2 3 4 2 3 2 3 2 3 ...
 $ Q05F3C03  : int  1120000 700000 50000 60000 50000 10000 1000000 50000 300000 100000 ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:40:00" "2012-02-21 19:40:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 18 ####  HHForestryHunting1  ##########
'data.frame':   5851 obs. of  9 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "2101801" ...
```

```
 $ Q05G1C01  : int  2 4 6 2 4 6 2 6 2 2 ...
 $ Q05G1C03  : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05G1C04  : int  470000 20000 40000 560000 60000 120000 240000 120000 470000 547000 ...
 $ Q05G1C05  : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05G1C06  : int  470000 20000 40000 560000 60000 120000 240000 120000 470000 547000 ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:40:00" "2012-02-21 19:41:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 253 253 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 19 ####  HHForestryHunting2  ##########
'data.frame':   6645 obs. of  6 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "2101801" "2101910" "0803009" ...
 $ Q05G2C01  : int  5 1 5 5 5 5 1 1 5 5 ...
 $ Q05G2C03  : int  20000 0 15000 20000 20000 30000 0 0 10000 5000 ...
 $ EntryUser : chr  "morokat" "buntha" "riya" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:41:00" "2012-02-21 19:56:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 20 ####  HHNonAgriculture1  ##########
'data.frame':   1703 obs. of  15 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "1209101" "2101910" "0803009" "0803009" ...
 $ Q05H1C01  : int  1 1 1 2 1 2 1 1 2 1 ...
 $ Q05H1C04  : chr  "4540" "4920" "4720" "4920" ...
 $ Q05H1C05  : int  1 1 2 1 2 1 1 1 2 2 ...
 $ Q05H1C06A : int  NA NA 1 NA NA NA 2 NA NA 1 ...
 $ Q05H1C06B : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05H1C06C : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05H1C06D : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05H1C06E : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05H1C06F : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05H1C06G : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05H1C06H : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "Buntha" "riya" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:44:00" "2012-02-21 19:56:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%9s" ...
 - attr(*, "types")= int  253 7 251 4 251 251 251 251 251 251 ...
```

```
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 21 ####  HHNonAgriculture2  ##########
'data.frame':   7418 obs. of  11 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "1209101" "1209101" "1209101" "1209101" ...
 $ Q05H2C01  : int  3 4 5 6 1 4 5 14 17 18 ...
 $ Q05H2C03  : int  50000 200000 30000 115000 15000000 16000000 432000 200000 2400000 980000 ...
 $ Q05H2C04  : int  NA NA NA NA 0 0 0 0 0 0 ...
 $ Q05H2C05  : int  NA NA NA NA 0 0 0 0 0 0 ...
 $ Q05H2C06  : int  NA NA NA NA 0 0 0 0 0 0 ...
 $ Q05H2C07  : int  NA NA NA NA 0 0 0 0 0 0 ...
 $ Q05H2C08  : int  NA NA NA NA 0 0 0 0 0 0 ...
 $ EntryUser : chr  "Buntha" "Buntha" "Buntha" "Buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:44:00" "2012-02-21 19:44:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 253 253 253 253 253 15 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 22 ####  HHNonAgriculture3  ##########
'data.frame':   2604 obs. of  11 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "1209101" "1209101" "2101910" "0803009" ...
 $ Q05H3C01  : int  2 5 3 5 8 1 5 8 9 5 ...
 $ Q05H3C03  : int  1250000 150000 41252000 79200000 NA 9600000 3600000 0 30000 18000000 ...
 $ Q05H3C04  : int  NA NA 0 NA 4000000 NA NA 1440000 NA 0 ...
 $ Q05H3C05  : int  NA NA 0 NA NA NA NA NA NA 0 ...
 $ Q05H3C06  : int  NA NA 0 NA NA NA NA NA NA 0 ...
 $ Q05H3C07  : int  NA NA 0 NA NA NA NA NA NA 0 ...
 $ Q05H3C08  : int  NA NA 0 NA NA NA NA NA NA 0 ...
 $ EntryUser : chr  "Buntha" "Buntha" "riya" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:45:00" "2012-02-21 19:45:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 253 253 253 253 253 15 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 23 ####  HHLiabilities  ##########
'data.frame':   1365 obs. of  12 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "1209101" "2101801" "2101910" ...
```

```
 $ Q06_C01   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q06_C02   : int  4 8 5 4 12 3 36 2 3 12 ...
 $ Q06_C03   : int  12 16 7 2 24 9 NA 10 9 19 ...
 $ Q06_C04   : int  8 9 1 8 4 1 1 8 8 8 ...
 $ Q06_C05   : int  4 8 1 1 4 4 8 1 1 1 ...
 $ Q06_C06    : int  800000 6000000 500000 8000000 4000000 8000000 1200000 2000000 600000
2000000 ...
 $ Q06_C07    : int  457500 4000000 500000 8000000 2000000 8000000 1200000 2000000 600000
146700 ...
 $ Q06_C08   : num  2.5 2.7 0 1.9 3 5 0 3 3 2.5 ...
 $ EntryUser : chr  "morokat" "Buntha" "buntha" "riya" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:41:00" "2012-02-21 19:45:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 252 252 251 251 253 253 255 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 24 ####  HHIncomeOtherSource  ##########
'data.frame':   4220 obs. of  8 variables:
 $ pkid      : int  2 3 4 5 6 7 8 9 10 11 ...
 $ hhid      : chr  "2101801" "2101910" "1209102" "2101909" ...
 $ Q07_C01   : int  2 5 2 2 1 11 11 13 2 11 ...
 $ Q07_C03   : int  10000 12000 300000 50000 1200000 60000 10000 400000 100000 20000 ...
 $ Q07_C04   : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q07_C05   : int  10000 12000 300000 50000 1200000 60000 10000 400000 100000 20000 ...
 $ EntryUser : chr  "buntha" "riya" "Buntha" "riya" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:56:00" "2012-02-21 19:58:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:15"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%12.0g" ...
 - attr(*, "types")= int  253 7 251 253 253 253 15 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 25 ####  HHConstruction  ##########
'data.frame':   3576 obs. of  27 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "1209101" "2101801" "2101910" ...
 $ Q08_C01   : int  1 1 1 1 1 1 1 1 2 1 ...
 $ Q08_C02A  : int  1 1 1 1 1 1 1 1 3 1 ...
 $ Q08_C02B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q08_C02C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q08_C03   : num  20 30 42 56 30 48 35 30 42 20 ...
 $ Q08_C04   : int  2007 1997 1990 1995 1979 2006 2001 2011 1999 1997 ...
 $ Q08_C05    : int  4200000 40000000 20000000 40000000 120000000 15000000 80000000 12000000
42000000 16000000 ...
 $ Q08_C06   : int  50000 120000 70000 100000 280000 100000 200000 60000 50000 100000 ...
 $ Q08_C07   : int  2 2 2 2 2 2 2 2 2 2 ...
```

```
 $ Q08_C08   : int  NA NA NA NA NA NA NA NA NA ...
 $ Q08_C09   : int  2 2 2 2 2 2 2 1 2 2 ...
 $ Q08_C10   : int  NA NA NA NA NA NA NA 1 NA NA ...
 $ Q08_C11A  : int  NA NA NA NA NA NA NA 5 NA NA ...
 $ Q08_C11B  : int  NA NA NA NA NA NA NA 2011 NA NA ...
 $ Q08_C12A  : int  NA NA NA NA NA NA NA 9 NA NA ...
 $ Q08_C12B  : int  NA NA NA NA NA NA NA 2011 NA NA ...
 $ Q08_C13   : int  NA NA NA NA NA NA NA 4 NA NA ...
 $ Q08_C14   : int  NA NA NA NA NA NA NA 200000 NA NA ...
 $ Q08_C15   : int  NA NA NA NA NA NA NA 4000000 NA NA ...
 $ Q08_C16   : int  NA NA NA NA NA NA NA 0 NA NA ...
 $ Q08_C17   : int  NA NA NA NA NA NA NA 0 NA NA ...
 $ Q08_C18   : int  NA NA NA NA NA NA NA 0 NA NA ...
 $ Q08_C19   : int  NA NA NA NA NA NA NA 0 NA NA ...
 $ EntryUser : chr  "morokat" "Buntha" "buntha" "riya" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:42:00" "2012-02-21 19:46:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:12"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 255 252 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 26 ####  HHDurableGoods  ##########
'data.frame':   34809 obs. of  14 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q09_C03   : int  802 803 890 891 838 818 803 804 893 838 ...
 $ Q09_C04   : int  1 1 2 1 3 1 1 1 1 2 ...
 $ Q09_C05A  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q09_C05B  : int  NA NA 1 NA 1 NA NA NA NA 1 ...
 $ Q09_C05C  : int  NA NA NA NA 1 NA NA NA NA NA ...
 $ Q09_C05D  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q09_C06A  : int  NA NA NA NA NA 1 NA 1 NA NA ...
 $ Q09_C06B  : int  1 1 2 1 3 NA 1 NA 1 2 ...
 $ Q09_C07   : int  NA NA NA NA NA 160000 NA 6600000 NA NA ...
 $ Q09_C08   : int  80000 40000 8000 70000 12000 NA 35000 NA 20000 10000 ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:42:00" "2012-02-21 19:42:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:11"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 253 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 27 ####  PersonMaternalHealth  ##########
'data.frame':   1245 obs. of  15 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "2101801" "2101910" "0803009" ...
```

```
 $ Q10_C01   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q10_C02   : int  2 2 2 2 2 2 2 2 7 2 ...
 $ Q10_C03   : int  5 5 5 3 3 5 6 3 8 4 ...
 $ Q10_C04   : int  2 2 2 1 2 1 2 2 2 2 ...
 $ Q10_C05   : int  2 1 1 1 1 1 1 1 1 1 ...
 $ Q10_C06   : int  1 7 7 7 7 1 7 7 6 7 ...
 $ Q10_C07A  : int  3 3 3 3 3 3 3 1 3 3 ...
 $ Q10_C07B  : int  NA 1 NA NA 1 NA NA 2 1 NA ...
 $ Q10_C07C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q10_C07D  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "morokat" "buntha" "riya" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:43:00" "2012-02-21 19:58:00" ...
 $ persid    : chr  "080301001" "210180101" "210191001" "080300901" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:12"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 28 ####  PersonHealthU2  ##########
'data.frame':   585 obs. of  19 variables:
 $ pkid        : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid        : chr  "0803010" "1209102" "2101804" "0301104" ...
 $ Q11_C01     : int  1 1 1 1 1 1 1 1 2 1 ...
 $ Q11_C02     : int  2 2 2 2 NA 3 2 3 5 7 ...
 $ Q11_C03     : int  5 3 4 4 5 6 4 9 8 6 ...
 $ Q11_C04     : int  1 1 1 1 2 1 1 1 1 1 ...
 $ Q11_C05     : int  1 1 1 1 NA 1 1 1 1 1 ...
 $ Q11_C06A    : int  NA NA 0 0 NA NA NA NA NA 12 ...
 $ Q11_C06B    : int  2 1 NA NA NA 2 1 1 2 NA ...
 $ Q11_C07     : int  1 1 2 1 NA 1 1 1 2 1 ...
 $ Q11_C08A    : int  2 2 2 2 NA 1 1 2 2 2 ...
 $ Q11_C08B    : int  2 1 1 2 NA 2 1 1 1 1 ...
 $ Q11_C09     : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q11_C10     : int  2 2 2 2 2 2 2 2 2 1 ...
 $ Q11_C11     : int  1 1 1 2 1 1 1 1 1 1 ...
 $ EntryUser   : chr  "morokat" "Buntha" "buntha" "tey" ...
 $ ChangeDate  : POSIXct, format: "2012-02-21 19:43:00" "2012-02-21 22:54:00" ...
 $ Persid      : chr  "080301005" "120910203" "210180404" "030110404" ...
 $ PersidMother: chr  "080301002" "120910202" "210180402" "030110402" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 252 252 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 29 ####  PersonIllness  ##########
'data.frame':   17644 obs. of  23 variables:
```

```
 $ pkid      : int  2 3 4 5 6 7 8 9 10 11 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q13BC01   : int  1 2 3 4 5 1 2 3 4 1 ...
 $ Q13BC2A   : int  2 2 1 1 1 2 2 1 1 1 ...
 $ Q13BC2B   : int  NA NA 1 1 1 NA NA 4 4 5 ...
 $ Q13BC03   : int  NA NA 2 2 2 NA NA 2 2 1 ...
 $ Q13BC04   : int  NA NA 3 3 3 NA NA 2 3 2 ...
 $ Q13BC05   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13BC06   : int  NA NA 1 1 1 NA NA 1 1 1 ...
 $ Q13BC07   : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q13BC08   : int  0 0 2 1 2 0 0 2 3 3 ...
 $ Q13BC9A   : int  NA NA 10 10 10 NA NA 14 14 14 ...
 $ Q13BC9B   : int  NA NA 10 NA 10 NA NA 14 14 14 ...
 $ Q13BC9C   : int  NA NA 2 2 2 NA NA 2 2 2 ...
 $ Q13BC9D   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13BC10   : int  NA NA 4000 3000 3000 NA NA 0 0 2000 ...
 $ Q13BC11   : int  NA NA 20000 10000 10000 NA NA 6000 9000 15000 ...
 $ Q13BC12A  : int  NA NA 2 2 2 NA NA 1 1 1 ...
 $ Q13BC12B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13BC12C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:43:00" "2012-02-21 19:43:00" ...
 $ persid    : chr  "080301001" "080301002" "080301003" "080301004" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 30 ####  PersonDisability  ##########
'data.frame':   17644 obs. of  18 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q14_C01   : int  1 2 3 4 5 1 2 3 4 1 ...
 $ Q14_C02A  : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q14_C02B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C02C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C03A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C03B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C03C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C04A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C04B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C04C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C05A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C05B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q14_C05C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:44:00" "2012-02-21 19:44:00" ...
 $ Persid    : chr  "080301001" "080301002" "080301003" "080301004" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
```

```
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 31 ####  PersonEcoCurrent  ##########
'data.frame':   16086 obs. of  47 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q15_C01   : int  1 2 3 4 1 2 3 4 1 2 ...
 $ Q15_C02   : int  1 2 2 2 1 1 3 1 1 2 ...
 $ Q15_C03   : int  1 2 2 2 1 1 2 2 1 1 ...
 $ Q15_C04   : int  NA 2 2 2 NA NA 2 2 NA NA ...
 $ Q15_C05B  : chr  "634" "" "" "" ...
 $ Q15_C06B  : chr  "0310" "" "" "" ...
 $ Q15_C07   : int  3 NA NA NA 3 4 NA NA 3 3 ...
 $ Q15_C08   : int  3 NA NA NA 3 1 NA NA 3 1 ...
 $ Q15_C09   : int  40 NA NA NA 63 60 NA NA 28 56 ...
 $ Q15_C10A  : int  17 NA NA NA 30 28 NA NA 20 28 ...
 $ Q15_C10B  : int  1 NA NA NA 1 1 NA NA 1 2 ...
 $ Q15_C10C  : int  NA NA NA NA NA NA NA NA NA 2 ...
 $ Q15_C10D  : int  2 NA NA NA 2 2 NA NA 2 2 ...
 $ Q15_C11   : int  0 NA NA NA 0 0 NA NA 1 0 ...
 $ Q15_C12B  : chr  "" "" "" "" ...
 $ Q15_C13B  : chr  "" "" "" "" ...
 $ Q15_C14   : int  NA NA NA NA NA NA NA NA 3 NA ...
 $ Q15_C15   : int  NA NA NA NA NA NA NA NA 3 NA ...
 $ Q15_C16   : int  NA NA NA NA NA NA NA NA 6 NA ...
 $ Q15_C17A  : int  NA NA NA NA NA NA NA NA 10 NA ...
 $ Q15_C17B  : int  NA NA NA NA NA NA NA NA 2 NA ...
 $ Q15_C17C  : int  NA NA NA NA NA NA NA NA 2 NA ...
 $ Q15_C18A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C18B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C19   : int  NA NA NA NA NA NA NA NA 34 NA ...
 $ Q15_C20   : int  NA NA NA NA NA 400000 NA NA NA 40000 ...
 $ Q15_C21   : int  3 NA NA NA 2 3 NA NA 2 3 ...
 $ Q15_C22A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C22B  : int  NA NA NA NA 10 NA NA NA 21 NA ...
 $ Q15_C23   : int  NA NA NA NA 2 NA NA NA 2 NA ...
 $ Q15_C24   : int  NA NA NA NA 2 NA NA NA 2 NA ...
 $ Q15_C25   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C26   : int  NA 2 2 2 NA NA 2 2 NA NA ...
 $ Q15_C27A  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C27B  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C27C  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C28   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C29   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C30   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C31   : int  NA 8 7 6 NA NA 7 7 NA NA ...
 $ Q15_C32   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q15_C33   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:45:00" "2012-02-21 19:45:00" ...
 $ Persid    : chr  "080301001" "080301002" "080301003" "080301004" ...
```

```
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:13"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 3 4 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 32 ####  PersonviolenceA  ##########
'data.frame':   17588 obs. of  8 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0803010" "0803010" "0803010" "0803010" ...
 $ Q17AC01   : int  1 2 3 4 5 1 2 3 4 1 ...
 $ Q17AC02   : int  2 2 2 2 2 2 2 2 2 2 ...
 $ Q17AC03   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ EntryUser : chr  "morokat" "morokat" "morokat" "morokat" ...
 $ ChangeDate: POSIXct, format: "2012-02-21 19:46:00" "2012-02-21 19:46:00" ...
 $ persid    : chr  "080301001" "080301002" "080301003" "080301004" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:12"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 15 255 9
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 33 ####  PersonViolenceB  ##########
'data.frame':   44 obs. of  14 variables:
 $ pkid      : int  1 2 3 4 9 13 15 16 18 19 ...
 $ hhid      : chr  "0102701" "1701904" "1701904" "1701904" ...
 $ Q17BC01   : int  1 1 1 1 2 1 2 1 2 2 ...
 $ Q17BC02   : int  1 1 2 3 1 2 2 3 1 2 ...
 $ Q17BC03   : int  11 1 3 4 1 1 3 4 4 4 ...
 $ Q17BC04   : int  2 1 2 2 1 2 1 2 2 2 ...
 $ Q17BC05   : int  NA 1 NA NA 1 NA 2 NA NA NA ...
 $ Q17BC06   : int  NA 2 NA NA 2 NA 2 NA NA NA ...
 $ Q17BC07   : int  4 3 3 3 2 3 2 3 3 3 ...
 $ Q17BC08   : int  2 2 2 2 1 2 1 2 2 2 ...
 $ Q17BC09   : int  1 2 1 1 1 1 1 1 1 1 ...
 $ EntryUser : chr  "riya" "buntha" "buntha" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-24 22:52:00" "2012-02-28 01:43:00" ...
 $ persid    : chr  "010270101" "170190401" "170190401" "170190401" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:12"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL
```

```
## 34 ####  HHOtherInfo  ##########
'data.frame':   3840 obs. of  47 variables:
 $ pkid      : int  1 2 3 4 5 6 7 8 9 10 ...
 $ hhid      : chr  "0102701" "2101910" "0803010" "2101801" ...
 $ Q01BQ1    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Q05AQ1A   : int  2 2 2 2 2 2 2 2 2 2 ...
 $ Q05AQ1B   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q05AQ2    : int  1 1 2 1 2 1 2 1 1 1 ...
 $ Q05AQ3    : int  1 2 NA 4 NA 1 NA 2 2 2 ...
 $ Q05ANote  : int  0 0 NA 0 NA 0 NA 0 0 0 ...
 $ Q05BQ1    : int  2 1 NA 1 NA 1 NA 1 1 1 ...
 $ Q05BNote  : int  NA 0 NA 0 NA 0 NA 0 0 0 ...
 $ Q05CNote  : int  NA 0 NA 0 NA 0 NA 1 0 0 ...
 $ Q05DQ1    : int  NA 1 NA 1 NA 2 NA 1 1 2 ...
 $ Q05DNote1 : int  NA 0 NA 0 NA 0 NA 0 0 0 ...
 $ Q05D1Q1   : int  NA 1 NA 2 NA 2 NA 1 1 1 ...
 $ Q05DNote2 : int  NA 0 NA 0 NA 0 NA 0 0 0 ...
 $ Q05EQ1    : int  2 1 1 1 2 1 1 1 1 1 ...
 $ Q05ENote1 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05ENote2 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05FQ1    : int  2 1 2 2 2 2 2 2 2 2 ...
 $ Q05FQ2    : int  2 1 2 1 2 2 2 1 2 2 ...
 $ Q05FNote1 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05FQ3    : int  2 1 1 1 1 1 2 1 2 1 ...
 $ Q05FNote2 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05FNote3 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05GQ1    : int  2 1 1 1 2 1 2 1 1 1 ...
 $ Q05GQ2    : int  2 1 1 1 2 2 2 1 1 1 ...
 $ Q05GNote1 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05GNote2 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05HQ1    : int  1 1 2 2 1 1 2 2 2 2 ...
 $ Q05HNote1 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05HNote2 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q05HNote3 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ Q06_Q1    : int  2 1 1 1 1 2 2 1 1 2 ...
 $ Q08_Q1    : int  2 1 1 1 1 2 1 1 1 1 ...
 $ Q10_Q1    : int  2 1 1 1 2 1 1 2 2 2 ...
 $ Q11_Q1    : int  2 2 1 2 2 2 1 2 2 2 ...
 $ Q13AQ1    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ Q13AQ2A   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13AQ2B   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13AQ2C   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13AQ3    : int  NA NA NA NA NA NA NA NA NA NA ...
 $ Q13AQ4    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ Q17AQ1    : int  1 1 1 1 2 1 1 1 2 1 ...
 $ Q17AQ2    : int  1 2 2 2 2 2 2 2 2 2 ...
 $ Q17AQ3    : int  2 1 2 2 2 2 2 1 1 2 ...
 $ EntryUser : chr  "riya" "riya" "morokat" "buntha" ...
 $ ChangeDate: POSIXct, format: "2012-02-24 18:50:00" "2012-02-21 20:06:00" ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:14"
 - attr(*, "formats")= chr  "%12.0g" "%9s" "%8.0g" "%8.0g" ...
 - attr(*, "types")= int  253 7 251 251 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
```

```
NULL


## 35 ####  PSUListing  ##########
'data.frame':   384 obs. of  16 variables:
 $ PSU               : chr  "01003" "01006" "01007" "01008" ...
 $ Province_Code     : chr  "01" "01" "01" "01" ...
 $ Province_Name     : chr  "Banteay Meanchey" "Banteay Meanchey" "Banteay Meanchey" "Banteay
Meanchey" ...
 $ District_Code     : chr  "02" "02" "03" "04" ...
 $ District_Name     : chr  "Mongkol Borei" "Mongkol Borei" "Phnum Srok" "Preah Netr Preah" ...
 $ Commune_Code      : chr  "08" "13" "03" "02" ...
 $ Commune_Name      : chr  "Rohat Tuek" "Ta Lam" "Ponley" "Chob Vari" ...
 $ Village_Code      : chr  "13" "07" "04" "07" ...
 $ Village_Name      : chr  "Chak Kaeut" "Khla Kham Chhkae" "Svay Khmau" "Chreab Chas" ...
 $ Enum_Areas        : int  2 2 3 2 4 2 17 9 5 5 ...
 $ Selected_EA       : int  2 2 2 1 3 1 15 1 1 3 ...
 $ UrbanRural        : int  2 2 2 2 2 2 1 1 1 1 ...
 $ Households        : int  119 141 275 189 462 291 1890 1024 664 503 ...
 $ SurveyMonth       : int  8 8 3 3 5 5 8 8 4 4 ...
 $ HouseholdsInVillage: int  143 182 305 176 550 245 1281 1195 524 503 ...
 $ HouseholdsInListing: int  63 64 112 81 65 67 118 268 105 79 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "17 Jul 2013 14:11"
 - attr(*, "formats")= chr  "%9s" "%9s" "%100s" "%9s" ...
 - attr(*, "types")= int  5 2 100 2 100 2 100 2 100 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "version")= int 12
NULL


## 36 ####  weighthouseholds  ##########
'data.frame':   3840 obs. of  7 variables:
 $ PSU        : chr  "01003" "01003" "01003" "01003" ...
 $ HHID       : chr  "0100301" "0100302" "0100303" "0100304" ...
 $ urbrur     : chr  "2" "2" "2" "2" ...
 $ Stratum    : chr  "2" "2" "2" "2" ...
 $ Poststratum: chr  "12" "12" "12" "12" ...
 $ hhsize     : int  2 5 8 5 5 3 6 3 5 7 ...
 $ hw12a      : num  1237 1237 1237 1237 1237 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "23 Dec 2013 23:45"
 - attr(*, "formats")= chr  "%50s" "%50s" "%50s" "%50s" ...
 - attr(*, "types")= int  50 50 50 50 50 251 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "expansion.fields")=List of 2
  ..$ : chr  "hw12a" "destring" "Characters removed were:"
  ..$ : chr  "hhsize" "destring" "Characters removed were:"
 - attr(*, "version")= int 12
NULL


## 37 ####  weightpersons  ##########
'data.frame':   17644 obs. of  8 variables:
```

```
 $ PersID     : chr  "010030101" "010030102" "010030201" "010030202" ...
 $ PSU        : chr  "01003" "01003" "01003" "01003" ...
 $ HHID       : chr  "0100301" "0100301" "0100302" "0100302" ...
 $ urbrur     : chr  "2" "2" "2" "2" ...
 $ Stratum    : chr  "2" "2" "2" "2" ...
 $ Poststratum: chr  "12" "12" "12" "12" ...
 $ hw12a      : num  1237 1237 1237 1237 1237 ...
 $ pw12a      : num  1044 1044 1284 1222 1339 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "23 Dec 2013 23:42"
 - attr(*, "formats")= chr  "%50s" "%50s" "%50s" "%50s" ...
 - attr(*, "types")= int  50 50 50 50 50 50 255 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "" "" "" "" ...
 - attr(*, "expansion.fields")=List of 2
  ..$ : chr  "pw12a" "destring" "Characters removed were:"
  ..$ : chr  "hw12a" "destring" "Characters removed were:"
 - attr(*, "version")= int 12
NULL
```

Generated list of variable names in each data frame

```
> var.names<-list()
> for(j in 1:37){
+ var.names<-c(var.names,list(attributes(outfiles[[j]])$var.labels))
+ }
```

Unfortunately, no variable label was defined in STATA files.

Chapert 5. Data Check

5.1 Summary of each data file

```
# Displayed the summary of each data file

> for(j in 1:37){
+ cat("##",j,"#### ",Rnames[j]," ##########¥n")
+ print(summary(outfiles[[j]]))
+ cat("¥n¥n")
+ }
## 1 ####  Households  ##########
     HHID               PSU             HHnumber             Males
 Length:3840        Length:3840        Length:3840        Min.    :0.000
 Class :character   Class :character   Class :character   1st Qu.:1.000
 Mode  :character   Mode  :character   Mode  :character   Median :2.000
                                                          Mean   :2.199
                                                          3rd Qu.:3.000
                                                          Max.   :9.000
    Females          Total        SupervisorId          RowDiff
 Min.    :0.000   Min.    : 1.000   Length:3840        Min.    :0
 1st Qu.:2.000   1st Qu.: 3.000   Class :character   1st Qu.:0
 Median :2.000   Median : 4.000   Mode  :character   Median :0
 Mean   :2.395   Mean   : 4.595                      Mean   :0
 3rd Qu.:3.000   3rd Qu.: 6.000                      3rd Qu.:0
 Max.   :8.000   Max.   :15.000                      Max.   :0
    SignOut                       Operator
 Min.    :2012-02-28 19:16:00   Length:3840
 1st Qu.:2012-05-11 22:36:00   Class :character
 Median :2012-12-17 17:50:00   Mode  :character
 Mean   :2012-10-08 09:12:49
 3rd Qu.:2013-02-18 23:57:45
 Max.   :2013-03-28 18:45:00


## 2 ####  HHMembers  ##########
      pkid           hhid             Q01AC01         Q01AC03
 Min.    :    2   Length:17644       Min.    : 1.00   Min.    :1.000
 1st Qu.: 4479   Class :character   1st Qu.: 2.00   1st Qu.:1.000
 Median : 8930   Mode  :character   Median : 3.00   Median :2.000
 Mean   : 8956                      Mean   : 3.16   Mean   :1.521
 3rd Qu.:13445                      3rd Qu.: 4.00   3rd Qu.:2.000
 Max.   :17903                      Max.   :15.00   Max.   :2.000

    Q01AC04A        Q01AC04B         Q01AC04C       Q01AC05
 Min.    : 1.00   Min.    : 1.000   Min.    :1915   Min.    : 0.00
 1st Qu.: 6.00   1st Qu.: 3.000   1st Qu.:1970   1st Qu.:12.00
 Median :11.00   Median : 5.000   Median :1987   Median :25.00
 Mean   :12.67   Mean   : 5.696   Mean   :1984   Mean   :28.09
 3rd Qu.:19.00   3rd Qu.: 8.000   3rd Qu.:1999   3rd Qu.:42.00
 Max.   :31.00   Max.   :12.000   Max.   :2012   Max.   :96.00
 NA's   :75      NA's   :18       NA's   :2
    Q01AC06          Q01AC07          Q01AC08          Q01AC09
```

```
 Min.    : 1.000   Min.    : 1.000   Min.    : 0.000   Min.    :1.000
 1st Qu.: 2.000   1st Qu.: 1.000   1st Qu.: 2.000   1st Qu.:1.000
 Median : 3.000   Median : 1.000   Median : 2.000   Median :1.000
 Mean   : 3.212   Mean   : 1.375   Mean   : 2.065   Mean   :2.229
 3rd Qu.: 3.000   3rd Qu.: 1.000   3rd Qu.: 2.000   3rd Qu.:4.000
 Max.    :15.000   Max.    :14.000   Max.    :11.000   Max.    :4.000
                  NA's   :9759     NA's   :8362     NA's   :4436
    Q01AC10          Q01AC11A         Q01AC11B         Q01AC12A
 Min.    : 0.000   Min.    :1.000   Min.    :1.000   Min.    :0.0000
 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.:1.000   1st Qu.:0.0000
 Median : 2.000   Median :1.000   Median :1.000   Median :0.0000
 Mean   : 1.995   Mean   :1.052   Mean   :1.004   Mean   :0.4189
 3rd Qu.: 2.000   3rd Qu.:1.000   3rd Qu.:1.000   3rd Qu.:0.0000
 Max.    :14.000   Max.    :8.000   Max.    :2.000   Max.    :9.0000
 NA's   :10434    NA's   :17       NA's   :31       NA's   :17
    Q01AC12B         Q01AC12C         Q01AC13          Q01AC14
 Min.    :0.000   Min.    :0.000   Min.    :1.000   Min.    : 0.00
 1st Qu.:0.000   1st Qu.:0.000   1st Qu.:1.000   1st Qu.: 6.00
 Median :0.000   Median :0.000   Median :1.000   Median :12.00
 Mean   :0.409   Mean   :0.443   Mean   :1.047   Mean   :18.93
 3rd Qu.:0.000   3rd Qu.:0.000   3rd Qu.:1.000   3rd Qu.:32.00
 Max.    :9.000   Max.    :9.000   Max.    :2.000   Max.    :52.00
 NA's   :16314    NA's   :17565    NA's   :1        NA's   :16815
  EntryUser            ChangeDate                       Persid
 Length:17644       Min.    :2012-02-21 19:17:00   Length:17644
 Class :character   1st Qu.:2012-04-27 19:26:00   Class :character
 Mode  :character   Median :2012-12-13 19:27:00   Mode  :character
                    Mean   :2012-10-03 21:17:26
                    3rd Qu.:2013-02-18 17:47:00
                    Max.    :2013-03-27 00:41:00


## 3 ####  HHFoodConsumption  ##########
      pkid           hhid              Q01BC01         Q01BC03
 Min.    :    1   Length:57784       Min.    : 1.0   Min.    :     0
 1st Qu.:14586   Class :character   1st Qu.: 5.0   1st Qu.:  2000
 Median :29097   Mode  :character   Median :10.0   Median :  4500
 Mean   :29099                      Mean   :10.1   Mean   :  9633
 3rd Qu.:43621                      3rd Qu.:15.0   3rd Qu.: 12000
 Max.    :58108                      Max.    :21.0   Max.    :520000
                                                   NA's   :5
    Q01BC04          Q01BC05         EntryUser
 Min.    :     0   Min.    :     0   Length:57784
 1st Qu.:     0   1st Qu.:  2000   Class :character
 Median :     0   Median :  5000   Mode  :character
 Mean   :  1264   Mean   : 10898
 3rd Qu.:     0   3rd Qu.: 15000
 Max.    :112000   Max.    :520000
 NA's   :8        NA's   :12
   ChangeDate
 Min.    :2012-02-21 19:18:00
 1st Qu.:2012-05-21 18:21:00
 Median :2012-12-18 18:23:00
 Mean   :2012-10-16 16:34:00
 3rd Qu.:2013-02-14 23:40:00
```

```
 Max.    :2013-03-27 00:45:00


## 4 ####  HHRecallNonFood  ##########
      pkid           HHID             Q01CC01          Q01CC04
 Min.    :   17   Length:40135       Min.    : 1.000   Min.    :       0
 1st Qu.:10342   Class :character   1st Qu.: 4.000   1st Qu.:   12000
 Median :20791   Mode  :character   Median : 6.000   Median :   60000
 Mean   :20788                      Mean   : 7.799   Mean   :  305598
 3rd Qu.:31203                      3rd Qu.:12.000   3rd Qu.:  240000
 Max.    :41382                     Max.    :17.000   Max.    :28000000
                                                     NA's   :3183
    Q01CC05           Q01CC06          EntryUser
 Min.    :      0   Min.    :       0   Length:40135
 1st Qu.:      0   1st Qu.:    8000   Class :character
 Median :      0   Median :   50000   Mode  :character
 Mean   :   2458   Mean   :  288028
 3rd Qu.:      0   3rd Qu.:  200000
 Max.    :2500000   Max.    :28000000
 NA's   :3192      NA's   :15
   ChangeDate
 Min.    :2012-02-21 19:27:00
 1st Qu.:2012-05-23 17:50:00
 Median :2012-12-18 23:40:00
 Mean   :2012-10-22 08:21:11
 3rd Qu.:2013-02-14 18:50:00
 Max.    :2013-06-13 21:32:00


## 5 ####  HHVulnerability  ##########
      pkid            hhid              Q01DQ1          Q01DQ2
 Min.    :   1.0   Length:3843        Min.    :1.000   Min.    :1.000
 1st Qu.: 973.5   Class :character   1st Qu.:1.000   1st Qu.:1.000
 Median :1948.0   Mode  :character   Median :1.000   Median :1.000
 Mean   :1955.1                      Mean   :1.156   Mean   :1.043
 3rd Qu.:2938.5                      3rd Qu.:1.000   3rd Qu.:1.000
 Max.    :3918.0                     Max.    :4.000   Max.    :2.000

     Q01DQ3          Q01DQ4_1        Q01DQ4_2        Q01DQ4_3
 Min.    : 0.000   Min.    :0.00   Min.    :0.000   Min.    :0.000
 1st Qu.: 2.000   1st Qu.:0.00   1st Qu.:0.000   1st Qu.:0.000
 Median : 4.000   Median :0.00   Median :0.000   Median :0.000
 Mean   : 8.096   Mean   :0.12   Mean   :0.114   Mean   :0.084
 3rd Qu.:12.000   3rd Qu.:0.00   3rd Qu.:0.000   3rd Qu.:0.000
 Max.    :32.000   Max.    :1.00   Max.    :1.000   Max.    :1.000
 NA's   :3677     NA's   :3677   NA's   :3677    NA's   :3677
    Q01DQ4_4        Q01DQ4_5        Q01DQ4_6        Q01DQ4_7
 Min.    :0.000   Min.    :0.000   Min.    :0.000   Min.    :0.000
 1st Qu.:0.000   1st Qu.:0.000   1st Qu.:0.000   1st Qu.:0.000
 Median :0.000   Median :0.000   Median :0.000   Median :0.000
 Mean   :0.078   Mean   :0.078   Mean   :0.151   Mean   :0.247
 3rd Qu.:0.000   3rd Qu.:0.000   3rd Qu.:0.000   3rd Qu.:0.000
 Max.    :1.000   Max.    :1.000   Max.    :1.000   Max.    :1.000
 NA's   :3677    NA's   :3677    NA's   :3677    NA's   :3677
```

```
   Q01DQ4_8        Q01DQ4_9       Q01DQ4_10       Q01DQ4_11
 Min.   :0.000   Min.   :0.000   Min.   :0.000   Min.   :0.000
 1st Qu.:0.000   1st Qu.:0.000   1st Qu.:0.000   1st Qu.:0.000
 Median :0.000   Median :1.000   Median :1.000   Median :0.000
 Mean   :0.422   Mean   :0.627   Mean   :0.651   Mean   :0.404
 3rd Qu.:1.000   3rd Qu.:1.000   3rd Qu.:1.000   3rd Qu.:1.000
 Max.   :1.000   Max.   :1.000   Max.   :1.000   Max.   :1.000
 NA's   :3677    NA's   :3677    NA's   :3677    NA's   :3677
  Q01DQ4_12         Q01DQ5       EntryUser
 Min.   :0.000   Min.   :1.000   Length:3843
 1st Qu.:0.000   1st Qu.:1.000   Class :character
 Median :0.000   Median :2.000   Mode  :character
 Mean   :0.313   Mean   :2.012
 3rd Qu.:1.000   3rd Qu.:3.000
 Max.   :1.000   Max.   :3.000
 NA's   :3677    NA's   :3677
  ChangeDate
 Min.   :2012-02-21 19:25:00
 1st Qu.:2012-05-11 18:35:00
 Median :2012-12-14 21:31:00
 Mean   :2012-10-05 20:26:57
 3rd Qu.:2013-02-16 00:57:30
 Max.   :2013-03-27 00:49:00



## 6 ####  PersonEducation  ##########
      pkid           hhid              Q02C01           Q02C1b
 Min.   :    1   Length:16754       Min.   : 1.000   Min.   : 1.00
 1st Qu.: 4220   Class :character   1st Qu.: 2.000   1st Qu.: 1.00
 Median : 8436   Mode  :character   Median : 3.000   Median : 2.00
 Mean   : 8430                      Mean   : 3.054   Mean   : 2.15
 3rd Qu.:12634                      3rd Qu.: 4.000   3rd Qu.: 2.00
 Max.   :16843                      Max.   :15.000   Max.   :14.00
                                                     NA's   :13
    Q02C02       Q02C03          Q02C04          Q02C05
 Min.   :1   Min.   :1.000   Min.   :1.000   Min.   : 0.00
 1st Qu.:1   1st Qu.:1.000   1st Qu.:1.000   1st Qu.: 4.00
 Median :1   Median :1.000   Median :1.000   Median : 6.00
 Mean   :1   Mean   :1.267   Mean   :1.177   Mean   : 6.34
 3rd Qu.:1   3rd Qu.:2.000   3rd Qu.:1.000   3rd Qu.: 9.00
 Max.   :1   Max.   :2.000   Max.   :2.000   Max.   :20.00
             NA's   :3       NA's   :3       NA's   :2968
    Q02C06          Q02C07          Q02C08          Q02C09
 Min.   : 0.000   Min.   :1.000   Min.   : 0.000   Min.   :1.000
 1st Qu.: 4.000   1st Qu.:1.000   1st Qu.: 3.000   1st Qu.:1.000
 Median : 6.000   Median :2.000   Median : 5.000   Median :1.000
 Mean   : 8.383   Mean   :1.691   Mean   : 6.074   Mean   :1.064
 3rd Qu.: 9.000   3rd Qu.:2.000   3rd Qu.: 9.000   3rd Qu.:1.000
 Max.   :88.000   Max.   :2.000   Max.   :21.000   Max.   :2.000
 NA's   :2967     NA's   :2972    NA's   :12499    NA's   :12499
    Q02C10          Q02C11          Q02C12          Q02C13
 Min.   :1.000   Min.   : 1.000   Min.   :1.000   Min.   :1.000
 1st Qu.:1.000   1st Qu.: 6.000   1st Qu.:2.000   1st Qu.:1.000
 Median :2.000   Median :11.000   Median :2.000   Median :1.000
 Mean   :1.723   Mean   : 8.572   Mean   :1.951   Mean   :1.278
```

```
 3rd Qu.:2.000   3rd Qu.:11.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.   :2.000   Max.   :12.000   Max.   :2.000   Max.   :2.000
 NA's   :12499   NA's   :15130                   NA's   :15935
     Q02C14          Q02C15          Q02C16A          Q02C16B
 Min.   :1.000   Min.   :1.000   Min.   :      0   Min.   :      0
 1st Qu.:4.000   1st Qu.:2.000   1st Qu.:      0   1st Qu.:      0
 Median :4.000   Median :2.000   Median :      0   Median :      0
 Mean   :3.918   Mean   :1.753   Mean   : 173576   Mean   :  92435
 3rd Qu.:4.000   3rd Qu.:2.000   3rd Qu.:      0   3rd Qu.:      0
 Max.   :6.000   Max.   :2.000   Max.   :14000000   Max.   :7400000
 NA's   :16169   NA's   :1       NA's   :12620      NA's   :12624
    Q02C16C          Q02C16D          Q02C16E          Q02C16F
 Min.   :      0   Min.   :      0   Min.   :      0   Min.   :      0
 1st Qu.:  10000   1st Qu.:  11000   1st Qu.: 100000   1st Qu.:      0
 Median :  20000   Median :  25000   Median : 200000   Median :      0
 Mean   :  43747   Mean   :  47667   Mean   : 340233   Mean   :  63643
 3rd Qu.:  40000   3rd Qu.:  50000   3rd Qu.: 400000   3rd Qu.:      0
 Max.   :2000000   Max.   :1200000   Max.   :8640000   Max.   :4000000
 NA's   :12622     NA's   :12622     NA's   :12622     NA's   :12623
    Q02C16G          Q02C16H          EntryUser
 Min.   :     0   Min.   :       0   Length:16754
 1st Qu.:     0   1st Qu.:  161000   Class :character
 Median :     0   Median :  305000   Mode  :character
 Mean   :  2530   Mean   :  764658
 3rd Qu.:  2000   3rd Qu.:  786125
 Max.   :400000   Max.   :14950000
 NA's   :12623    NA's   :12622
   ChangeDate                      Persid
 Min.   :2012-02-21 19:25:00   Length:16754
 1st Qu.:2012-04-28 01:05:00   Class :character
 Median :2012-12-14 18:48:00   Mode  :character
 Mean   :2012-10-04 15:35:53
 3rd Qu.:2013-02-18 18:41:00
 Max.   :2013-03-28 18:45:00



## 7 ####  HHHousing  ##########
      pkid          hhid              Q04_01          Q04_02
 Min.   :   1   Length:3841        Min.   :1.000   Min.   :  4.00
 1st Qu.: 961   Class :character   1st Qu.:1.000   1st Qu.: 30.00
 Median :1921   Mode  :character   Median :1.000   Median : 42.00
 Mean   :1929                      Mean   :1.046   Mean   : 46.84
 3rd Qu.:2901                      3rd Qu.:1.000   3rd Qu.: 56.00
 Max.   :3865                      Max.   :9.000   Max.   :475.00

     Q04_03          Q04_04          Q04_05          Q04_06
 Min.   : 1.000   Min.   :1.000   Min.   :1.00   Min.   :1.000
 1st Qu.: 1.000   1st Qu.:2.000   1st Qu.:2.00   1st Qu.:2.000
 Median : 1.000   Median :2.000   Median :4.00   Median :2.000
 Mean   : 1.517   Mean   :2.555   Mean   :3.54   Mean   :3.447
 3rd Qu.: 2.000   3rd Qu.:4.000   3rd Qu.:4.00   3rd Qu.:4.000
 Max.   :12.000   Max.   :9.000   Max.   :9.00   Max.   :9.000

     Q04_07          Q04_08          Q04_09          Q04_10M1
 Min.   :1.000   Min.   : 1.000   Min.   :  0.00   Min.   :1.000
```

```
1st Qu.:1.000   1st Qu.: 1.000   1st Qu.:   5.00   1st Qu.:1.000
Median :1.000   Median : 4.000   Median :  10.00   Median :1.000
Mean   :2.177   Mean   : 4.586   Mean   :  42.89   Mean   :1.397
3rd Qu.:3.000   3rd Qu.: 9.000   3rd Qu.:  30.00   3rd Qu.:1.000
Max.   :8.000   Max.   :13.000   Max.   :7000.00   Max.   :9.000
                NA's   :2        NA's   :2180      NA's   :2286
   Q04_10M2        Q04_10M3         Q04_11           Q04_12
Min.   :1.000   Min.   :1.000   Min.   :  2.00   Min.   : 1.000
1st Qu.:2.000   1st Qu.:3.000   1st Qu.: 10.00   1st Qu.: 1.000
Median :2.000   Median :3.000   Median : 20.00   Median : 3.000
Mean   :2.388   Mean   :3.425   Mean   : 21.99   Mean   : 3.938
3rd Qu.:3.000   3rd Qu.:4.000   3rd Qu.: 30.00   3rd Qu.: 6.000
Max.   :9.000   Max.   :9.000   Max.   :300.00   Max.   :13.000
NA's   :2476    NA's   :3224    NA's   :2288
    Q04_13          Q04_14M1         Q04_14M2         Q04_14M3
Min.   :   0.00   Min.   : 1.000   Min.   : 1.000   Min.   :1.000
1st Qu.:   6.00   1st Qu.: 1.000   1st Qu.: 2.000   1st Qu.:3.000
Median :  15.00   Median : 1.000   Median : 2.000   Median :3.000
Mean   :  62.59   Mean   : 1.414   Mean   : 2.382   Mean   :3.471
3rd Qu.:  50.00   3rd Qu.: 1.000   3rd Qu.: 2.750   3rd Qu.:4.000
Max.   :7000.00   Max.   :10.000   Max.   :14.000   Max.   :9.000
NA's   :1462      NA's   :1715     NA's   :2015     NA's   :3056
    Q04_15          Q04_16          Q04_17          Q04_18A
Min.   :  1.00   Min.   :     0   Min.   :1.000   Min.   :1.000
1st Qu.: 15.00   1st Qu.:     0   1st Qu.:1.000   1st Qu.:1.000
Median : 25.00   Median :     0   Median :1.000   Median :1.000
Mean   : 27.41   Mean   :  9923   Mean   :1.428   Mean   :1.127
3rd Qu.: 32.00   3rd Qu.: 17000   3rd Qu.:2.000   3rd Qu.:1.000
Max.   :300.00   Max.   :120000   Max.   :3.000   Max.   :2.000
NA's   :1725                                     NA's   :655
   Q04_18B         Q04_18C         Q04_18D         Q04_18E
Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   :1.000
1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000
Median :2.000   Median :2.000   Median :2.000   Median :2.000
Mean   :1.808   Mean   :1.998   Mean   :1.999   Mean   :1.988
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000
Max.   :2.000   Max.   :2.000   Max.   :2.000   Max.   :2.000
NA's   :655     NA's   :655     NA's   :655     NA's   :655
   Q04_19A         Q04_19B          Q04_20           Q04_21
Min.   :1.000   Min.   :1.000   Min.   :     0.0   Min.   :     0
1st Qu.:2.000   1st Qu.:1.000   1st Qu.:     0.0   1st Qu.:     0
Median :2.000   Median :1.000   Median :     0.0   Median :     0
Mean   :4.066   Mean   :1.896   Mean   :   417.4   Mean   :  1207
3rd Qu.:7.000   3rd Qu.:3.000   3rd Qu.:     0.0   3rd Qu.:     0
Max.   :8.000   Max.   :4.000   Max.   :240000.0   Max.   :120000
                NA's   :3
   Q04_22A         Q04_22B         Q04_22C1        Q04_22C2
Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   : 1.000
1st Qu.:1.000   1st Qu.:1.000   1st Qu.:1.000   1st Qu.: 2.000
Median :1.000   Median :2.000   Median :1.000   Median : 2.000
Mean   :1.595   Mean   :1.723   Mean   :1.384   Mean   : 2.449
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:1.000   3rd Qu.: 3.000
Max.   :8.000   Max.   :2.000   Max.   :9.000   Max.   :10.000
                NA's   :878     NA's   :1698    NA's   :2187
   Q04_22C3        Q04_22D          Q04_23A          Q04_23B
Min.   : 1.000   Min.   : 0.000   Min.   :     0   Min.   :     0
```

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 1st Qu.: 3.000   1st Qu.: 2.000   1st Qu.:     0   1st Qu.:     0
 Median : 3.000   Median : 3.000   Median : 10000   Median :     0
 Mean   : 3.626   Mean   : 3.972   Mean   : 31823   Mean   : 10302
 3rd Qu.: 4.000   3rd Qu.: 5.000   3rd Qu.: 42000   3rd Qu.: 10000
 Max.   :13.000   Max.   :60.000   Max.   :800000   Max.   :180000
 NA's   :3247     NA's   :1734
    Q04_23C          Q04_23D          Q04_23E          Q04_23F
 Min.   :    0   Min.   :     0   Min.   :     0   Min.   :    0
 1st Qu.:    0   1st Qu.:     0   1st Qu.:     0   1st Qu.:    0
 Median :    0   Median : 20000   Median :     0   Median :    0
 Mean   : 1866   Mean   : 23123   Mean   :  4864   Mean   : 3735
 3rd Qu.: 1500   3rd Qu.: 30000   3rd Qu.:  3000   3rd Qu.: 6000
 Max.   :80000   Max.   :500000   Max.   :150000   Max.   :98000

    Q04_23G             Q04_24        Q04_25A           Q04_25B
 Min.   :     0.0   Min.   :1.00   Min.   :  30000   Min.   :   5000
 1st Qu.:     0.0   1st Qu.:1.00   1st Qu.: 120000   1st Qu.:  60000
 Median :     0.0   Median :1.00   Median : 180000   Median : 100000
 Mean   :   683.5   Mean   :1.12   Mean   : 353448   Mean   : 237953
 3rd Qu.:     0.0   3rd Qu.:1.00   3rd Qu.: 400000   3rd Qu.: 237500
 Max.   :300000.0   Max.   :4.00   Max.   :2800000   Max.   :6000000
                    NA's   :9      NA's   :3686      NA's   :155
     Q04_26          EntryUser           ChangeDate
 Min.   :      0   Length:3841        Min.   :2012-02-21 19:36:00
 1st Qu.:      0   Class :character   1st Qu.:2012-05-11 18:30:00
 Median :      0   Mode  :character   Median :2012-12-14 21:23:00
 Mean   :   2130                      Mean   :2012-10-05 19:49:36
 3rd Qu.:      0                      3rd Qu.:2013-02-16 01:06:00
 Max.   :1000000                      Max.   :2013-03-27 19:23:00
 NA's   :26


## 8 ####  HHLandOwnership  ##########
      pkid          hhid             Q05AC01          Q05AC02
 Min.   :   4   Length:3781        Min.   : 1.000   Min.   :     50
 1st Qu.: 969   Class :character   1st Qu.: 1.000   1st Qu.:   2760
 Median :1918   Mode  :character   Median : 1.000   Median :   5000
 Mean   :1915                      Mean   : 1.653   Mean   :  10236
 3rd Qu.:2867                      3rd Qu.: 2.000   3rd Qu.:  10000
 Max.   :3815                      Max.   :13.000   Max.   :1300000

    Q05AC03          Q05AC04A           Q05AC04B         Q05AC04C
 Min.   :1.000   Min.   :       2   Min.   :1.000   Min.   :1.000
 1st Qu.:1.000   1st Qu.:     500   1st Qu.:1.000   1st Qu.:2.000
 Median :1.000   Median :  100000   Median :1.000   Median :2.000
 Mean   :1.177   Mean   :  373871   Mean   :1.405   Mean   :2.469
 3rd Qu.:1.000   3rd Qu.:  390000   3rd Qu.:2.000   3rd Qu.:3.000
 Max.   :4.000   Max.   :24000000   Max.   :3.000   Max.   :3.000
                 NA's   :383        NA's   :382     NA's   :402
    Q05AC05A            Q05AC05B        Q05AC05C         Q05AC06A
 Min.   :       48   Min.   :1.00   Min.   :2.000   Min.   :       48
 1st Qu.:      300   1st Qu.:1.00   1st Qu.:2.000   1st Qu.:      485
 Median :     1000   Median :2.00   Median :3.000   Median :    80000
 Mean   :   622787   Mean   :1.54   Mean   :2.544   Mean   :   701903
 3rd Qu.:   300000   3rd Qu.:2.00   3rd Qu.:3.000   3rd Qu.:   495000
 Max.   :70000000   Max.   :2.00   Max.   :3.000   Max.   :50000000
```

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NA's   :3542       NA's   :3542   NA's   :3542    NA's   :3639
   Q05AC06B        Q05AC06C        Q05AC07          Q05AC08
Min.   :1.000   Min.   :2.000   Min.   : 1.000   Min.   :1959
1st Qu.:1.000   1st Qu.:2.000   1st Qu.: 1.000   1st Qu.:1983
Median :1.000   Median :2.000   Median : 1.000   Median :1993
Mean   :1.451   Mean   :2.465   Mean   : 1.974   Mean   :1993
3rd Qu.:2.000   3rd Qu.:3.000   3rd Qu.: 2.000   3rd Qu.:2003
Max.   :2.000   Max.   :3.000   Max.   :10.000   Max.   :2012
NA's   :3639    NA's   :3639    NA's   :5
   Q05AC09         Q05AC10             Q05AC11              Q05AC12
Min.   :1.00   Min.   :    50000   Min.   :1.000e+05   Min.   :1.000
1st Qu.:1.00   1st Qu.:   880000   1st Qu.:4.000e+06   1st Qu.:1.000
Median :2.00   Median :  2500000   Median :8.000e+06   Median :1.000
Mean   :2.36   Mean   :  8945481   Mean   :1.555e+07   Mean   :1.454
3rd Qu.:3.00   3rd Qu.:  8000000   3rd Qu.:1.600e+07   3rd Qu.:2.000
Max.   :8.00   Max.   :500000000   Max.   :1.400e+09   Max.   :4.000
               NA's   :3164
   Q05AC13A        Q05AC13B        Q05AC14         Q05AC15
Min.   :1.000   Min.   :1.00   Min.   :1.000   Min.   : 1.000
1st Qu.:3.000   1st Qu.:3.00   1st Qu.:1.000   1st Qu.: 1.000
Median :4.000   Median :4.00   Median :3.000   Median : 1.000
Mean   :3.353   Mean   :4.12   Mean   :2.385   Mean   : 5.816
3rd Qu.:4.000   3rd Qu.:4.00   3rd Qu.:3.000   3rd Qu.: 1.000
Max.   :7.000   Max.   :8.00   Max.   :7.000   Max.   :99.000
NA's   :1523    NA's   :1523   NA's   :1526
   Q05AC16A        Q05AC16B        Q05AC16C       Q05AC17
Min.   :1.00   Min.   :1.000   Min.   : NA    Min.   :1.000
1st Qu.:1.00   1st Qu.:2.000   1st Qu.: NA    1st Qu.:1.000
Median :1.00   Median :2.000   Median : NA    Median :3.000
Mean   :1.43   Mean   :2.471   Mean   :NaN    Mean   :2.736
3rd Qu.:1.00   3rd Qu.:3.000   3rd Qu.: NA    3rd Qu.:4.000
Max.   :6.00   Max.   :4.000   Max.   : NA    Max.   :4.000
NA's   :18     NA's   :3730    NA's   :3781
   Q05AC18A        Q05AC18B       Q05AC18C       Q05AC19
Min.   :1.000   Min.   :2      Min.   : NA    Min.   :1979
1st Qu.:1.000   1st Qu.:2      1st Qu.: NA    1st Qu.:1992
Median :1.000   Median :2      Median : NA    Median :2001
Mean   :1.205   Mean   :2      Mean   :NaN    Mean   :2000
3rd Qu.:1.000   3rd Qu.:2      3rd Qu.: NA    3rd Qu.:2008
Max.   :8.000   Max.   :2      Max.   : NA    Max.   :2012
                NA's   :3780   NA's   :3781   NA's   :3458
   Q05AC20         Q05AC21        Q05AC22        EntryUser
Min.   :1.000   Min.   :1979   Min.   :1.000   Length:3781
1st Qu.:1.000   1st Qu.:1983   1st Qu.:3.000   Class :character
Median :1.000   Median :1992   Median :3.000   Mode  :character
Mean   :1.091   Mean   :1993   Mean   :2.978
3rd Qu.:1.000   3rd Qu.:2002   3rd Qu.:3.000
Max.   :2.000   Max.   :2012   Max.   :3.000
                NA's   :348
  ChangeDate
Min.   :2012-02-21 19:44:00
1st Qu.:2012-04-25 23:32:00
Median :2012-12-05 18:28:00
Mean   :2012-09-25 12:56:31
3rd Qu.:2013-02-14 17:52:00
Max.   :2013-03-27 00:51:00
```

```
## 9 ####  HHProductionCrops  ##########
      pkid          hhid             WetDry         Q05BC01
 Min.   :   1   Length:4036        Min.   :1.000   Min.   : 1.000
 1st Qu.:1033   Class :character   1st Qu.:1.000   1st Qu.: 1.000
 Median :2046   Mode  :character   Median :1.000   Median : 1.000
 Mean   :2053                      Mean   :1.243   Mean   : 1.585
 3rd Qu.:3075                      3rd Qu.:1.000   3rd Qu.: 2.000
 Max.   :4101                      Max.   :2.000   Max.   :10.000

   Q05BC02         Q05BC03B           Q05BC04          Q05BC05
 Min.   : 1.000   Length:4036        Min.   :    24   Min.   :     0
 1st Qu.: 1.000   Class :character   1st Qu.:  2500   1st Qu.:  2000
 Median : 1.000   Mode  :character   Median :  5000   Median :  5000
 Mean   : 1.661                      Mean   :  8750   Mean   :  7636
 3rd Qu.: 2.000                      3rd Qu.: 10000   3rd Qu.: 10000
 Max.   :10.000                      Max.   :500000   Max.   :200000
                                     NA's   :1        NA's   :115
   Q05BC06           Q05BC07           Q05BC08           Q05BC09
 Min.   :      0   Min.   :    0.0   Min.   :    0.00   Min.   :    0
 1st Qu.:    380   1st Qu.:    0.0   1st Qu.:    0.00   1st Qu.:  800
 Median :    970   Median :    7.0   Median :    0.00   Median : 1000
 Mean   :   5799   Mean   :   29.1   Mean   :   63.12   Mean   : 1084
 3rd Qu.:   2000   3rd Qu.:   20.0   3rd Qu.:   12.00   3rd Qu.: 1100
 Max.   :3000000   Max.   :11600.0   Max.   :20000.00   Max.   :17000
 NA's   :14        NA's   :17        NA's   :23         NA's   :15
   PastYear     EntryUser           ChangeDate
 Min.   :2001   Length:4036        Min.   :2012-02-21 19:45:00
 1st Qu.:2011   Class :character   1st Qu.:2012-04-25 23:59:45
 Median :2011   Mode  :character   Median :2012-12-06 18:52:00
 Mean   :2011                      Mean   :2012-09-26 02:11:30
 3rd Qu.:2011                      3rd Qu.:2013-02-15 20:41:45
 Max.   :2012                      Max.   :2013-03-26 23:59:00


## 10 ####  HHCostCultivationCrops  ##########
      pkid          hhid             WetDry         Q05CC01
 Min.   :   1   Length:4034        Min.   :1.000   Min.   : 1.000
 1st Qu.:1011   Class :character   1st Qu.:1.000   1st Qu.: 1.000
 Median :2020   Mode  :character   Median :1.000   Median : 1.000
 Mean   :2020                      Mean   :1.244   Mean   : 1.588
 3rd Qu.:3030                      3rd Qu.:1.000   3rd Qu.: 2.000
 Max.   :4040                      Max.   :2.000   Max.   :10.000

   Q05CC02         Q05CC03           Q05CC04           Q05CC05
 Min.   :1.000   Min.   :       0   Min.   :       0   Min.   :      0
 1st Qu.:1.000   1st Qu.:   19200   1st Qu.:       0   1st Qu.:      0
 Median :1.000   Median :   50000   Median :  100000   Median :      0
 Mean   :1.635   Mean   :  142162   Mean   :  235969   Mean   :  29682
 3rd Qu.:2.000   3rd Qu.:  120000   3rd Qu.:  250000   3rd Qu.:  40000
 Max.   :7.000   Max.   :12000000   Max.   :25000000   Max.   :1500000
                                    NA's   :2          NA's   :1
   Q05CC06           Q05CC07           Q05CC08           Q05CC09
```

```
 Min.    :       0.0   Min.    :       0   Min.    :       0   Min.    :       0
 1st Qu.:       0.0   1st Qu.:       0   1st Qu.:       0   1st Qu.:       0
 Median :       0.0   Median :       0   Median :    4000   Median :       0
 Mean   :     532.5   Mean   :   56569   Mean   :   16437   Mean   :  131359
 3rd Qu.:       0.0   3rd Qu.:   20000   3rd Qu.:   16000   3rd Qu.:  130000
 Max.   :1716000.0   Max.   :9500000   Max.   :4620000   Max.   :40000000
 NA's   :4           NA's   :1         NA's   :1         NA's   :1
    Q05CC10             Q05CC11             Q05CC12             Q05CC13
 Min.    :       0   Min.    :       0   Min.    :     0.0   Min.    :       0
 1st Qu.:       0   1st Qu.:       0   1st Qu.:     0.0   1st Qu.:       0
 Median :       0   Median :       0   Median :     0.0   Median :       0
 Mean   :  139670   Mean   :   13948   Mean   :   244.2   Mean   :   19526
 3rd Qu.:  140000   3rd Qu.:       0   3rd Qu.:     0.0   3rd Qu.:       0
 Max.   :28000000   Max.   :3000000   Max.   :960000.0   Max.   :10000000
                                       NA's   :1
    Q05CC14             Q05CC15             Q05CC16           EntryUser
 Min.    :       0   Min.    :       0   Min.    :       0   Length:4034
 1st Qu.:       0   1st Qu.:       0   1st Qu.:  166000   Class :character
 Median :       0   Median :       0   Median :  390000   Mode  :character
 Mean   :    3559   Mean   :   10696   Mean   :  799915
 3rd Qu.:       0   3rd Qu.:       0   3rd Qu.:  829700
 Max.   :1200000   Max.   :4000000   Max.   :54500000
 NA's   :3         NA's   :1         NA's   :2
   ChangeDate
 Min.   :2012-02-21 19:46:00
 1st Qu.:2012-04-26 00:00:15
 Median :2012-12-06 01:12:00
 Mean   :2012-09-25 20:58:05
 3rd Qu.:2013-02-14 21:11:00
 Max.   :2013-03-27 00:00:00
```

```
## 11 ####  HHInventoryCrops  ##########
      pkid             hhid              Q05DC01      Q05DC02B
 Min.    :   1.0   Length:1916        Min.   :1.0   Length:1916
 1st Qu.: 479.8   Class :character   1st Qu.:1.0   Class :character
 Median : 960.5   Mode  :character   Median :1.0   Mode  :character
 Mean   : 960.4                      Mean   :1.2
 3rd Qu.:1441.2                      3rd Qu.:1.0
 Max.   :1921.0                      Max.   :4.0
    Q05DC03          Q05DC04       EntryUser
 Min.    :    0   Min.    :    0   Length:1916
 1st Qu.:  480   1st Qu.:  900   Class :character
 Median :  900   Median : 1000   Mode  :character
 Mean   : 1243   Mean   : 1109
 3rd Qu.: 1500   3rd Qu.: 1100
 Max.   :26000   Max.   :80000
   ChangeDate
 Min.   :2012-02-21 19:47:00
 1st Qu.:2012-05-11 23:56:45
 Median :2012-12-06 20:00:00
 Mean   :2012-09-30 02:35:14
 3rd Qu.:2013-02-18 18:41:15
 Max.   :2013-03-26 20:49:00
```

```
## 12 ####  HHSalesCrops  ##########
      pkid            hhid             Q05D1C1        Q05D1C2
 Min.   :   1.0   Length:1625        Min.   :1.000   Length:1625
 1st Qu.: 414.0   Class :character   1st Qu.:1.000   Class :character
 Median : 827.0   Mode  :character   Median :1.000   Mode  :character
 Mean   : 826.4                      Mean   :1.284
 3rd Qu.:1239.0                      3rd Qu.:1.000
 Max.   :1651.0                      Max.   :5.000

    Q05D1C3         Q05D1C4       EntryUser
 Min.   :   10   Min.   :   80   Length:1625
 1st Qu.:  500   1st Qu.:  800   Class :character
 Median : 1000   Median : 1000   Mode  :character
 Mean   : 3412   Mean   : 1358
 3rd Qu.: 3000   3rd Qu.: 1200
 Max.   :99000   Max.   :55000
                 NA's   :2
   ChangeDate
 Min.   :2012-02-21 19:48:00
 1st Qu.:2012-05-17 18:18:00
 Median :2012-12-11 18:22:00
 Mean   :2012-09-30 01:56:45
 3rd Qu.:2013-02-15 18:31:00
 Max.   :2013-03-27 01:46:00



## 13 ####  HHLivestock1  ##########
      pkid            hhid             Q05E1C01         Q05E1C03
 Min.   :    1   Length:20526       Min.   : 1.000   Min.   :1.000
 1st Qu.: 5158   Class :character   1st Qu.: 3.000   1st Qu.:2.000
 Median :10326   Mode  :character   Median : 5.000   Median :2.000
 Mean   :10321                      Mean   : 5.488   Mean   :1.811
 3rd Qu.:15482                      3rd Qu.: 8.000   3rd Qu.:2.000
 Max.   :20639                      Max.   :10.000   Max.   :2.000

    Q05E1C04          Q05E1C05         Q05E1C06           Q05E1C7a
 Min.   :  0.000   Min.   : 0.000   Min.   :       0   Min.   :   0.0
 1st Qu.:  2.000   1st Qu.: 1.000   1st Qu.:   80000   1st Qu.:   2.0
 Median :  4.000   Median : 1.000   Median :  200000   Median :   5.0
 Mean   :  8.748   Mean   : 1.649   Mean   : 1672451   Mean   :  12.4
 3rd Qu.: 10.000   3rd Qu.: 2.000   3rd Qu.: 2000000   3rd Qu.:  16.0
 Max.   :520.000   Max.   :20.000   Max.   :68000000   Max.   :3000.0
 NA's   :16655     NA's   :18782    NA's   :16657      NA's   :16656
    Q05E1C7b          Q05E1C08          Q05E1C09          Q05E1C10
 Min.   :   0.00   Min.   :       0   Min.   :       0   Min.   :       0
 1st Qu.:   2.00   1st Qu.:   80000   1st Qu.:       0   1st Qu.:       0
 Median :   4.00   Median :  200000   Median :       0   Median :       0
 Mean   :  10.05   Mean   : 1569198   Mean   :  396590   Mean   :  123574
 3rd Qu.:  12.00   3rd Qu.: 1995000   3rd Qu.:  100000   3rd Qu.:       0
 Max.   :2100.00   Max.   :67000000   Max.   :19000000   Max.   :40000000
 NA's   :16659     NA's   :16680      NA's   :16657      NA's   :16660
    Q05E1C11          Q05E1C12          Q05E1C13          Q05E1C14
 Min.   :      0   Min.   :      0   Min.   :       0   Min.   :     0
 1st Qu.:      0   1st Qu.:      0   1st Qu.:       0   1st Qu.:     0
```

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 Median :      0   Median :      0   Median :       0   Median :     0
 Mean   :  39376   Mean   :   2719   Mean   :   11489   Mean   : 24806
 3rd Qu.:  60000   3rd Qu.:      0   3rd Qu.:       0   3rd Qu.: 20000
 Max.   :6600000   Max.   :2000000   Max.   :29700000   Max.   :750000
 NA's   :16656     NA's   :16657     NA's   :16658      NA's   :16660
    Q05E1C15          EntryUser           Changedate
 Min.   :     0.0   Length:20526       Min.   :2012-02-21 19:36:00
 1st Qu.:     0.0   Class :character   1st Qu.:2012-04-25 02:21:00
 Median :     0.0   Mode  :character   Median :2012-12-06 18:25:00
 Mean   :   434.5                      Mean   :2012-09-24 09:06:16
 3rd Qu.:     0.0                      3rd Qu.:2013-02-16 00:07:45
 Max.   :540000.0                      Max.   :2013-03-26 21:19:00
 NA's   :16663


## 14 ####  HHLivestock2  ##########
      pkid            hhid             Q05E2C01        Q05E2C03
 Min.   :   1.0   Length:3898        Min.   :1.000   Min.   :       0
 1st Qu.: 978.2   Class :character   1st Qu.:1.000   1st Qu.:   12000
 Median :1971.5   Mode  :character   Median :2.000   Median :   60000
 Mean   :1966.0                      Mean   :2.348   Mean   :  189579
 3rd Qu.:2950.8                      3rd Qu.:4.000   3rd Qu.:  195000
 Max.   :3930.0                      Max.   :6.000   Max.   :10000000
                                                     NA's   :1
  EntryUser           ChangeDate
 Length:3898        Min.   :2012-02-21 19:38:00
 Class :character   1st Qu.:2012-05-02 19:24:00
 Mode  :character   Median :2012-12-11 18:27:00
                    Mean   :2012-10-03 10:09:15
                    3rd Qu.:2013-02-12 18:17:45
                    Max.   :2013-03-26 21:19:00


## 15 ####  HHFishCultivation1  ##########
      pkid            hhid             Q05F1C01        Q05F1C02
 Min.   : 1.00   Length:82          Min.   :1.000   Min.   :1.000
 1st Qu.:22.25   Class :character   1st Qu.:1.000   1st Qu.:1.000
 Median :42.50   Mode  :character   Median :1.000   Median :1.000
 Mean   :42.45                      Mean   :1.012   Mean   :1.073
 3rd Qu.:62.75                      3rd Qu.:1.000   3rd Qu.:1.000
 Max.   :83.00                      Max.   :2.000   Max.   :5.000
    Q05F1C03         Q05F1C04          Q05F1C05       EntryUser
 Min.   :   6.0   Min.   :   60000   Min.   :  5000   Length:82
 1st Qu.:  32.0   1st Qu.: 1000000   1st Qu.: 13500   Class :character
 Median : 100.0   Median : 2000000   Median : 27500   Mode  :character
 Mean   : 289.7   Mean   : 3510829   Mean   : 64342
 3rd Qu.: 300.0   3rd Qu.: 4000000   3rd Qu.: 60000
 Max.   :4800.0   Max.   :32000000   Max.   :400000
   ChangeDate
 Min.   :2012-02-21 19:54:00
 1st Qu.:2012-03-07 18:28:00
 Median :2012-06-13 10:45:30
 Mean   :2012-08-15 10:46:37
 3rd Qu.:2013-02-07 19:02:00
 Max.   :2013-03-15 00:29:00
```

```
## 16 ####  HHFishCultivation2  ##########
      pkid          hhid             Q05F2C01         Q05F2C03
 Min.   :   3   Length:2614        Min.   : 1.000   Min.   :       0
 1st Qu.: 664   Class :character   1st Qu.: 5.000   1st Qu.:       0
 Median :1342   Mode  :character   Median : 5.000   Median :   18000
 Mean   :1339                      Mean   : 5.478   Mean   :  163064
 3rd Qu.:2010                      3rd Qu.: 5.000   3rd Qu.:   50000
 Max.   :2677                      Max.   :12.000   Max.   :97200000
  EntryUser           ChangeDate
 Length:2614        Min.   :2012-02-21 19:40:00
 Class :character   1st Qu.:2012-05-18 18:18:30
 Mode  :character   Median :2012-12-27 18:27:30
                    Mean   :2012-10-20 14:45:25
                    3rd Qu.:2013-02-20 18:27:00
                    Max.   :2013-03-26 20:51:00


## 17 ####  HHFishCultivation3  ##########
      pkid           hhid             Q05F3C01        Q05F3C03
 Min.   :   1.0   Length:3683        Min.   :1.000   Min.   :       0
 1st Qu.: 929.5   Class :character   1st Qu.:2.000   1st Qu.:   40000
 Median :1864.0   Mode  :character   Median :2.000   Median :  100000
 Mean   :1866.6                      Mean   :2.603   Mean   :  330604
 3rd Qu.:2799.5                      3rd Qu.:3.000   3rd Qu.:  250000
 Max.   :3738.0                      Max.   :7.000   Max.   :36000000
  EntryUser           ChangeDate
 Length:3683        Min.   :2012-02-21 19:40:00
 Class :character   1st Qu.:2012-05-12 00:37:30
 Mode  :character   Median :2012-12-12 17:47:00
                    Mean   :2012-10-09 05:25:03
                    3rd Qu.:2013-02-15 09:32:30
                    Max.   :2013-03-26 20:52:00


## 18 ####  HHForestryHunting1  ##########
      pkid          hhid             Q05G1C01         Q05G1C03
 Min.   :   1   Length:5851        Min.   : 1.000   Min.   :      0
 1st Qu.:1478   Class :character   1st Qu.: 2.000   1st Qu.:      0
 Median :2948   Mode  :character   Median : 4.000   Median :      0
 Mean   :2946                      Mean   : 4.339   Mean   :  35116
 3rd Qu.:4418                      3rd Qu.: 6.000   3rd Qu.:      0
 Max.   :5882                      Max.   :10.000   Max.   :6000000
                                                    NA's   :4
    Q05G1C04          Q05G1C05           Q05G1C06       EntryUser
 Min.   :      0   Min.   :     0.0   Min.   :      0   Length:5851
 1st Qu.:  40000   1st Qu.:     0.0   1st Qu.:  40000   Class :character
 Median : 100000   Median :     0.0   Median : 120000   Mode  :character
 Mean   : 189032   Mean   :   938.2   Mean   : 225786
 3rd Qu.: 300000   3rd Qu.:     0.0   3rd Qu.: 350000
 Max.   :4000000   Max.   :120000.0   Max.   :6096000
                   NA's   :2
   ChangeDate
 Min.   :2012-02-21 19:40:00
 1st Qu.:2012-05-02 17:55:00
```

```
 Median :2012-12-06 20:14:00
 Mean   :2012-10-03 11:01:55
 3rd Qu.:2013-02-13 19:14:30
 Max.   :2013-03-27 00:07:00


## 19 ####  HHForestryHunting2  ##########
      pkid          hhid             Q05G2C01        Q05G2C03
 Min.   :   1   Length:6645        Min.   :1.000   Min.   :      0
 1st Qu.:1680   Class :character   1st Qu.:2.000   1st Qu.:      0
 Median :3350   Mode  :character   Median :5.000   Median :      0
 Mean   :3350                      Mean   :4.052   Mean   :   7813
 3rd Qu.:5023                      3rd Qu.:5.000   3rd Qu.:   4000
 Max.   :6684                      Max.   :7.000   Max.   :1500000
  EntryUser           ChangeDate
 Length:6645        Min.   :2012-02-21 19:41:00
 Class :character   1st Qu.:2012-12-04 23:37:00
 Mode  :character   Median :2013-01-10 19:37:00
                    Mean   :2012-12-10 12:54:24
                    3rd Qu.:2013-02-20 23:59:00
                    Max.   :2013-03-27 00:07:00


## 20 ####  HHNonAgriculture1  ##########
      pkid            hhid             Q05H1C01        Q05H1C04
 Min.   :   1.0   Length:1703        Min.   :1.000   Length:1703
 1st Qu.: 427.5   Class :character   1st Qu.:1.000   Class :character
 Median : 854.0   Mode  :character   Median :1.000   Mode  :character
 Mean   : 853.7                     Mean   :1.171
 3rd Qu.:1279.5                     3rd Qu.:1.000
 Max.   :1705.0                     Max.   :4.000

    Q05H1C05        Q05H1C06A        Q05H1C06B        Q05H1C06C
 Min.   : 1.000   Min.   : 1.000   Min.   : 1.000   Min.   :1.000
 1st Qu.: 1.000   1st Qu.: 2.000   1st Qu.: 3.000   1st Qu.:4.000
 Median : 1.000   Median : 2.000   Median : 3.000   Median :4.000
 Mean   : 1.739   Mean   : 2.438   Mean   : 3.705   Mean   :4.562
 3rd Qu.: 2.000   3rd Qu.: 3.000   3rd Qu.: 4.000   3rd Qu.:5.000
 Max.   :14.000   Max.   :10.000   Max.   :12.000   Max.   :9.000
 NA's   :5        NA's   :847      NA's   :1486     NA's   :1639
   Q05H1C06D        Q05H1C06E        Q05H1C06F       Q05H1C06G
 Min.   : 1.000   Min.   :6.000   Min.   :7       Min.   : NA
 1st Qu.: 5.000   1st Qu.:7.000   1st Qu.:7       1st Qu.: NA
 Median : 5.000   Median :8.000   Median :7       Median : NA
 Mean   : 5.556   Mean   :7.333   Mean   :7       Mean   :NaN
 3rd Qu.: 6.000   3rd Qu.:8.000   3rd Qu.:7       3rd Qu.: NA
 Max.   :11.000   Max.   :8.000   Max.   :7       Max.   : NA
 NA's   :1685     NA's   :1700    NA's   :1702    NA's   :1703
   Q05H1C06H     EntryUser           ChangeDate
 Min.   : NA    Length:1703        Min.   :2012-02-21 19:44:00
 1st Qu.: NA    Class :character   1st Qu.:2012-05-18 19:00:30
 Median : NA    Mode  :character   Median :2012-12-18 19:51:00
 Mean   :NaN                       Mean   :2012-10-12 16:55:28
 3rd Qu.: NA                       3rd Qu.:2013-02-19 00:45:30
 Max.   : NA                       Max.   :2013-03-27 00:52:00
```

```
 NA's   :1703


## 21 ####  HHNonAgriculture2  ##########
      pkid          hhid             Q05H2C01         Q05H2C03
 Min.   :   1   Length:7418        Min.   : 1.000   Min.   :0.000e+00
 1st Qu.:1887   Class :character   1st Qu.: 5.000   1st Qu.:6.000e+04
 Median :3784   Mode  :character   Median :10.000   Median :2.000e+05
 Mean   :3772                      Mean   : 9.965   Mean   :6.413e+06
 3rd Qu.:5647                      3rd Qu.:14.000   3rd Qu.:1.000e+06
 Max.   :7509                      Max.   :21.000   Max.   :1.815e+09
                                                    NA's   :15
    Q05H2C04            Q05H2C05           Q05H2C06           Q05H2C07
 Min.   :        0   Min.   :       0   Min.   :       0   Min.   :0
 1st Qu.:        0   1st Qu.:       0   1st Qu.:       0   1st Qu.:0
 Median :        0   Median :       0   Median :       0   Median :0
 Mean   :  2829294   Mean   :  406336   Mean   :   85566   Mean   :0
 3rd Qu.:   200000   3rd Qu.:       0   3rd Qu.:       0   3rd Qu.:0
 Max.   :660000000   Max.   :84000000   Max.   :45000000   Max.   :0
 NA's   :5546        NA's   :6574       NA's   :6665       NA's   :6679
    Q05H2C08     EntryUser           ChangeDate
 Min.   :0      Length:7418        Min.   :2012-02-21 19:44:00
 1st Qu.:0      Class :character   1st Qu.:2012-05-22 00:13:00
 Median :0      Mode  :character   Median :2012-12-17 19:49:00
 Mean   :0                         Mean   :2012-10-22 17:43:42
 3rd Qu.:0                         3rd Qu.:2013-02-18 23:32:00
 Max.   :0                         Max.   :2013-03-27 00:53:00
 NA's   :6679


## 22 ####  HHNonAgriculture3  ##########
      pkid           hhid             Q05H3C01         Q05H3C03
 Min.   :   1.0   Length:2604        Min.   : 1.000   Min.   :0.000e+00
 1st Qu.: 654.8   Class :character   1st Qu.: 5.000   1st Qu.:5.000e+04
 Median :1310.5   Mode  :character   Median : 5.000   Median :3.768e+06
 Mean   :1311.1                      Mean   : 6.742   Mean   :2.385e+07
 3rd Qu.:1968.2                      3rd Qu.: 9.000   3rd Qu.:2.033e+07
 Max.   :2619.0                      Max.   :20.000   Max.   :1.891e+09
                                                      NA's   :3
    Q05H3C04            Q05H3C05           Q05H3C06           Q05H3C07
 Min.   :        0   Min.   :       0   Min.   :       0   Min.   :0
 1st Qu.:        0   1st Qu.:       0   1st Qu.:       0   1st Qu.:0
 Median :        0   Median :       0   Median :       0   Median :0
 Mean   :  9285982   Mean   : 1603850   Mean   :  333013   Mean   :0
 3rd Qu.:  5161250   3rd Qu.:       0   3rd Qu.:       0   3rd Qu.:0
 Max.   :680000000   Max.   :87560000   Max.   :48000000   Max.   :0
 NA's   :1970        NA's   :2338       NA's   :2369       NA's   :2373
    Q05H3C08     EntryUser           ChangeDate
 Min.   :0      Length:2604        Min.   :2012-02-21 19:45:00
 1st Qu.:0      Class :character   1st Qu.:2012-05-26 00:10:45
 Median :0      Mode  :character   Median :2012-12-06 21:00:00
 Mean   :0                         Mean   :2012-10-26 12:31:06
 3rd Qu.:0                         3rd Qu.:2013-02-14 19:04:00
 Max.   :0                         Max.   :2013-03-27 00:53:00
 NA's   :2373
```

```
## 23 ####  HHLiabilities  ##########
      pkid          hhid             Q06_C01         Q06_C02
 Min.    :   1   Length:1365        Min.    :1.000   Min.    :  0.000
 1st Qu.: 342   Class :character   1st Qu.:1.000   1st Qu.:  3.000
 Median : 683   Mode  :character   Median :1.000   Median :  6.000
 Mean   : 683                      Mean   :1.056   Mean   :  7.618
 3rd Qu.:1024                      3rd Qu.:1.000   3rd Qu.: 10.000
 Max.   :1366                      Max.   :5.000   Max.   :120.000
                                                   NA's   :1
    Q06_C03          Q06_C04          Q06_C05          Q06_C06
 Min.    : 0.000   Min.    : 1.000   Min.    : 1.000   Min.    :    20000
 1st Qu.: 5.000   1st Qu.: 4.000   1st Qu.: 1.000   1st Qu.:   800000
 Median : 8.000   Median : 8.000   Median : 3.000   Median :  1500000
 Mean   : 9.124   Mean   : 6.179   Mean   : 3.197   Mean   :  4303158
 3rd Qu.:12.000   3rd Qu.: 9.000   3rd Qu.: 4.000   3rd Qu.:  4000000
 Max.   :60.000   Max.   :10.000   Max.   :10.000   Max.   :200000000
 NA's   :133
    Q06_C07             Q06_C08        EntryUser
 Min.    :    12000   Min.    : 0.000   Length:1365
 1st Qu.:   500000   1st Qu.: 1.900   Class :character
 Median :  1200000   Median : 3.000   Mode  :character
 Mean   :  3218252   Mean   : 2.931
 3rd Qu.:  3000000   3rd Qu.: 3.000
 Max.   :200000000   Max.   :40.000
 NA's   :3           NA's   :2
   ChangeDate
 Min.    :2012-02-21 19:41:00
 1st Qu.:2012-04-27 19:07:00
 Median :2012-12-11 19:49:00
 Mean   :2012-09-30 10:42:08
 3rd Qu.:2013-02-15 20:18:00
 Max.   :2013-03-27 00:54:00



## 24 ####  HHIncomeOtherSource  ##########
      pkid          hhid             Q07_C01          Q07_C03
 Min.    :   2   Length:4220        Min.    : 1.000   Min.    :        0
 1st Qu.:1058   Class :character   1st Qu.: 2.000   1st Qu.:        0
 Median :2144   Mode  :character   Median : 9.000   Median :    50000
 Mean   :2137                      Mean   : 7.093   Mean   :   428242
 3rd Qu.:3203                      3rd Qu.:11.000   3rd Qu.:   180000
 Max.   :4270                      Max.   :14.000   Max.   :200000000

    Q07_C04            Q07_C05           EntryUser
 Min.    :       0   Min.    :        0   Length:4220
 1st Qu.:       0   1st Qu.:    10000   Class :character
 Median :       0   Median :    60000   Mode  :character
 Mean   :  132083   Mean   :   560231
 3rd Qu.:       0   3rd Qu.:   200000
 Max.   :48000000   Max.   :200000000
 NA's   :3
   ChangeDate
 Min.    :2012-02-21 19:56:00
 1st Qu.:2012-06-13 00:55:45
```

```
 Median :2012-12-17 18:59:00
 Mean   :2012-10-29 12:19:48
 3rd Qu.:2013-02-12 18:02:30
 Max.   :2013-03-27 00:08:00


## 25 ####  HHConstruction  ##########
      pkid            hhid             Q08_C01         Q08_C02A
 Min.   :   1.0   Length:3576        Min.   :1.000   Min.   :1.000
 1st Qu.: 895.8   Class :character   1st Qu.:1.000   1st Qu.:1.000
 Median :1794.5   Mode  :character   Median :1.000   Median :1.000
 Mean   :1795.4                      Mean   :1.011   Mean   :1.026
 3rd Qu.:2696.2                      3rd Qu.:1.000   3rd Qu.:1.000
 Max.   :3590.0                      Max.   :3.000   Max.   :3.000
                                                     NA's   :10
    Q08_C02B       Q08_C02C       Q08_C03           Q08_C04
 Min.   :1.00   Min.   : NA    Min.   :   6.00   Min.   :1940
 1st Qu.:3.00   1st Qu.: NA    1st Qu.:  30.00   1st Qu.:1995
 Median :3.00   Median : NA    Median :  42.00   Median :2002
 Mean   :2.98   Mean   :NaN    Mean   :  48.88   Mean   :2000
 3rd Qu.:3.00   3rd Qu.: NA    3rd Qu.:  59.00   3rd Qu.:2007
 Max.   :3.00   Max.   : NA    Max.   :1997.00   Max.   :2012
 NA's   :3424   NA's   :3576   NA's   :1         NA's   :5
    Q08_C05             Q08_C06           Q08_C07        Q08_C08
 Min.   :8.000e+04   Min.   :   5000   Min.   :1.00   Min.   :   50000
 1st Qu.:1.000e+07   1st Qu.:  60000   1st Qu.:2.00   1st Qu.:  480000
 Median :2.000e+07   Median : 100000   Median :2.00   Median :  733000
 Mean   :6.131e+07   Mean   : 248075   Mean   :1.99   Mean   : 1299000
 3rd Qu.:5.200e+07   3rd Qu.: 240000   3rd Qu.:2.00   3rd Qu.: 1320000
 Max.   :2.114e+09   Max.   :6000000   Max.   :2.00   Max.   :12000000
 NA's   :1           NA's   :1                        NA's   :3539
    Q08_C09         Q08_C10         Q08_C11A         Q08_C11B
 Min.   :1.000   Min.   :1.000   Min.   : 1.000   Min.   :2010
 1st Qu.:2.000   1st Qu.:1.000   1st Qu.: 2.000   1st Qu.:2011
 Median :2.000   Median :3.000   Median : 4.000   Median :2012
 Mean   :1.964   Mean   :2.357   Mean   : 4.543   Mean   :2012
 3rd Qu.:2.000   3rd Qu.:3.000   3rd Qu.: 5.500   3rd Qu.:2012
 Max.   :2.000   Max.   :3.000   Max.   :12.000   Max.   :2012
                 NA's   :3450    NA's   :3541     NA's   :3541
    Q08_C12A         Q08_C12B       Q08_C13         Q08_C14
 Min.   : 1.000   Min.   :2011   Min.   :1.000   Min.   :       0
 1st Qu.: 3.000   1st Qu.:2011   1st Qu.:2.000   1st Qu.:       0
 Median : 4.000   Median :2012   Median :4.000   Median :   37500
 Mean   : 5.133   Mean   :2012   Mean   :3.118   Mean   :  786140
 3rd Qu.: 7.000   3rd Qu.:2012   3rd Qu.:4.000   3rd Qu.:  487500
 Max.   :10.000   Max.   :2012   Max.   :4.000   Max.   :12000000
 NA's   :3546     NA's   :3546   NA's   :3542    NA's   :3462
    Q08_C15            Q08_C16           Q08_C17           Q08_C18
 Min.   :       0   Min.   :       0   Min.   :      0   Min.   :      0
 1st Qu.:  102875   1st Qu.:       0   1st Qu.:      0   1st Qu.:      0
 Median :  400000   Median :       0   Median :      0   Median :      0
 Mean   : 4546359   Mean   : 3062272   Mean   :  43843   Mean   :  31100
 3rd Qu.: 3375000   3rd Qu.:  630000   3rd Qu.:  20000   3rd Qu.:      0
 Max.   :48000000   Max.   :40000000   Max.   :2360000   Max.   :1400000
 NA's   :3466       NA's   :3495       NA's   :3455      NA's   :3456
```

```
    Q08_C19          EntryUser           ChangeDate
 Min.    :       0   Length:3576        Min.    :2012-02-21 19:42:00
 1st Qu.:       0   Class :character   1st Qu.:2012-05-11 23:22:45
 Median :       0   Mode  :character   Median :2012-12-14 23:28:30
 Mean   : 1889194                      Mean   :2012-10-07 11:15:34
 3rd Qu.:       0                      3rd Qu.:2013-02-18 19:06:00
 Max.   :48000000                      Max.   :2013-03-27 19:21:00
 NA's   :3514
```

```
## 26 ####  HHDurableGoods  ##########
      pkid           hhid             Q09_C03         Q09_C04
 Min.    :    1   Length:34809       Min.   :801.0   Min.   : 0.000
 1st Qu.: 8723   Class :character   1st Qu.:804.0   1st Qu.: 1.000
 Median :17441   Mode  :character   Median :818.0   Median : 1.000
 Mean   :17456                      Mean   :832.5   Mean   : 1.777
 3rd Qu.:26202                      3rd Qu.:838.0   3rd Qu.: 2.000
 Max.   :34925                      Max.   :893.0   Max.   :20.000

    Q09_C05A       Q09_C05B        Q09_C05C        Q09_C05D
 Min.   :1.00   Min.   :1.000   Min.   :1.000   Min.   :1.000
 1st Qu.:1.00   1st Qu.:1.000   1st Qu.:1.000   1st Qu.:1.000
 Median :1.00   Median :1.000   Median :1.000   Median :1.000
 Mean   :1.03   Mean   :1.011   Mean   :1.006   Mean   :1.002
 3rd Qu.:1.00   3rd Qu.:1.000   3rd Qu.:1.000   3rd Qu.:1.000
 Max.   :4.00   Max.   :4.000   Max.   :4.000   Max.   :3.000
 NA's   :93     NA's   :22790   NA's   :28179   NA's   :30864
    Q09_C06A        Q09_C06B         Q09_C07             Q09_C08
 Min.   :1.000   Min.   : 1.000   Min.   :     1500   Min.   :      500
 1st Qu.:1.000   1st Qu.: 1.000   1st Qu.:    35000   1st Qu.:    30000
 Median :1.000   Median : 1.000   Median :   100000   Median :    70000
 Mean   :1.194   Mean   : 1.732   Mean   :   970820   Mean   :   799477
 3rd Qu.:1.000   3rd Qu.: 2.000   3rd Qu.:   391000   3rd Qu.:   220000
 Max.   :8.000   Max.   :20.000   Max.   :120000000   Max.   :410000000
 NA's   :30170   NA's   :2300     NA's   :30170       NA's   :2300
  EntryUser           ChangeDate
 Length:34809       Min.   :2012-02-21 19:42:00
 Class :character   1st Qu.:2012-05-17 23:32:00
 Mode  :character   Median :2012-12-17 20:20:00
                    Mean   :2012-10-10 07:42:04
                    3rd Qu.:2013-02-15 19:12:00
                    Max.   :2013-03-27 18:45:00
```

```
## 27 ####  PersonMaternalHealth  ##########
      pkid           hhid             Q10_C01         Q10_C02
 Min.    :   1.0   Length:1245        Min.   :1.00   Min.   : 1.000
 1st Qu.: 313.0   Class :character   1st Qu.:1.00   1st Qu.: 2.000
 Median : 639.0   Mode  :character   Median :1.00   Median : 2.000
 Mean   : 637.4                      Mean   :1.02   Mean   : 2.421
 3rd Qu.: 966.0                      3rd Qu.:1.00   3rd Qu.: 2.000
 Max.   :1283.0                      Max.   :3.00   Max.   :11.000

    Q10_C03          Q10_C04         Q10_C05         Q10_C06
 Min.   : 2.000   Min.   :1.000   Min.   :1.000   Min.   : 1.000
```

```
 1st Qu.: 4.000   1st Qu.:2.000   1st Qu.:1.000   1st Qu.: 4.000
 Median : 5.000   Median :2.000   Median :1.000   Median : 7.000
 Mean   : 5.066   Mean   :1.973   Mean   :1.099   Mean   : 5.691
 3rd Qu.: 6.000   3rd Qu.:2.000   3rd Qu.:1.000   3rd Qu.: 7.000
 Max.   :15.000   Max.   :8.000   Max.   :8.000   Max.   :14.000

    Q10_C07A        Q10_C07B        Q10_C07C        Q10_C07D
 Min.   :1.000   Min.   :1.000   Min.   :2.000   Min.   : NA
 1st Qu.:2.000   1st Qu.:2.000   1st Qu.:3.000   1st Qu.: NA
 Median :3.000   Median :3.000   Median :3.000   Median : NA
 Mean   :2.492   Mean   :3.362   Mean   :3.528   Mean   :NaN
 3rd Qu.:3.000   3rd Qu.:5.000   3rd Qu.:5.000   3rd Qu.: NA
 Max.   :5.000   Max.   :7.000   Max.   :5.000   Max.   : NA
                 NA's   :671     NA's   :1192    NA's   :1245
  EntryUser           ChangeDate                      persid
 Length:1245        Min.   :2012-02-21 19:43:00   Length:1245
 Class :character   1st Qu.:2012-04-24 18:37:00   Class :character
 Mode  :character   Median :2012-12-11 23:27:00   Mode  :character
                    Mean   :2012-09-26 10:24:22
                    3rd Qu.:2013-02-14 20:05:00
                    Max.   :2013-03-27 18:45:00



## 28 ####  PersonHealthU2  ##########
      pkid           hhid             Q11_C01         Q11_C02
 Min.   :  1.0   Length:585         Min.   :1.000   Min.   : 1.000
 1st Qu.:148.0   Class :character   1st Qu.:1.000   1st Qu.: 2.000
 Median :296.0   Mode  :character   Median :1.000   Median : 2.000
 Mean   :301.8                      Mean   :1.031   Mean   : 2.548
 3rd Qu.:457.0                      3rd Qu.:1.000   3rd Qu.: 3.000
 Max.   :607.0                      Max.   :2.000   Max.   :11.000
                                                    NA's   :14
    Q11_C03         Q11_C04         Q11_C05         Q11_C06A
 Min.   : 2.000   Min.   :1.000   Min.   :1.000   Min.   : 0.000
 1st Qu.: 4.000   1st Qu.:1.000   1st Qu.:1.000   1st Qu.: 0.000
 Median : 5.000   Median :1.000   Median :1.000   Median : 0.000
 Mean   : 5.182   Mean   :1.009   Mean   :1.021   Mean   : 1.233
 3rd Qu.: 6.000   3rd Qu.:1.000   3rd Qu.:1.000   3rd Qu.: 2.000
 Max.   :14.000   Max.   :2.000   Max.   :2.000   Max.   :23.000
 NA's   :1        NA's   :2       NA's   :7       NA's   :91
    Q11_C06B        Q11_C07         Q11_C08A        Q11_C08B
 Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   :1.000
 1st Qu.:1.000   1st Qu.:1.000   1st Qu.:1.000   1st Qu.:1.000
 Median :1.000   Median :1.000   Median :2.000   Median :1.000
 Mean   :1.697   Mean   :1.177   Mean   :1.684   Mean   :1.321
 3rd Qu.:2.000   3rd Qu.:1.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.   :5.000   Max.   :2.000   Max.   :2.000   Max.   :2.000
 NA's   :496     NA's   :19      NA's   :19      NA's   :18
    Q11_C09         Q11_C10         Q11_C11        EntryUser
 Min.   :1.000   Min.   :1.000   Min.   :1.000   Length:585
 1st Qu.:1.000   1st Qu.:2.000   1st Qu.:1.000   Class :character
 Median :1.000   Median :2.000   Median :1.000   Mode  :character
 Mean   :1.053   Mean   :1.995   Mean   :1.014
 3rd Qu.:1.000   3rd Qu.:2.000   3rd Qu.:1.000
 Max.   :8.000   Max.   :5.000   Max.   :2.000
```

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 NA's   :2       NA's   :21      NA's   :22
   ChangeDate                     Persid          PersidMother
 Min.   :2012-02-21 19:43:00   Length:585         Length:585
 1st Qu.:2012-04-20 18:13:00   Class :character   Class :character
 Median :2012-12-06 19:17:00   Mode  :character   Mode  :character
 Mean   :2012-09-18 23:37:13
 3rd Qu.:2013-02-14 19:26:00
 Max.   :2013-03-27 18:45:00


## 29 ####  PersonIllness  ##########
      pkid           hhid              Q13BC01         Q13BC2A
 Min.   :    2   Length:17644       Min.   : 1.00   Min.   :1.000
 1st Qu.: 4447   Class :character   1st Qu.: 2.00   1st Qu.:2.000
 Median : 8880   Mode  :character   Median : 3.00   Median :2.000
 Mean   : 8881                      Mean   : 3.16   Mean   :1.815
 3rd Qu.:13320                      3rd Qu.: 4.00   3rd Qu.:2.000
 Max.   :17745                      Max.   :15.00   Max.   :2.000

    Q13BC2B         Q13BC03         Q13BC04         Q13BC05
 Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   : 1.00
 1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 5.00
 Median :4.000   Median :2.000   Median :2.000   Median :10.00
 Mean   :3.502   Mean   :1.812   Mean   :2.163   Mean   :14.54
 3rd Qu.:5.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:30.00
 Max.   :5.000   Max.   :2.000   Max.   :3.000   Max.   :30.00
 NA's   :14390   NA's   :14385   NA's   :14385   NA's   :17440
    Q13BC06         Q13BC07          Q13BC08          Q13BC9A
 Min.   :1.000   Min.   :0.0000   Min.   : 0.0000   Min.   : 1.000
 1st Qu.:1.000   1st Qu.:0.0000   1st Qu.: 0.0000   1st Qu.: 9.000
 Median :1.000   Median :0.0000   Median : 0.0000   Median :10.000
 Mean   :1.079   Mean   :0.2095   Mean   : 0.3623   Mean   : 9.664
 3rd Qu.:1.000   3rd Qu.:0.0000   3rd Qu.: 0.0000   3rd Qu.:11.000
 Max.   :2.000   Max.   :6.0000   Max.   :15.0000   Max.   :18.000
 NA's   :14385                                      NA's   :14424
    Q13BC9B         Q13BC9C         Q13BC9D          Q13BC10
 Min.   : 1.00   Min.   :1.000   Min.   : 1.000   Min.   :      0
 1st Qu.: 9.00   1st Qu.:2.000   1st Qu.: 2.000   1st Qu.:      0
 Median :10.00   Median :2.000   Median : 4.000   Median :      0
 Mean   :10.09   Mean   :1.941   Mean   : 5.879   Mean   :   9673
 3rd Qu.:13.00   3rd Qu.:2.000   3rd Qu.: 7.000   3rd Qu.:   5000
 Max.   :98.00   Max.   :2.000   Max.   :30.000   Max.   :1000000
 NA's   :15810   NA's   :14440   NA's   :17462    NA's   :14436
    Q13BC11            Q13BC12A        Q13BC12B        Q13BC12C
 Min.   :       0   Min.   :1.000   Min.   :1.000   Min.   :2.000
 1st Qu.:    7000   1st Qu.:1.000   1st Qu.:2.000   1st Qu.:3.750
 Median :   20000   Median :1.000   Median :2.000   Median :5.000
 Mean   :   87364   Mean   :1.438   Mean   :3.013   Mean   :4.625
 3rd Qu.:   70000   3rd Qu.:2.000   3rd Qu.:4.000   3rd Qu.:6.000
 Max.   :12000000   Max.   :6.000   Max.   :6.000   Max.   :6.000
 NA's   :14424      NA's   :14446   NA's   :17565   NA's   :17636
  EntryUser           ChangeDate                      persid
 Length:17644       Min.   :2012-02-21 19:43:00   Length:17644
 Class :character   1st Qu.:2012-04-27 19:37:00   Class :character
 Mode  :character   Median :2012-12-14 00:53:00   Mode  :character
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                  Mean   :2012-10-03 21:46:12
                  3rd Qu.:2013-02-18 18:01:00
                  Max.   :2013-03-27 18:46:00


## 30 ####  PersonDisability  ##########
      pkid           hhid             Q14_C01         Q14_C02A
 Min.   :    1   Length:17644       Min.   : 1.00   Min.   : 0.0000
 1st Qu.: 4418   Class :character   1st Qu.: 2.00   1st Qu.: 0.0000
 Median : 8842   Mode  :character   Median : 3.00   Median : 0.0000
 Mean   : 8842                      Mean   : 3.16   Mean   : 0.1128
 3rd Qu.:13263                      3rd Qu.: 4.00   3rd Qu.: 0.0000
 Max.   :17684                      Max.   :15.00   Max.   :98.0000

    Q14_C02B        Q14_C02C        Q14_C03A        Q14_C03B
 Min.   :0.000   Min.   :1.000   Min.   :1.000   Min.   :1.00
 1st Qu.:2.000   1st Qu.:4.000   1st Qu.:2.000   1st Qu.:2.00
 Median :3.000   Median :5.000   Median :2.000   Median :2.00
 Mean   :3.311   Mean   :4.771   Mean   :1.986   Mean   :2.11
 3rd Qu.:4.000   3rd Qu.:6.000   3rd Qu.:2.000   3rd Qu.:3.00
 Max.   :8.000   Max.   :9.000   Max.   :3.000   Max.   :3.00
 NA's   :17480   NA's   :17609   NA's   :16884   NA's   :17480
    Q14_C03C        Q14_C04A        Q14_C04B        Q14_C04C
 Min.   :1.000   Min.   : 1.00   Min.   : 1.00   Min.   : 2.00
 1st Qu.:2.000   1st Qu.: 4.00   1st Qu.: 4.00   1st Qu.: 5.00
 Median :3.000   Median : 5.00   Median :14.00   Median :13.00
 Mean   :2.429   Mean   :10.74   Mean   :11.34   Mean   :11.09
 3rd Qu.:3.000   3rd Qu.:18.00   3rd Qu.:18.00   3rd Qu.:18.00
 Max.   :3.000   Max.   :98.00   Max.   :19.00   Max.   :18.00
 NA's   :17609   NA's   :16884   NA's   :17481   NA's   :17609
    Q14_C05A        Q14_C05B        Q14_C05C      EntryUser
 Min.   :1.00    Min.   :1.000   Min.   :1.000   Length:17644
 1st Qu.:4.00    1st Qu.:4.000   1st Qu.:5.000   Class :character
 Median :4.00    Median :5.000   Median :6.000   Mode  :character
 Mean   :4.17    Mean   :4.894   Mean   :5.516
 3rd Qu.:5.00    3rd Qu.:6.000   3rd Qu.:6.000
 Max.   :6.00    Max.   :6.000   Max.   :6.000
 NA's   :16884   NA's   :17436   NA's   :17580
   ChangeDate                      Persid
 Min.   :2012-02-21 19:44:00   Length:17644
 1st Qu.:2012-04-27 19:39:30   Class :character
 Median :2012-12-13 19:56:00   Mode  :character
 Mean   :2012-10-03 21:59:39
 3rd Qu.:2013-02-18 18:02:00
 Max.   :2013-03-27 18:47:00


## 31 ####  PersonEcoCurrent  ##########
      pkid           hhid             Q15_C01          Q15_C02
 Min.   :    1   Length:16086       Min.   : 1.000   Min.   : 1.000
 1st Qu.: 4042   Class :character   1st Qu.: 2.000   1st Qu.: 1.000
 Median : 8088   Mode  :character   Median : 3.000   Median : 2.000
 Mean   : 8097                      Mean   : 2.984   Mean   : 2.143
 3rd Qu.:12162                      3rd Qu.: 4.000   3rd Qu.: 2.000
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Max.    :16189                        Max.    :14.000   Max.    :11.000

   Q15_C03         Q15_C04        Q15_C05B           Q15_C06B
Min.    :1.000   Min.    :1.000   Length:16086       Length:16086
1st Qu.:1.000   1st Qu.:2.000   Class :character   Class :character
Median :1.000   Median :2.000   Mode  :character   Mode  :character
Mean    :1.356   Mean    :1.995
3rd Qu.:2.000   3rd Qu.:2.000
Max.    :2.000   Max.    :2.000
                 NA's    :10356
   Q15_C07         Q15_C08         Q15_C09         Q15_C10A
Min.    :1.000   Min.    :1.000   Min.    : 1.00   Min.    : 1.0
1st Qu.:3.000   1st Qu.:1.000   1st Qu.:28.00   1st Qu.:20.0
Median :3.000   Median :3.000   Median :42.00   Median :26.0
Mean    :3.005   Mean    :2.385   Mean    :41.08   Mean    :23.4
3rd Qu.:3.000   3rd Qu.:3.000   3rd Qu.:56.00   3rd Qu.:30.0
Max.    :8.000   Max.    :5.000   Max.    :90.00   Max.    :30.0
NA's    :5701    NA's    :5701    NA's    :5729    NA's    :5730
   Q15_C10B        Q15_C10C        Q15_C10D       Q15_C11
Min.    :1.000   Min.    :1.000   Min.    :1.00   Min.    :0.000
1st Qu.:1.000   1st Qu.:1.000   1st Qu.:2.00   1st Qu.:0.000
Median :1.000   Median :1.000   Median :2.00   Median :0.000
Mean    :1.413   Mean    :1.277   Mean    :1.98   Mean    :0.381
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.00   3rd Qu.:1.000
Max.    :2.000   Max.    :2.000   Max.    :2.00   Max.    :3.000
NA's    :5703    NA's    :11815   NA's    :5730   NA's    :5702
  Q15_C12B           Q15_C13B           Q15_C14          Q15_C15
Length:16086       Length:16086       Min.    :1.000   Min.    :1.000
Class :character   Class :character   1st Qu.:3.000   1st Qu.:3.000
Mode  :character   Mode  :character   Median :3.000   Median :3.000
                                      Mean    :2.997   Mean    :2.996
                                      3rd Qu.:3.000   3rd Qu.:3.000
                                      Max.    :5.000   Max.    :4.000
                                      NA's    :12894   NA's    :12894
   Q15_C16         Q15_C17A        Q15_C17B        Q15_C17C
Min.    : 1.00   Min.    : 1.00   Min.    :1.000   Min.    :1.000
1st Qu.: 7.00   1st Qu.:10.00   1st Qu.:1.000   1st Qu.:1.000
Median :14.00   Median :20.00   Median :1.000   Median :1.000
Mean    :14.42   Mean    :18.87   Mean    :1.485   Mean    :1.484
3rd Qu.:21.00   3rd Qu.:30.00   3rd Qu.:2.000   3rd Qu.:2.000
Max.    :77.00   Max.    :30.00   Max.    :2.000   Max.    :2.000
NA's    :12894   NA's    :12894   NA's    :12898   NA's    :14575
   Q15_C18A         Q15_C18B        Q15_C19          Q15_C20
Min.    : 1.000   Min.    :1.000   Min.    :  4.00   Min.    :      0
1st Qu.: 3.000   1st Qu.:1.000   1st Qu.: 40.00   1st Qu.: 259000
Median : 5.000   Median :2.000   Median : 52.00   Median : 380000
Mean    : 6.207   Mean    :1.601   Mean    : 50.41   Mean    : 469360
3rd Qu.: 8.000   3rd Qu.:2.000   3rd Qu.: 62.00   3rd Qu.: 540000
Max.    :30.000   Max.    :2.000   Max.    :126.00   Max.    :8000000
NA's    :15348   NA's    :15349   NA's    :12894   NA's    :12162
   Q15_C21         Q15_C22A        Q15_C22B        Q15_C23
Min.    :1.000   Min.    : 2.00   Min.    : 2.00   Min.    :1.000
1st Qu.:3.000   1st Qu.: 8.00   1st Qu.:15.00   1st Qu.:1.000
Median :3.000   Median :14.00   Median :20.00   Median :1.000
Mean    :2.923   Mean    :15.87   Mean    :23.46   Mean    :1.297
3rd Qu.:3.000   3rd Qu.:20.00   3rd Qu.:30.00   3rd Qu.:2.000
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 Max.    :3.000   Max.    :60.00   Max.    :60.00   Max.    :2.000
 NA's    :5711    NA's    :15911   NA's    :15636   NA's    :15635
    Q15_C24          Q15_C25          Q15_C26          Q15_C27A
 Min.    :1.000   Min.    : 0.000   Min.    :1.000   Min.    :1.0
 1st Qu.:2.000   1st Qu.: 2.000   1st Qu.:2.000   1st Qu.:2.5
 Median :2.000   Median : 3.000   Median :2.000   Median :3.0
 Mean    :1.987   Mean    : 3.769   Mean    :1.997   Mean    :2.8
 3rd Qu.:2.000   3rd Qu.: 5.000   3rd Qu.:2.000   3rd Qu.:3.0
 Max.    :3.000   Max.    :12.000   Max.    :2.000   Max.    :5.0
 NA's    :15635   NA's    :15796   NA's    :10385   NA's    :16071
    Q15_C27B         Q15_C27C         Q15_C28          Q15_C29
 Min.    :3.0     Min.    : NA     Min.    :1       Min.    :40.00
 1st Qu.:3.0     1st Qu.: NA     1st Qu.:1       1st Qu.:48.50
 Median :3.0     Median : NA     Median :1       Median :56.00
 Mean    :3.5     Mean    :NaN     Mean    :1       Mean    :51.93
 3rd Qu.:3.5     3rd Qu.: NA     3rd Qu.:1       3rd Qu.:56.00
 Max.    :5.0     Max.    : NA     Max.    :1       Max.    :56.00
 NA's    :16082   NA's    :16086   NA's    :16071   NA's    :16071
    Q15_C30          Q15_C31          Q15_C32          Q15_C33
 Min.    :1       Min.    :1.000   Min.    : 0.000   Min.    :1.000
 1st Qu.:2       1st Qu.:7.000   1st Qu.: 2.000   1st Qu.:1.000
 Median :3       Median :7.000   Median : 7.000   Median :2.000
 Mean    :3       Mean    :6.997   Mean    : 9.661   Mean    :1.518
 3rd Qu.:3       3rd Qu.:7.000   3rd Qu.:12.000   3rd Qu.:2.000
 Max.    :6       Max.    :9.000   Max.    :48.000   Max.    :2.000
 NA's    :16073   NA's    :10400   NA's    :16024   NA's    :16030
  EntryUser            ChangeDate                      Persid
 Length:16086       Min.    :2012-02-21 19:45:00   Length:16086
 Class :character   1st Qu.:2012-04-28 01:11:00   Class :character
 Mode  :character   Median :2012-12-14 19:57:00   Mode  :character
                    Mean    :2012-10-04 21:48:55
                    3rd Qu.:2013-02-18 18:59:45
                    Max.    :2013-03-27 18:50:00


## 32 ####  PersonviolenceA  ##########
      pkid           hhid             Q17AC01          Q17AC02
 Min.    :    1   Length:17588       Min.    : 1.000   Min.    :1.000
 1st Qu.: 4408   Class :character   1st Qu.: 2.000   1st Qu.:2.000
 Median : 8808   Mode  :character   Median : 3.000   Median :2.000
 Mean    : 8815                      Mean    : 3.157   Mean    :1.997
 3rd Qu.:13217                      3rd Qu.: 4.000   3rd Qu.:2.000
 Max.    :17646                      Max.    :15.000   Max.    :2.000

    Q17AC03        EntryUser            ChangeDate
 Min.    :1.000   Length:17588       Min.    :2012-02-21 19:46:00
 1st Qu.:1.000   Class :character   1st Qu.:2012-04-27 19:32:00
 Median :1.000   Mode  :character   Median :2012-12-14 00:59:00
 Mean    :1.659                      Mean    :2012-10-03 19:57:06
 3rd Qu.:2.000                      3rd Qu.:2013-02-18 18:12:30
 Max.    :5.000                      Max.    :2013-03-27 18:50:00
 NA's    :17544
    persid
 Length:17588
 Class :character
```

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 Mode  :character
```

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## 33 ####  PersonViolenceB  ##########
      pkid           hhid             Q17BC01         Q17BC02
 Min.   : 1.00   Length:44          Min.   :1.000   Min.   :1.000
 1st Qu.:20.75   Class :character   1st Qu.:1.000   1st Qu.:1.000
 Median :31.50   Mode  :character   Median :2.000   Median :1.000
 Mean   :34.77                      Mean   :2.295   Mean   :1.636
 3rd Qu.:56.25                      3rd Qu.:3.000   3rd Qu.:2.000
 Max.   :68.00                      Max.   :5.000   Max.   :3.000

    Q17BC03          Q17BC04       Q17BC05          Q17BC06      Q17BC07
 Min.   : 1.000   Min.   :1.0   Min.   :1.000   Min.   :2    Min.   :1.000
 1st Qu.: 2.000   1st Qu.:1.0   1st Qu.:1.000   1st Qu.:2    1st Qu.:3.000
 Median : 3.000   Median :1.5   Median :1.000   Median :2    Median :3.000
 Mean   : 3.864   Mean   :1.5   Mean   :1.409   Mean   :2    Mean   :2.795
 3rd Qu.: 4.000   3rd Qu.:2.0   3rd Qu.:1.750   3rd Qu.:2    3rd Qu.:3.000
 Max.   :11.000   Max.   :2.0   Max.   :3.000   Max.   :2    Max.   :4.000
                                NA's   :22      NA's   :22
    Q17BC08         Q17BC09       EntryUser
 Min.   :1.000   Min.   :1.000   Length:44
 1st Qu.:2.000   1st Qu.:1.000   Class :character
 Median :2.000   Median :1.000   Mode  :character
 Mean   :1.773   Mean   :1.273
 3rd Qu.:2.000   3rd Qu.:1.000
 Max.   :2.000   Max.   :4.000

   ChangeDate                     persid
 Min.   :2012-02-24 22:52:00   Length:44
 1st Qu.:2012-04-20 13:34:00   Class :character
 Median :2012-04-26 18:51:00   Mode  :character
 Mean   :2012-07-10 04:59:01
 3rd Qu.:2012-12-13 19:33:00
 Max.   :2013-03-19 18:55:00
```

```
## 34 ####  HHOtherInfo  ##########
      pkid            hhid             Q01BQ1          Q05AQ1A
 Min.   :   1.0   Length:3840        Min.   :1.000   Min.   :1.000
 1st Qu.: 961.8   Class :character   1st Qu.:1.000   1st Qu.:2.000
 Median :1921.5   Mode  :character   Median :1.000   Median :2.000
 Mean   :1921.9                      Mean   :1.121   Mean   :1.974
 3rd Qu.:2882.2                      3rd Qu.:1.000   3rd Qu.:2.000
 Max.   :3845.0                      Max.   :2.000   Max.   :2.000

    Q05AQ1B          Q05AQ2          Q05AQ3          Q05ANote
 Min.   :1.00   Min.   :1.000   Min.   :1.000   Min.   :0
 1st Qu.:1.00   1st Qu.:1.000   1st Qu.:1.000   1st Qu.:0
 Median :3.00   Median :1.000   Median :1.000   Median :0
 Mean   :2.98   Mean   :1.434   Mean   :1.742   Mean   :0
```

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3rd Qu.:4.00   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:0
Max.   :7.00   Max.   :2.000   Max.   :7.000   Max.   :0
NA's   :3739                  NA's   :1665    NA's   :1671
    Q05BQ1         Q05BNote        Q05CNote        Q05DQ1
Min.   :1.000   Min.   :0e+00   Min.   :0e+00   Min.   :1.000
1st Qu.:1.000   1st Qu.:0e+00   1st Qu.:0e+00   1st Qu.:1.000
Median :1.000   Median :0e+00   Median :0e+00   Median :1.000
Mean   :1.091   Mean   :5e-04   Mean   :5e-04   Mean   :1.195
3rd Qu.:1.000   3rd Qu.:0e+00   3rd Qu.:0e+00   3rd Qu.:1.000
Max.   :2.000   Max.   :1e+00   Max.   :1e+00   Max.   :2.000
NA's   :1665    NA's   :1867    NA's   :1868    NA's   :1863
  Q05DNote1       Q05D1Q1         Q05DNote2       Q05EQ1
Min.   :0.000   Min.   :1.000   Min.   :0e+00   Min.   :1.000
1st Qu.:0.000   1st Qu.:1.000   1st Qu.:0e+00   1st Qu.:1.000
Median :0.000   Median :1.000   Median :0e+00   Median :1.000
Mean   :0.001   Mean   :1.362   Mean   :5e-04   Mean   :1.462
3rd Qu.:0.000   3rd Qu.:2.000   3rd Qu.:0e+00   3rd Qu.:2.000
Max.   :1.000   Max.   :2.000   Max.   :1e+00   Max.   :2.000
NA's   :1867    NA's   :1863    NA's   :1869
  Q05ENote1     Q05ENote2          Q05FQ1          Q05FQ2
Min.   :0     Min.   :0.000000   Min.   :1.000   Min.   :1.000
1st Qu.:0     1st Qu.:0.000000   1st Qu.:2.000   1st Qu.:2.000
Median :0     Median :0.000000   Median :2.000   Median :2.000
Mean   :0     Mean   :0.000262   Mean   :1.988   Mean   :1.979
3rd Qu.:0     3rd Qu.:0.000000   3rd Qu.:2.000   3rd Qu.:2.000
Max.   :0     Max.   :1.000000   Max.   :2.000   Max.   :2.000
NA's   :24    NA's   :24
  Q05FNote1          Q05FQ3         Q05FNote2          Q05FNote3
Min.   :0.000000   Min.   :1.000   Min.   :0.000000   Min.   :0
1st Qu.:0.000000   1st Qu.:1.000   1st Qu.:0.000000   1st Qu.:0
Median :0.000000   Median :2.000   Median :0.000000   Median :0
Mean   :0.000786   Mean   :1.546   Mean   :0.000524   Mean   :0
3rd Qu.:0.000000   3rd Qu.:2.000   3rd Qu.:0.000000   3rd Qu.:0
Max.   :1.000000   Max.   :2.000   Max.   :1.000000   Max.   :0
NA's   :25                         NA's   :23         NA's   :23
    Q05GQ1         Q05GQ2        Q05GNote1     Q05GNote2      Q05HQ1
Min.   :1.00   Min.   :1.000   Min.   :0     Min.   :0     Min.   :1.000
1st Qu.:1.00   1st Qu.:1.000   1st Qu.:0     1st Qu.:0     1st Qu.:1.000
Median :1.00   Median :1.000   Median :0     Median :0     Median :2.000
Mean   :1.41   Mean   :1.441   Mean   :0     Mean   :0     Mean   :1.624
3rd Qu.:2.00   3rd Qu.:2.000   3rd Qu.:0     3rd Qu.:0     3rd Qu.:2.000
Max.   :2.00   Max.   :2.000   Max.   :0     Max.   :0     Max.   :2.000
                               NA's   :23    NA's   :24
  Q05HNote1     Q05HNote2     Q05HNote3       Q06_Q1          Q08_Q1
Min.   :0     Min.   :0     Min.   :0     Min.   :1.000   Min.   :1.000
1st Qu.:0     1st Qu.:0     1st Qu.:0     1st Qu.:1.000   1st Qu.:1.000
Median :0     Median :0     Median :0     Median :2.000   Median :1.000
Mean   :0     Mean   :0     Mean   :0     Mean   :1.659   Mean   :1.079
3rd Qu.:0     3rd Qu.:0     3rd Qu.:0     3rd Qu.:2.000   3rd Qu.:1.000
Max.   :0     Max.   :0     Max.   :0     Max.   :2.000   Max.   :2.000
NA's   :23    NA's   :22    NA's   :25
    Q10_Q1          Q11_Q1          Q13AQ1          Q13AQ2A
Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   :1.000
1st Qu.:1.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:1.000
Median :2.000   Median :2.000   Median :2.000   Median :1.000
Mean   :1.678   Mean   :1.853   Mean   :1.892   Mean   :1.555
```

```
 3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.   :2.000   Max.   :2.000   Max.   :2.000   Max.   :8.000
                                                 NA's   :3424
    Q13AQ2B         Q13AQ2C         Q13AQ3          Q13AQ4
 Min.   :1.000   Min.   :3.000   Min.   :1.000   Min.   :1.000
 1st Qu.:2.000   1st Qu.:3.000   1st Qu.:1.000   1st Qu.:2.000
 Median :2.000   Median :4.000   Median :2.000   Median :2.000
 Mean   :2.738   Mean   :4.009   Mean   :2.632   Mean   :1.972
 3rd Qu.:3.000   3rd Qu.:4.000   3rd Qu.:3.000   3rd Qu.:2.000
 Max.   :8.000   Max.   :6.000   Max.   :8.000   Max.   :8.000
 NA's   :3649    NA's   :3725    NA's   :3424    NA's   :416
     Q17AQ1          Q17AQ2          Q17AQ3       EntryUser
 Min.   :1.000   Min.   :1.000   Min.   :1.000   Length:3840
 1st Qu.:1.000   1st Qu.:2.000   1st Qu.:2.000   Class :character
 Median :1.000   Median :2.000   Median :2.000   Mode  :character
 Mean   :1.138   Mean   :1.959   Mean   :1.936
 3rd Qu.:1.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.   :2.000   Max.   :2.000   Max.   :2.000

   ChangeDate
 Min.   :2012-02-21 19:32:00
 1st Qu.:2012-05-09 12:52:30
 Median :2012-12-17 17:35:30
 Mean   :2012-10-06 05:38:36
 3rd Qu.:2013-02-16 00:50:45
 Max.   :2013-03-27 00:36:00



## 35 ####  PSUListing  ##########
     PSU            Province_Code      Province_Name      District_Code
 Length:384         Length:384         Length:384         Length:384
 Class :character   Class :character   Class :character   Class :character
 Mode  :character   Mode  :character   Mode  :character   Mode  :character



 District_Name      Commune_Code       Commune_Name       Village_Code
 Length:384         Length:384         Length:384         Length:384
 Class :character   Class :character   Class :character   Class :character
 Mode  :character   Mode  :character   Mode  :character   Mode  :character



 Village_Name         Enum_Areas      Selected_EA       UrbanRural
 Length:384         Min.   : 1.000   Min.   : 1.000   Min.   :1.000
 Class :character   1st Qu.: 2.000   1st Qu.: 1.000   1st Qu.:1.000
 Mode  :character   Median : 3.000   Median : 2.000   Median :2.000
                    Mean   : 4.219   Mean   : 2.714   Mean   :1.625
                    3rd Qu.: 5.000   3rd Qu.: 3.000   3rd Qu.:2.000
                    Max.   :46.000   Max.   :37.000   Max.   :2.000
   Households      SurveyMonth    HouseholdsInVillage HouseholdsInListing
 Min.   :  21.0   Min.   : 1.00   Min.   :  37.0      Min.   : 28.00
 1st Qu.: 170.8   1st Qu.: 3.75   1st Qu.: 179.2      1st Qu.: 69.00
 Median : 274.0   Median : 6.50   Median : 274.5      Median : 88.00
 Mean   : 517.7   Mean   : 6.50   Mean   : 438.1      Mean   : 90.99
```

```
 3rd Qu.: 526.5   3rd Qu.: 9.25   3rd Qu.: 515.2      3rd Qu.:107.00
 Max.    :4844.0   Max.    :12.00   Max.    :6129.0      Max.    :268.00


## 36 ####  weighthouseholds  ##########
     PSU                HHID              urbrur            Stratum
 Length:3840        Length:3840        Length:3840        Length:3840
 Class :character   Class :character   Class :character   Class :character
 Mode  :character   Mode  :character   Mode  :character   Mode  :character


 Poststratum            hhsize           hw12a
 Length:3840        Min.    : 1.000   Min.    : 101.2
 Class :character   1st Qu.: 3.000   1st Qu.: 485.2
 Mode  :character   Median : 4.000   Median : 907.8
                    Mean    : 4.595   Mean    : 802.7
                    3rd Qu.: 6.000   3rd Qu.:1054.1
                    Max.    :15.000   Max.    :2214.3


## 37 ####  weightpersons  ##########
    PersID              PSU                HHID              urbrur
 Length:17644       Length:17644       Length:17644       Length:17644
 Class :character   Class :character   Class :character   Class :character
 Mode  :character   Mode  :character   Mode  :character   Mode  :character


   Stratum          Poststratum            hw12a             pw12a
 Length:17644       Length:17644       Min.    : 101.2   Min.    :  85.4
 Class :character   Class :character   1st Qu.: 488.4   1st Qu.: 504.0
 Mode  :character   Mode  :character   Median : 909.9   Median : 906.4
                                       Mean    : 809.0   Mean    : 814.8
                                       3rd Qu.:1055.9   3rd Qu.:1064.6
                                       Max.    :2214.3   Max.    :2396.9
```

5.2 Frequency of categoriacal variables

```
# Displayed frequency table of categorical variables

> # file names: Rnames[j]     (j=1 to 37)
> # file list: outfiles[[j]]
> # description of variable names: var.names[[j]] : none
> # list of column numbers of categorical variables
> ck<-list()  # Numbers of categorical variables
> ck[[1]]<- c(3:6)
> ck[[2]]<- c(3:4,9:19)
> ck[[3]]<- c(3)
> ck[[4]]<- c(3)
> ck[[5]]<- c(3:18)
> ck[[6]]<-c(3:18)
> ck[[7]]<- c(3,5:10,12:14,16,18:20,23:30,33:37,46)
> ck[[8]]<- c(3,5,7:8,10:11,13:15,17,20:31,33,35)
> ck[[9]]<- c(3:5)
> ck[[10]]<- c(3:5)
> ck[[11]]<-c(3)
> ck[[12]]<- c(3)
> ck[[13]]<- c(3:4)
> ck[[14]]<- c(3)
> ck[[15]]<- c(3:4)
> ck[[16]]<- c(3)
> ck[[17]]<- c(3)
> ck[[18]]<- c(3)
> ck[[19]]<- c(3)
> ck[[20]]<- c(3,5:13)
> ck[[21]]<- c(3)
> ck[[22]]<- c(3)
> ck[[23]]<- c(3,6,7)
> ck[[24]]<- c(3)
> ck[[25]]<- c(3:6,11,13:14,19)
> ck[[26]]<- c(4:8)
> ck[[27]]<- c(3:12)
> ck[[28]]<- c(3:7,10:15)
> ck[[29]]<- c(3:7,9:14,18:20)
> ck[[30]]<- c(3:15)
> ck[[31]]<- c(3:6,9:10,13:16,19:20,23:24,26,29,32:33,35:39,42,44)
> ck[[32]]<- c(3:5)
> ck[[33]]<- c(3:11)
> ck[[34]]<- c(3:45)
> ck[[35]]<- c(2,12,14)
> ck[[36]]<- c(3:6)
> ck[[37]]<- c(4:6)

>
> for(j in 1:length(ck)){
+ if(length(ck[[j]])==0) {next}
+ cat("¥n¥n##",j,"#### Frequency of variables in",Rnames[j]," ###################¥n¥n")
+ for(k in ck[[j]]){
+ variable.name<-colnames(outfiles[[j]])[k]
+ cat("---",k, ":",variable.name)
+ print(addmargins(table(outfiles[[j]][k],useNA="ifany")))
+ }
```

```
+ }


## 1 #### Frequency of variables in Households  ###################

--- 3 : HHnumber
  01   02   03   04   05   06   07   08   09   10  Sum
 384  384  384  384  384  384  384  384  384  384 3840
--- 4 : Males
   0    1    2    3    4    5    6    7    8    9  Sum
 224  925 1332  816  380  115   30   11    6    1 3840
--- 5 : Females
   0    1    2    3    4    5    6    7    8  Sum
  25  872 1418  922  383  148   56   12    4 3840
--- 6 : Total
   1    2    3    4    5    6    7    8    9   10   11   12   13   14   15  Sum
  88  307  683  897  826  562  237  124   58   31   16    4    3    3    1 3840


## 2 #### Frequency of variables in HHMembers  ###################

--- 3 : Q01AC01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3840  3752  3445  2762  1865  1039   477   240   116    58    27    11     7
   14    15   Sum
    4     1 17644
--- 4 : Q01AC03
    1     2   Sum
 8448  9196 17644
--- 9 : Q01AC06
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3840  3000  8345    36    19   132   101  1125   120   584    75   170    86
   14    15   Sum
    3     8 17644
--- 10 : Q01AC07
    1     2     3     4     5     6     7     8     9    10    11    12    13
 6933   326   158   157    75    81    64    45    15    12     5     6     6
   14  <NA>   Sum
    2  9759 17644
--- 11 : Q01AC08
    0     1     2     3     4     5     6     7     8     9    10    11  <NA>
    2  1397  7050   392   122   116    97    43    35    23     3     2  8362
  Sum
17644
--- 12 : Q01AC09
    1     2     3     4  <NA>   Sum
 7274   246  1072  4616  4436 17644
--- 13 : Q01AC10
    0     1     2     3     4     5     6     7     8     9    10    11    12
    1  2977  3144   397   238   155   115    80    44    25    16     9     3
   13    14  <NA>   Sum
    4     2 10434 17644
--- 14 : Q01AC11A
    1     2     3     4     5     8  <NA>   Sum
```

```
17114   272   154     6    80     1    17 17644
--- 15 : Q01AC11B
    1     2  <NA>   Sum
17549    64    31 17644
--- 16 : Q01AC12A
    0     1     2     3     4     5     6     7     8     9  <NA>   Sum
15564   166  1010   126   132   149    46   203   229     2    17 17644
--- 17 : Q01AC12B
    0     1     2     3     4     5     6     7     8     9  <NA>   Sum
 1166    14    66    35     5    26     5     1     2    10 16314 17644
--- 18 : Q01AC12C
    0     1     4     5     9  <NA>   Sum
   71     3     1     2     2 17565 17644
--- 19 : Q01AC13
    1     2  <NA>   Sum
16810   833     1 17644


## 3 #### Frequency of variables in HHFoodConsumption  ###################

--- 3 : Q01BC01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3828  2542  3819  3622  3221  2168  3808  3830  1758  2058  2586  3321  2091
   14    15    16    17    18    19    20    21   Sum
 3822  2020  2049  2077  2055  2488  2989  1632 57784


## 4 #### Frequency of variables in HHRecallNonFood  ###################

--- 3 : Q01CC01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 2766  3293  3412  3829  3699  3717   848  2883   890  2597  1955   962  1189
   14    15    16    17   Sum
 1080  3832   884  2299 40135


## 5 #### Frequency of variables in HHVulnerability  ###################

--- 3 : Q01DQ1
   1    2    3    4  Sum
3291  525    7   20 3843
--- 4 : Q01DQ2
   1    2  Sum
3677  166 3843
--- 5 : Q01DQ3
   0    1    2    3    4    5    6    7    8   12   16   20   24   28   32 <NA>
   5   12   27   25   28    4    4    1    9   11   15   11    7    4    3 3677
 Sum
3843
--- 6 : Q01DQ4_1
   0    1 <NA>  Sum
 146   20 3677 3843
--- 7 : Q01DQ4_2
   0    1 <NA>  Sum
 147   19 3677 3843
--- 8 : Q01DQ4_3
```

```
   0    1 <NA>  Sum
 152   14 3677 3843
--- 9 : Q01DQ4_4
   0    1 <NA>  Sum
 153   13 3677 3843
--- 10 : Q01DQ4_5
   0    1 <NA>  Sum
 153   13 3677 3843
--- 11 : Q01DQ4_6
   0    1 <NA>  Sum
 141   25 3677 3843
--- 12 : Q01DQ4_7
   0    1 <NA>  Sum
 125   41 3677 3843
--- 13 : Q01DQ4_8
   0    1 <NA>  Sum
  96   70 3677 3843
--- 14 : Q01DQ4_9
   0    1 <NA>  Sum
  62  104 3677 3843
--- 15 : Q01DQ4_10
   0    1 <NA>  Sum
  58  108 3677 3843
--- 16 : Q01DQ4_11
   0    1 <NA>  Sum
  99   67 3677 3843
--- 17 : Q01DQ4_12
   0    1 <NA>  Sum
 114   52 3677 3843
--- 18 : Q01DQ5
   1    2    3 <NA>  Sum
  78    8   80 3677 3843


## 6 #### Frequency of variables in PersonEducation  ###################

--- 3 : Q02C01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3840  3748  3290  2538  1670   896   408   192    94    45    17     6     6
   14    15   Sum
    3     1 16754
--- 4 : Q02C1b
    1     2     3     4     5     6     7     8     9    10    11    14  <NA>
 5946  6779  1754  1041   654   331   142    51    32     7     3     1    13
  Sum
16754
--- 5 : Q02C02
    1   Sum
16754 16754
--- 6 : Q02C03
    1     2  <NA>   Sum
12286  4465     3 16754
--- 7 : Q02C04
    1     2  <NA>   Sum
13787  2964     3 16754
--- 8 : Q02C05
```

```
   0    1    2    3    4    5    6    7    8    9   10   11   12
 260  817  971 1376 1512 1547 1237 1380 1059 1027  622  441  798
  13   14   15   16   17   18   19   20 <NA>  Sum
  78  154   90  358   27   27    2    3 2968 16754
--- 9 : Q02C06
   0    1    2    3    4    5    6    7    8    9   10   11   12
 238  630  972 1352 1516 1530 1229 1350 1060  717  577  425  292
  13   14   15   16   17   18   19   20   88 <NA>  Sum
 382  703   50   30   47  377   15    5  290 2967 16754
--- 10 : Q02C07
   1    2 <NA>  Sum
4253 9529 2972 16754
--- 11 : Q02C08
   0    1    2    3    4    5    6    7    8    9   10   11   12
 120  412  515  462  462  376  356  253  219  210  161  159  198
  15   16   17   21 <NA>  Sum
   7    6  329   10 12499 16754
--- 12 : Q02C09
   1    2 <NA>  Sum
3981  274 12499 16754
--- 13 : Q02C10
   1    2 <NA>  Sum
1177 3078 12499 16754
--- 14 : Q02C11
   1    2    3    4    6    7    8    9   10   11   12 <NA>  Sum
 144   69   20    5  230   60   88   14   12  975    7 15130 16754
--- 15 : Q02C12
   1    2  Sum
 820 15934 16754
--- 16 : Q02C13
   1    2 <NA>  Sum
 591  228 15935 16754
--- 17 : Q02C14
   1    2    3    4    5    6 <NA>  Sum
   4   43    6  483   42    7 16169 16754
--- 18 : Q02C15
   1    2 <NA>  Sum
4132 12621    1 16754


## 7 #### Frequency of variables in HHHousing  ###################

--- 3 : Q04_01
   1    2    3    4    5    6    7    9  Sum
3709  106   17    5    1    1    1    1 3841
--- 5 : Q04_03
   1    2    3    4    5    6    7    8   11   12  Sum
2501  933  261   88   41    9    4    2    1    1 3841
--- 6 : Q04_04
   1    2    3    4    5    6    7    8    9  Sum
 805 1777   20  899  298    5   23    8    6 3841
--- 7 : Q04_05
   1    2    3    4    5    6    7    8    9  Sum
 289  882  338 2021    4   14    4  286    3 3841
--- 8 : Q04_06
   1    2    3    4    5    6    8    9  Sum
```

```
 217 1739  766  419    9    2  687    2 3841
--- 9 : Q04_07
   1    2    3    4    5    7    8  Sum
2013   37 1128  594    5   21   43 3841
--- 10 : Q04_08
   1    2    3    4    5    6    7    8    9   10   11   12   13 <NA>  Sum
1199    1  707  158  383  260  117   14  848  103    9   35    5    2 3841
--- 12 : Q04_10M1
   1    2    3    4    5    6    7    8    9 <NA>  Sum
1200  204  101   22   11    7    5    4    1 2286 3841
--- 13 : Q04_10M2
   1    2    3    4    5    6    7    8    9 <NA>  Sum
  60  959  204   81   38   13    5    2    3 2476 3841
--- 14 : Q04_10M3
   1    2    3    4    5    6    7    8    9 <NA>  Sum
  36   15  358  124   49   19   11    4    1 3224 3841
--- 16 : Q04_12
   1    2    3    4    5    6    7    8    9   10   11   12   13  Sum
1217    6  917  182  474  482  173    5   67  253   15   45    5 3841
--- 18 : Q04_14M1
   1    2    3    4    5    6    7    8   10 <NA>  Sum
1631  272  147   35   15   14    6    5    1 1715 3841
--- 19 : Q04_14M2
   1    2    3    4    5    6    7    8    9   14 <NA>  Sum
  90 1279  268  111   50   11   10    1    5    1 2015 3841
--- 20 : Q04_14M3
   1    2    3    4    5    6    7    8    9 <NA>  Sum
  41   24  440  168   59   30   16    6    1 3056 3841
--- 23 : Q04_17
   1    2    3  Sum
2853  333  655 3841
--- 24 : Q04_18A
   1    2 <NA>  Sum
2781  405  655 3841
--- 25 : Q04_18B
   1    2 <NA>  Sum
 613 2573  655 3841
--- 26 : Q04_18C
   1    2 <NA>  Sum
   8 3178  655 3841
--- 27 : Q04_18D
   1    2 <NA>  Sum
   2 3184  655 3841
--- 28 : Q04_18E
   1    2 <NA>  Sum
  38 3148  655 3841
--- 29 : Q04_19A
   1    2    3    4    5    6    7    8  Sum
 739 1299   41   36   20   29 1676    1 3841
--- 30 : Q04_19B
   1    2    3    4 <NA>  Sum
2074  105 1644   15    3 3841
--- 33 : Q04_22A
   1    2    3    5    7    8  Sum
2554  409  836   30    1   11 3841
--- 34 : Q04_22B
```

```
   1    2 <NA>  Sum
 820 2143  878 3841
--- 35 : Q04_22C1
   1    2    3    4    5    6    7    8    9 <NA>  Sum
1649  306  119   38    9   10    6    5    1 1698 3841
--- 36 : Q04_22C2
   1    2    3    4    5    6    7    8    9   10 <NA>  Sum
  74 1117  256  120   53   18   10    3    2    1 2187 3841
--- 37 : Q04_22C3
   1    2    3    4    5    6    7    8    9   13 <NA>  Sum
  15   22  319  131   62   26   12    3    3    1 3247 3841
--- 46 : Q04_24
   1    2    3    4 <NA>  Sum
3532  143  155    2    9 3841


## 8 #### Frequency of variables in HHLandOwnership  ###################

--- 3 : Q05AC01
   1    2    3    4    5    6    7   13  Sum
2169 1070  356  110   42   21   12    1 3781
--- 5 : Q05AC03
   1    2    3    4  Sum
3351  239  142   49 3781
--- 7 : Q05AC04B
   1    2    3 <NA>  Sum
2032 1357   10  382 3781
--- 8 : Q05AC04C
   1    2    3 <NA>  Sum
  31 1732 1616  402 3781
--- 10 : Q05AC05B
   1    2 <NA>  Sum
 110  129 3542 3781
--- 11 : Q05AC05C
   2    3 <NA>  Sum
 109  130 3542 3781
--- 13 : Q05AC06B
   1    2 <NA>  Sum
  78   64 3639 3781
--- 14 : Q05AC06C
   2    3 <NA>  Sum
  76   66 3639 3781
--- 15 : Q05AC07
   1    2    3    5    6    7    8    9   10 <NA>  Sum
2527  441  231  350  144    2    9   69    3    5 3781
--- 17 : Q05AC09
   1    2    3    4    5    6    7    8  Sum
1326 1415  168  449  247   17  143   16 3781
--- 20 : Q05AC12
   1    2    3    4  Sum
2258 1407   40   76 3781
--- 21 : Q05AC13A
   1    2    3    4    5    6    7 <NA>  Sum
 274   15  643 1301   18    4    3 1523 3781
--- 22 : Q05AC13B
   1    2    3    4    5    6    8 <NA>  Sum
```

```
 216   16  599 1022   19    6  380 1523 3781
--- 23 : Q05AC14
   1    2    3    4    5    6    7 <NA>  Sum
 593  361 1188   81   22    6    4 1526 3781
--- 24 : Q05AC15
   1    2    3    4    5    6    7    8    9   10   11   77   88   99  Sum
3235  277   16   20    7    5    3    1    2    1    3   60  150    1 3781
--- 25 : Q05AC16A
   1    2    3    4    5    6 <NA>  Sum
2954  428  167   29  157   28   18 3781
--- 26 : Q05AC16B
   1    2    3    4 <NA>  Sum
   4   30    6   11 3730 3781
--- 27 : Q05AC16C
<NA>  Sum
3781 3781
--- 28 : Q05AC17
   1    2    3    4  Sum
1217  415  297 1852 3781
--- 29 : Q05AC18A
   1    2    3    4    5    6    7    8  Sum
3459  113  138    7    5   14   39    6 3781
--- 30 : Q05AC18B
   2 <NA>  Sum
   1 3780 3781
--- 31 : Q05AC18C
<NA>  Sum
3781 3781
--- 33 : Q05AC20
   1    2  Sum
3437  344 3781
--- 35 : Q05AC22
   1    2    3  Sum
  14   54 3713 3781


## 9 #### Frequency of variables in HHProductionCrops  ###################

--- 3 : WetDry
   1    2  Sum
3057  979 4036
--- 4 : Q05BC01
   1    2    3    4    5    6    7    8    9   10  Sum
2482 1063  313  102   39   21   10    3    2    1 4036
--- 5 : Q05BC02
   1    2    3    4    5    6    7   10  Sum
2291 1176  375  115   42   18   11    8 4036


## 10 #### Frequency of variables in HHCostCultivationCrops  ###################

--- 3 : WetDry
   1    2  Sum
3049  985 4034
--- 4 : Q05CC01
   1    2    3    4    5    6    7    8    9   10  Sum
```

```
2476 1064  316  102   39   20   10    3    2    2 4034
--- 5 : Q05CC02
   1    2    3    4    5    6    7  Sum
2320 1159  373  113   40   18   11 4034


## 11 #### Frequency of variables in HHInventoryCrops  ##################

--- 3 : Q05DC01
   1    2    3    4  Sum
1592  274   41    9 1916


## 12 #### Frequency of variables in HHSalesCrops  ##################

--- 3 : Q05D1C1
   1    2    3    4    5  Sum
1257  291   62   13    2 1625


## 13 #### Frequency of variables in HHLivestock1  ##################

--- 3 : Q05E1C01
    1     2     3     4     5     6     7     8     9    10   Sum
 2062  2059  2059  2060  2058  2057  2061  2041  2037  2032 20526
--- 4 : Q05E1C03
    1     2   Sum
 3872 16654 20526


## 14 #### Frequency of variables in HHLivestock2  ##################

--- 3 : Q05E2C01
   1    2    3    4    5    6  Sum
1024 1788  105  761  126   94 3898


## 15 #### Frequency of variables in HHFishCultivation1  ##################

--- 3 : Q05F1C01
  1   2 Sum
 81   1  82
--- 4 : Q05F1C02
  1   3   5 Sum
 80   1   1  82


## 16 #### Frequency of variables in HHFishCultivation2  ##################

--- 3 : Q05F2C01
   1    2    3    4    5    6    7    8    9   10   11   12  Sum
  99   90   60   65 1712  139  115   62   58   61   62   91 2614


## 17 #### Frequency of variables in HHFishCultivation3  ##################
```

```
--- 3 : Q05F3C01
   1    2    3    4    5    6    7  Sum
 493 1741  781  366  114   81  107 3683


## 18 #### Frequency of variables in HHForestryHunting1  ###################

--- 3 : Q05G1C01
   1    2    3    4    5    6    7    8    9   10  Sum
 133 2225  106  532  114 2116  254  103  189   79 5851


## 19 #### Frequency of variables in HHForestryHunting2  ###################

--- 3 : Q05G2C01
   1    2    3    4    5    6    7  Sum
1004  754  709  707 2060  716  695 6645


## 20 #### Frequency of variables in HHNonAgriculture1  ###################

--- 3 : Q05H1C01
   1    2    3    4  Sum
1442  237   18    6 1703
--- 5 : Q05H1C05
   1    2    3    4    5    6    7    8    9   10   14 <NA>  Sum
 884  591  123   45   25   14   10    2    2    1    1    5 1703
--- 6 : Q05H1C06A
   1    2    3    4    5    6    7    8   10 <NA>  Sum
 200  363  142   81   35   18   12    3    2  847 1703
--- 7 : Q05H1C06B
   1    2    3    4    5    6    7    8    9   12 <NA>  Sum
  19    8   92   44   29   17    2    1    4    1 1486 1703
--- 8 : Q05H1C06C
   1    3    4    5    6    7    9 <NA>  Sum
   4    3   30   12    8    6    1 1639 1703
--- 9 : Q05H1C06D
   1    3    5    6    7    9   11 <NA>  Sum
   1    1    9    4    1    1    1 1685 1703
--- 10 : Q05H1C06E
   6    8 <NA>  Sum
   1    2 1700 1703
--- 11 : Q05H1C06F
   7 <NA>  Sum
   1 1702 1703
--- 12 : Q05H1C06G
<NA>  Sum
1703 1703
--- 13 : Q05H1C06H
<NA>  Sum
1703 1703


## 21 #### Frequency of variables in HHNonAgriculture2  ###################

--- 3 : Q05H2C01
```

```
   1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16
 116  291   41  717  694  877   84  406  407  958  448   31   30  601   46  173
  17   18   19   20   21  Sum
 534  716  132   50   66 7418


## 22 #### Frequency of variables in HHNonAgriculture3  ##################

--- 3 : Q05H3C01
   1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16
 169   85  276   32  846   32   94  276  469   27   58   24   30   28   26   25
  17   18   19   20  Sum
  26   27   25   29 2604


## 23 #### Frequency of variables in HHLiabilities  ##################

--- 3 : Q06_C01
   1    2    3    4    5  Sum
1307   45    9    3    1 1365
--- 6 : Q06_C04
   1    2    3    4    5    6    7    8    9   10  Sum
 218    6   69  249   10    1    2  375  418   17 1365
--- 7 : Q06_C05
   1    2    3    4    5    6    7    8    9   10  Sum
 370  205  416  137    1   37   94   52   43   10 1365


## 24 #### Frequency of variables in HHIncomeOtherSource  ##################

--- 3 : Q07_C01
   1    2    3    4    5    6    7    8    9   10   11   12   13   14  Sum
 195 1273   99   92  162  101   83   76   91  207 1489   95   83  174 4220


## 25 #### Frequency of variables in HHConstruction  ##################

--- 3 : Q08_C01
   1    2    3  Sum
3538   37    1 3576
--- 4 : Q08_C02A
   1    2    3 <NA>  Sum
3519    3   44   10 3576
--- 5 : Q08_C02B
   1    2    3 <NA>  Sum
   1    1  150 3424 3576
--- 6 : Q08_C02C
<NA>  Sum
3576 3576
--- 11 : Q08_C07
   1    2  Sum
  37 3539 3576
--- 13 : Q08_C09
   1    2  Sum
 127 3449 3576
--- 14 : Q08_C10
```

```
   1    2    3 <NA>  Sum
  35   11   80 3450 3576
--- 19 : Q08_C13
   1    2    3    4 <NA>  Sum
   2   11    2   19 3542 3576


## 26 #### Frequency of variables in HHDurableGoods  ##################

--- 4 : Q09_C04
    0     1     2     3     4     5     6     7     8     9    10    11    12
   64 22708  5387  2676  1924   961   515   267   139    53    78     8    12
   13    14    15    16    17    18    20   Sum
    3     1     5     3     1     1     3 34809
--- 5 : Q09_C05A
    1     2     3     4  <NA>   Sum
34202    18   467    29    93 34809
--- 6 : Q09_C05B
    1     2     3     4  <NA>   Sum
11950     6    57     6 22790 34809
--- 7 : Q09_C05C
    1     2     3     4  <NA>   Sum
 6611     2    15     2 28179 34809
--- 8 : Q09_C05D
    1     2     3  <NA>   Sum
 3940     1     4 30864 34809


## 27 #### Frequency of variables in PersonMaternalHealth  ##################

--- 3 : Q10_C01
   1    2    3  Sum
1222   21    2 1245
--- 4 : Q10_C02
   1    2    3    4    5    6    7    8    9   10   11  Sum
  52  891  187   45   36    9   10    5    7    1    2 1245
--- 5 : Q10_C03
   2    3    4    5    6    7    8    9   10   11   12   13   14   15  Sum
   5  235  306  284  201   94   59   28   16   10    4    1    1    1 1245
--- 6 : Q10_C04
   1    2    8  Sum
  58 1183    4 1245
--- 7 : Q10_C05
   1    2    8  Sum
1152   88    5 1245
--- 8 : Q10_C06
   1    2    3    4    5    6    7    8    9   10   11   12   13   14  Sum
 215   22    4  141  121   73  550    5    1    1   56   50    2    4 1245
--- 9 : Q10_C07A
   1    2    3    4    5  Sum
 306  140  681  117    1 1245
--- 10 : Q10_C07B
   1    2    3    4    5    7 <NA>  Sum
  58  127  162    7  218    2  671 1245
--- 11 : Q10_C07C
   2    3    5 <NA>  Sum
```

```
  12   21   20 1192 1245
--- 12 : Q10_C07D
<NA>  Sum
1245 1245


## 28 #### Frequency of variables in PersonHealthU2  ##################

--- 3 : Q11_C01
  1   2 Sum
567  18 585
--- 4 : Q11_C02
   1    2    3    4    5    6    7    8    9   10   11 <NA>  Sum
  24  384   93   28   19    7    6    2    5    1    2   14  585
--- 5 : Q11_C03
   2    3    4    5    6    7    8    9   10   11   12   13   14 <NA>  Sum
   3  101  147  126   90   47   35   15   12    4    2    1    1    1  585
--- 6 : Q11_C04
   1    2 <NA>  Sum
 578    5    2  585
--- 7 : Q11_C05
   1    2 <NA>  Sum
 566   12    7  585
--- 10 : Q11_C07
   1    2 <NA>  Sum
 466  100   19  585
--- 11 : Q11_C08A
   1    2 <NA>  Sum
 179  387   19  585
--- 12 : Q11_C08B
   1    2 <NA>  Sum
 385  182   18  585
--- 13 : Q11_C09
   1    2    8 <NA>  Sum
 564   17    2    2  585
--- 14 : Q11_C10
   1    2    3    4    5 <NA>  Sum
  87  412   50   11    4   21  585
--- 15 : Q11_C11
   1    2 <NA>  Sum
 555    8   22  585


## 29 #### Frequency of variables in PersonIllness  ##################

--- 3 : Q13BC01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3840  3752  3445  2762  1865  1039   477   240   116    58    27    11     7
   14    15   Sum
    4     1 17644
--- 4 : Q13BC2A
    1     2   Sum
 3259 14385 17644
--- 5 : Q13BC2B
    1     2     3     4     5  <NA>   Sum
  703   230   148  1078  1095 14390 17644
```

```
--- 6 : Q13BC03
    1     2  <NA>   Sum
  612  2647 14385 17644
--- 7 : Q13BC04
    1     2     3  <NA>   Sum
  204  2321   734 14385 17644
--- 9 : Q13BC06
    1     2  <NA>   Sum
 3003   256 14385 17644
--- 10 : Q13BC07
    0     1     2     3     4     5     6   Sum
16867    30    13    20    25   654    35 17644
--- 11 : Q13BC08
    0     1     2     3     4     5     6     7     8    10    12    14    15
14424  1386  1011   527   191    67    17     5     2    11     1     1     1
  Sum
17644
--- 12 : Q13BC9A
    1     2     3     4     5     7     8     9    10    11    12    13    14
   70   101    77   294    13     8    82   551   819   435     8   132   594
   15    18  <NA>   Sum
   16    20 14424 17644
--- 13 : Q13BC9B
    1     2     3     4     5     7     8     9    10    11    12    13    14
   34    54    35   134    12     6    45   294   491   191     3    90   409
   15    16    17    18    98  <NA>   Sum
   17     1     1    16     1 15810 17644
--- 14 : Q13BC9C
    1     2  <NA>   Sum
  188  3016 14440 17644
--- 18 : Q13BC12A
    1     2     3     4     5     6  <NA>   Sum
 2188   801   125    20    30    34 14446 17644
--- 19 : Q13BC12B
    1     2     3     4     5     6  <NA>   Sum
    1    41    16     4    11     6 17565 17644
--- 20 : Q13BC12C
    2     3     4     6  <NA>   Sum
    1     1     2     4 17636 17644


## 30 #### Frequency of variables in PersonDisability  ###################

--- 3 : Q14_C01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3840  3752  3445  2762  1865  1039   477   240   116    58    27    11     7
   14    15   Sum
    4     1 17644
--- 4 : Q14_C02A
    0     1     2     3     4     5     6     7     8     9    98   Sum
16884   377    56    25   227    42    23     3     3     3     1 17644
--- 5 : Q14_C02B
    0     1     2     3     4     5     6     7     8  <NA>   Sum
    1    10    59    14    46    23     5     4     2 17480 17644
--- 6 : Q14_C02C
    1     2     3     4     5     6     7     9  <NA>   Sum
```

```
    1     3     3    10     6     5     6     1 17609 17644
--- 7 : Q14_CO3A
    1     2     3  <NA>   Sum
  180   411   169 16884 17644
--- 8 : Q14_CO3B
    1     2     3  <NA>   Sum
   24    98    42 17480 17644
--- 9 : Q14_CO3C
    1     2     3  <NA>   Sum
    4    12    19 17609 17644
--- 10 : Q14_CO4A
    1     2     3     4     5     6     7     8    13    14    15    17    18
   26    30    45   229    71    11     2     3     9    14     1     1   296
   19    98  <NA>   Sum
   16     6 16884 17644
--- 11 : Q14_CO4B
    1     2     3     4     5     6     8    13    14    18    19  <NA>   Sum
    1     4     4    47    16     4     1     3     2    78     3 17481 17644
--- 12 : Q14_CO4C
    2     4     5     6     7    13    14    15    18  <NA>   Sum
    1     6     6     3     1     2     1     1    14 17609 17644
--- 13 : Q14_CO5A
    1     2     3     4     5     6  <NA>   Sum
   53    54     5   380   135   133 16884 17644
--- 14 : Q14_CO5B
    1     2     3     4     5     6  <NA>   Sum
    3     8     2    40    97    58 17436 17644
--- 15 : Q14_CO5C
    1     4     5     6  <NA>   Sum
    2     6     9    47 17580 17644


## 31 #### Frequency of variables in PersonEcoCurrent  ###################

--- 3 : Q15_CO1
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3840  3742  3111  2381  1525   806   362   170    83    37    14     6     6
   14   Sum
    3 16086
--- 4 : Q15_CO2
    1     2     3     4     5     6     7     8     9    10    11   Sum
 5714  6545  1678  1011   601   310   141    45    33     5     3 16086
--- 5 : Q15_CO3
    1     2   Sum
10356  5730 16086
--- 6 : Q15_CO4
    1     2  <NA>   Sum
   30  5700 10356 16086
--- 9 : Q15_CO7
    1     2     3     4     5     6     7     8  <NA>   Sum
  593    15  8695  1012     7    31    23     9  5701 16086
--- 10 : Q15_CO8
    1     2     3     4     5  <NA>   Sum
 3797     5  5367  1215     1  5701 16086
--- 13 : Q15_C10B
    1     2  <NA>   Sum
```

```
 6091  4292  5703 16086
--- 14 : Q15_C10C
    1     2  <NA>   Sum
 3090  1181 11815 16086
--- 15 : Q15_C10D
    1     2  <NA>   Sum
  207 10149  5730 16086
--- 16 : Q15_C11
    0     1     2     3  <NA>   Sum
 7193  2453   708    30  5702 16086
--- 19 : Q15_C14
    1     2     3     4     5  <NA>   Sum
    7     2  3176     6     1 12894 16086
--- 20 : Q15_C15
    1     2     3     4  <NA>   Sum
  169     2  2695   326 12894 16086
--- 23 : Q15_C17B
    1     2  <NA>   Sum
 1642  1546 12898 16086
--- 24 : Q15_C17C
    1     2  <NA>   Sum
  780   731 14575 16086
--- 26 : Q15_C18B
    1     2  <NA>   Sum
  294   443 15349 16086
--- 29 : Q15_C21
    1     2     3  <NA>   Sum
  172   451  9752  5711 16086
--- 32 : Q15_C23
    1     2  <NA>   Sum
  317   134 15635 16086
--- 33 : Q15_C24
    1     2     3  <NA>   Sum
   21   415    15 15635 16086
--- 35 : Q15_C26
    1     2  <NA>   Sum
   15  5686 10385 16086
--- 36 : Q15_C27A
    1     2     3     4     5  <NA>   Sum
    3     1     8     2     1 16071 16086
--- 37 : Q15_C27B
    3     5  <NA>   Sum
    3     1 16082 16086
--- 38 : Q15_C27C
 <NA>   Sum
16086 16086
--- 39 : Q15_C28
    1  <NA>   Sum
   15 16071 16086
--- 42 : Q15_C31
    1     2     3     4     5     6     7     8     9  <NA>   Sum
   10     9    14    35    83   795  3539  1190    11 10400 16086
--- 44 : Q15_C33
    1     2  <NA>   Sum
   27    29 16030 16086
```

```
## 32 #### Frequency of variables in PersonviolenceA  ###################

--- 3 : Q17AC01
    1     2     3     4     5     6     7     8     9    10    11    12    13
 3832  3743  3438  2748  1860  1035   473   238   115    57    27    10     7
   14    15   Sum
    4     1 17588
--- 4 : Q17AC02
    1     2   Sum
   44 17544 17588
--- 5 : Q17AC03
    1     2     3     5  <NA>   Sum
   25    11     7     1 17544 17588


## 33 #### Frequency of variables in PersonViolenceB  ###################

--- 3 : Q17BC01
  1   2   3   4   5 Sum
 13  17   5   6   3  44
--- 4 : Q17BC02
  1   2   3 Sum
 23  14   7  44
--- 5 : Q17BC03
  1   2   3   4   6   8   9  11 Sum
 10   3  11  11   1   5   1   2  44
--- 6 : Q17BC04
  1   2 Sum
 22  22  44
--- 7 : Q17BC05
   1    2    3 <NA>  Sum
  16    3    3   22   44
--- 8 : Q17BC06
   2 <NA>  Sum
  22   22   44
--- 9 : Q17BC07
  1   2   3   4 Sum
  6   2  31   5  44
--- 10 : Q17BC08
  1   2 Sum
 10  34  44
--- 11 : Q17BC09
  1   2   3   4 Sum
 37   4   1   2  44


## 34 #### Frequency of variables in HHOtherInfo  ###################

--- 3 : Q01BQ1
   1    2  Sum
3375  465 3840
--- 4 : Q05AQ1A
   1    2  Sum
 101 3739 3840
--- 5 : Q05AQ1B
```

```
   1    2    3    4    5    6    7 <NA>  Sum
  41    5   13   19    9    8    6 3739 3840
--- 6 : Q05AQ2
   1    2  Sum
2175 1665 3840
--- 7 : Q05AQ3
   1    2    3    4    5    6    7 <NA>  Sum
1102  718  245   68   21    9   12 1665 3840
--- 8 : Q05ANote
   0 <NA>  Sum
2169 1671 3840
--- 9 : Q05BQ1
   1    2 <NA>  Sum
1976  199 1665 3840
--- 10 : Q05BNote
   0    1 <NA>  Sum
1972    1 1867 3840
--- 11 : Q05CNote
   0    1 <NA>  Sum
1971    1 1868 3840
--- 12 : Q05DQ1
   1    2 <NA>  Sum
1592  385 1863 3840
--- 13 : Q05DNote1
   0    1 <NA>  Sum
1971    2 1867 3840
--- 14 : Q05D1Q1
   1    2 <NA>  Sum
1262  715 1863 3840
--- 15 : Q05DNote2
   0    1 <NA>  Sum
1970    1 1869 3840
--- 16 : Q05EQ1
   1    2  Sum
2064 1776 3840
--- 17 : Q05ENote1
   0 <NA>  Sum
3816   24 3840
--- 18 : Q05ENote2
   0    1 <NA>  Sum
3815    1   24 3840
--- 19 : Q05FQ1
   1    2  Sum
  48 3792 3840
--- 20 : Q05FQ2
   1    2  Sum
  81 3759 3840
--- 21 : Q05FNote1
   0    1 <NA>  Sum
3812    3   25 3840
--- 22 : Q05FQ3
   1    2  Sum
1744 2096 3840
--- 23 : Q05FNote2
   0    1 <NA>  Sum
3815    2   23 3840
```

```
--- 24 : Q05FNote3
   0 <NA>  Sum
3817   23 3840
--- 25 : Q05GQ1
   1    2  Sum
2264 1576 3840
--- 26 : Q05GQ2
   1    2  Sum
2145 1695 3840
--- 27 : Q05GNote1
   0 <NA>  Sum
3817   23 3840
--- 28 : Q05GNote2
   0 <NA>  Sum
3816   24 3840
--- 29 : Q05HQ1
   1    2  Sum
1443 2397 3840
--- 30 : Q05HNote1
   0 <NA>  Sum
3817   23 3840
--- 31 : Q05HNote2
   0 <NA>  Sum
3818   22 3840
--- 32 : Q05HNote3
   0 <NA>  Sum
3815   25 3840
--- 33 : Q06_Q1
   1    2  Sum
1308 2532 3840
--- 34 : Q08_Q1
   1    2  Sum
3537  303 3840
--- 35 : Q10_Q1
   1    2  Sum
1237 2603 3840
--- 36 : Q11_Q1
   1    2  Sum
 565 3275 3840
--- 37 : Q13AQ1
   1    2  Sum
 416 3424 3840
--- 38 : Q13AQ2A
   1    2    3    4    6    8 <NA>  Sum
 232  167    5    6    3    3 3424 3840
--- 39 : Q13AQ2B
   1    2    3    4    5    6    8 <NA>  Sum
   5  114   27   34    3    3    5 3649 3840
--- 40 : Q13AQ2C
   3    4    5    6 <NA>  Sum
  36   58    5   16 3725 3840
--- 41 : Q13AQ3
   1    2    3    4    5    8 <NA>  Sum
 196   87   36   30   13   54 3424 3840
--- 42 : Q13AQ4
   1    2    8 <NA>  Sum
```

```
 107 3315    2  416 3840
--- 43 : Q17AQ1
   1    2  Sum
3311  529 3840
--- 44 : Q17AQ2
   1    2  Sum
 156 3684 3840
--- 45 : Q17AQ3
   1    2  Sum
 246 3594 3840


## 35 #### Frequency of variables in PSUListing  ###################

--- 2 : Province_Code
 01  02  03  04  05  06  07  08  09  10  11  12  13  14  15  16  17  18  19  20
 18  29  42  12  18  14  16  26   5   6   3  78   3  24  11   3  24   7   5  11
 21  22  23  24 Sum
 18   6   1   4 384
--- 12 : UrbanRural
  1   2 Sum
144 240 384
--- 14 : SurveyMonth
  1   2   3   4   5   6   7   8   9  10  11  12 Sum
 32  32  32  32  32  32  32  32  32  32  32  32 384


## 36 #### Frequency of variables in weighthouseholds  ###################

--- 3 : urbrur
   1    2  Sum
1440 2400 3840
--- 4 : Stratum
   1    2  Sum
1440 2400 3840
--- 5 : Poststratum
 101  102   11  111  112   12  121  122  132  141  142  151  152  162  171  172
  10   50   80   10   20  100  740   40   30   20  220   20   90   30   90  150
 181  182  191  192  202   21  212   22  221  222  232  241  242   31   32   41
  50   20   20   30  110  110  180  180   20   40   10   20   20   60  360   30
  42   51   52   61   62   71   72   81   82   91   92  Sum
  90   30  150   10  130   40  120   50  210   30   20 3840
--- 6 : hhsize
   1    2    3    4    5    6    7    8    9   10   11   12   13   14   15  Sum
  88  307  683  897  826  562  237  124   58   31   16    4    3    3    1 3840


## 37 #### Frequency of variables in weightpersons  ###################

--- 4 : urbrur
    1     2   Sum
 6478 11166 17644
--- 5 : Stratum
    1     2   Sum
 6478 11166 17644
--- 6 : Poststratum
```

```
  101   102    11   111   112    12   121   122   132   141   142   151   152
   41   243   370    41    95   466  3307   187   155    80   952    88   418
  162   171   172   181   182   191   192   202    21   212    22   221   222
  153   397   759   232   106   107   128   474   501   822   860    97   181
  232   241   242    31    32    41    42    51    52    61    62    71    72
   45    95    87   271  1711   150   383   136   694    48   634   154   528
   81    82    91    92   Sum
  225   996   138    89 17644
>
```

5.3 Relationship among data files and identifiers

Data file: 01 Household

The number of sample household is 3,840.

The variables are HHID, PSU, HHnumber, Males, Females, and Total.

The variable HHID is unique, and consisted of PSU and HHnumber.

```
> d<-outfiles[[1]]
> dim(d)
[1] 3840   10
> head(d)
     HHID   PSU HHnumber Males Females Total SupervisorId RowDiff
1 0100301 01003       01     1       1     2          011       0
2 0100302 01003       02     3       2     5          011       0
3 0100303 01003       03     3       5     8          011       0
4 0100304 01003       04     2       3     5          011       0
5 0100305 01003       05     3       2     5          011       0
6 0100306 01003       06     0       3     3          011       0
              SignOut Operator
1 2013-01-18 18:07:00     zada
2 2013-01-18 18:31:00     zada
3 2013-01-18 19:04:00     zada
4 2013-01-18 19:38:00     zada
5 2013-01-18 20:10:00     zada
6 2013-01-21 20:13:00     zada
> table(d$HHID==paste(d$PSU,d$HHnumber,sep=""))
TRUE
3840
> length(unique(d$HHID))
[1] 3840
> table(d$Total==(d$Male+d$Female))
TRUE
3840
```

Data file: 02 HHMembers

The number of sample household members is 17,644.

The unique number of hhid is 3,840, and perfectly the same as 01 Household.

```
> d<-outfiles[[2]]
> dim(d)
[1] 17644    23
> head(d)
  pkid    hhid Q01AC01 Q01AC03 Q01AC04A Q01AC04B Q01AC04C Q01AC05 Q01AC06
1    2 2101910       1       1        23        3     1972      39       1
2    3 2101910       2       2         4        6     1974      37       2
3    4 2101910       3       1        29       11     1992      19       3
4    5 2101910       4       1        20       11     1995      16       3
5    6 2101910       5       2        20        8     2008       3       3
6    7 0803010       1       1        10        9     1983      28       1
  Q01AC07 Q01AC08 Q01AC09 Q01AC10 Q01AC11A Q01AC11B Q01AC12A Q01AC12B Q01AC12C
1      NA      NA       1       2        1        1        2        0       NA
2      NA      NA       1       1        1        1        0       NA       NA
3       1       2       4      NA        1        1        0       NA       NA
4       1       2       4      NA        1        1        2        0       NA
5       1       2      NA      NA        1        1        0       NA       NA
6      NA      NA       1       2        1        1        0       NA       NA
  Q01AC13 Q01AC14 EntryUser          ChangeDate    Persid
1       1      NA      riya 2012-02-21 19:17:00 210191001
2       1      NA      riya 2012-02-21 19:17:00 210191002
3       1      NA      riya 2012-02-21 19:17:00 210191003
4       2      30      riya 2012-02-21 19:18:00 210191004
5       1      NA      riya 2012-02-21 19:18:00 210191005
6       1      NA   morokat 2012-02-21 19:24:00 080301001
> length(unique(d$HHID))
[1] 3840
> t<-unique(d$HHID)
> table(t[order(t)]==outfiles[[1]]$HHID)
TRUE
3840
```

- The number of members within the household is compatible with 01 Household.

However, the number of household member by sex differs in two sample households.

```
> table(tapply(d$pkid,d$HHID,length)==outfiles[[1]]$Total)
TRUE
3840

# Q01AC03: Sex
# Number of household members by sex within the household
> t<-tapply(d$pkid,list(d$HHID,d$Q01AC03),length)
> t[is.na(t)]<-0
> table(t[,1]==outfiles[[1]]$Male)
FALSE  TRUE
    2  3838
> table(t[,2]==outfiles[[1]]$Female)
FALSE  TRUE
    2  3838
```

- Two sample households with erroneous number of household members by sex

```
> outfiles[[1]][t[,1]!=outfiles[[1]]$Male,1:6]
        HHID   PSU HHnumber Males Females Total
143  0102503 01025       03     0       1     1
1629 0802209 08022       09     0       1     1

> subset(outfiles[[1]],HHID=="0102503")[1:6]
       HHID   PSU HHnumber Males Females Total
143 0102503 01025       03     0       1     1
> d[d$HHID=="0102503",1:9]
     pkid    hhid Q01AC01 Q01AC03 Q01AC04A Q01AC04B Q01AC04C Q01AC05 Q01AC06
3964 1773 0102503       1       1       17        1     1950       62       1
```

Summary:

The household with HHID=0102503 should have only one male members.

```
> subset(outfiles[[1]],HHID=="0802209")[1:6]
        HHID   PSU HHnumber Males Females Total
1629 0802209 08022       09     0       1     1
> d[d$HHID=="0802209",1:9]
     pkid    hhid Q01AC01 Q01AC03 Q01AC04A Q01AC04B Q01AC04C Q01AC05 Q01AC06
8796 9145 0802209       1       1       15         9     1950       61        1
```

Data file: 35 PSUListing

The number of PSU is 384.

The file includes variables of Province_Code and UrbanRural.

```
> d<-outfiles[[35]]
> dim(d)
[1] 384  16
> head(d)
    PSU Province_Code    Province_Name District_Code    District_Name Commune_Code
1 01003            01 Banteay Meanchey           02    Mongkol Borei           08
2 01006            01 Banteay Meanchey           02    Mongkol Borei           13
3 01007            01 Banteay Meanchey           03       Phnum Srok           03
4 01008            01 Banteay Meanchey           04 Preah Netr Preah           02
5 01011            01 Banteay Meanchey           05         Ou Chrov           03
6 01012            01 Banteay Meanchey           05         Ou Chrov           09
  Commune_Name Village_Code     Village_Name Enum_Areas Selected_EA UrbanRural Households
1   Rohat Tuek           13       Chak Kaeut          2           2          2        119
2       Ta Lam           07 Khla Kham Chhkae          2           2          2        141
3       Ponley           04       Svay Khmau          3           2          2        275
4    Chob Vari           07      Chreab Chas          2           1          2        189
5     Kuttasat           03        Kuttaksat          4           3          2        462
6  Ou Beichaon           09        Thnal Bat          2           1          2        291
  SurveyMonth HouseholdsInVillage HouseholdsInListing
1           8                 143                 63
2           8                 182                 64
3           3                 305                112
4           3                 176                 81
5           5                 550                 65
6           5                 245                 67
```

Data file: 36 weighthouseholds

This file corresponds to the file 01 Household.

The files includes variables of urbrur, Stratum, Poststratum and hhsize.

The sum of houseold weight, that is, estimated number of households is 3,082,446.

The estimated number of household member is 14,273,806.

```
> d<-outfiles[[36]]
> dim(d)
[1] 3840    7
> head(d)
    PSU    HHID urbrur Stratum Poststratum hhsize    hw12a
1 01003 0100301      2       2          12      2 1236.831
2 01003 0100302      2       2          12      5 1236.831
3 01003 0100303      2       2          12      8 1236.831
4 01003 0100304      2       2          12      5 1236.831
5 01003 0100305      2       2          12      5 1236.831
6 01003 0100306      2       2          12      3 1236.831
> table(outfiles[[1]]$HHID==outfiles[[36]]$HHID)
TRUE
3840
> sum(d$hw12a)
[1] 3082446
> sum(d$hhsize*d$hw12a)
[1] 14273806
```

- Stratum

The variable of Stratum has two categories, which correspond to urban and rural.

The number of categories of Poststratum is 43.

```
> table(d$Stratum,d$urbrur)
       1    2
  1 1440    0
  2    0 2400
> length(unique(d$Poststratum))
[1] 43
> table(d$Stratum,d$Poststratum)
```

```
   101 102  11 111 112  12 121 122 132 141 142 151 152 162 171 172 181 182 191 192 202  21
1   10   0  80  10   0   0 740   0   0  20   0  20   0   0  90   0  50   0  20   0   0 110
2    0  50   0   0  20 100   0  40  30   0 220   0  90  30   0 150   0  20   0  30 110   0

   212  22 221 222 232 241 242  31  32  41  42  51  52  61  62  71  72  81  82  91  92
1    0   0  20   0   0  20   0  60   0  30   0  30   0  10   0  40   0  50   0  30   0
2  180 180   0  40  10   0  20   0 360   0  90   0 150   0 130   0 120   0 210   0  20
```

Whaht is poststratum?

- Three Regions

NIS often uses three regions; “Phnom Pen”(including urban and rural), “Other urban” and “Other rural” in a table.

So, generated the variable of region;

Phnom Pen: Province_Code=12 in data file “35 PSUListing”

Urbanrural: urbrur in data file “36 weighthouseholds”

Variables of PSU and HHID in data file “01 Households” and “36 weighthouseholds”

```
> d<-merge(d,outfiles[[35]][,c("PSU","Province_Code")],by="PSU",all.x=T)
> dim(d)
[1] 3840    8
> head(d)
    PSU    HHID urbrur Stratum Poststratum hhsize    hw12a Province_Code
1 01003 0100301      2       2          12      2 1236.831            01
2 01003 0100302      2       2          12      5 1236.831            01
3 01003 0100303      2       2          12      8 1236.831            01
4 01003 0100304      2       2          12      5 1236.831            01
5 01003 0100305      2       2          12      5 1236.831            01
6 01003 0100306      2       2          12      3 1236.831            01

> d$region<-ifelse(d$Province_Code==12,1,0)
> d$region<-ifelse(d$region==0 & d$urbrur==1, 2, d$region)
> d$region<-ifelse(d$region==0 & d$urbrur==2, 3, d$region)
> t<-table(d$region)
> names(t)<-c("Phnom Pen","Other urban","Other rural")
# Number of sample households by three regions
> addmargins(t)
```

```
  Phnom Pen Other urban Other rural          Sum
        780          700         2360        3840
> head(d)
    PSU    HHID urbrur Stratum Poststratum hhsize    hw12a Province_Code region
1 01003 0100301      2       2          12       2 1236.831            01      3
2 01003 0100302      2       2          12       5 1236.831            01      3
3 01003 0100303      2       2          12       8 1236.831            01      3
4 01003 0100304      2       2          12       5 1236.831            01      3
5 01003 0100305      2       2          12       5 1236.831            01      3
6 01003 0100306      2       2          12       3 1236.831            01      3
> dim(d)
[1] 3840    9

> outfiles[[36]]<-d
```

Data file: 37 weightpersons

This file corresponds to the file 02 HHMembers.

The variable of PersID, personal identifier is composed of variables of hhid and Q01AC01 in 02 HHMembers.

The sum of person weight is 14,376,414.

```
> d<-outfiles[[37]]
> dim(d)
[1] 17644     8
> head(d)
     PersID   PSU    HHID urbrur Stratum Poststratum    hw12a    pw12a
1 010030101 01003 0100301      2       2           12 1236.831 1043.975
2 010030102 01003 0100301      2       2           12 1236.831 1043.692
3 010030201 01003 0100302      2       2           12 1236.831 1283.659
4 010030202 01003 0100302      2       2           12 1236.831 1222.307
5 010030203 01003 0100302      2       2           12 1236.831 1338.835
6 010030204 01003 0100302      2       2           12 1236.831 1247.047

> d<-outfiles[[2]]
> d$PersID<-paste(d$hhid,formatC(d$Q01AC01,width=2,flag="0"),sep="")
> d<-d[order(d$PersID),]
> table(d$PersID==outfiles[[37]]$PersID)
 TRUE
17644

> d<-outfiles[[37]]
> sum(d$pw12a)
[1] 14376414
```

- Rearrangement of data files
- **The variable label “hhid” should be replaced with “HHID”.**

```
> outfiles.old<-outfiles
> for(j in 2:34){
+ d<-outfiles[[j]]
+ colnames(d)[2]<-"HHID"
+ outfiles[[j]]<-d
+ }
```

Confirmed by;

```
> for(j in 1:37){
+ d<-outfiles[[j]]
+ cat(j,":",colnames(d),"¥n")
+ }
```

```
> save(outfiles,Rnames,file="CSES2012_rearrange3.RData")
```

- The variable of personal identifier “PersID” or “persid” should be replaced with “PID”.

```
> outfiles.old<-outfiles
> colnames(outfiles[[2]])
  [1] "pkid"            "HHID"            "Q01AC01"       "Q01AC03"       "Q01AC04A"
  [6] "Q01AC04B"      "Q01AC04C"      "Q01AC05"       "Q01AC06"       "Q01AC07"
[11] "Q01AC08"       "Q01AC09"       "Q01AC10"       "Q01AC11A"      "Q01AC11B"
[16] "Q01AC12A"      "Q01AC12B"      "Q01AC12C"      "Q01AC13"       "Q01AC14"
[21] "EntryUser"    "ChangeDate" "Persid"
> colnames(outfiles[[2]])[23]<-"PID"

> colnames(outfiles[[27]])
  [1] "pkid"            "HHID"            "Q10_C01"       "Q10_C02"       "Q10_C03"
  [6] "Q10_C04"       "Q10_C05"       "Q10_C06"       "Q10_C07A"      "Q10_C07B"
[11] "Q10_C07C"      "Q10_C07D"      "EntryUser"    "ChangeDate" "persid"
> colnames(outfiles[[27]])[15]<-"PID"
> colnames(outfiles[[28]])
  [1] "pkid"              "HHID"              "Q11_C01"           "Q11_C02"
  [5] "Q11_C03"           "Q11_C04"           "Q11_C05"           "Q11_C06A"
  [9] "Q11_C06B"          "Q11_C07"           "Q11_C08A"          "Q11_C08B"
[13] "Q11_C09"           "Q11_C10"           "Q11_C11"           "EntryUser"
[17] "ChangeDate"      "Persid"            "PersidMother"
> colnames(outfiles[[28]])[18]<-"PID"
> colnames(outfiles[[29]])
  [1] "pkid"            "HHID"            "Q13BC01"       "Q13BC2A"       "Q13BC2B"
  [6] "Q13BC03"       "Q13BC04"       "Q13BC05"       "Q13BC06"       "Q13BC07"
[11] "Q13BC08"       "Q13BC9A"       "Q13BC9B"       "Q13BC9C"       "Q13BC9D"
```

```
[16] "Q13BC10"       "Q13BC11"       "Q13BC12A"      "Q13BC12B"      "Q13BC12C"
[21] "EntryUser"    "ChangeDate" "persid"
> colnames(outfiles[[29]])[23]<-"PID"
> colnames(outfiles[[30]])
  [1] "pkid"            "HHID"            "Q14_C01"       "Q14_C02A"      "Q14_C02B"
  [6] "Q14_C02C"      "Q14_C03A"      "Q14_C03B"      "Q14_C03C"      "Q14_C04A"
[11] "Q14_C04B"      "Q14_C04C"      "Q14_C05A"      "Q14_C05B"      "Q14_C05C"
[16] "EntryUser"    "ChangeDate" "Persid"
> colnames(outfiles[[30]])[18]<-"PID"
> colnames(outfiles[[31]])
  [1] "pkid"            "HHID"            "Q15_C01"       "Q15_C02"       "Q15_C03"
  [6] "Q15_C04"       "Q15_C05B"      "Q15_C06B"      "Q15_C07"       "Q15_C08"
[11] "Q15_C09"       "Q15_C10A"      "Q15_C10B"      "Q15_C10C"      "Q15_C10D"
[16] "Q15_C11"       "Q15_C12B"      "Q15_C13B"      "Q15_C14"       "Q15_C15"
[21] "Q15_C16"       "Q15_C17A"      "Q15_C17B"      "Q15_C17C"      "Q15_C18A"
[26] "Q15_C18B"      "Q15_C19"       "Q15_C20"       "Q15_C21"       "Q15_C22A"
[31] "Q15_C22B"      "Q15_C23"       "Q15_C24"       "Q15_C25"       "Q15_C26"
[36] "Q15_C27A"      "Q15_C27B"      "Q15_C27C"      "Q15_C28"       "Q15_C29"
[41] "Q15_C30"       "Q15_C31"       "Q15_C32"       "Q15_C33"       "EntryUser"
[46] "ChangeDate" "Persid"
> colnames(outfiles[[31]])[47]<-"PID"
> colnames(outfiles[[32]])
[1] "pkid"            "HHID"            "Q17AC01"       "Q17AC02"       "Q17AC03"
[6] "EntryUser"    "ChangeDate" "persid"
> colnames(outfiles[[32]])[8]<-"PID"
> colnames(outfiles[[33]])
  [1] "pkid"            "HHID"            "Q17BC01"       "Q17BC02"       "Q17BC03"
  [6] "Q17BC04"       "Q17BC05"       "Q17BC06"       "Q17BC07"       "Q17BC08"
[11] "Q17BC09"       "EntryUser"    "ChangeDate" "persid"
> colnames(outfiles[[33]])[14]<-"PID"
```

Chapter 6. Household Expenditure

Background

CSES2012 data has been collected by interviewers (NIS officials) using both recall and diary methods. However, the estimation of household income and expenditure is principally based on recall data.

There are some descriptions on how to use the data in the CSES2009 survey report as below.
CSES2012 is almost the same as CSES2009 with some differences, which are also noted in the below table.

Page	Related description in the survey report
6	Expenditure: the household expenditure in Cambodia 2009 was **calculated using recall data** from the household questionnaire.
104	Consumption data in the 2009 survey was collected using recall questions in the household questionnaire. Consumption data was also collected in a Diary where all expenditure transactions and consumption of own produced goods during the survey month were reported. The diary method was introduced in CSES 2004. For calculating poverty estimates the recall data was used all years. However, for 2004 poverty estimates were calculated using both methods. The most recent presentation of Poverty Estimates was carried out by the World Bank.
104	The result presented in this chapter is compiled from recall data. The household questionnaire had two sets of questions, one for food expenditure/consumption and the second set for non-food expenditure. The questionnaire was designed to collect data on purchase in cash, consumption of own production, consumption of items received as wages in kind. It also included gifts, free collection and barter, and in kind expenditure. The food section comprised 20 items(*) covering all food, including **alcoholic, tobacco**, and food taken away from home, prepared meals bought outside and eaten at home. The non-food section embraced 13 items(**) covering all non-food expenditure except housing. Expenditure on housing was collected in the Housing module. The reference period for food items was the last seven days. For non-food items the reference period varied from last month to last 12 month (see the Questionnaire in appendix 8). (Note) * The food section of CSES2012 comprised 21 items. “Cereals” in CSES 2009 is divided into “rice” and “other cereals”. ** The non-food section of CSES2012 appended 14-17 items, which are non-consumption expenditure to be used for calculating disposable income.

105	In this report the monthly consumption is calculated. The consumption concept used in this report differ from the calculation of consumption for poverty estimates where adjustments for price differences, rental values etc. is done, see section Definition and World Bank report.
107 - 108	The grouping of items follows the questionnaire, except for domestic salaries and gambling. Domestic salaries are included in Furniture, household operation etc. Gambling is excluded to be consistent with the income concept where income from Gambling and lotteries is excluded in total income. For "Housing" charges on water, sewage, wastewater disposal, garbage collection and fuel for lighting and cooking are included as well as paid rent. For owner occupied houses the household was asked to estimate the value for rent of a similar house. Expenditure spent on maintenance and minor repairs is also included(*). All this data are collected in the Housing module. Food share are calculated as the share of total consumption. Food includes all food items, non-alcoholic and alcoholic beverages. (Note) * Questions on expenditure spent on maintenance and repairs is not included in Housing questionnaire of CSES2012.
Table	Classification of consumption composition used in tables is as below; Food and non-alcoholic beverages Alcohol and tobacco Clothing and footwear Housing, water, electricity Furnishing etc Health Transportation Communication Recreation and culture Education Miscellaneous goods Total (Note) The above consumption composition is the same as CSES2012.

6.1 FOOD ITEMS

☐ Created household-level data frame consisted of vectors of food items.

```
# outfiles[[3]]: HHFoodConsumption
# Q01BC01: Item number (01 to 21)
# Q01BC05: Total consumption in the last 7 days
> d<-outfiles[[3]]
> df<-tapply(d$ Q01BC05,list(d$HHID,d$ Q01BC01),sum)
> dim(df)
[1] 3840   21
> head(df)
            1     2     3     4    5    6    7     8    9   10 11   12   13    14 15   16   17
0100301 16000  7000 20000 18000 5000   NA 3000 10000   NA   NA NA 5000   NA  7000 NA   NA   NA
0100302 16000 10000 27000 13000 2000   NA 3000 14000   NA   NA NA   NA   NA 10000 NA   NA 3000
0100303 28000  7000 20000 20000   NA 2500 4000 22000   NA   NA NA   NA   NA 10000 NA   NA   NA
0100304 16000  7000 20000 16000 3000 6000 3000 13000   NA   NA NA 6000   NA  7000 NA   NA   NA
0100305 23100  6000 40000 13000 3000   NA 2000 12000 2500 1000 NA 7000   NA 12000 NA 4000 4000
0100306 15000  4000 15000 20000 2000   NA 1300  7000 2000   NA NA 3000 4000 10000 NA   NA   NA
          18   19    20   21
0100301   NA 3000    NA   NA
0100302   NA 4000    NA   NA
0100303   NA 3000 17000   NA
0100304   NA   NA    NA   NA
0100305 9100 2000 35000 5000
0100306   NA 2000 20000   NA
> df[is.na(df)]<-0
> df<-as.data.frame(df)
> hhfood<-df

# Converted to monthly
> hhfood<-round(hhfood*52/12)
> head(hhfood)
             1     2      3     4     5     6     7     8     9   10 11    12    13    14 15
0100301  69333 30333  86667 78000 21667     0 13000 43333     0    0  0 21667     0 30333  0
0100302  69333 43333 117000 56333  8667     0 13000 60667     0    0  0     0     0 43333  0
0100303 121333 30333  86667 86667     0 10833 17333 95333     0    0  0     0     0 43333  0
0100304  69333 30333  86667 69333 13000 26000 13000 56333     0    0  0 26000     0 30333  0
0100305 100100 26000 173333 56333 13000     0  8667 52000 10833 4333  0 30333     0 52000  0
0100306  65000 17333  65000 86667  8667     0  5633 30333  8667    0  0 13000 17333 43333  0
           16    17    18    19     20    21
0100301     0     0     0 13000      0     0
0100302     0 13000     0 17333      0     0
0100303     0     0     0 13000  73667     0
0100304     0     0     0     0      0     0
0100305 17333 17333 39433  8667 151667 21667
0100306     0     0     0  8667  86667     0

Remarks:
Here, the multiplier of 52/12 is used instead of 30/7.


# Generated data frame exp.food with variables of HHID and 21 item groups
> exp.food<-data.frame(HHID=rownames(hhfood),hhfood,row.names=NULL)
> colnames(exp.food)[2:22]<-paste("item",formatC(1:21,width=2,flag="0"),sep="")
> head(exp.food)
```

```
     HHID item01 item02 item03 item04 item05 item06 item07 item08 item09 item10 item11 item12
1 0100301  69333  30333  86667  78000  21667      0  13000  43333      0      0      0  21667
2 0100302  69333  43333 117000  56333   8667      0  13000  60667      0      0      0      0
3 0100303 121333  30333  86667  86667      0  10833  17333  95333      0      0      0      0
4 0100304  69333  30333  86667  69333  13000  26000  13000  56333      0      0      0  26000
5 0100305 100100  26000 173333  56333  13000      0   8667  52000  10833   4333      0  30333
6 0100306  65000  17333  65000  86667   8667      0   5633  30333   8667      0      0  13000
  item13 item14 item15 item16 item17 item18 item19 item20 item21
1      0  30333      0      0      0      0  13000      0      0
2      0  43333      0      0  13000      0  17333      0      0
3      0  43333      0      0      0      0  13000  73667      0
4      0  30333      0      0      0      0      0      0      0
5      0  52000      0  17333  17333  39433   8667 151667  21667
6  17333  43333      0      0      0      0   8667  86667      0



# Generated the variables;
# food: sum of items 01:16,19:21
# alcohol: sum of items 17 and 18
# total: sum of items 01:21
> exp.food$food<-rowSums(exp.food[,c(2:17,20:22)])
> exp.food$alcohol<-rowSums(exp.food[,18:19])
> exp.food$total<-rowSums(exp.food[,2:22])
> head(exp.food)
     HHID item01 item02 item03 item04 item05 item06 item07 item08 item09 item10 item11 item12
1 0100301  69333  30333  86667  78000  21667      0  13000  43333      0      0      0  21667
2 0100302  69333  43333 117000  56333   8667      0  13000  60667      0      0      0      0
3 0100303 121333  30333  86667  86667      0  10833  17333  95333      0      0      0      0
4 0100304  69333  30333  86667  69333  13000  26000  13000  56333      0      0      0  26000
5 0100305 100100  26000 173333  56333  13000      0   8667  52000  10833   4333      0  30333
6 0100306  65000  17333  65000  86667   8667      0   5633  30333   8667      0      0  13000
  item13 item14 item15 item16 item17 item18 item19 item20 item21   food alcohol  total
1      0  30333      0      0      0      0  13000      0      0 407333       0 407333
2      0  43333      0      0  13000      0  17333      0      0 428999   13000 441999
3      0  43333      0      0      0      0  13000  73667      0 578499       0 578499
4      0  30333      0      0      0      0      0      0      0 420332       0 420332
5      0  52000      0  17333  17333  39433   8667 151667  21667 726266   56766 783032
6  17333  43333      0      0      0      0   8667  86667      0 456300       0 456300
```

- Average monthly amount of food consumption by food items (in thousand Riels)

```
# Estimated monthly total amount of food consumption (in million Riels)
> table(exp.food$HHID==outfiles[[36]]$HHID)
TRUE
3840
> hw<-outfiles[[36]]$hw12a  # household weight
> tm<-sapply(exp.food[,2:25],function(x) round(sum(x*hw)))  # in Riels
> round(tm/10^6)  # in million Riels
 item01  item02  item03  item04  item05  item06  item07  item08  item09  item10  item11
 354896   68691  398010  260085   39332   35551   39514  159083   11833   12012   17039
 item12  item13  item14  item15  item16  item17  item18  item19  item20  item21    food
  93111   19482  101837   27609   33622   57612   35937   29791  181005   36387 1918891
alcohol   total
  93548 2012439
```

```
# Average monthly amount of food consumption by food item (in thousand Riels)
# Per household
> (NH<-sum(hw)) # estimated number of households
[1] 3082446
> (th<-round(tm/NH/1000))
 item01  item02  item03  item04  item05  item06  item07  item08  item09  item10  item11
    115      22     129      84      13      12      13      52       4       4       6
 item12  item13  item14  item15  item16  item17  item18  item19  item20  item21    food
     30       6      33       9      11      19      12      10      59      12     623
alcohol   total
     30     653

# Item names
> t0<-c("Rice","Cereals","Fish","Meat & poultry","Eggs","Dairy products","Oil and fats",
+ "Fresh vegetables","Tuber","Pulses and legumes","Prepared and preserved vegetables",
+ "Fruit etc.","Dried nuts and edible seeds","Sugar, salt and spices","Tea, coffee, cocoa",
+ "Non-alcoholic beverages","Alcoholic beverages","Tobacco products","Other food products",
+ "Food taken away from home","Prepared meals bought outside and eaten at home")
> t0<-c(t0,"Food and non-alcoholic beverages","Alcohol and tobacco","Food total")

# Average monthly amount of food consumption per household
# by food items (in thousand Riels)
> (m<-data.frame(item=t0,perhh=th,row.names=NULL))
                                                item perhh
1                                                Rice   115
2                                             Cereals    22
3                                                Fish   129
4                                        Meat & poultry    84
5                                                Eggs    13
6                                        Dairy products    12
7                                          Oil and fats    13
8                                      Fresh vegetables    52
9                                                Tuber     4
10                                 Pulses and legumes     4
11                Prepared and preserved vegetables     6
12                                       Fruit etc.    30
13                     Dried nuts and edible seeds     6
14                          Sugar, salt and spices    33
15                              Tea, coffee, cocoa     9
16                          Non-alcoholic beverages    11
17                              Alcoholic beverages    19
18                                 Tobacco products    12
19                              Other food products    10
20                         Food taken away from home    59
21 Prepared meals bought outside and eaten at home    12
22                  Food and non-alcoholic beverages   623
23                              Alcohol and tobacco    30
24                                       Food total   653
```

```
> str(exp.food)
'data.frame':   3840 obs. of  25 variables:
 $ HHID   : Factor w/ 3840 levels "0100301","0100302",..: 1 2 3 4 5 6 7 8 9 10 ...
 $ item01 : num  69333 69333 121333 69333 100100 ...
 $ item02 : num  30333 43333 30333 30333 26000 ...
 $ item03 : num  86667 117000 86667 86667 173333 ...
 $ item04 : num  78000 56333 86667 69333 56333 ...
 $ item05 : num  21667 8667 0 13000 13000 ...
 $ item06 : num  0 0 10833 26000 0 ...
 $ item07 : num  13000 13000 17333 13000 8667 ...
 $ item08 : num  43333 60667 95333 56333 52000 ...
 $ item09 : num  0 0 0 0 10833 ...
 $ item10 : num  0 0 0 0 4333 ...
 $ item11 : num  0 0 0 0 0 0 0 6500 13000 0 ...
 $ item12 : num  21667 0 0 26000 30333 ...
 $ item13 : num  0 0 0 0 0 ...
 $ item14 : num  30333 43333 43333 30333 52000 ...
 $ item15 : num  0 0 0 0 0 0 0 0 0 0 ...
 $ item16 : num  0 0 0 0 17333 ...
 $ item17 : num  0 13000 0 0 17333 ...
 $ item18 : num  0 0 0 0 39433 ...
 $ item19 : num  13000 17333 13000 0 8667 ...
 $ item20 : num  0 0 73667 0 151667 ...
 $ item21 : num  0 0 0 0 21667 ...
 $ food   : num  407333 428999 578499 420332 726266 ...
 $ alcohol: num  0 13000 0 0 56766 ...
 $ total  : num  407333 441999 578499 420332 783032 ...

> exp.food$HHID<-as.character(exp.food$HHID)
# in Riel
```

6.2 NON-FOOD ITEMS

□ Created household-level data frame consisted of vectors of non-food items.

```
# outfiles[[4]]: HHRecallNonFood
# Q01CC01: Non-food item (01 to 17)
# Q01CC06: Total expenditure in Riels
# Reference periods differ by item and are indicated on the questionnaire
> d<-outfiles[[4]]
> df<-tapply(d$Q01CC06,list(d$HHID,d$Q01CC01),sum)
> dim(df)
[1] 3840   17
> head(df)
             1      2     3     4      5      6  7       8  9     10       11 12     13 14
0100301     NA  40000 20000    NA 200000     NA NA 1000000 NA     NA 4000000 NA 100000 NA
0100302   2000  17000    NA 12000 160000 180000 NA  300000 NA 569000  120000 NA  90000 NA
0100303 200000  30000  8000 10000 600000 150000 NA  200000 NA 174000  300000 NA 120000 NA
0100304  30000  20000    NA  5000 170000  70000 NA  300000 NA     NA  120000 NA  70000 NA
0100305 165000 200000 40000 14000 400000 130000 NA  190000 NA     NA   30000 NA   4000 NA
0100306     NA  40000 20000  6000 300000  95000 NA  200000 NA 410000  100000 NA   7000 NA
             15 16   17
0100301 1550000 NA   NA
0100302  520000 NA   NA
0100303 1220000 NA   NA
0100304  530000 NA   NA
0100305 4060000 NA 9000
0100306  650000 NA   NA

> df[is.na(df)]<-0
> df<-as.data.frame(df)

# Converted to monthly
# Item 01-04: a month
# Item 05: 6 months
# Item 06-17: 12 months
> hhnonfood<-df
> hhnonfood[,5]<-round(df[,5]/6)
> hhnonfood[,6:17]<-round(df[,6:17]/12)
> head(hhnonfood)
             1      2     3     4      5     6 7     8 9    10     11 12    13 14     15 16
0100301      0  40000 20000     0  33333     0 0 83333 0     0 333333  0  8333  0 129167  0
0100302   2000  17000     0 12000  26667 15000 0 25000 0 47417  10000  0  7500  0  43333  0
0100303 200000  30000  8000 10000 100000 12500 0 16667 0 14500  25000  0 10000  0 101667  0
0100304  30000  20000     0  5000  28333  5833 0 25000 0     0  10000  0  5833  0  44167  0
0100305 165000 200000 40000 14000  66667 10833 0 15833 0     0   2500  0   333  0 338333  0
0100306      0  40000 20000  6000  50000  7917 0 16667 0 34167   8333  0   583  0  54167  0
         17
0100301   0
0100302   0
0100303   0
0100304   0
0100305 750
0100306   0

> exp.nonfood<-data.frame(HHID=rownames(hhnonfood),hhnonfood,row.names=NULL)
> colnames(exp.nonfood)[2:18]<-paste("item",formatC(1:17,width=2,flag="0"),sep="")
```

```
> head(exp.nonfood)
     HHID item01 item02 item03 item04 item05 item06 item07 item08 item09 item10 item11 item12
1 0100301      0  40000  20000      0  33333      0      0  83333      0      0 333333      0
2 0100302   2000  17000      0  12000  26667  15000      0  25000      0  47417  10000      0
3 0100303 200000  30000   8000  10000 100000  12500      0  16667      0  14500  25000      0
4 0100304  30000  20000      0   5000  28333   5833      0  25000      0      0  10000      0
5 0100305 165000 200000  40000  14000  66667  10833      0  15833      0      0   2500      0
6 0100306      0  40000  20000   6000  50000   7917      0  16667      0  34167   8333      0
  item13 item14 item15 item16 item17
1   8333      0 129167      0      0
2   7500      0  43333      0      0
3  10000      0 101667      0      0
4   5833      0  44167      0      0
5    333      0 338333      0    750
6    583      0  54167      0      0
```

- Average monthly amount of non-food consumption by food items (in thousand Riels)

```
# Total amount of non-food consumption (in million Riels)
> t2<-sapply(exp.nonfood[,2:18],function(x) sum(x*hw))

# Total monthly amount of non-food consumption by item (in million Riels)
> tm<-round(t2/10^6)
> (tm<-c(tm,total.0113=sum(tm[1:13])))
    item01     item02     item03     item04     item05     item06     item07
    269815     218680      63581      57402     107381      35302        947
    item08     item09     item10     item11     item12     item13     item14
     47156       3185     169636      28663       1799       3535       6411
    item15     item16     item17      total total.0113
    272743        532       6150    1007082    1007082

# Average monthly amount of non-food consumption by item (in thousand Riels)
# Per household
> th<-round(t2/NH/1000)
> (th<-c(th,total.0113=sum(th[1:13])))
    item01     item02     item03     item04     item05     item06     item07
        88         71         21         19         35         11          0
    item08     item09     item10     item11     item12     item13     item14
        15          1         55          9          1          1          2
    item15     item16     item17 total.0113
        88          0          2        327
```

```
# Item names
> t0<-c("Medical care","Transportation","Communication","Personal care","Clothing and footwear",
+ "Furniture, furnishings and household equipment and operation","Domestic salaries",
+ "Recreation within Cambodia","Recreation abroad","Education","Personal effects",
+ "Gambling","Miscellaneous items",
+ "Charities","Inter-households transfer","Income tax","Property tax")
> t0<-c(t0,"Non-food total (01-13)")
```

```
# Average monthly amount of non-food consumption per household
# by non-food items (in thousand Riels)
> (m2<-data.frame(item=t0,perhh=th,row.names=NULL))
                                                          item perhh
1                                                Medical care    88
2                                              Transportation    71
3                                               Communication    21
4                                               Personal care    19
5                                          Clothing and footwear    35
6  Furniture, furnishings and household equipment and operation    11
7                                              Domestic salaries     0
8                                       Recreation within Cambodia    15
9                                               Recreation abroad     1
10                                                     Education    55
11                                              Personal effects     9
12                                                      Gambling     1
13                                            Miscellaneous items     1
14                                                     Charities     2
15                                       Inter-households transfer    88
16                                                   Income tax     0
17                                                 Property tax     2
18                                     Non-food total (01-13)   327

> str(exp.nonfood)
'data.frame':   3840 obs. of  18 variables:
 $ HHID  : Factor w/ 3840 levels "0100301","0100302",..: 1 2 3 4 5 6 7 8 9 10 ...
 $ item01: num  0 2000 200000 30000 165000 0 19000 0 50000 0 ...
 $ item02: num  40000 17000 30000 20000 200000 40000 90000 20000 10000 100000 ...
 $ item03: num  20000 0 8000 0 40000 20000 40000 8000 0 80000 ...
 $ item04: num  0 12000 10000 5000 14000 6000 10000 4000 9000 20000 ...
 $ item05: num  33333 26667 100000 28333 66667 ...
 $ item06: num  0 15000 12500 5833 10833 ...
 $ item07: num  0 0 0 0 0 0 0 0 0 0 ...
 $ item08: num  83333 25000 16667 25000 15833 ...
 $ item09: num  0 0 0 0 0 0 0 0 0 0 ...
 $ item10: num  0 47417 14500 0 0 ...
 $ item11: num  333333 10000 25000 10000 2500 ...
 $ item12: num  0 0 0 0 0 0 0 0 0 0 ...
 $ item13: num  8333 7500 10000 5833 333 ...
 $ item14: num  0 0 0 0 0 0 0 0 0 0 ...
 $ item15: num  129167 43333 101667 44167 338333 ...
 $ item16: num  0 0 0 0 0 0 0 0 0 0 ...
 $ item17: num  0 0 0 0 750 0 375 0 0 1000 ...

> exp.nonfood$HHID<-as.character(exp.nonfood$HHID)
# in Riel
```

6.3 HOUSING

```
# outfiles[[7]]: HHHousing
> d<-outfiles[[7]]
> nrow(d)
[1] 3841
```

- There is a duplicated HHID of "1300503", because the number of record is 3841.

```
> length(unique(d$HHID))
[1] 3840
> d[duplicated(d$HHID),]
> d[duplicated(d$HHID),"HHID"]
[1] "1300503"
> d[d$HHID=="1300503",]
     pkid    HHID Q04_01 Q04_02 Q04_03 Q04_04 Q04_05 Q04_06 Q04_07 Q04_08 Q04_09 Q04_10M1
1598 1598 1300503      1     56      2      5      3      2      8      6     25        1
1601 1601 1300503      1     56      2      2      3      2      8      6     25        1
     Q04_10M2 Q04_10M3 Q04_11 Q04_12 Q04_13 Q04_14M1 Q04_14M2 Q04_14M3 Q04_15 Q04_16 Q04_17
1598        2       NA     20      6     25        1        2       NA     NA      0      3
1601        2       NA     20      6     25        1        2       NA     20      0      3
     Q04_18A Q04_18B Q04_18C Q04_18D Q04_18E Q04_19A Q04_19B Q04_20 Q04_21 Q04_22A Q04_22B
1598      NA      NA      NA      NA      NA       7       3      0      0       1       2
1601      NA      NA      NA      NA      NA       7       3      0      0       1       2
     Q04_22C1 Q04_22C2 Q04_22C3 Q04_22D Q04_23A Q04_23B Q04_23C Q04_23D Q04_23E Q04_23F
1598        1       NA       NA       4       0       0       0   30000       0       0
1601        1       NA       NA       4       0       0       0   30000       0       0
     Q04_23G Q04_24 Q04_25A Q04_25B Q04_26 EntryUser          ChangeDate
1598    8000      1      NA   80000      0   morokat 2012-06-25 18:17:00
1601    8000      1      NA   80000      0   morokat 2012-06-26 00:08:00
```

- Dropped the record with pkid=1598, because the record with pkid=1601 is the latest entry.

```
> d<-subset(d,pkid!=1598)
> dim(d)
[1] 3840   51
> sum(duplicated(d$HHID))
[1] 0

> outfiles[[7]]<-d

# Variable descriptions
> colnames(d)
 [1] "pkid"       "HHID"       "Q04_01"     "Q04_02"     "Q04_03"     "Q04_04"     "Q04_05"
 [8] "Q04_06"     "Q04_07"     "Q04_08"     "Q04_09"     "Q04_10M1"   "Q04_10M2"   "Q04_10M3"
[15] "Q04_11"     "Q04_12"     "Q04_13"     "Q04_14M1"   "Q04_14M2"   "Q04_14M3"   "Q04_15"
[22] "Q04_16"     "Q04_17"     "Q04_18A"    "Q04_18B"    "Q04_18C"    "Q04_18D"    "Q04_18E"
[29] "Q04_19A"    "Q04_19B"    "Q04_20"     "Q04_21"     "Q04_22A"    "Q04_22B"    "Q04_22C1"
[36] "Q04_22C2"   "Q04_22C3"   "Q04_22D"    "Q04_23A"    "Q04_23B"    "Q04_23C"    "Q04_23D"
[43] "Q04_23E"    "Q04_23F"    "Q04_23G"    "Q04_24"     "Q04_25A"    "Q04_25B"    "Q04_26"
[50] "EntryUser"  "ChangeDate"
```

22	q04_16	**water charges** pay last month (riels)?
31	q04_20	expenditure in **sewage or waste water disposal** last monlh?
32	q04_21	how much did your hh spend for **garbage collection** lat month?
39	q04_23a	how much did the hh spend last month on **electricity**?
40	q04_23b	how much did the hh spend last month on **gas (lpg)**?

```
41     q04_23c                                  how much did the hh spend last month on kerosene?
42     q04_23d                                  how much did the hh spend last month on firewood?
43     q04_23e                                  how much did the hh spend last month on charcoal?
44     q04_23f                                   how much did the hh spend last month on battery?
45     q04_23g                                     how much did the hh spend last month on other?
47     q04_25a                  if rented, how much did you pay for rent of this house last month?
48     q04_25b how much would you have to pay per month to rent a similar dwelling? (estimated
49      q04_26 how much did you spend on maintenance and minor repairs of the dwelling last mon


> df<-d[c(2,22,31,32,39:45,47:49)]
> head(df)
     HHID Q04_16 Q04_20 Q04_21 Q04_23A Q04_23B Q04_23C Q04_23D Q04_23E Q04_23F Q04_23G Q04_25A
1 0803010      0      0      0   14000       0       0   10000       0    6000       0      NA
2 2101910  40000      0      0       0   10000       0   20000       0   30000       0      NA
3 2101801      0      0      0       0       0       0   45000       0   10000       0      NA
4 1209101   5000      0      0    8000       0       0   15000    2000       0       0      NA
5 1209102  27700      0      0   38500   12000       0   21000       0       0       0      NA
6 0803009      0      0      0       0       0       0   40000       0   11000       0      NA
  Q04_25B Q04_26
1   50000       0
2  100000       0
3   70000       0
4  120000       0
5  280000       0
6  160000       0
> dim(df)
[1] 3840   14

> df[is.na(df)]<-0
> df["housing"]<-rowSums(df[,2:14])
> head(df)
     HHID Q04_16 Q04_20 Q04_21 Q04_23A Q04_23B Q04_23C Q04_23D Q04_23E Q04_23F Q04_23G Q04_25A
1 0803010      0      0      0   14000       0       0   10000       0    6000       0       0
2 2101910  40000      0      0       0   10000       0   20000       0   30000       0       0
3 2101801      0      0      0       0       0       0   45000       0   10000       0       0
4 1209101   5000      0      0    8000       0       0   15000    2000       0       0       0
5 1209102  27700      0      0   38500   12000       0   21000       0       0       0       0
6 0803009      0      0      0       0       0       0   40000       0   11000       0       0
  Q04_25B Q04_26 housing
1   50000       0   80000
2  100000       0  200000
3   70000       0  125000
4  120000       0  150000
5  280000       0  379200
6  160000       0  211000

> colnames(df)<-c("HHID","water","sewage","garbage","electricity","gas","kerosene","firewood",
+ "charcoal","battery","other","house.rent","imputed.rent","maintenance","housing")
> head(df)
     HHID water sewage garbage electricity   gas kerosene firewood charcoal battery other
1 0803010     0      0       0       14000     0        0    10000        0    6000     0
2 2101910 40000      0       0           0 10000        0    20000        0   30000     0
3 2101801     0      0       0           0     0        0    45000        0   10000     0
4 1209101  5000      0       0        8000     0        0    15000     2000       0     0
5 1209102 27700      0       0       38500 12000        0    21000        0       0     0
6 0803009     0      0       0           0     0        0    40000        0   11000     0
```

```
  house.rent imputed.rent maintenance housing
1          0        50000           0   80000
2          0       100000           0  200000
3          0        70000           0  125000
4          0       120000           0  150000
5          0       280000           0  379200
6          0       160000           0  211000

> exp.housing<-df

> str(exp.housing)
'data.frame':   3840 obs. of  15 variables:
 $ HHID        : chr  "0803010" "2101910" "2101801" "1209101" ...
 $ water       : int  0 40000 0 5000 27700 0 40000 14000 0 15000 ...
 $ sewage      : int  0 0 0 0 0 0 0 0 0 0 ...
 $ garbage     : int  0 0 0 0 0 0 0 0 0 0 ...
 $ electricity : int  14000 0 0 8000 38500 0 0 35000 0 16000 ...
 $ gas         : int  0 10000 0 0 12000 0 0 0 0 2600 ...
 $ kerosene    : int  0 0 0 0 0 0 0 0 0 0 ...
 $ firewood    : int  10000 20000 45000 15000 21000 40000 45000 35000 40000 30000 ...
 $ charcoal    : int  0 0 0 2000 0 0 0 0 0 2400 ...
 $ battery     : int  6000 30000 10000 0 0 11000 10000 0 6000 0 ...
 $ other       : int  0 0 0 0 0 0 0 0 0 2000 ...
 $ house.rent  : num  0 0 0 0 0 0 0 0 0 0 ...
 $ imputed.rent: num  50000 100000 70000 120000 280000 160000 100000 60000 100000 200000 ...
 $ maintenance : num  0 0 0 0 0 0 0 0 0 0 ...
 $ housing     : num  80000 200000 125000 150000 379200 ...
```

6.4 Total expenditure

□ Grouping of items of expenditure

No	Group	Items	Data frame	Source data file
1	Food and non-alcoholic beverages	01 to 16, 19 to 21	exp.food	S01B.foodconsumption
2	Alcohol and tobacco	17, 18	exp.food	S01B.foodconsumption
3	Clothing and footwear	5, 11(personal effects)	exp.nonfood	S01C.nonfoodexpenses
4	Housing, water, electricity		exp.housing	S04.housing
5	Furnishing etc.	6, 7(domestic salaries)	exp.nonfood	S01C.nonfoodexpenses
6	Health	1	exp.nonfood	S01C.nonfoodexpenses
7	Transportation	2	exp.nonfood	S01C.nonfoodexpenses
8	Communication	3	exp.nonfood	S01C.nonfoodexpenses
9	Recreation and culture	8, 9	exp.nonfood	S01C.nonfoodexpenses
10	Education	10	exp.nonfood	S01C.nonfoodexpenses
11	Miscellaneous goods	13, 4(personal care)	exp.nonfood	S01C.nonfoodexpenses

Note: Item 12 (gambling) in non-food was excluded.

□ Generated household-level data frame “hhexp” of monthly consumption by groups

```
# Confirmed HHID of exp.food and exp.nonfood
> table(exp.food$HHID==exp.nonfood$HHID)
TRUE
3840

> hhexp<-exp.food[,c("HHID","food","alcohol")]
> hhexp$clothing<-rowSums(exp.nonfood[,c(6,12)])
> head(hhexp)
    hhid   food alcohol clothing
1 100101 414700       0     3500
2 100102 388702       0    33333
3 100103 322401   34667     7667
4 100104 220134       0    30000
5 100105 756598    8667    25000
6 100106 772634       0     2500

> hhexp<-merge(hhexp,exp.housing[,c("HHID","housing")],by="HHID",all.x=T)
> head(hhexp)
     HHID   food alcohol clothing housing
1 0100301 407333       0   366666  430000
2 0100302 428999   13000    36667  222000
3 0100303 578499       0   125000  127000
4 0100304 420332       0    38333  225000
5 0100305 726266   56766    69167  169500
6 0100306 456300       0    58333   63000
```

```
> dim(hhexp)
[1] 3840    5
> hhexp[is.na(hhexp)]<-0

> hhexp$furnishing<- rowSums(exp.nonfood[,c(7,8)])
> hhexp$health<-exp.nonfood[,2]
> hhexp$transportation<-exp.nonfood[,3]
> hhexp$communication<-exp.nonfood[,4]
> hhexp$recreation<-rowSums(exp.nonfood[,c(9,10)])
> hhexp$education<-exp.nonfood[,11]
> hhexp$miscellaneous<- rowSums(exp.nonfood[,c(14,5)])

> hhexp$total<-rowSums(hhexp[,2:12])
> hhexp$foodshare<-round((hhexp$food+hhexp$alcohol)/hhexp$total*100,1)
> head(hhexp)
     HHID   food alcohol clothing housing furnishing health transportation communication
1 0100301 407333       0   366666  430000          0      0          40000         20000
2 0100302 428999   13000    36667  222000      15000   2000          17000             0
3 0100303 578499       0   125000  127000      12500 200000          30000          8000
4 0100304 420332       0    38333  225000       5833  30000          20000             0
5 0100305 726266   56766    69167  169500      10833 165000         200000         40000
6 0100306 456300       0    58333   63000       7917      0          40000         20000
  recreation education miscellaneous   total foodshare
1      83333         0          8333 1355665      30.0
2      25000     47417         19500  826583      53.5
3      16667     14500         20000 1132166      51.1
4      25000         0         10833  775331      54.2
5      15833         0         14333 1467698      53.4
6      16667     34167          6583  702967      64.9
```

□ Estimate average monthly per household and per capita consumption by three region

```
# hhexp: monthly household expenditure by group
# outfiles[[36]]: household weight and region
```

● Appended weight and region to hhexp

```
> table(hhexp$HHID==outfiles[[36]]$HHID)
TRUE
3840
> hhexp<-cbind(hhexp,outfiles[[36]][c("hw12a","urbrur","Province_Code","region")])
> head(hhexp)
     HHID   food alcohol clothing housing furnishing health transportation communication
1 0100301 407333       0   366666  430000          0      0          40000          20000
2 0100302 428999   13000    36667  222000      15000   2000          17000              0
3 0100303 578499       0   125000  127000      12500 200000          30000           8000
4 0100304 420332       0    38333  225000       5833  30000          20000              0
5 0100305 726266   56766    69167  169500      10833 165000         200000          40000
6 0100306 456300       0    58333   63000       7917      0          40000          20000
  recreation education miscellaneous   total foodshare    hw12a urbrur Province_Code region
1      83333         0          8333 1355665      30.0 1236.831      2            01      3
2      25000     47417         19500  826583      53.5 1236.831      2            01      3
3      16667     14500         20000 1132166      51.1 1236.831      2            01      3
4      25000         0         10833  775331      54.2 1236.831      2            01      3
5      15833         0         14333 1467698      53.4 1236.831      2            01      3
6      16667     34167          6583  702967      64.9 1236.831      2            01      3
```

```
# Average monthly expenditure per household by group (in thousand Riels)
> t1<-sapply(hhexp[,2:13],function(x) weighted.mean(x,hhexp$hw12a))/1000
> data.frame(Item=names(t1),Value=round(t1),row.names=NULL)
```

	Item	Value
1	food	623
2	alcohol	30
3	clothing	44
4	housing	253
5	furnishing	12
6	health	88
7	transportation	71
8	communication	21
9	recreation	16
10	education	55
11	miscellaneous	20
12	total	1232

```
# Aveage monthly expenditure per household by group and region
> (t<-by(hhexp,hhexp$region,function(df)
+ round(sapply(df[,2:13],function(x) weighted.mean(x,df$hw12a)/1000))))
hhexp$region: 1
          food        alcohol       clothing        housing     furnishing         health
           939             38             65            700             26             53
transportation  communication     recreation      education  miscellaneous          total
           150             44             38            109             33           2194
------------------------------------------------------------------------
hhexp$region: 2
          food        alcohol       clothing        housing     furnishing         health
           787             39             58            406             15             87
transportation  communication     recreation      education  miscellaneous          total
            95             32             29            100             25           1672
------------------------------------------------------------------------
hhexp$region: 3
          food        alcohol       clothing        housing     furnishing         health
           550             28             39            164              9             92
transportation  communication     recreation      education  miscellaneous          total
            56             15             11             40             17           1023

> m<-matrix(unlist(t),nrow=12)
> colnames(m)<-c("Phnom Pen","Other urban","Other rural")
> rownames(m)<-colnames(hhexp)[2:13]
> cbind(Cambodia=round(t1),m)

               Cambodia Phnom Pen Other urban Other rural
food                623       939         787         550
alcohol              30        38          39          28
clothing             44        65          58          39
housing             253       700         406         164
furnishing           12        26          15           9
health               88        53          87          92
transportation       71       150          95          56
communication        21        44          32          15
recreation           16        38          29          11
education            55       109         100          40
miscellaneous        20        33          25          17
total              1232      2194        1672        1023
```

- Comparison with the results of CSES2012 survey report
- The amount of average monthly total household consumption in Table 6 is almost the same as the above estimation.

Table 6: Average monthly household and per capita consumption 2009, 2010, 2011, and 2012.

Domain	Consumption in thousand (Riels)							
	Per household				Per capita			
	CSES 2009	CSES 2010	CSES 2011	CSES 2012	CSES 2009	CSES 2010	CSES 2011	CSES 2012
Cambodia	1,119	1,122	1,144	1,231	254	266	273	289
Phnom Penh	2,466	2,496	2,472	2,189	538	568	571	526
Other urban	1,553	1,606	1,422	1,670	351	377	338	403
Other rural	920	899	933	1,023	212	217	226	237

```
# Average monthly expenditure per capita by item
> d<-outfiles[[36]]
> NP<-sum(d$hhsize*d$hw12a)
> NP
[1] 14273806
> t<-round(apply(hhexp[2:13],2,function(x) sum(x*hhexp$hw12a)/NP/1000))
> data.frame(Item=names(t),Value=t,row.names=NULL)

             Item Value
1            food   134
2         alcohol     7
3        clothing    10

4         housing    55
5      furnishing     3
6          health    19
7  transportation    15
8   communication     4
9      recreation     4
10      education    12
11  miscellaneous     4
12          total   266
```

Table 7: Consumption composition, average monthly value per capita, 2009, 2010, 2011, and 2012.

Consumption composition	Value in thousand Riels				% of total			
	CSES 2009	CSES 2010	CSES 2011	CSES 2012	CSES 2009	CSES 2010	CSES 2011	CSES 2012
Cambodia								
Food and non-alcoholic beverages	124	122	130	147	49	46	47	51
Alcohol and tobacco	6	5	5	7	2	2	2	2
Clothing and footwear	7	7	7	8	3	3	3	3
Housing, water, electricity	50	57	58	62	19	21	21	22
Furnishing etc	3	2	3	3	1	1	1	1
Health	19	21	16	19	8	8	6	7
Transportation	12	14	15	16	5	5	5	6
Communication	5	5	5	5	2	2	2	2
Recreation and culture	3	3	3	4	1	1	1	1
Education	5	7	9	11	2	3	3	4
Miscellaneous goods	21	23	24	7	8	9	9	2
Total	254	266	273	289	100	100	100	100

Chapter 7. Household Income

7.0 Provided summary file of household income

- According to the CSES 2012 report, the average monthly household income in 2012 was 1,019 thousand Riels.

- The composition of household income was shown in the below table; wage income, agricultural income, non-agricultural income, owner occupied house (imputed rent), property income and transfers received.

Table 1: Household Income Composition, average per month in 2009-2012

Source of income	Value in thousand Riels				Share in %			
	2009	2010	2011p	2012p	2009	2010	2011p	2012p
Cambodia								
Primary income	727	877	862	984	97	97	97	97
Wage and Salary	241	292	340	403	32	32	38	40
Selfemployment Income	482	582	520	576	64	65	59	57
Agriculture	162	205	209	229	22	23	24	22
Non Agriculture	250	290	224	249	33	32	25	24
Owner occupied house	70	88	86	98	9	10	10	10
Property income	4	3	2	5	1	0	0	1
Total transfers received	19	24	26	35	3	3	3	3
Total Income	**747**	**901**	**888**	**1,019**	**100**	**100**	**100**	**100**
Total transfers paid (*)	11	24	17	5	1	3	2	1
Disposable Income	**736**	**877**	**871**	**1,014**	**99**	**97**	**98**	**99**

p: preliminary results

(*): Due to a change in questionnaire and methods of measurement in 2012 the comparability between 2012 and previous years are low.

(**): The sample estimates for other urban areas contain one extremely high but palusible value which influence the values compared to previous years

- The summary file of household income was provided in CSES 2009. It was not included in CSES 2012 dataset provided in March 2015, however, it was provided on the occasion of the workshop in 2018..

- The document of “Income_Composition_CSES2009.doc” was provided in the previous time. The estimation method of CSES 2012 followed this document in principle.

☐ Summary file of houshold income: Incomehousehold_2012.sav

- The income data file of CSES 2012 at household level was provided on the occasion of the workshop 2018.

 # Import SPSS data into R

```
> library(foreign)
> d2012<-read.spss("IncomeHousehold_2012.sav",to.data.frame=TRUE)
> dim(d2012)
[1] 3840   85
> colnames(d2012)
 [1] "HHID"                      "HW12A"
 [3] "PW12A"                     "hhSize"
 [5] "Salary"                    "DiarySalaryCash"
 [7] "DiarySalaryInkind"         "CostCrop"
 [9] "CostLivestock"             "CostFish"
[11] "CostForestry"              "ReceiptCrop"
[13] "ReceiptLivestock"          "ReceiptFish"
[15] "ReceiptForestry"           "AgriIncome"
[17] "CostNonAgri"               "ReceiptNonAgri"
[19] "NonAgriIncome"             "IncomeOwnHouse"
[21] "BankInterest"              "InterestOtherLoans"
[23] "Dividends"                 "RentFromLand"
[25] "GrossPropertyIncome"       "InterestPaidAgri"
[27] "InterestPaidNonAgri"       "InterestPaidOwnOccupied"
[29] "InterestPaidNet"           "PropertyIncome"
[31] "PrimaryIncome"             "PensionDomestic"
[33] "PensionAbroad"             "Pension"
[35] "NGOtransfers"              "RemittanceDomestic"
[37] "RemittanceAbroad"          "TotalPrivateTransfers"
[39] "ScholarshipGovernment"     "ScholarshipNGO"
[41] "TotalScholarship"          "Gifts"
[43] "OtherTransfer"             "TotalTransfers"
[45] "TotalIncome"               "WageRatio"
[47] "AgriRatio"                 "OtherSelfEmpRatio"
[49] "PropertyRatio"             "TransfersRatio"
[51] "DiaryTaxes"                "DiaryInterHHtransfers"
[53] "DiaryCashTransferChar"     "DiaryTotalNegativeTransfers"
[55] "DisposableIncome"          "DiaryCostAgri"
[57] "DiaryReceiptAgri"          "DiaryAgriIncome"
[59] "DiaryCostNonAgri"          "DiaryReceiptNonAgri"
[61] "DiaryNonAgriIncome"        "DiaryBankInterest"
[63] "DiaryInterestOtherLoans"   "DiaryDividends"
[65] "DiaryOtherFinancialAccount" "DiaryGrossPropertyIncome"
[67] "DiaryPropertyIncome"       "DiaryPrimaryIncome"
[69] "DiaryPensionDomestic"      "DiaryPensionAbroad"
[71] "DiaryPension"              "DiaryInsuranceDomestic"
[73] "DiaryInsuranceAbroad"      "DiaryNGOtransfers"
```

```
[75] "DiaryRemittanceDomestic"     "DiaryRemittanceAbroad"
[77] "DiaryTotalPrivateTransfers"  "DiaryScholarship"
[79] "DiaryGifts"                  "DiaryOtherTransfers"
[81] "DiaryTotalTransfers"         "DiaryTotalIncome"
[83] "DiaryDisposableIncome"       "TotalNegativeTransfers"
[85] "DisposableIncome_Recall"
> d<-d2012
```

 # Weighted mean of each variable

```
> t<-apply(d[4:85],2,function(x) weighted.mean(x,d$HW12A))
> data.frame(Item=names(t),Mean=round(t/12000),row.names=NULL)
                         Item Mean
1                      hhSize    0
2                      Salary  403
3             DiarySalaryCash    0
4           DiarySalaryInkind    0
5                    CostCrop   82
6                CostLivestock   31
7                     CostFish   12
8                  CostForestry    1
9                   ReceiptCrop  236
10             ReceiptLivestock   48
11                  ReceiptFish   32
12               ReceiptForestry   34
13                   AgriIncome  223
14                  CostNonAgri  878
15               ReceiptNonAgri 1139
16                NonAgriIncome  261
17               IncomeOwnHouse   98
18                 BankInterest    1
19           InterestOtherLoans    2
20                    Dividends    3
21                 RentFromLand    1
22          GrossPropertyIncome    6
23             InterestPaidAgri    1
24          InterestPaidNonAgri    0
25      InterestPaidOwnOccupied    0
26              InterestPaidNet    1
27               PropertyIncome    5
28                PrimaryIncome  990
29              PensionDomestic    4
30                PensionAbroad    0
31                      Pension    4
32                NGOtransfers    1
33           RemittanceDomestic   12
34             RemittanceAbroad   10
35        TotalPrivateTransfers   22
36        ScholarshipGovernment    0
```

37	ScholarshipNGO	0
38	TotalScholarship	1
39	Gifts	4
40	OtherTransfer	3
41	TotalTransfers	35
42	TotalIncome	1025
43	WageRatio	0
44	AgriRatio	0
45	OtherSelfEmpRatio	0
46	PropertyRatio	0
47	TransfersRatio	0
48	DiaryTaxes	0
49	DiaryInterHHtransfers	0
50	DiaryCashTransferChar	0
51	DiaryTotalNegativeTransfers	0
52	DisposableIncome	0
53	DiaryCostAgri	0
54	DiaryReceiptAgri	0
55	DiaryAgriIncome	0
56	DiaryCostNonAgri	0
57	DiaryReceiptNonAgri	0
58	DiaryNonAgriIncome	0
59	DiaryBankInterest	0
60	DiaryInterestOtherLoans	0
61	DiaryDividends	0
62	DiaryOtherFinancialAccount	0
63	DiaryGrossPropertyIncome	0
64	DiaryPropertyIncome	0
65	DiaryPrimaryIncome	0
66	DiaryPensionDomestic	0
67	DiaryPensionAbroad	0
68	DiaryPension	0
69	DiaryInsuranceDomestic	0
70	DiaryInsuranceAbroad	0
71	DiaryNGOtransfers	0
72	DiaryRemittanceDomestic	0
73	DiaryRemittanceAbroad	0
74	DiaryTotalPrivateTransfers	0
75	DiaryScholarship	0
76	DiaryGifts	0
77	DiaryOtherTransfers	0
78	DiaryTotalTransfers	0
79	DiaryTotalIncome	0
80	DiaryDisposableIncome	0
81	TotalNegativeTransfers	NA
82	DisposableIncome_Recall	1020

Comparison with the survey report

Source of income	Report (p) 2012	Computed from IncomeHousehold_2012
Primary income	984	
Salary	403	403
Self employment	576	
Agriculture	229	223
Non-agriculture	249	261
Own house	98	98
Property income	5	5
Transfers received	35	35
Total income	**1019**	1025
Transfers paid / negative income	5	
Disposable income	1014	1020
Remarks		
No. of records	3840	3840

- Almost the same as the report.

☐ Estimation of each income component

- Income composition by source of income will be discussed in the following sections.

Source of income			Section in this chapter	
Primary income				
	Wage and salary		7.1	
	Self employment			
		Agriculture	7.2	
		Non-agriculture	7.3	
		Own house	7.4	
	Property income		7.5	
Transfers received			7.6	
Total income				
Transfers paid / negative income			7.7	
Disposable income				

- Prepared data frame of monthly household income with variables of income components.

INCOME

```
# hhinc: Household-level data frame of income componemts to be generated.
> hhinc<-outfiles[[36]][,c("HHID","hw12a","hhsize")]
> head(hhinc)
     HHID    hw12a hhsize
1 0100301 1236.831      2
2 0100302 1236.831      5
3 0100303 1236.831      8
4 0100304 1236.831      5
5 0100305 1236.831      5
6 0100306 1236.831      3
> dim(hhinc)
[1] 3840     3
> HHID<-hhinc$HHID
> length(HHID)
[1] 3840
```

7.1 WAGE AND SALARY

No	Variable of income component	File No	Section	Variables to be used	Reference period
	salary	31	15	Q15_C20	1M

```
# outfiles[[31]]: 15. Economic status
# Q15_C20: salary/wage earned during the last month

> d<-outfiles[[31]][,c("PID","HHID","Q15_C20")]
> dim(d)
[1] 16086     3
> head(d)
        PID    HHID Q15_C20
1 080301001 0803010      NA
2 080301002 0803010      NA
3 080301003 0803010      NA
4 080301004 0803010      NA
5 120910101 1209101      NA
6 120910102 1209101  400000
> d[is.na(d)]<-0
> t<-tapply(d$Q15_C20,d$HHID,sum)
> df<-data.frame(HHID=names(t),salary=t)
> dim(df)
[1] 3840    2
> head(df)
           HHID  salary
0100301 0100301       0
0100302 0100302  850000
0100303 0100303 1630000
0100304 0100304  880000
0100305 0100305       0
0100306 0100306       0
```

```
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
> hhinc[is.na(hhinc)]<-0
> head(hhinc)
     HHID    hw12a hhsize  salary
1 0100301 1236.831      2       0
2 0100302 1236.831      5  850000
3 0100303 1236.831      8 1630000
4 0100304 1236.831      5  880000
5 0100305 1236.831      5       0
6 0100306 1236.831      3       0
> hhinc.save<-hhinc
```

- Weighted mean of monthly salary (in Riels)

```
> weighted.mean(hhinc$salary,hhinc$hw12a)
[1] 402574.9
```

- **Summary: The estimated value of monthly wage income is 403 thousand Riels, and completely the same as the survey report.**

7.2 AGRI INCOME

- Generated the following variables of monthly agricultural income, principally following CSES 2009.

No	Variable of income component	File No	Section	Variables to be used	Reference period
	COST				
1	cost.crop	10	5C	Q05CC16 (Total of col. 3-15)	12M
2	cost.livestock1	13	5E1	Q05E1C10 (Total paid for)	12M
3	cost.livestock2	14	5E2	Q05E2C03 (Spend on livestock)	12M
4	cost.fish1	15	5F1	Q05F1C05 (Monthly rent)	1M
5	cost.fish2	16	5F2	Q05F2C03 (Amount spent)	12M
6	cost.forestry	19	5G2	Q05G2C03 (Amount spent)	12M
7	interest.agri	23	6	Subset of Q06_C05==1 (Agricultural), Q06_C08*Q06_C07/(100+Q06_C08) (Household liabilities)	1M
	RECEIPT				
8	rcpt.crop	09	5B	(Q05BC06 -Q05BC07) x Q05BC09 (production of crops)	12M
9	rcpt.livestock	13	5E1	Q05E1C09 + Q05E1C11 to Q05E1C15 (Sold, own consumption, gift, etc.)	12M
10	rcpt.fish	17	5F3	Q05F3C03 (Amount received)	12M
11	rcpt.forestry	18	5G1	Q05G1C06 (Total amount of products)	12M
12	**agri.income**			The above receipts - costs	

Note: Some of "variables to be used" in the above table are sum of items. Consistency check should be crucial.

1) Cost.crop

```
> d<-outfiles[[10]][,c("HHID","Q05CC16")]
> d[is.na(d)]<-0
> t<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(t),cost.crop=t)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
> head(hhinc)
     HHID    hw12a hhsize  salary cost.crop
1 0100301 1236.831      2       0  405833.3
2 0100302 1236.831      5  850000        NA
```

```
3 0100303 1236.831       8 1630000         NA
4 0100304 1236.831       5  880000         NA
5 0100305 1236.831       5       0  538000.0
6 0100306 1236.831       3       0  105875.0
```

Remarks: Data check
One record with inconsistency is corrected.

```
> d<-outfiles[[10]]
> colnames(d)
 [1] "pkid"       "HHID"       "WetDry"     "Q05CC01"    "Q05CC02"    "Q05CC03"
 [7] "Q05CC04"    "Q05CC05"    "Q05CC06"    "Q05CC07"    "Q05CC08"    "Q05CC09"
[13] "Q05CC10"    "Q05CC11"    "Q05CC12"    "Q05CC13"    "Q05CC14"    "Q05CC15"
[19] "Q05CC16"    "EntryUser"  "ChangeDate"
> d[is.na(d)]<-0
> table(d$Q05CC16==rowSums(d[6:18]))
FALSE  TRUE
    1  4033
> d[d$Q05CC16!=rowSums(d[6:18]),]
    pkid    HHID WetDry Q05CC01 Q05CC02 Q05CC03 Q05CC04 Q05CC05 Q05CC06 Q05CC07
367  368 0602307      1       1       1  460000  180000  150000       0       0
    Q05CC08 Q05CC09 Q05CC10 Q05CC11 Q05CC12 Q05CC13 Q05CC14 Q05CC15 Q05CC16
367   10000    6e+05 1200000       0       0       0       0   40000       0
    EntryUser          ChangeDate
367     Noeun 2012-03-02 18:50:00

> d$Q05CC16<-rowSums(d[6:18])
> outfiles[[10]]<-d
```

2) Cost.livestock1

```
> d<-outfiles[[13]][,c("HHID","Q05E1C10")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID =names(df),cost.livestock1=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

3) Cost.livestock2

```
> d<-outfiles[[14]][,c("HHID","Q05E2C03")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),cost.livestock2=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

4) Cost.fish1

```
> d<-outfiles[[15]][,c("HHID","Q05F1C05")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),cost.fish1=df)
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

5) Cost.fish2

```
> d<-outfiles[[16]][,c("HHID","Q05F2C03")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),cost.fish2=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

6) Cost.forestry

```
> d<-outfiles[[19]][,c("HHID","Q05G2C03")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),cost.forestry=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

7) Interest.agri

```
> hhinc.save<-hhinc
> d<-subset(outfiles[[23]],Q06_C05==1)
> d[is.na(d)]<-0
> d$int<-d$Q06_C08*d$Q06_C07/(100+d$Q06_C08)
> df<-tapply(d$int,d$HHID,sum)
> df<-data.frame(HHID =names(df),interest.agri=df)
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
> head(hhinc)
     HHID    hw12a hhsize  salary cost.crop cost.livestock1 cost.livestock2
1 0100301 1236.831      2       0  405833.3              NA              NA
2 0100302 1236.831      5  850000        NA               0        5833.333
3 0100303 1236.831      8 1630000        NA              NA              NA
4 0100304 1236.831      5  880000        NA              NA              NA
5 0100305 1236.831      5       0  538000.0               0        1083.333
6 0100306 1236.831      3       0  105875.0              NA              NA
  cost.fish1 cost.fish2 cost.forestry interest.agri
1         NA         NA        0.0000            NA
2         NA  1666.6667        0.0000            NA
3         NA  2500.0000        0.0000            NA
4         NA  7500.0000        0.0000            NA
5         NA 14166.6667      583.3333     203883.50
6         NA   458.3333      333.3333      20388.35
```

8) Receipt.crop

```
> d<-outfiles[[9]][,c("HHID","Q05BC06","Q05BC07","Q05BC09")]
> d[is.na(d)]<-0
> d$rcpt<-(d[,2]-d[,3])*d[,4]
> head(d)
     HHID Q05BC06 Q05BC07 Q05BC09     rcpt
1 2101910    2250      50     950  2090000
2 2101910     200      10    1400   266000
3 2101910   21150     150     950 19950000
4 2101801     720       0    1000   720000
5 2101801     240       0    1000   240000
6 2101801     150       0    1000   150000
```

```
> df<-tapply(d$rcpt,d$HHID,sum)
> df<-data.frame(HHID=names(df),rcpt.crop=df)
> df[,2]<-df[,2]/12
> dim(df)
[1] 1976    2
> head(df)
           HHID  rcpt.crop
0100301 0100301  580416.67
0100305 0100305 1197333.33
0100306 0100306   81516.67
0100307 0100307  111562.50
0100310 0100310  485916.67
0100601 0100601  660000.00

> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

Remarks 1:
What if "Q05BC07" and "Q05BC08" are subtracted from "Q05BC06" ?

```
> d<-outfiles[[9]][,c("HHID","Q05BC06","Q05BC07","Q05BC08","Q05BC09")]
> d[is.na(d)]<-0
> d$rcpt2<-(d[,2]-d[,3]-d[,4])*d[,5]
> df<-tapply(d$rcpt2,d$HHID,sum)
> df<-data.frame(HHID=names(df),rcpt.crop2=df)
> df[,2]<-df[,2]/12
> dim(df)
[1] 1976    2
> df<-merge(outfiles[[36]],df,by="HHID",all.x=T)
> df[is.na(df)]<-0
> weighted.mean(df$rcpt.crop2,df$hw12a)
[1] 414291.3
```

- The mean values per household are 420,000 and 414,000. The difference is small.

Remarks 2:
What if the questionnaire 05.D.2 (Sales of crops) is used for receipt?

```
> d<-outfiles[[12]]  # HHSalesCrops
> colnames(d)
[1] "pkid"       "HHID"       "Q05D1C1"    "Q05D1C2"    "Q05D1C3"    "Q05D1C4"
[7] "EntryUser"  "ChangeDate"
> d[is.na(d)]<-0
> d$crop3<-d$Q05D1C3*d$Q05D1C4
> df<-tapply(d$crop3,d$HHID,sum)
> df<-data.frame(HHID=names(df),crop3=df)
> df[2]<-df[2]/12
> df<-merge(outfiles[[36]],df,by="HHID",all.x=T)
> df[is.na(df)]<-0
> weighted.mean(df$crop3,df$hw12a)
[1] 130526.4
```

- The mean value per household is 130,526.

9) Receipt.livestock

```
> hhinc.save<-hhinc
> d<-outfiles[[13]][,c("HHID","Q05E1C09","Q05E1C11","Q05E1C12","Q05E1C13",
+ "Q05E1C14","Q05E1C15")]
> d[is.na(d)]<-0
> d$rcpt<-rowSums(d[,2:7])
> df<-tapply(d$rcpt,d$HHID,sum)
> df<-data.frame(HHID=names(df),rcpt.livestock=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

10) Receipt.fish

```
> d<-outfiles[[17]][,c("HHID","Q05F3C03")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),rcpt.fish=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

11) Receipt.forestry

```
> d<-outfiles[[18]][,c("HHID","Q05G1C06")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),rcpt.forestry=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
> head(hhinc)
     HHID    hw12a hhsize  salary cost.crop cost.livestock1 cost.livestock2
1 0100301 1236.831       2       0  405833.3               NA               NA
2 0100302 1236.831       5  850000        NA                0         5833.333
3 0100303 1236.831       8 1630000        NA               NA               NA
4 0100304 1236.831       5  880000        NA               NA               NA
5 0100305 1236.831       5       0  538000.0                0         1083.333
6 0100306 1236.831       3       0  105875.0               NA               NA
  cost.fish1 cost.fish2 cost.forestry interest.agri  rcpt.crop rcpt.livestock
1         NA         NA        0.0000            NA  580416.67              NA
2         NA  1666.6667        0.0000            NA         NA        6250.000
3         NA  2500.0000        0.0000            NA         NA              NA
4         NA  7500.0000        0.0000            NA         NA              NA
5         NA 14166.6667      583.3333     203883.50 1197333.33        3333.333
6         NA   458.3333      333.3333      20388.35   81516.67              NA
  rcpt.fish rcpt.forestry
1        NA      20000.000
2  30833.33      16666.667
3  47500.00       4416.667
4  26666.67      22500.000
5  41666.67      14166.667
6  10833.33      29166.667
```

12) Agri.income

```
> hhinc[is.na(hhinc)]<-0
> hhinc$agri.income<-rowSums(hhinc[,12:15])-rowSums(hhinc[,5:11])
> head(hhinc)
```

```
     HHID    hw12a hhsize  salary cost.crop cost.livestock1 cost.livestock2
1 0100301 1236.831      2       0  405833.3               0          0.000
2 0100302 1236.831      5  850000       0.0               0       5833.333
3 0100303 1236.831      8 1630000       0.0               0          0.000
4 0100304 1236.831      5  880000       0.0               0          0.000
5 0100305 1236.831      5       0  538000.0               0       1083.333
6 0100306 1236.831      3       0  105875.0               0          0.000
  cost.fish1 cost.fish2 cost.forestry interest.agri  rcpt.crop rcpt.livestock
1          0     0.0000        0.0000          0.00  580416.67          0.000
2          0  1666.6667        0.0000          0.00       0.00       6250.000
3          0  2500.0000        0.0000          0.00       0.00          0.000
4          0  7500.0000        0.0000          0.00       0.00          0.000
5          0 14166.6667      583.3333     203883.50 1197333.33       3333.333
6          0   458.3333      333.3333      20388.35   81516.67          0.000
  rcpt.fish rcpt.forestry agri.income
1      0.00      20000.000   194583.33
2  30833.33      16666.667    46250.00
3  47500.00       4416.667    49416.67
4  26666.67      22500.000    41666.67
5  41666.67      14166.667   498783.17
6  10833.33      29166.667    -5538.35
> hhinc.save1<-hhinc
```

- Weighted mean of monthly agricultural income

```
> t<-round(sapply(hhinc[,c(5:16)],function(x) weighted.mean(x,hhinc$hw12a)))
> data.frame(Item=names(t),Value=round(t),row.names=NULL)
              Item  Value
1        cost.crop  81913
2  cost.livestock1  11726
3  cost.livestock2  19067
4       cost.fish1   1646
5       cost.fish2  10372
6    cost.forestry   1374
7    interest.agri   7511
8        rcpt.crop 419872
9   rcpt.livestock  47643
10       rcpt.fish  32027
11   rcpt.forestry  34494
12     agri.income 400426
```

Summary

- Weighted mean of each component variable, except “rcpt.crop”,in the above table seems proper.

- The sum of “agri.income”
  Agriculture income in the survey report of CSES 2012 is **229,000** Riels.

7.3 NON-AGRI INCOME

No	Variable of income component	File No	Section	Variables to be used	Reference period
	COST				
1	cost.nonagri	21	5H2	Q05H2C03 to Q05H2C08	12M
2	interest.nonagri	23	6	Subset of Q06_C05==2, Q06_C08*Q06_C07/(100+Q06_C08)	1M
	RECEIPT				
3	rcpt.nonagri	22	5H3	Subset of Q05H3C01 != 13, Q05H3C03 to Q05H3C08	12M
4	**nonagri.income**			The above receipts - costs	

1) Cost.nonagri

```
> d<-outfiles[[21]]
> d[is.na(d)]<-0
> d$cost<-rowSums(d[,4:9])
> df<-tapply(d$cost,d$HHID,sum)
> df<-data.frame(HHID=names(df),cost.nonagri=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

2) Interest.nonagri

```
> d<-subset(outfiles[[23]],Q06_C05==2)
> d[is.na(d)]<-0
> d$int<-d$Q06_C08*d$Q06_C07/(100+d$Q06_C08)
> df<-tapply(d$int,d$HHID,sum)
> df<-data.frame(HHID=names(df),interest.nonagri=df)
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

3) Receipt.nonagri

```
> d<-subset(outfiles[[22]],Q05H3C01!=13)
> d[is.na(d)]<-0
> d$rcpt<-rowSums(d[,4:9])
> df<-tapply(d$rcpt,d$HHID,sum)
> df<-data.frame(HHID=names(df),rcpt.nonagri=df)
> df[,2]<-df[,2]/12
> hhinc<-merge(hhinc,df,by="HHID",all.x=T)
```

4) Nonagri.income

```
> hhinc[is.na(hhinc)]<-0
> hhinc$nonagri.income<-hhinc$rcpt.nonagri-hhinc$cost.nonagri-hhinc$interest.nonagri
> head(hhinc)
```

```
     HHID    hw12a hhsize  salary cost.crop cost.livestock1 cost.livestock2
1 0100301 1236.831      2       0  405833.3        405833.3           0.000
2 0100302 1236.831      5  850000       0.0             0.0        5833.333
3 0100303 1236.831      8 1630000       0.0             0.0           0.000
4 0100304 1236.831      5  880000       0.0             0.0           0.000
5 0100305 1236.831      5       0  538000.0        538000.0        1083.333
6 0100306 1236.831      3       0  105875.0        105875.0           0.000
  cost.fish1 cost.fish2 cost.forestry interest.agri rcpt.crop rcpt.livestock
1          0     0.0000        0.0000          0.00         0          0.000
2          0  1666.6667        0.0000          0.00         0       6250.000
3          0  2500.0000        0.0000          0.00         0          0.000
4          0  7500.0000        0.0000          0.00         0          0.000
5          0 14166.6667      583.3333     203883.50         0       3333.333
6          0   458.3333      333.3333      20388.35         0          0.000
  rcpt.fish rcpt.forestry agri.income cost.nonagri interest.nonagri
1      0.00      20000.000  -791666.67    567083.33                0
2  30833.33      16666.667    46250.00         0.00                0
3  47500.00       4416.667    49416.67         0.00                0
4  26666.67      22500.000    41666.67         0.00                0
5  41666.67      14166.667 -1236550.16     99416.67                0
6  10833.33      29166.667  -192930.02         0.00                0
  rcpt.nonagri nonagri.income
1     817083.3       250000.00
2          0.0            0.00
3          0.0            0.00
4          0.0            0.00
5     183333.3        83916.67
6          0.0            0.00
> hhinc.save2<-hhinc
```

- Weighted mean of non-agri income

```
> round(sapply(hhinc[,17:20],function(x) weighted.mean(x,hhinc$hw12a)))
    cost.nonagri interest.nonagri     rcpt.nonagri   nonagri.income
          877518             5538          1139291           256235
```

7.4 INCOME OWN HOUSE

- Estimating imputed rent is a very difficult work. The survey report CSES 2009 described about this at page 102, as below.

"The method that is used in CSES originates from the view that income from owner occupied house can be treated as an investment and that one can look for an alternative investment of the capital in the owner occupied house. This alternative investment can be the long-term return from Government bonds. Income from owner-occupied dwellings and houses is calculated by subtract the remaining debt from the market value of the dwelling. This value is multiplied by the long-term interest for Government bonds. A problem with this method is that it can yield unreasonable high estimates of imputed rent in large cities with high land values. In Cambodia this is the case in Phnom Penh. To prevent unreasonable high values of imputed rent to distort the results, imputed rent is limited to a maximum 12 million Riels per year."

Variables used

Item	File No	Section	Variables to be used	Reference period
Long-term interest for Government bonds			a constant of 3%, which is considered an annual rate	
Market value of the dwelling	25	08	Q08_C05: How much would you have to pay to buy a building like this in the village? (in Riels)	
Outstanding loan	23	06	Subset of Q06_C05==7: Primary purpose = Purchase/improvement of dwelling Q06_C07: How much is the outstanding loan now (this month)? Interest should not be included. (in Riels)	
Interest rate	23	06	Q06_C08: If interest is charged, what is the monthly rate of interest? (%)	
income.ownhouse1	{Q08_C05 - Q06_C07/(1+Q06_C08/100)}*0.03/12			
income.ownhouse2	Min{income.ownhouse1, 12*10^6}			

Note:
- ✓ It is not clear whether the 3% of the long-term interest for Government bonds is monthly or annual.
- ✓ The median of q06_c08 (monthly interest rate) is 3%.
- ✓ In 7,532 cases, the results of using 3% as annual rate are the same as Yearly.Income. This supports that the 3% is annual rate.

1) Market value of the dwelling

```
> oh<-outfiles[[36]][,c("HHID","hw12a","hhsize")]
> d<-outfiles[[25]][,c("HHID","Q08_C05")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),market.value=df)
> oh<-merge(oh,df,by="HHID",all.x=T)
> head(oh)
     HHID    hw12a hhsize market.value
1 0100301 1236.831      2      1.7e+07
2 0100302 1236.831      5      1.2e+07
3 0100303 1236.831      8      1.2e+07
4 0100304 1236.831      5      1.3e+07
5 0100305 1236.831      5      4.0e+07
6 0100306 1236.831      3      2.5e+06
```

2) Remaining debt

```
> d<-outfiles[[23]][,c("HHID","Q06_C05","Q06_C07","Q06_C08")]
> dim(d)
[1] 1365    4
> d<-subset(d,Q06_C05==7)
> dim(d)
[1] 94  4
> head(d)
      HHID Q06_C05 Q06_C07 Q06_C08
16 2101806       7 3600000     1.8
26 0501901       7 1000000     0.0
27 0700904       7 3200000     0.0
45 0700808       7  800000     3.0
48 1501008       7 2000000     3.0
62 1205110       7 2864000     2.0

> d$remaining.debt<-d$Q06_C07/(1+d$Q06_C08/100)
> head(d)
      HHID Q06_C05 Q06_C07 Q06_C08 remaining.debt
16 2101806       7 3600000     1.8        3536346
26 0501901       7 1000000     0.0        1000000
27 0700904       7 3200000     0.0        3200000
45 0700808       7  800000     3.0         776699
48 1501008       7 2000000     3.0        1941748
62 1205110       7 2864000     2.0        2807843
> df<-tapply(d$remaining.debt,d$HHID,sum)
> df<-data.frame(HHID=names(df),remaining.debt=df)
> oh<-merge(oh,df,by="HHID",all.x=T)
> head(oh)
     HHID    hw12a hhsize market.value remaining.debt
1 0100301 1236.831      2      1.7e+07             NA
2 0100302 1236.831      5      1.2e+07             NA
```

```
3 0100303 1236.831       8       1.2e+07              NA
4 0100304 1236.831       5       1.3e+07              NA
5 0100305 1236.831       5       4.0e+07              NA
6 0100306 1236.831       3       2.5e+06              NA
```

3) Monthly income.ownhouse

```
> oh[is.na(oh)]<-0
> oh$income.ownhouse1<-(oh$market.value-oh$remaining.debt)*0.03/12
> oh$income.ownhouse2<-ifelse(oh$income.ownhouse1>10^6,10^6,oh$income.ownhouse1)
> head(oh)
     HHID    hw12a hhsize market.value remaining.debt income.ownhouse1
1 0100301 1236.831       2       1.7e+07              0             42500
2 0100302 1236.831       5       1.2e+07              0             30000
3 0100303 1236.831       8       1.2e+07              0             30000
4 0100304 1236.831       5       1.3e+07              0             32500
5 0100305 1236.831       5       4.0e+07              0            100000
6 0100306 1236.831       3       2.5e+06              0              6250
  income.ownhouse2
1            42500
2            30000
3            30000
4            32500
5           100000
6             6250
```

✓ **The value of income.ownhouse1 was replaced with the upper limit in 82 cases.**

```
> table(oh$income.ownhouse1>10^6)
FALSE  TRUE
 3758    82
```

- Weighted mean of income own house

```
> round(sapply(oh[,4:7],function(x) weighted.mean(x,oh$hw12a)))
    market.value   remaining.debt income.ownhouse1 income.ownhouse2
        39905134           137164            99420            90503
```

Remarks: (CSES 2009)
The delegates from Cambodia to the seventh workshop explained the concept and definition of imputed rent used in SES as follows;
"The respondent was asked to impute for their own house but in case they could not impute the respondent was asked impute the same price of the closed (in the village) house has been rented with the similar characteristic of their own housing. "

7.5 PROPERTY INCOME

No	Item	File No	Section	Variables to be used	Reference period
1	bank.interest	24	07	Subset of Q07_C01==7 Q07_C05	12M
2	interest.otherloans	24	07	Subset of Q07_C01==9 Q07_C05	12M
3	dividents	24	07	Subset of Q07_C01==8 Q07_C05	12M
4	rent.fromland	22	05H3	Subset of Q05H3C01==13 Q05H3C03 to Q05H3C08: Activities	12M
5	gross.property.income	Sum of the above four items			12M
6	interest.paidnet	23	06	Subset of Q06_C05==3-6, 8-10 Q06_C08*Q06_C07/(100+Q06_C08)	1M
				q06_c05:What was the primary purpose for which your household borrowed the money?	
7	property.income	= gross.property.income (minus) interest.paidnet			
	primary.income	Sam of 7.1 to 7.5			

```
> pi<-outfiles[[36]][,c("HHID","hw12a","hhsize")]
```

1) Bank interest

```
> d<-subset(outfiles[[24]],Q07_C01==7)[,c("HHID","Q07_C05")]
> dim(d)
[1] 83  2
> head(d)
        HHID  Q07_C05
125  1205010  4600000
135  1201301   860000
150  1201307  1600000
162  1201310   800000
754  0401403  2000000
1160 1206909 14600000
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),bank.interest=df)
> df[,2]<-df[,2]/12
> pi<-merge(pi,df,by="HHID",all.x=T)
> pi[is.na(pi)]<-0
> head(pi)
```

```
     HHID    hw12a hhsize bank.interest
1 0100301 1236.831      2             0
2 0100302 1236.831      5             0
3 0100303 1236.831      8             0
4 0100304 1236.831      5             0
5 0100305 1236.831      5             0
6 0100306 1236.831      3             0
```

2) Interest.otherloans

```
> d<-subset(outfiles[[24]],Q07_C01==9)[,c("HHID","Q07_C05")]
> dim(d)
[1] 91  2
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),interest.otherloans=df)
> df[,2]<-df[,2]/12
> pi<-merge(pi,df,by="HHID",all.x=T)
> pi[is.na(pi)]<-0
```

3) Dividents

```
> d<-subset(outfiles[[24]],Q07_C01==8)[,c("HHID","Q07_C05")]
> dim(d)
[1] 76  2
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),dividents=df)
> df[,2]<-df[,2]/12
> pi<-merge(pi,df,by="HHID",all.x=T)
> pi[is.na(pi)]<-0
> pi.save<-pi
```

4) Rent from land

```
> d<-subset(outfiles[[22]],Q05H3C01==13)
> dim(d)
[1] 30 11
> d[is.na(d)]<-0
> head(d)
    pkid    HHID Q05H3C01 Q05H3C03 Q05H3C04 Q05H3C05 Q05H3C06 Q05H3C07
54    56 1201402       13  8640000        0        0        0        0
56    58 1201403       13 23040000        0        0        0        0
74    76 1205109       13  7200000        0        0        0        0
846  851 0803501       13        0        0        0        0        0
867  872 0803502       13        0        0        0        0        0
889  894 0803503       13        0        0        0        0        0
    Q05H3C08 EntryUser          ChangeDate
54         0       tey 2012-02-25 00:02:00
56         0       tey 2012-02-25 00:28:00
74         0      riya 2012-02-27 19:02:00
846        0       tey 2012-11-22 19:45:00
867        0       tey 2012-11-23 00:17:00
889        0       tey 2012-11-23 01:12:00
> d$rent<-rowSums(d[,4:9])
> df<-tapply(d$rent,d$HHID,sum)
```

```
> df<-data.frame(HHID=names(df),rent.fromland=df)
> df[,2]<-df[,2]/12
> pi<-merge(pi,df,by="HHID",all.x=T)
> pi[is.na(pi)]<-0
> pi.save<-pi
```

5) Gross property income

```
> pi$grossproperty.income<-rowSums(pi[,4:7])
> head(pi)
     HHID    hw12a hhsize bank.interest interest.otherloans dividents
1 0100301 1236.831      2             0                    0         0
2 0100302 1236.831      5             0                    0         0
3 0100303 1236.831      8             0                    0         0
4 0100304 1236.831      5             0                    0         0
5 0100305 1236.831      5             0                    0         0
6 0100306 1236.831      3             0                    0         0
  rent.fromland grossproperty.income
1             0                    0
2             0                    0
3             0                    0
4             0                    0
5             0                    0
6             0                    0
```

6) Interest paid net

```
> d<-subset(outfiles[[23]],is.element(Q06_C05,c(3:6,8:10)))
> dim(d)
[1] 696  12
> d[is.na(d)]<-0
> d$paid<-d$Q06_C08*d$Q06_C07/(100+d$Q06_C08)
> df<-tapply(d$paid,d$HHID,sum)
> df<-data.frame(HHID=names(df),interest.paidnet=df)
> pi<-merge(pi,df,by="HHID",all.x=T)
> pi[is.na(pi)]<-0
> pi.save<-pi
```

7) Property income

```
> pi$property.income<-pi$grossproperty.income-pi$interest.paidnet
> head(pi)
     HHID    hw12a hhsize bank.interest interest.otherloans dividents
1 0100301 1236.831      2             0                    0         0
2 0100302 1236.831      5             0                    0         0
3 0100303 1236.831      8             0                    0         0
4 0100304 1236.831      5             0                    0         0
5 0100305 1236.831      5             0                    0         0
6 0100306 1236.831      3             0                    0         0
  rent.fromland grossproperty.income interest.paidnet property.income
1             0                    0                0               0
2             0                    0                0               0
3             0                    0                0               0
4             0                    0                0               0
5             0                    0                0               0
6             0                    0                0               0
```

```
> pi.save<-pi
```

- **Weighted mean**

```
> round(sapply(pi[,4:10],function(x) weighted.mean(x,hhinc$hw12a)))
       bank.interest  interest.otherloans             dividents
                 534                 1808                  3170
       rent.fromland grossproperty.income     interest.paidnet
                 700                 6213                 10759
     property.income
               -4547
```

```
> table(pi$property.income>0)
FALSE  TRUE
 3804    36
> table(pi$property.income<0)
FALSE  TRUE
 3292   548
> table(pi$property.income==0)
FALSE  TRUE
  584  3256
```

- Remarks;

Property income is positive in 36cases, and negative in 548 cases.

```
# Appended income.ownhouse and property.income to hhinc
> hhinc.save<-hhinc
> hhinc<-merge(hhinc,oh[,c("HHID","income.ownhouse2")],by="HHID",all.x=T)
> hhinc.save<-hhinc
> hhinc<-merge(hhinc,pi[,-2],by="HHID",all.x=T)
> hhinc.save<-hhinc

# Generated primary income.
> colnames(hhinc)
 [1] "HHID"                "hw12a"               "hhsize.x"
 [4] "salary"              "cost.crop"           "cost.livestock1"
 [7] "cost.livestock2"     "cost.fish1"          "cost.fish2"
[10] "cost.forestry"       "interest.agri"       "rcpt.crop"
[13] "rcpt.livestock"      "rcpt.fish"           "rcpt.forestry"
[16] "agri.income"         "cost.nonagri"        "interest.nonagri"
[19] "rcpt.nonagri"        "nonagri.income""income.ownhouse2"
[22] "hhsize.y"            "bank.interest"       "interest.otherloans"
[25] "dividents"           "rent.fromland"       "grossproperty.income"
[28] "interest.paidnet"    "property.income"

> hhinc$primary.income<-rowSums(hhinc[,c(4,16,20,21,29)])
```

7.6 TRANSFERS RECEIVED

No	Item	File No	Section	Variables to be used	Reference period
1	pension.domestic	24	07	Subset of Q07_C01==1 Q07_C03	12M
2	pension.abroad	24	07	Subset of Q07_C01==1 Q07_C04	12M
3	pension	=pension.domestic + pension.abroad			12M
4	ngo.transfer	24	07	Subset of Q07_C01==5 Q07_C05	12M
5	remittance.domestic1	24	07	Subset of Q07_C01==2: Remittances from other relatives or others(not reported in current migration section) Q07_C03	12M
	~~remittance.domestic2~~	9	03B	Subset of q03bc05b>0: Total value of the transfers and cash gifts sent to the household q03bc12	12M
6	remittance.abroad1	24	07	Subset of Q07_C01==2 Q07_C04	12M
	~~remittance.abroad2~~	9	03B	Subset of q03bc05c>0 q03bc12	12M
7	total.private.transfers	= remittance.domestic + remittance.abroad			12M
8	scholarship.government	24	07	Subset of Q07_C01==3 Q07_C05	12M
9	scholarship.ngo	24	07	Subset of Q07_C01==4 Q07_C05	12M
10	total.scholarship	= scholarship.government + scholarship.ngo			12M
11	gifts	24	07	Subset of Q07_C01==10,11 Q07_C05	12M
12	other.transfer	24	07	Subset of Q07_C01==12 Q07_C05	12M
13	total.transfers	Sum of the above 6 items			12M

Remarks: The questionnaire of 03B which existed in CSES 2009 is no more available in CSES 2012.

```
> tr<-outfiles[[36]][,c("HHID","hw12a","hhsize")]
```

1) Pension domestic

```
> d<-subset(outfiles[[24]],Q07_C01==1)[,c("HHID","Q07_C03")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),pension.domestic=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

2) Pension abroad

```
> d<-subset(outfiles[[24]],Q07_C01==1)[,c("HHID","Q07_C04")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),pension.abroad=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

3) Total pension

```
> tr$pension<-tr$pension.domestic+tr$pension.abroad
> tr.save<-tr
> head(tr)
     HHID    hw12a hhsize pension.domestic pension.abroad pension
1 0100301 1236.831      2                0              0       0
2 0100302 1236.831      5                0              0       0
3 0100303 1236.831      8                0              0       0
4 0100304 1236.831      5                0              0       0
5 0100305 1236.831      5                0              0       0
6 0100306 1236.831      3                0              0       0

> table(tr$pension>0)
FALSE  TRUE
 3717   123
```

 # 4) NGO transfers

```
> d<-subset(outfiles[[24]],Q07_C01==5)[,c("HHID","Q07_C05")]
> dim(d)
[1] 162   2
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),ngo.transfers=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

```
# 5) Remittance domestic
> d<-subset(outfiles[[24]],Q07_C01==2)[,c("HHID","Q07_C03")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),remittance.domestic1=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0

> head(tr)
     HHID    hw12a hhsize pension.domestic pension.abroad pension ngo.transfers
1 0100301 1236.831      2                0              0       0             0
2 0100302 1236.831      5                0              0       0             0
3 0100303 1236.831      8                0              0       0             0
4 0100304 1236.831      5                0              0       0             0
5 0100305 1236.831      5                0              0       0             0
6 0100306 1236.831      3                0              0       0             0
  remittance.domestic1
1            25000.000
2                0.000
3             8333.333
4            25000.000
5             6666.667
6             2083.333

> table(tr$remittance.domestic1>0)
FALSE  TRUE
 2749  1091


# 6) Remittance abroad
> d<-subset(outfiles[[24]],Q07_C01==2)[,c("HHID","Q07_C04")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),remittance.abroad1=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0

> table(tr$remittance.abroad1>0)
FALSE  TRUE
 3672   168


# 7) Total private transfers
> colnames(tr)
[1] "HHID"                "hw12a"               "hhsize"
[4] "pension.domestic"    "pension.abroad"      "pension"
[7] "ngo.transfers"       "remittance.domestic1" "remittance.abroad1"

> tr$total.private.transfers<-rowSums(tr[,8:9])
> tr.save<-tr


# 8) Scholarship government
> d<-subset(outfiles[[24]],Q07_C01==3)[,c("HHID","Q07_C05")]
```

```
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),scholarship.gov=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

9) Scholarship NGO

```
> d<-subset(outfiles[[24]],Q07_C01==4)[,c("HHID","Q07_C05")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),scholarship.ngo=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

10) Total scholarship

```
> tr$total.scholarship<-tr$scholarship.gov+tr$scholarship.ngo
> tr.save<-tr
> head(tr)
     HHID    hw12a hhsize pension.domestic pension.abroad pension ngo.transfers
1 0100301 1236.831      2                0              0       0             0
2 0100302 1236.831      5                0              0       0             0
3 0100303 1236.831      8                0              0       0             0
4 0100304 1236.831      5                0              0       0             0
5 0100305 1236.831      5                0              0       0             0
6 0100306 1236.831      3                0              0       0             0
  remittance.domestic1 remittance.abroad1 total.private.transfers scholarship.gov
1            25000.000                  0                25000.000               0
2                0.000                  0                    0.000               0
3             8333.333                  0                 8333.333               0
4            25000.000                  0                25000.000               0
5             6666.667                  0                 6666.667               0
6             2083.333                  0                 2083.333               0
  scholarship.ngo total.scholarship
1               0                 0
2               0                 0
3               0                 0
4               0                 0
5               0                 0
6               0                 0

> table(tr$scholarship.gov>0)
FALSE  TRUE
 3814    26
> table(tr$scholarship.ngo>0)
FALSE  TRUE
 3821    19
```

#11) Gifts

```
> d<-subset(outfiles[[24]],Q07_C01==10|Q07_C01==11)[,c("HHID","Q07_C05")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
```

```
> df<-data.frame(HHID=names(df),gifts=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

```
# 12) Other transfers
> d<-subset(outfiles[[24]],Q07_C01==12)[,c("HHID","Q07_C05")]
> d[is.na(d)]<-0
> df<-tapply(d[,2],d$HHID,sum)
> df<-data.frame(HHID=names(df),other.transfers=df)
> df[,2]<-df[,2]/12
> tr<-merge(tr,df,by="HHID",all.x=T)
> tr[is.na(tr)]<-0
```

```
# 13) Total transfers
> colnames(tr)
 [1] "HHID"                      "hw12a"                     "hhsize"
 [4] "pension.domestic"          "pension.abroad"            "pension"
 [7] "ngo.transfers"             "remittance.domestic1"      "remittance.abroad1"
[10] "total.private.transfers"   "scholarship.gov"           "scholarship.ngo"
[13] "total.scholarship" "gifts" "other.transfers"
> tr$total.transfers<-rowSums(tr[,c(6,7,10,13:15)])
> tr.save<-tr
> table(tr$total.transfers>0)
FALSE  TRUE
 1566  2274
```

- Weighted mean of transfers received

```
> t<-round(sapply(tr[,4:16],function(x) weighted.mean(x,hhinc$hw12a)))
> data.frame(Item=names(t),Value=round(t),row.names=NULL)
```

	Item	Value
1	pension.domestic	3907
2	pension.abroad	170
3	pension	4077
4	ngo.transfers	804
5	remittance.domestic1	12398
6	remittance.abroad1	9571
7	total.private.transfers	21970
8	scholarship.gov	357
9	scholarship.ngo	480
10	total.scholarship	837
11	gifts	3981
12	other.transfers	3186
13	total.transfers	34855

14) Total income

```
> hhinc<-merge(hhinc,tr[,-2],by="HHID",all.x=T)
> hhinc$total.income<-hhinc$primary.income+hhinc$total.transfers
> hhinc.save<-hhinc
```

7.7 NEGATIVE TRANSFERS (TRANSFERS PAID)

- **Estimation method for negative transfer differs between CSES 2009 and 2012.**
- **In CSES 2009, diary data was used for negative transfer. However, recall data was used in CSES 2012.**

CSES 2012

```
> colnames(outfiles[[4]])
[1] "pkid"       "HHID"       "Q01CC01"    "Q01CC04"    "Q01CC05"    "Q01CC06"    "EntryUser"
[8] "ChangeDate"

# file: outfile[[04]] : HHRecallNonFood
# Q01CC01 = 14:17
# Q01CC06
```

Negative transfers from recall data

Item	File	Section	Variables to be used	Reference period
Charities	04 HHRecallNonFood	1C	Subset of Q01CC01==14 Q01CC06	12M
Inter-households transfers	04 HHRecallNonFood	1C	Subset of Q01CC01==15 Q01CC06	12M
Taxes on income	04 HHRecallNonFood	1C	Subset of Q01CC01==16 Q01CC06	12M
Taxes on property	04 HHRecallNonFood	1C	Subset of Q01CC01==17 Q01CC06	12M
Total transfers paid (Negative transfers)			Sum of the above / 12	1M
disposable.income1			= total.income (minus) total.negative.transfers	1M
disposable.income2			Replaced by 4,000 if disposable.income1<0	1M

```
> NF<-outfiles[[4]]  # HHRecallNonFood
> colnames(NF)
[1] "pkid"       "HHID"       "Q01CC01"    "Q01CC04"    "Q01CC05"    "Q01CC06"
[7] "EntryUser"  "ChangeDate"

# Negative transfers
> nt<-outfiles[[36]][,c("HHID","hw12a","hhsize")]
```

```
# Charities (12M)
> d[is.na(d)]<-0
> df<-tapply(d[,6],d$HHID,sum)
> df<-data.frame(HHID=names(df),charity=df)
> head(df[df$charity>0,])
           HHID charity
0102307 0102307  200000
0102308 0102308   40000
0102601 0102601  200000
0102602 0102602  200000
0102603 0102603  100000
0102604 0102604  150000

> nt<-merge(nt,df,by="HHID",all.x=T)
> nt[is.na(nt)]<-0
> dim(nt)
[1] 3840    4
> head(nt[nt$charity>0,])
       HHID    hw12a hhsize charity
137 0102307 1217.582      6  200000
138 0102308 1217.582      6   40000
151 0102601  615.723      9  200000
152 0102602  615.723      5  200000
153 0102603  615.723      5  100000
154 0102604  615.723      6  150000
> weighted.mean(nt$charity,nt$hw12a)
[1] 24958.79
> nt.save<-nt

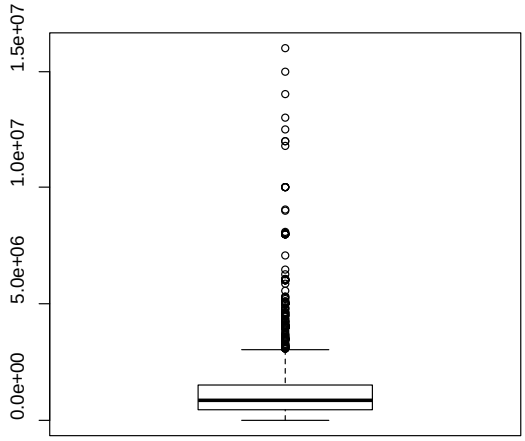

# Inter HH transfers (12M)
> d<-subset(NF,Q01CC01==15)
> dim(d)
[1] 3832    8
> d[is.na(d)]<-0
> df<-tapply(d[,6],d$HHID,sum)
> df<-data.frame(HHID=names(df),hhtransfer=df)
> head(df[df$hhtransfer>0,])
           HHID hhtransfer
0100301 0100301    1550000
0100302 0100302     520000
0100303 0100303    1220000
0100304 0100304     530000
0100305 0100305    4060000
0100306 0100306     650000

> nt<-merge(nt,df,by="HHID",all.x=T)
> nt[is.na(nt)]<-0
> dim(nt)
[1] 3840    5
> head(nt[nt$charity>0 & nt$hhtransfer>0,])
       HHID    hw12a hhsize charity hhtransfer
137 0102307 1217.582      6  200000      6e+05
138 0102308 1217.582      6   40000      2e+05
151 0102601  615.723      9  200000      5e+05
152 0102602  615.723      5  200000      7e+05
```

```
153 0102603   615.723       5   100000       4e+05
154 0102604   615.723       6   150000       4e+05
> weighted.mean(nt$hhtransfer,nt$hw12a)
[1] 1061794
> nt.save<-nt
```

Remarks:
The value of inter-household transfers paid is too large, and might include outliers.

- Boxplot of inter-household transfers paid




```
> summary(nt$hhtransfer)
    Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
       0   460000   870000  1141000  1500000 16000000
```

```
# Taxes on income (12M)
> d<-subset(NF,Q01CC01==16)
> dim(d)
[1] 884   8
> d[is.na(d)]<-0
> df<-tapply(d[,6],d$HHID,sum)
> df<-data.frame(HHID=names(df),income.tax=df)
> head(df[df$income.tax>0,])
           HHID income.tax
0101403 0101403     240000
0102705 0102705      18000
0200808 0200808       7000
0201405 0201405      20000
0301808 0301808       8000
0304501 0304501       5000

> nt<-merge(nt,df,by="HHID",all.x=T)
> nt[is.na(nt)]<-0
> dim(nt)
[1] 3840    6
> head(nt[nt$income.tax>0,])
```

```
       HHID     hw12a hhsize charity hhtransfer income.tax
73  0101403  746.2335      3       0     878000     240000
165 0102705  639.4503      7       0    3500000      18000
238 0200808  996.4721      2       0    2035000       7000
275 0201405  399.3942     10       0    1450000      20000
588 0301808  960.9381      7       0    2050000       8000
771 0304501 1182.2439      4       0    2010000       5000
> weighted.mean(nt$income.tax,nt$hw12a)
[1] 2072.628
> nt.save<-nt
```

 # Taxes on property (12M)

```
> d<-subset(NF,Q01CC01==17)
> dim(d)
[1] 2299    8
> d[is.na(d)]<-0
> df<-tapply(d[,6],d$HHID,sum)
> df<-data.frame(HHID=names(df),property.tax=df)
> head(df[df$property.tax>0,])
           HHID property.tax
0100305 0100305         9000
0100307 0100307         4500
0100310 0100310        12000
0100601 0100601         9000
0100602 0100602         4500
0100604 0100604         4500

> nt<-merge(nt,df,by="HHID",all.x=T)
> nt[is.na(nt)]<-0
> dim(nt)
[1] 3840    7
> head(nt[nt$property.tax>0,])
      HHID    hw12a hhsize charity hhtransfer income.tax property.tax
5  0100305 1236.831      5       0    4060000          0         9000
7  0100307 1236.831      6       0    5040000          0         4500
10 0100310 1236.831      7       0    1550000          0        12000
11 0100601 1328.537     10       0    3300000          0         9000
12 0100602 1328.537      9       0    1000000          0         4500
14 0100604 1328.537      4       0     880000          0         4500
> weighted.mean(nt$property.tax,nt$hw12a)
[1] 23942.09
> nt.save<-nt
```

 # Total transfers paid / Negative transfers (1M)

```
> nt$negative.transfers<-rowSums(nt[,4:7])/12
> nt.save<-nt
> head(nt)
     HHID    hw12a hhsize charity hhtransfer income.tax property.tax
1 0100301 1236.831      2       0    1550000          0            0
2 0100302 1236.831      5       0     520000          0            0
3 0100303 1236.831      8       0    1220000          0            0
4 0100304 1236.831      5       0     530000          0            0
5 0100305 1236.831      5       0    4060000          0         9000
6 0100306 1236.831      3       0     650000          0            0
```

```
  negative.transfers
1          129166.67
2           43333.33
3          101666.67
4           44166.67
5          339083.33
6           54166.67
```

- **Weighted mean of monthly negative transfers**

```
> t<-round(sapply(nt[,4:8],function(x) weighted.mean(x,nt$hw12a)))
> t<-c(round(t[1:4]/12),t[5])
> data.frame(Item=names(t),Value=round(t),row.names=NULL)
                Item Value
1            charity  2080
2         hhtransfer 88483
3         income.tax   173
4       property.tax  1995
5 negative.transfers 92731
```

```
# Appended negative transfers to hhinc and generated disposable.income1
> hhinc<-merge(hhinc,nt[,c(-2,-3)],by="HHID",all.x=T)
> hhinc$disposable.income1<-hhinc$total.income-hhinc$negative.transfers
> hhinc.save<-hhinc
f

# disposable.income2
> hhinc$disposable.income2<-ifelse(hhinc$disposable.income1<0,
+ 4000,hhinc$disposable.income1)
> hhinc.save<-hhinc
```

- **Weighted mean of household income**

```
> t<-round(sapply(hhinc[,c(4,16,20,21,29,44,45,50,51)],function(x)
weighted.mean(x,hhinc$hw12a)))
> data.frame(Item=names(t),Value=round(t/1000),row.names=NULL)
                 Item Value
1              salary   403
2         agri.income   400
3      nonagri.income   256
4   income.ownhouse2     91
5     property.income    -5
6     total.transfers    35
7        total.income  1180
8  negative.transfers    93
9  disposable.income1  1087
```

Source of income			Report (p) 2012	My trial 2012	Computed from IncomeHousehold_2012
Primary income			984		
	Salary		403	403	403
	Self employment		576		
		Agriculture	229	400	223
		Non-agriculture	249	256	261
		Own house	98	91	98
	Property income		5	-5	5
Transfers received			35	35	35
Total income			**1019**	1180	1025
Transfers paid / negative income			5	93	
Disposable income			1014	1087	1020
Remarks					
No. of records			3840	3840	3840

(For reference)

```
> t<-round(sapply(hhinc[,c(-1,-2,-3)],function(x) weighted.mean(x,hhinc$hw12a)))
> data.frame(Item=names(t),Value=round(t/1000),row.names=NULL)
```

	Item	Value
1	salary	403
2	cost.crop	82
3	cost.livestock1	12
4	cost.livestock2	19
5	cost.fish1	2
6	cost.fish2	10
7	cost.forestry	1
8	interest.agri	8
9	rcpt.crop	420
10	rcpt.livestock	48
11	rcpt.fish	32
12	rcpt.forestry	34
13	agri.income	400
14	cost.nonagri	878
15	interest.nonagri	6
16	rcpt.nonagri	1139
17	nonagri.income	256
18	income.ownhouse2	91
19	hhsize.y	0
20	bank.interest	1
21	interest.otherloans	2
22	dividents	3
23	rent.fromland	1
24	grossproperty.income	6
25	interest.paidnet	11
26	property.income	-5
27	primary.income	1145
28	hhsize	0
29	pension.domestic	4
30	pension.abroad	0
31	pension	4
32	ngo.transfers	1
33	remittance.domestic1	12
34	remittance.abroad1	10
35	total.private.transfers	22
36	scholarship.gov	0

Chapter 8. Resampled micro data to be provided

Strategy

1. Resampling

The data files (except “PSUListing”) will be resampled as follows;

1.1 To select 80% of HHID by systematic sampling method.

1.2 To select records which HHID belongs to the above selected HHID from the data files.

1.4 To adjust household weight and person weight by dividing by 0.8.

2. The Village data files will not be included.

3. The data file of “hhexp” which the author generated in Chapter 6 will be included.

4. The provided summary file of household income will be included. This will be discussed later.

5. Resampled data files will be provided in CSV and R format.

6. All data of “PSUListing” will be provided.

 # Saved data frame “hhexp” in outfiles[[38]] and addes “hhexp” to Rnames

```
> outfiles[[38]]<-hhexp
> Rnames[38]<-"hhexp"
> length(outfiles)
[1] 38
```

Resampling

```
# list of all HHID
> hhid.all<-outfiles[[1]]$HHID
> length(hhid.all)
[1] 3840

# Selected 80% of hhid2
> Int<-5
> (St<-sample(1:5,1))
[1] 4
> hhid.selected<-hhid.all[(1:3840)%%Int!=(St-1)]
> length(hhid.selected)/length(hhid.all)
[1] 0.8
> hhid.selected<-hhid.selected[order(hhid.selected)]
> head(hhid.selected)
[1] "0100301" "0100302" "0100304" "0100305" "0100306" "0100307"

# Resampled at the rate of 80%
# outfiles[[1]] to outfiles[[38]]

> Rnames.resampled<-paste(Rnames,".80",sep="")
> Rnames.resampled
```

```
 [1] "Households.80"              "HHMembers.80"
 [3] "HHFoodConsumption.80"       "HHRecallNonFood.80"
 [5] "HHVulnerability.80"         "PersonEducation.80"
 [7] "HHHousing.80"               "HHLandOwnership.80"
 [9] "HHProductionCrops.80"       "HHCostCultivationCrops.80"
[11] "HHInventoryCrops.80"        "HHSalesCrops.80"
[13] "HHLivestock1.80"            "HHLivestock2.80"
[15] "HHFishCultivation1.80"      "HHFishCultivation2.80"
[17] "HHFishCultivation3.80"      "HHForestryHunting1.80"
[19] "HHForestryHunting2.80"      "HHNonAgriculture1.80"
[21] "HHNonAgriculture2.80"       "HHNonAgriculture3.80"
[23] "HHLiabilities.80"           "HHIncomeOtherSource.80"
[25] "HHConstruction.80"          "HHDurableGoods.80"
[27] "PersonMaternalHealth.80"    "PersonHealthU2.80"
[29] "PersonIllness.80"           "PersonDisability.80"
[31] "PersonEcoCurrent.80"        "PersonviolenceA.80"
[33] "PersonViolenceB.80"         "HHOtherInfo.80"
[35] "PSUListing.80"              "weighthouseholds.80"
[37] "weightpersons.80"           "hhexp.80"

> outfiles.80<-list()
> for(j in 1:38){
+ d<-outfiles[[j]]
+ outfiles.80[[j]]<-subset(d,is.element(d$HHID,hhid.selected))
+ }
> length(outfiles.80)
[1] 38


# Adjusted weight and named as HW and PW
> d<-outfiles.80[[36]]
> colnames(d)
[1] "PSU"           "HHID"          "urbrur"        "Stratum"
[5] "Poststratum"   "hhsize"        "hw12a"         "Province_Code"
[9] "region"
> d$HW<-d$hw12a/0.8
> outfiles.80[[36]]<-d

> d<-outfiles.80[[37]]
> colnames(d)
[1] "PID"       "PSU"          "HHID"         "urbrur"
[5] "Stratum"     "Poststratum" "hw12a"        "pw12a"
> d$HW<-d$hw12a/0.8
> d$PW<-d$pw12a/0.8
> outfiles.80[[37]]<-d

> d<-outfiles.80[[38]]
> colnames(d)
 [1] "HHID"           "food"           "alcohol"
 [4] "clothing"       "housing"        "furnishing"
```

```
 [7] "health"         "transportation" "communication"
[10] "recreation"     "education"      "miscellaneous"
[13] "total"          "foodshare"      "hw12a"
[16] "urbrur"         "Province_Code"  "region"
> d$HW<-d$hw12a/0.8
> outfiles.80[[38]]<-d
```

- Resampling of provided summary household income data

```
> d2012<-read.spss("IncomeHousehold_2012.sav",to.data.frame=TRUE)
> dim(d2012)
[1] 3840   85

> d2012.80<-subset(d2012,is.element(d2012$HHID,hhid.selected))
> dim(d2012.80)
[1] 3072   85

> hhinc.80<-d2012.80[order(d2012.80$HHID),]
> table(hhinc.80$HHID==outfiles.80[[1]]$HHID)
TRUE
3072

> hhinc<-d2012
> save(hhinc,hhinc.80,file="IcomeHousehold2012.RData")

> write.csv(hhinc.80,"hhinc.80.csv",row.names=F)


# Appended to dataframes of outfiles and outfiles.80
> length(outfiles)
[1] 38
> outfiles[[39]]<-hhinc
> length(outfiles.80)
[1] 38
> outfiles.80[[39]]<-hhinc.80
> Rnames[39]<-"hhinc"
> Rnames.resampled[39]<-"hhinc.80"
```

- Replace outfiles.80[[35]]: “PSUListing” file with outfiles[[35]]

```
 > outfiles.80[[35]]<-outfiles[[35]]
```

Note: outfiles.80[[35]] and "PSUListing_80.csv" are not resampled.

```
# Number of records and variables in each resampled file
> for(j in 1:39){
+ cat(format(j,width=2),": ",format(Rnames.resampled[j],width=30),": ",
+ format(nrow(outfiles.80[[j]]),width=7),",",
+ format(ncol(outfiles.80[[j]]),width=3),"¥n")
+ }

 1 :  Households.80                 :     3072 ,  10
 2 :  HHMembers.80                  :    14152 ,  23
 3 :  HHFoodConsumption.80          :    46214 ,   8
 4 :  HHRecallNonFood.80            :    32114 ,   8
 5 :  HHVulnerability.80            :     3074 ,  20
 6 :  PersonEducation.80            :    13440 ,  29
 7 :  HHHousing.80                  :     3072 ,  51
 8 :  HHLandOwnership.80            :     3031 ,  37
 9 :  HHProductionCrops.80          :     3209 ,  15
10 :  HHCostCultivationCrops.80     :     3207 ,  21
11 :  HHInventoryCrops.80           :     1533 ,   8
12 :  HHSalesCrops.80               :     1295 ,   8
13 :  HHLivestock1.80               :    16402 ,  19
14 :  HHLivestock2.80               :     3098 ,   6
15 :  HHFishCultivation1.80         :       64 ,   9
16 :  HHFishCultivation2.80         :     2086 ,   6
17 :  HHFishCultivation3.80         :     2974 ,   6
18 :  HHForestryHunting1.80         :     4691 ,   9
19 :  HHForestryHunting2.80         :     5284 ,   6
20 :  HHNonAgriculture1.80          :     1370 ,  15
21 :  HHNonAgriculture2.80          :     5987 ,  11
22 :  HHNonAgriculture3.80          :     2075 ,  11
23 :  HHLiabilities.80              :     1076 ,  12
24 :  HHIncomeOtherSource.80        :     3371 ,   8
25 :  HHConstruction.80             :     2867 ,  27
26 :  HHDurableGoods.80             :    27791 ,  14
27 :  PersonMaternalHealth.80       :     1000 ,  15
28 :  PersonHealthU2.80             :      465 ,  19
29 :  PersonIllness.80              :    14152 ,  23
30 :  PersonDisability.80           :    14152 ,  18
31 :  PersonEcoCurrent.80           :    12896 ,  47
32 :  PersonviolenceA.80            :    14117 ,   8
33 :  PersonViolenceB.80            :       29 ,  14
34 :  HHOtherInfo.80                :     3072 ,  47
35 :  PSUListing.80                 :      384 ,  16
36 :  weighthouseholds.80           :     3072 ,  10
37 :  weightpersons.80              :    14152 ,  10
38 :  hhexp.80                      :     3072 ,  19
39 :  hhinc.80                      :     3072 ,  85

# Converted to CSV
> CSVnames<-gsub("¥¥.","_",Rnames.resampled)
> CSVnames<-paste(CSVnames,".csv",sep="")
```

```
> CSVnames
 [1] "Households_80.csv"              "HHMembers_80.csv"
 [3] "HHFoodConsumption_80.csv"       "HHRecallNonFood_80.csv"
 [5] "HHVulnerability_80.csv"         "PersonEducation_80.csv"
 [7] "HHHousing_80.csv"               "HHLandOwnership_80.csv"
 [9] "HHProductionCrops_80.csv"       "HHCostCultivationCrops_80.csv"
[11] "HHInventoryCrops_80.csv"        "HHSalesCrops_80.csv"
[13] "HHLivestock1_80.csv"            "HHLivestock2_80.csv"
[15] "HHFishCultivation1_80.csv"      "HHFishCultivation2_80.csv"
[17] "HHFishCultivation3_80.csv"      "HHForestryHunting1_80.csv"
[19] "HHForestryHunting2_80.csv"      "HHNonAgriculture1_80.csv"
[21] "HHNonAgriculture2_80.csv"       "HHNonAgriculture3_80.csv"
[23] "HHLiabilities_80.csv"           "HHIncomeOtherSource_80.csv"
[25] "HHConstruction_80.csv"          "HHDurableGoods_80.csv"
[27] "PersonMaternalHealth_80.csv"    "PersonHealthU2_80.csv"
[29] "PersonIllness_80.csv"           "PersonDisability_80.csv"
[31] "PersonEcoCurrent_80.csv"        "PersonviolenceA_80.csv"
[33] "PersonViolenceB_80.csv"         "HHOtherInfo_80.csv"
[35] "PSUListing_80.csv"              "weighthouseholds_80.csv"
[37] "weightpersons_80.csv"           "hhexp_80.csv"
[39] "hhinc_80.csv"


> for(j in 1:39){
+ cmd<-paste("write.csv(outfiles.80[[",j,"]],'",CSVnames[j],"',row.names=F)",sep="")
+ eval(parse(text=cmd))
+ }

> list.files()
 [1] "HHConstruction_80.csv"          "HHCostCultivationCrops_80.csv"
 [3] "HHDurableGoods_80.csv"          "hhexp_80.csv"
 [5] "HHFishCultivation1_80.csv"      "HHFishCultivation2_80.csv"
 [7] "HHFishCultivation3_80.csv"      "HHFoodConsumption_80.csv"
 [9] "HHForestryHunting1_80.csv"      "HHForestryHunting2_80.csv"
[11] "HHHousing_80.csv"               "HHIncomeOtherSource_80.csv"
[13] "HHInventoryCrops_80.csv"        "HHLandOwnership_80.csv"
[15] "HHLiabilities_80.csv"           "HHLivestock1_80.csv"
[17] "HHLivestock2_80.csv"            "HHMembers_80.csv"
[19] "HHNonAgriculture1_80.csv"       "HHNonAgriculture2_80.csv"
[21] "HHNonAgriculture3_80.csv"       "HHOtherInfo_80.csv"
[23] "HHProductionCrops_80.csv"       "HHRecallNonFood_80.csv"
[25] "HHSalesCrops_80.csv"            "HHVulnerability_80.csv"
[27] "Households_80.csv"              "PersonDisability_80.csv"
[29] "PersonEcoCurrent_80.csv"        "PersonEducation_80.csv"
[31] "PersonHealthU2_80.csv"          "PersonIllness_80.csv"
[33] "PersonMaternalHealth_80.csv"    "PersonviolenceA_80.csv"
[35] "PersonViolenceB_80.csv"         "PSUListing_80.csv"
[37] "weighthouseholds_80.csv"        "weightpersons_80.csv"
[39] "hhinc_80.csv"
```

CONFIDENTIAL

All information collected in this survey is strictly confidential and will be used for statistical purposes only

Royal Government of Cambodia
Ministry of Planning
National Institute of Statistics

PSU					HH SERIAL No	

HOUSEHOLD SOCIO-ECONOMIC SURVEY 2012

DAIRY SHEETS OF HOUSEHOLD EXPENDITURES & CONSUMPTION OF OWN-PRODUCED FOOD AND HOUSEHOLD INCOME & RECEIPTS - Form 4

A. To be completed by Supervisors before interview		
Province /City		
District /Khan		
Commune/Sankat		
Sample Village/Mondol		
Zone		
Sector (Urban=1, Rural=2)		
Serial Number of Sample Village		
Sample Reference Number of Household		

B. To be completed by Interviewer									
Name of household Head									
Address (House No., Street….) of other identification)									
First visit date	Day:			Month:			Year:		
Last visit date	Day:			Month:			Year:		
DIARY SHEET MUST BE RECORDED EVERY DAY FOR THE WHOLE MONTH									
Interviewer's Name:					Id:				
Interviewer's signature:									
Team Number:				No. Of the month (from 01 to 15):					

C. To be completed by Supervisors after checking completed questionnaire thoroughly									
Supervisor's Name:							Id:		
Date checked by Supervisor (Week 1)	Day:			Month:			Year:		
Date checked by Supervisor (Week 2)	Day:			Month:			Year:		
Date checked by Supervisor (Week 3)	Day:			Month:			Year:		
Date checked by Supervisor (Week 4)	Day:			Month:			Year:		
Supervisor' s Signature:									

D: To be completed after Re-interview (when required)									
Name of Re-interviewer:							Id:		
Date of Re-interview	Day:			Month:			Year:		
Interviewer's signature:									
Remarks of Re-interviewer:									

PAGE Nº 01	Expenditures and consumption of own-produced									
LINE NUMBER	FOR THE HOUSEHOLD			FOR NIS	FOR THE HOUSEHOLD			FOR ENUMERATORS		FOR NIS
	DATE (DD/MM)	ITEM DESCRIPTION	UNIT OF QUANTI-TY	CODE OF UNIT	QUANTITY	VALUE IN RIELS	FORM OF ACQUISITION 1=Paid in cash 2=Paid in kind 3=Purchased on credit 4=Gift received 5=Stock of own-produced	ORIGIN 1 = Household production 2 = Produced in Cambodia 3 = Imported from abroad 4 = Don't know the origin 5 = No product	PURPOSE 01 = Own household consumption 02 = For agricultural production 03 = For manufacturing production 04 = For mining production 05 = For services production 06 = For other household production 07 = Gifts & remittances to other households 08 = Offerings,donations,charities, etc. 09 = Interests 10 = Payback of loans 11 = Taxes 12 = Other (specify)	ITEM CODE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
01										
02										
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
90	TOTAL:									

PAGE Nº 01

Household Income and Receipts

LINE NUMBER	FOR THE HOUSEHOLD			FOR NIS	FOR THE HOUSEHOLD			FOR ENUMERATORS	FOR NIS
							TYPE OF INCOME	KIND OF INCOME	
							1 = In cash 2 = In kind 3 = Bartered	01 = Wage or salary (in cash or kind) 02 = Agricultural or forestry production or sales 03 = Fishing or hunting production or sales 04 = From mining production 05 = Sales of manufactured products 06 = Receipts from services rendered 07 = Received as gift 08 = Remittances received 09 = Pensions or other social assistances 10 = Study support in cash or kind (Scholarships, stipends or other) 11 = Dividends, interests, commissions, rents etc. 12 = Receipts from sale of possessions/own property 13 = Withdrawals from savings/loans obtained 14 = Payback of loans 15 = Windfall gains/inheritance 16 = Tax refunds 17 = Maturity payment on insurance policies 18 = Lump-sum compensation for injury, legal damages received 19 = Other (specify)	
	DATE (DD/MM)	ITEM DESCRIPTION	UNIT OF QUAN-TITY	CODE OF QUAN-TITY	QUAN-TITY	VALUE IN RIELS			ITEM CODE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
01									
02									
03									
04									
04									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
90	TOTAL								

CONFIDENTIAL All information collected in this survey is strictly confidential and will be used for statistical purposes only

Royal Government of Cambodia
Ministry of Planning
National Institute of Statistics

Household ID						

CAMBODIA SOCIO-ECONOMIC SURVEY 2012

HOUSEHOLD QUESTIONNAIRE

A. To be completed by interviewer before interview			
Province /Capital			
District/City/Khan			
Commune/Sankat			
Sample Village/Mondol			
Zone			
Sector (Urban=1, Rural=2)			
Sample reference number of household			

B. To be completed by interviewer												
Name of household head						Phone:						
Address (house No., street….) of other identification)												
Date of first visit to Household	Day:			Month:			Year:					
Date of last visit	Day:			Month:			Year:					
Team Number			Interviewer's Id:									
Interviewer's name:			Interviewer's signature:									
Interviewer's phone no:												
Month and Year of Survey	Month			Year:								

To be completed after filling-out the list of household members	Male:			Female:			Total members:		

C. To be completed by supervisor after checking completed questionnaire and diary thoroughly												
Supervisor's name:							Id:					
Date checked by supervisor	Completed Put X	Not completed Put X	Day		Month		Year					
Date checked week 1												
Date checked week 2 (large sample year)												
Diary checked (large sample year)												
Household refused from the beginning of the interview week(s)/ not in village during the interview week(s)												
Supervisor' s signature:			Supervisor' s phone no:									

Reception							Preparation							Data Entry							
Id:			Date:				Id:			Date:				Id:			Date				

01. INITIAL VISIT

Respondent: head of household, spouse of the head of household, or another adult household member

INITIAL VISIT

A. LIST OF HOUSEHOLD MEMBERS

The questions should be asked of the head of household, spouse of the head of household or other adult household member if both head and spouse are absent.

Please provide the following information on all members usually residing in this household.

ID NUMBER	Please give me the names of all household members, starting with head of the household. A person is counted as a household member if he/she lives here or has been absent for less than 12 months.	Sex 1 = Male 2 = Female	What is..[NAME]..'s date of birth? Write ' - ' if don´t know, for day or month or year			What is.. [NAME] ...'s age in completed years? Write '0' if less than one year of age, and " - " if don´t know	Relationship to the head 01 = Head 02 = Spouse 03 = Son/Daughter 04 = Stepchild 05 = Adopted child/ Foster child 06 = Parent 07 = Sibling 08 = Grand child 09 = Nephew/Niece 10 = Son/Daughter-in-law 11 = Brother/Sister-in-law 12 = Parent-in-law 13 = Other relatives 14 = Servant 15 = Other non-relative including boarder Great/grand child should be reported in other relatives	Does the father of ..[NAME].. live in the household? If YES, write the ID CODE, if NO write " - "
			DAY	MONTH	YEAR	YEARS		
(1)	(2)	(3)	(4a)	(4b)	(4c)	(5)	(6)	(7)
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								

Respondent: head of household, spouse of the head of household or another adult household member

INITIAL VISIT

01. A. LIST OF HOUSEHOLD MEMBERS (CONTINUED)

ID NUMBER	Does the mother of ..[NAME].. live in the household?	Only for members aged 13 and above:		Is ..[NAME]..Khmer or other ethnic group?	Does ..[NAME].. speak Khmer?	Can ..[NAME].speak other languages than Khmer?			Has ..[NAME].. been present all days last week?	How many weeks has ..[NAME].. been absent from home during the past 12 months?
		What is ..[NAME].. ´s marital status?	Does the spouse of ..[NAME].. live in this household?							
	If YES, write the ID CODE, if NO write " - "	1 = Married/Living together 2 = Divorced/Separated (>> 11) 3 = Widowed (>> 11) 4 = Never married/Never lived with a partner (>> 11)	If YES, write the ID CODE, if NO write " - "	1 = Khmer (>> 12) 2 = Cham 3 = Other local ethnic group 4 = Chinese 5 = Vietnamese 6 = Thai 7 = Lao 8 = Other (Specify)	1=Yes 2=No	0=No 1= French 2= English 3= Chinese 4= Vietnamese 5= Thai 6= Lao 7= Chaam 8= Other local language 9= Other (Specify)			1=Yes >> NEXT PERSON 2=No	WRITE '0' IF LESS THAN ONE WEEK >> NEXT PERSON
						1	2	3		WEEKS
(1)	(8)	(9)	(10)	(11a)	(11b)	(12a)	(12b)	(12c)	(13)	(14)
01										
02										
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										

01. B. FOOD, BEVERAGES AND TOBACCO CONSUMPTION DURING THE LAST 7 DAYS

Respondent: The household member who knows most about food, beverage, tobacco consumption in the last 7 days

INITIAL VISIT

Q1 Did your household have any economic activity, e.g. agriculture production (farming), producing goods, service etc. during the last 7days? 1 = Yes 2 = No

Only expenditure/value of own production for household consumption!
Note that any household´s expenditure on economic activity shall not be included in this section, because it will be asked in the sections on the economic activities (Section 5B-H).

ITEM NUMBER Q01BC01	For each item group try to estimate quantity of items consumed and then how much of the consumed quantity had been purchased in cash and how much was from own production or received as payment in kind for work, or as gift, or free collection.	Value of consumption in Riels Write '0' if nothing		
		Purchased in cash	Own production, wages in kind, gifts, free collections (imputed value)	Total consumption (Col 3 + Col 4)
	FOOD/BVERAGE/TOBACCO ITEMS	RIELS	RIELS	RIELS
(1)	(2)	(3)	(4)	(5)
01	Rice (All kind of rice to be included)	**Q01BC03**	**Q01BC04**	**Q01BC05**
02	Other cereals (bread, corn, wheat flour, rice flour, corn meal, rice cakes, noodles, biscuits, etc.)			
03	Fish (fresh fish, salted and dried fish, canned fish, shrimp, prawn, crab, etc.)			
04	Meat & poultry (beef, buffalo, mutton, lamb, pork, chicken, duck, innards, inch liver, spleen, dried beef)			
05	Eggs (chicken egg, duck egg, quail egg, fermented/salted egg, etc.)			
06	Dairy products (fresh milk, condensed or powdered milk, ice cream, cheese, other dairy products, etc.)			
07	Oil and fats (rice bran oil, vegetable oil, pork fat, butter, margarine, coconut/frying oil, etc.)			
08	Fresh vegetables (trakun, onion, shallot, cabbage, spinach, carrot, beans, chilli, tomato, etc.)			
09	Tuber (cassava, sweet potato, potato, traov, sugar beet, etc.)			
10	Pulses and legumes (green gram, dhall, cowpea, bean sprout, other seeds, etc.)			
11	Prepared and preserved vegetables (cucumber pickles, other pickles, tomato paste, etc.)			
12	Fruit (banana, orange, mango, pineapple, lemon, papaya, durian, water melon, grape, apple, canned and dried fruits, etc.)			
13	Dried nuts and edible seeds (coconut, cashew nut, lotus nut, peanut, gourd seed, other nuts)			
14	Sugar, salt and spices (sugar, jaggery, salt, chocolate, candy, coriander, red pepper spice, garlic, ginger, soy sauce, fish sauce, monosodium glutamate, etc.)			
15	Tea, coffee, cocoa			
16	Non-alcoholic beverages (canned or bottled soft drinks, mineral water, fruit juice, fruit syrup, etc.)			
17	Alcoholic beverages (beer, wine, whisky, scotch, other distilled spirits)			
18	Tobacco products (cigarettes, mild tobacco, strong tobacco, etc.)			
19	Other food products (fried insects, peanut preparation, flavoured ice, ice, other food products)			
20	Food taken away from home (meals at work, school, restaurants, snacks, coffee, soft drinks purchased outside home)			
21	Prepared meals bought outside and eaten at home			
22	Total 1 - 21:			

01. C. RECALL NON-FOOD EXPENDITURES

Respondent: The household member who knows most about the non-food expenditure in the household

INITIAL VISIT

Only expenditure for household consumption

No. Q01CC01	What was your household's expenditure on the following items during the indicated time periods? NON-FOOD ITEMS	Time period	Value (in Riels) Write '0' if nothing: In-cash expenditure	In-kind expenditure or gifts given away	Total expenditure (Col 4 + Col 5)
(1)	(2)	(3)	(4)	(5)	(6)
01	Medical care (doctors' fees, other medical services, drugs, hospital charges, other medical supplies, etc.)	Last 1 month	Q01CC04	Q01CC05	Q01CC06
02	Transportation (personal transport equipment, operation of transport equipment, maintenance and repair of equipment, gasoline and diesel for own transportation, fees for public transport, moving fee, driving lessons, etc.)	Last 1 month			
03	Communication (postage stamps, fax, telephone and internet phone charges, cell phones, phone cards, internet charges etc.)	Last 1 month			
04	Personal care (soap, toothpaste, razor, sanitary napkins, haircut, manicure, etc.)	Last 1 month			
05	Clothing and footwear (tailored clothes, ready-made clothes, rain clothes, underwear, baby clothes, diapers, hats, shoes, boots, etc.)	Last 6 months			
06	Furniture, furnishings and household equipment and operation (curtain, household appliances, cooking utensils, light bulbs, soap and detergents etc.)	Last 12 months			
07	Domestic salaries (servant's salary, hired labour for cleaning, laundry, cooking etc.)	Last 12 months			
08	Recreation within Cambodia (entertainment services, recreational goods and supplies, tourist travel, hotel accommodation)	Last 12 months			
09	Recreation abroad (entertainment services, recreational goods and supplies, tourist travel, hotel accommodation)	Last 12 months			
10	Education (school fees, textbooks, private tutoring charges, etc.)	Last 12 months			
11	Personal effects (costume/gold jewellery, handbags, wallets, wristwatch, clocks, umbrella)	Last 12 months			
12	Gambling (lottery, sports and animal betting: casino gambling, card games, football, boxing, cockfighting etc.)	Last 12 months			
13	Miscellaneous items (special occasions as funeral rituals, weddings, parties, , cash gifts, charity, etc.)	Last 12 months			
14	Regular cash transfers to charities (exclude "non-regular" transfers to charities, which should be reported in item 15)	Last 12 months			
15	Regular Inter-households transfers (regular cash and in kind support to people living in other households)	Last 12 months			
16	Taxes on income (tax on salary)	Last 12 months			
17	Taxes on property (e.g houses, cars)	Last 12 months			
18	Total 1-17:				

01. D. VULNERABILITY

Respondent: Head of household, spouse of the head of household or another adult household member

INITIAL VISIT

Q1 Did your family use iodized salt, yesterday?
Ask the respondent for a teaspoon full of cooking salt and test for iodine.

1 = Iodine present
2 = No iodine
3 = No salt in the household
4 = Salt not tested

Q2 In the last 12 months, has this household had enough food all days or were there days and weeks with very little or no food so that the household had to starve ("was hungry")?

1 = Enough food all the last 12 months (>> NEXT SECTION)
2 = Not enough food

Q3 How many of the last 52 weeks did the household have so little food that it was starving ("was hungry")?

Number of WEEKS:

Write '0' if less than 1 week

Q4 Which months of the last 12 months did the household starve ("was hungry")?
(1 = January, 2 = February, 3 = March…) Code "1" if starving and "0" otherwise

Month	1	2	3	4	5	6	7	8	9	10	11	12

Q5 Does the household have an IDPoor Card or other Social Equity Card?

01 = IDPoor Card
02 = Other Social Equity card
03 = No card for assistance

Note: *With starvation means "being hungry" involuntarily.*

Note: *If one household member is starving than the household is considered to be starving.*

END OF INITIAL VISIT

02. EDUCATION AND LITERACY

Respondent: All household members aged 3 years and older. For children 3-6 years ask their parents.

Please provide information on all members aged 3 years and older who usually reside in this household. If absent person, proxy interview is allowed.

ID NUMBER	ID NUMBER OF RESPON-DENT	Can ..[NAME]... read a simple message in any language? 1 = Yes 2 = No	Can ..[NAME]... write a simple message in any language? 1 = Yes 2 = No	Has ..[NAME]... ever attended school? 1 = Yes 2 = No (>> 11)	How many years has ...[NAME]… attended school? Enter completed number of years YEARS	What is the highest level ..[NAME].. has completed? 98 = Don´t know 88 = No class completed 00 = Pre-school/Kindergarten 01 = Class one completed 02 = Class two completed... ..... 09 = Class nine completed without certificate ... . 11 = Class eleven completed 12 = Class twelve completed without certificate 13 = Lower education certificate (diploma) 14 = Higher education certificate (BacII) 15 = Technical/vocational pre-secondary diploma/certificate 16 = Technical/vocational post-secondary diploma/certificate 17 = College/university undergraduate but no degree 18 = Bachelor degree (B.A., BSc, etc.) 19 = Masters degree (M.A., MSc, etc) 20 = Doctorate degree (PhD) 21 = Other (Specify)	Is ..[NAME].. currently in the school system? 1 = Yes 2 = No (>>11) If the child is on holidays, he/she is considered in the school system	What's the level..[NAME]'s.. is currently attending? 00 = Pre-school/ Kindergarten 01 = Class one 02 = Class two..., ... 11 = Class eleven 12 = Class twelve 15 = Technical/vocational pre-secondary diploma/ certificate 16 = Technical/vocational post-secondary diploma/certificate 17 = College/university undergraduate studies 21 = Postgraduate studies	Is the school public or private? 1 = Public 2 = Private
(1)	(1b)	(2)	(3)	(4)	**(5)**	(6)	(7)	(8)	(9)
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									

Note: *If he/she pass national exam in class nine or twelve put code 13 or 14 respectively*

Note: *To continue to class 10 the student must have completed class 9 with diploma (code 13)*

Note: *Collage/university undergraduate. A student may have completed one or more term/year exam but do not yet accomplished a degree. Then note down code "17".*

02. EDUCATION AND LITERACY (CONTINUED)

Respondent: All household members aged 3 years and older. For children 3-6 years ask their parents.

Please provide information on all members aged 3 years and older who usually reside in this household. If absent person, proxy interview is allowed.

ID NUMBER	Is ..[NAME].. currently taking private lessons after school? (languages, math, science, music, sports)? 1=Yes 2=No >>12	If Col. 4 = 2 or Col.7 = 2 and below 18 years of age Why is ..[NAME].. not attending (has never attended) school? 01 = Don't want to 02 = Did not do well in school 03 = No suitable school available/ school is too far 04 = No teacher/Supplies 05 = High cost of schooling 06 = Must contribute to household income 07 = Must help with household chores 08 = Too poor 09 = Due to disability 10 = Due to long term illness (over 3 months) 11 = Too young 12 = Other (specify)	Has ..[NAME].. ever attended non-formal class? 1 = Yes 2 = No (>> 15)	Is ..[NAME].. currently attending non-formal classes? 1 = Yes 2 = No (if Col.12 = 1>> 14 else >> 15)	What kind of non-formal class is ..[NAME].. currently attending/did ..[NAME].. attend? 1 = Literacy programmes (6 months) 2 = Vocational training (Tailoring, motor repairing, Khmer classical music training, hairdressing, pottery...etc. 3 = Post literacy programmes (Agricultural training includes such as planting vegetable, mushrooms, raising fish, animal.. 4 = Foreign Languages 5 = Computer literacy 6 = Others (Specify)	Did ..[NAME].. attend school past school year (including non-formal class)? 1 = Yes (>> 16a) 2 = No >> NEXT PERSON)
(1)	(10)	(11)	(12)	(13)	(14)	(15)
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						

02. EDUCATION AND LITERACY (CONTINUED)

Respondent: All household members aged 3 years and older. For children 3-6 years ask their parents.

Please provide information on all members aged 3 years and older who usually reside in this household. If absent person, proxy interview is allowed.

If code 1 in col. 15, please fill up columns 16a-16h, otherwise,
leave it blank and continue with next person.

What were the educational expenses for ..[NAME]..during the past school year including the expense on non-formal education and private lesson?

Write 0 if no expenses

Note in Col.16e: For educational expenses a way from home should include thing (item) that any household member spent on (bought) while going to study, irrespective of distance from home to school (far or near)

ID NUMBER	A. School fees (Studying fees)	B. Tuition (such as paying for private lession, etc...)	C. Text books	D. Other school supplies	E. Allowances for children studying away from home	F. Transport cost	G. Gifts to teachers, school building/development fund etc.	H. TOTAL (Col 16a - 16g)
	RIELS	RIELS	RIELS	RIELS	RIELS	RIELS	RIELS	RIELS
(1)	(16a)	(16b)	(16c)	(16d)	(16e)	(16f)	(16g)	(16h)
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								

Note: (*Col. 16e) "Expenses on studying away from home" includes all amount of money spent (allowances) for the childs study, regardless of the distance from home to the school.*

04. HOUSING

Respondent: Head of household, spouse of the head of household, or another adult household member

The following questions should be asked of the head of household, spouse of the head of household, or of another adult household member, if both head and spouse are absent.

Q1 How many households reside in the same housing unit as your household? NUMBER OF HOUSEHOLDS: [ ][ ][ ]

Q2 What is the floor area of the housing/dwelling unit occupied by your household? NUMBER OF SQUARE METERS: [ ][ ][ ]

Q3 How many rooms in the dwelling unit are used by the household (other than kitchen, toilet and bathrooms)? NUMBER OF ROOMS: [ ][ ][ ]

Q4 What is the primary construction material of the wall of the housing/dwelling unit occupied by your household? CODE: [ ]

WALL CODES

1 = Bamboo, Thatch/leaves, Grass
2 = Wood or logs
3 = Plywood
4 = Concrete, brick, stone
5 = Galvanized iron or aluminium or other metal sheets
6 = Fibrous cement/Asbestos
7 = Makeshift, mixed materials
8 = Clay/dung with straw
9 = Other, specify

Q5 What are the primary construction material of the roof of the housing / dwelling unit occupied by your household? CODE: [ ][ ]

ROOF CODES

1 = Thatch/leaves/grass
2 = Tiles
3 = Fibrous cement
4 = Galvanized iron or aluminium
5 = Salvaged materials
6 = Mixed but predominantly made of galvanized iron/aluminium, tiles or fibrous cement
7 = Mixed but predominantly made of thatch/leave /grass or salvaged materials
8 = Concrete
9 = Plastic sheet
10 = Other (Specify)

Q6 What are the primary construction material of the floor of the housing / dwelling unit occupied by your household? CODE: [ ]

FLOOR CODES

1 = Earth, clay
2 = Wooden planks
3 = Bamboo strips
4 = Cement/Brick/Stone
5 = Parquet, polished wood
6 = Polished stone, marble
7 = Vinyl
8 = Ceramic tiles
9 = Other (Specify)

Q7 What is your household's main source of lighting? CODE: [ ]

LIGHTING SOURCE CODES

1 = Publicly-provided electricity/City power
2 = Generator
3 = Battery
4 = Kerosene lamp
5 = Candle
6 = None
7 = Solar
8 = Other (specify)

Q8 What is your household's main source of drinking water in wet season? CODE: [ ][ ]

DRINKING WATER SOURCE CODES IN WET SEASON

01 = Piped in dwelling or on premises (>> Q12)
02 = Public tap
03 = Tubed/piped well or borehole
04 = Protected dug well (including all of the following: lining, headwall, platform, cover)
05 = Unprotected dug well
06 = Pond, river or stream (fetch water from pond, river, stream)
07 = Pond, river or stream (pump to the house) (>> Q12)
08 = Improved rainwater collection (catchment tank/concrete rain water collection needs to have all the following: completely closed, tap to withdraw water and at least 3000 litres capacity (>> Q12)
09 = Unimproved rainwater collection (>> Q12)
10 = Water bought from tanker truck or vendor (Vendor brought water home, write "0" in distance and >> Q12)
11 = Water bought from tanker truck or vendor (Any household member goes to collect, write distance in Q9 then ask Q10 and Q11.)
12 = Bottled water
13 = Other (Specify)

Q9 What is the distance from home to the drinking water source in wet season (source reported in Q8)? METERS: [ ][ ][ ][ ]

Q10 Which members of your household are fetching drinking water in the wet season? IDcode (1) [ ][ ] (2) [ ][ ] (3) [ ][ ]

Q11 How many minutes per day do they spend in total on fetching drinking water in wet season? MINUTES PER DAY: [ ][ ][ ]

04. HOUSING (CONTINUED)

Q12 What is your household's main source of drinking water in dry season? CODE: ☐☐

DRINKING WATER SOURCE CODES IN DRY SEASON

01 = Piped in dwelling or on premises (>> Q16)
02 = Public tap
03 = Tubed/piped well or borehole
04 = Protected dug well (including all of the following: Lining, headwall, platform, cover)
05 = Unprotected dug well
06 = Pond, river or stream (fetch water from pond, river, stream)
07 = Pond, river or stream (pump to the house) (>> Q16)
08 = Improved rainwater collection (catchment tank/concrete rain water collection needs to have all the following: completely closed, tap to withdraw water and at least 3000 litres capacity (>> Q16)
09 = Unimproved rainwater collection (>> Q16)
10 = Water bought from tanker truck or vendor (Vendor brought water home, write "0" in distance and >> Q16)
11 = Water bought from tanker truck or vendor (Any household member goes to collect, write distance in Q13 then ask Q14 and Q15.)
12 = Bottled water
13 = Other (Specify)

Q13 What is the distance from home to the drinking water source in dry season (source reported in Q12)? METERS: ☐☐☐☐

Q14 Which members of your household are fetching drinking water in the dry season? IDcode (1) ☐☐ (2) ☐☐ (3) ☐☐

Q15 How many minutes per day do they spend in total on fetching drinking water in dry season? MINUTES PER DAY: ☐☐☐

Q16 How much water charges did your household pay last month? (Put "0" for not buying water source) RIELS: Q04_16

Q17 Did your household treat water in anyway to make it safer to drink during the last month?
1 = Yes, always 2 = Sometimes 3 = No, never (>>Q19) ☐

Q18 How did you usually treat your drinking water during the last month?
1 = Yes
2 = No
a. Boil water? ☐ b. Filter water? ☐ c. Chemical? ☐ d. White alum? ☐ e. Other method (Specify)? ☐

Q19a What toilet facility does your household have within the premises? (in the area close to the dwelling) CODE: ☐☐
1 = Pour flush (or flush) connected to sewerage
2 = Pour flush (or flush) to septic tank or pit
3 = Pour flush (or flush) to elsewhere (i.e. not a sewer or pit/tank)
4 = Pit latrine with slab
5 = Pit latrine without slab or open pit
6 = Latrine overhanging field or water (drop in the field, pond, lake, river, sea)
7 = None
8 = Other, specify

Q19b What toilet facility does your household usually use? CODE: ☐
1 = Toilet that we have
2 = Public toilet/pit latrine or shared with others (any type)
3 = Open land
4 = Other (Specify)

Q20 How much did your household spend for sewage or waste water disposal last month? (Write 0 if nothing) RIELS: Q04_20

Q21 How much did your household spend for garbage collection last month? (Write 0 if nothing) RIELS: Q04_21

04. HOUSING (CONTINUED)

Q22 (a) What type of fuel does your household mainly use for cooking?

FUEL CODES

CODE: ☐

1 = Firewood
2 = Charcoal
3 = Liquefied petroleum gas LPG (>> Q23)
4 = Kerosene (>> Q23)
5 = Publicly-provided electricity/City Power (>> Q23)
6 = Household generator (>> Q23)
7 = None/don't cook (>> Q23)
8 = Other (Specify) (>> Q23)

(b) Does the vendor bring the firewood/charcoal home? 1 = Yes (>> Q23) 2 = No ☐

(c) Which household members are collecting or fetching firewood or charcoal?

IDcode OF HH MEMBER (1) ☐☐ (2) ☐☐ (3) ☐☐

(d) How many hours per week in total do they spend on collecting or fetching firewood/charcoal?

HOURS PER WEEK: ☐☐

If less than one hour write '0'

Q23 How much did the household spend on the following items last month (including lights and cooking)?

INCLUDE THE VALUE OF OWN PRODUCTION OR RECEIVED AS PAYMENT IN KIND FOR WORK OR AS GIFT OR FREE COLLECTION

(ENTER " 0 " IF DID NOT SPEND ANYTHING)

	RIELS
a. Electricity	Q04_23A
b. Gas (LPG)	Q04_23B
c. Kerosene	Q04_23C
d. Firewood	Q04_23D
e. Charcoal	Q04_23E
f. Battery	Q04_23F
g. Other (Specify)	Q04_23G

Q24 What's the legal status of the dwelling?

LEGAL STATUS CODE

CODE: ☐ Q04_24

1 = Owned by the household (>> Q25b)
2 = Not owned but no rent is paid (>> Q25b)
3 = Rented
4 = Other (Specify) (>> Q25b)

Q25a If rented:

How much did you pay for rent of this house last month? (=>> Q26) RIELS: Q04_25A

Q25b How much would you have to pay per month to rent a similar dwelling? (Estimated value) RIELS: Q04_25B

Q26 Whether owned or rented:

How much did you spend on maintenance and minor repairs of the dwelling last month? RIELS: Q04_26

05. HOUSEHOLD ECONOMIC ACTIVITIES

Respondent: head of household, spouse of the head of household or another adult household member

The following questions should be asked of the head of household, spouse of the head of household, or of another adult household member, if both head and spouse are absent.

05.A LAND OWNERSHIP

I would now like to ask you about all land owned or operated by your household. That means all land that is used or could be used for vegetable gardening, agricultural or farming activities - crop cultivation, livestock raising and private forestry. (Do not include residential land not used to any of these activities)

Q1a Has the household sold any open land in the last 12 months? 1 = YES 2 = NO (>> Q2) ☐

Q1b What was the primary reason/purpose for which you sold the land?
1 = To address family health issues
2 = Invest in business
3 = To weed or buy farm equipment or for other agricultural activities
4 = To pay debt
5 = To buy motor bike or cell phone or for other household consumption needs
6 = Rituals (marriage ceremony, funeral etc.)
7 = Other (specify) ☐

Q2 Does anyone in your household own or operate any land that is used / could be used for vegetable gardening, agricultural or farming activities (crop cultivation, livestock raising or private forestry)? 1 = YES 2 = NO (>> NEXT SECTION E) ☐

Q3 How many plots does your household own or operate? NUMBER OF PLOTS: ☐

Please list each plot that your household owns, or rent in from others, or used for free (including owned land that is rented out)

Note: Use additional questionnaires if there are more than 7 plots

PLOT NUMBER	What is the area of the plot in square meters (m^2)?		Do you own this land, rent it or have it in some other way? 1 = Own (>> 4a) 2 = Own, but rent out/pawned/granted (>> 5a) 3 = Rented in (>> 6a) 4 = Free use of land (>> 4a) 5 = Other (specify)	If owned or free use of land Col 3 = 1 or 4 — How much would it cost to rent a plot like this in this village? In cash or in kind (>> Col 7) Amount (if in cash) Quantity (if in kind)	Unit 1 = Riel 2 = Kg 3 = Other (specify)	For what time period? 1 = Month 2 = Season 3 = Year 4 = Other (specify)	If owned but rented out Col 3 = 2 — How much rent do you receive for this plot? In cash or in kind (>> Col 7) Amount (if in cash) Quantity (if in kind)	Unit 1 = Riel 2 = Kg 3 = Other (specify)	For what time period? 1 = Month 2 = Season 3 = Year 4 = Other (specify)
(1)	(2)		(3)	(4a)	(4b)	(4c)	(5a)	(5b)	(5c)
01		m^2							
02		m^2							
03		m^2							
04		m^2							
05		m^2							
06		m^2							
07		m^2							

Note: (*Col. 3) Pawned is treated as one single time rent paid. (Pawn amount=rent paid). Granted is treated as rented out (rent = 0).*

Note: (*Col. 3) If the land is rented out or pawned it cannot be used for collateral loan. If granted - it can be used for collateral loan.*

05.A. LAND OWNERSHIP (CONTINUED)

Please fill out the detailed information for each of the plots your household owns or rent in from others or used for free (including owned land that is rented out)

PLOT NUMBER	If rented in Col 3 = 3 How much rent do you pay for this plot? In cash or in kind Amount (if in cash) Quantity (if in kind)	Unit 1 = Riel 2 = Kg 3 = Other (specify)	For what time period? 1 = Month 2 = Season 3 = Year 4 = Other (specify)	What type of land is it? 01 = Wet-season land 02 = Dry-season land 03 = Wet and dry season land 05 = Kitchen garden (backyard)/Chamkar land 06 = Land with permanent crops 07 = Land for raising livestock 08 = Private forestry land 09 = Idle land 10 = Other land (specify)	In what year did you first have/ start using this plot ? YEAR	How did you acquire it? 1 = Given by the government or local authority (>> 11) 2 = By inheritance or gift from relatives (>> 11) 3 = Bought it from a relative 4 = Bought it from a non-relative 5 = Cleared land/occupied for free (>> 11) 6 = Donated by friend (>> 11) 7 = Rented in (>> 11) 8 = Other (specify) (>>11)	If bought Col 9 = 3 or 4 How much did you pay to buy this plot? Riels
(1)	(6a)	(6b)	(6c)	(7)	(8)	(9)	(10)
01							
02							
03							
04							
05							
06							
07							

Please fill out the detailed information for each of the plots your household owns or rent in from others or used for free (including owned land that is rented out)

PLOT NUMBER	All plots How much would it cost to buy a plot like this in this village today? Riels	Do you have a paper to certify your ownership or rental agreement? 1 = Yes 2 = Never had (>> 15) 3 = Lost it (>> 15) 4 = Don´t know (>> 15)	If YES in Col 12 What kind of paper do you have? Enter answer given by respondent 1 = Application receipt 2 = Land investigation paper 3 = Certificate (title) from the government 4 = Paper from local authority 5 = Rental contract 6 = Other (specify) 7 = Don't know / not sure	Can you show me the document that you have for this plot? Enter 8 if do not see certificate 1 = Application receipt 2 = Land investigation paper 3 = Certificate (title) from the government 4 = Paper from local authority 5 = Rental contract 6 = Other (specify) 7 = Don't know / not sure 8 = No paper shown	Whose name is on the ownership document or rental contract? 1 = Head of household 2 = Spouse 3 = Both head of household and spouse 4 = Father 5 = Mother 6 = Other relative 7 = Other (specify)
(1)	(11)	(12)	(13a)	(13b)	(14)
01					
02					
03					
04					
05					
06					
07					

Note: (*Col. 14) If* ***both*** *the name of the head of household* ***and*** *the name of the spouse is written on the land title - than enter code* ***"3"****.*

05. A. LAND OWNERSHIP (CONTINUED)

Please fill out the detailed information for each of the plots your household owns or rent in from others (including owned land that is rented out)

PLOT NUMBER	Who is the plot manager? Write ID Code if a person in your household 77 = Other, female not in the household 88 = Other, male not in the household 99 = Unknown	Which crop did you grow on this plot in the last seasons? 1 = Rice 2 = Other crops (water melon, pumpkin, vegetables, maize, bean, potato, etc.) 3 = Fruit and nut trees (mango, coconut, cashew etc.) 4 = Rubber 5 = Bamboo shoots 6 = Bamboo tree 7 = Don't know which crop 8 = None Enter all crops (up to the 3 most important) if you grow more than one crop			Can you add water to this plot with irrigation and / or water pumped from the well? 1 = Yes, Wet season 2 = Yes, Dry season 3 = Yes, both seasons 4 = No, cannot irrigate or pump water at all for this plot	Have you made any investments on this plot since you acquired it? (record up to 3 most important investments) 1 = None (=>> 20) 2 = Digging well 3 = Digging ditch / canal 4 = Terracing 5 = Drainage construction 6 = Soil reclamation 7 = Establish fruit and nut trees 8 = Other (specify) Enter the 3 most important		
(1)	(15)	(16a)	(16b)	(16c)	(17)	(18a)	(18b)	(18c)
01								
02								
03								
04								
05								
06								
07								

Note: (*Col. 15) It is not always the owner who is managing the plot. If e.g. the plot is granted to someone not belonging to the household than the person managing the plot is the "plot user". E.g. code "77" or "88" or even "99".*

PLOT NUMBER	In what year did you make these investments? If more than one investment, ask about the most important YEAR	Can you use this plot as collateral for loan? 1 = Yes 2 = No (>> 22)	When did you start to have the rights to use it as a collateral? If don't know, leave blank YEAR	Have you ever had any conflict about this plot? 1 = Yes, now 2 = Yes, previously 3 = No
(1)	(19)	(20)	(21)	(22)
01				
02				
03				
04				
05				
06				
07				

NIS code

05. B. PRODUCTION OF CROPS (INCLUDING FRUITS AND VEGETABLES ETC.)

Please provide the following information on crops, including fruits and vegetables, grown by your household during the past two seasons. Please provide plot-wise details.

Note: Past wet-season should refer to the wet-season last calendar year.
If interview takes place in January - June: past dry-season should refer to the dry-season last calendar year.
If interview takes place in July - December: past dry-season should refer to the dry-season this calendar year.

Q1 Did your household produce any crops including fruits and vegetables during the past wet-season or the past dry-season? 1 = Yes 2 = No (>> Part E) ☐

SERIAL NUMBER	COPY THE PLOT NUMBER FROM PART A	What crop(s) have your household grown (on what plots)?		How big area was cultivated?	How big area was harvested?	How much was produced / harvested? Note: (6) incl. (7) and (8) Write '0' if nothing	How much has been the post– harvest loss until the day of interview? Losses mean rotted, lost, eaten by birds, rodents, etc. Write '0' if nothing	How much (quantity) was given as crop rent? Write '0' if nothing	What was the sale price of the crop produced per kg?
		Name of crop or by-product	NIS code	m^2	m^2	KG	KG	KG	RIELS / Kg
(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9)
PAST WET SEASON, What year?.....									
01					m^2		m^2	Q05BC06	Q05BC07		Q05BC09
02					m^2		m^2				
03					m^2		m^2				
04					m^2		m^2				
05					m^2		m^2				
06					m^2		m^2				
07					m^2		m^2				
08					m^2		m^2				
09					m^2		m^2				
10					m^2		m^2				
11											
PAST DRY SEASON, What year?.....									
12					m^2		m^2				
13					m^2		m^2				
14					m^2		m^2				
15					m^2		m^2				
16					m^2		m^2				
17					m^2		m^2				
18					m^2		m^2				
19					m^2		m^2				
20					m^2		m^2				
21					m^2		m^2				
22											

Note: If different crop on the plot, report the area cultivated for each crop, e.g. split the total plot into smaller areas. If cultivate twice on the same area during one season report the same area twice AND write a note. This is important! If the reported cultivated area is incorrect reported the total cultivated area in Cambodia can be overestimated

Note: Area harvested should only be reported if the household have produced any crop on the plot. If no production the harvested area should be '0'.

Note: Sale price means the price per kg the received when they sold the crop OR should have received if they had sold the crop they kept in storage. The sale price reported for different crop must be reasonable. If you are not sure, discuss with the supervisor.

Note: For Bamboo tree use m^3 instead of kg.

NIS code ☐

05. C. COST OF CULTIVATION OF CROPS (INCLUDING FRUITS AND VEGETABLES ETC.)

Please provide the following information on cost of cultivation of crops, including fruits and vegetables, grown by your household during the past two seasons.

Please provide plot-wise details.

SERIAL NUMBER	COPY THE PLOT NUMBER FROM PART B	Planting materials (seeds, seedlings, young plants): purchased/supplied from home production Write '0' if nothing	Chemical fertilizers, pesticide, weedicide and fungicide Write '0' if nothing	Animal and plant manure: purchased/ supplied from home produce Write '0' if nothing	Electricity for the farming (not including household use!) Write '0' if nothing	Oil, gas or gasoline and diesel for the farming (not including household use!) Write '0' if nothing	Storage items (e.g.., burlap bags, plastic sheeting etc.) Write '0' if nothing	Payment to hired draft power (tractors/ animals) including human labour, if any, for ploughing/ harrowing Write '0' if nothing
		RIELS	RIELS	RIELS	RIELS	RIELS	RIELS	RIELS
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
PAST WET SEASON								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
PAST DRY SEASON								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

05. C. COST OF CULTIVATION OF CROPS (INCLUDING FRUITS AND VEGETABLES ETC.) (CONTINUED)

Please provide the following information on cost of cultivation of crops, including fruits and vegetables, grown by your household during the past two seasons.

Please provide plot-wise details.

SERIAL NUMBER	Other hired labour charges (cash plus kind) Write '0' if nothing	Irrigation charges Write '0' if nothing	Services/ technical support from government and other agencies Write '0' if nothing	Transportation of input materials, equipment and products Write '0' if nothing	Repair and maintenance of farm house, farm equipment, animal shed etc. Write '0' if nothing	Rental paid to owner for farm land, farm house, equipment etc. rented in from others Both in cash and in kind Write '0' if nothing	Total Col. 3-15 Write '0' if nothing
	RIELS	RIELS	RIELS	RIELS	RIELS	RIELS	RIELS
(1)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
PAST WET SEASON							
01							Q05CC16
02							
03							
04							
05							
06							
07							
08							
09							
10							
11	TOTAL 01-10:						
PAST DRY SEASON							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22	TOTAL 12-21:						

NIS code

05. D. INVENTORY OF CROPS (INCLUDING FRUITS AND VEGETABLES ETC.)

Please provide the following information on crops, including fruits and vegetables, grown by your household and in storage December 31 last year.

Did your household have any crops in storage December 31 last year? 1 = Yes 2 = No (>> Part D2)

SERIAL NUMBER	Crop(s) that your household had in storage December 31 last year Last year means 2011 Crop Item	NIS code	How much of …[CROP]… did your household have in storage at December 31 last year? KG	What was the sales price for … [CROP]… per kg at December 31 last year ? RIELS/KG
(1)	(2a)	(2b)	(3)	(4)
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				

NIS code

Note: *In this module all finished crops (including fruits and vegetables etc.) shall be reported*

05.D.2 SALES OF CROPS (INCLUDING FRUITS AND VEGETABLES ETC.)

Please provide the following information on crops (including fruits and vegetables etc.) grown by your household and sold the last 12 months.

Did your household sell any crops (rice, fruits, vegetables, etc.) during the last 12 months? 1 = Yes 2 = No (>> Part E)

SERIAL NUMBER	Crop(s) (rice, fruits, vegetables, etc.) that your household had sold during the last 12 months. Crop Item		How much of …[CROP]… did your household sell during the last 12 months? KG	What was the sales price for … [CROP]… per kg? If different prices try to estimate an average price RIELS/KG
(1)	(2a)	(2b)	(3)	(4)
01				
02				
03				
04				
05				

NIS code

05. E. INPUTS AND OUTPUTS OF LIVESTOCK AND POULTRY RAISING ACTIVITIES

Q1 Has your household or anyone in your household had any livestock in the past 12 months, that is from ..[MONTH].. last year? 1= Yes 2=No (>> Part F)

SERIAL NUMBER	Type of animal or bird	Has anyone in your household raised any ..[LIVESTOCK].. in the past 12 months? 1=Yes 2=no (>> Next animal / bird)	Number of ..[LIVE STOCK].. currently owned ? If none, write '0'	Of the total ..[LIVE STOCK].. currently owned how many are female animals / bird? If none, write '0'	What would be the total sales value of ..[LIVESTOCK].. currently owned? Write '0' if nothing	Number of …[LIVE STOCK].. owned 12 months ago, that is [in MONTH] last year? If none, write '0'	Number of ..[LIVE-STOCK].. owned December 31 last year? If none write '0'	Total sales value of ..[LIVESTOCK].. owned December 31 last year at the pre-vailing prices? Write '0' if nothing	Value of ..[LIVESTOCK].. sold during the past 12 months? Write '0' if nothing
			NUMBER	NUMBER	RIELS	NUMBER	NUMBER	RIELS	RIELS
(1)	(2)	(3)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9)
01	Cattle								Q05E1C09
02	Buffaloes								
03	Horses, Ponies								
04	Pigs								
05	Sheep								
06	Goats								
07	Chickens								
08	Ducks								
09	Quail								
10	Other (specify)								
11	TOTAL 01 - 10:								

SERIAL NUMBER	Type of animal or bird	Total paid for .. LIVESTOCK].. bought during the past 12 months? Write '0' if nothing	Imputed value of meat products from livestock/poultry in riels: Consumed in the household during the past … Write '0' if nothing	Imputed value of meat products from livestock/poultry in riels: Used for barter, gifts, charity, etc. during the … Write '0' if nothing	Value of other products than meat (milk, butter, eggs, hide and skin, manure etc.) sold, consumed in household, used as gifts etc. during the past 12 months: Sold Write '0' if nothing	Consumed in household Write '0' if nothing	Gifts, charity, barter etc. Write '0' if nothing
		RIELS	RIELS	RIELS	RIELS	RIELS	RIELS
(1)	(2)	(10)	(11)	(12)	(13)	(14)	(15)
01	Cattle	Q05E1C10	Q05E1C11	Q05E1C12	Q05E1C13	Q05E1C14	Q05E1C15
02	Buffaloes						
03	Horses, Ponies						
04	Pigs						
05	Sheep						
06	Goats						
07	Chickens						
08	Ducks						
09	Quail						
10	Other (specify)						
11	TOTAL 01 - 10:						

NIS code

05. E. INPUTS AND OUTPUTS OF LIVESTOCK AND PULTRY RAISING ACTIVITIES (CONTINUED)

ITEM NUMBER	ITEMS	How much did your household spend on the following items during the past 12 months? Write '0' if nothing AMOUNT IN RIELS
(1)	(2)	(3)
1	Feed and feed supplements (e.g. rice straw) for livestock/poultry - purchased	Q05E2C03
2	Feed and feed supplements (e.g. rice straw) for livestock/poultry - supplied from home farm/public land	
3	Hired labour to care for the livestock/poultry (cash plus kind)	
4	Veterinary services and medicine	
5	Service /technical support from government/other agencies	
6	Transporting livestock/poultry, livestock/poultry products, manure, feed and feed supplements to/from market	
7	TOTAL 1 - 6:	

Note: *If animal and poultry consider about the feed and feed supplements (in Item No 1 and 2).*

NIS code

05. F. INPUTS AND OUTPUTS FROM FISH CULTIVATION AND FISHING/TRAPPING OF AQUATIC PRODUCTS

Q1	Did your household or anyone in your household raise fish (or any other aquatic product like frogs or crocodiles) during the past 12 months?	1 = Yes	2 = No	
Q2	Does your household or anyone in your household own or operate a pond for fish or shrimp culture?	1 = Yes	2 = No (>> Q3)	

Note : Pond is a small body of standing water formed naturally or often artificially made. It is smaller than a lake.

POND NUMBER	Do you own this pond, rent it or have it some other way? 1 = Own 2 = Own, but rent out 3 = Rented in from others 4 = Free use of pond 5 = Other (specify)	AREA How many square meters is the pond?	MARKET VALUE How much would you have to pay to buy a pond like this in this village?	MONTHLY RENT How much would you have to pay monthly to rent a pond like this in this village?
		SQUARE METERS	RIELS	RIELS
(1)	(2)	(3)	(4)	(5)
1				Q05F1C05
2				
3				

NIS code

Q3	Did your household or anyone in your household catch fish, shrimp, crabs, oysters, etc. during the past 12 months?	1 = Yes	2 = No	

If Yes on Q1 or Q2 or Q3, please ask the following questions. If No on all 3 questions (Q1-Q3) >> G

ITEM NUMBER	EXPENSES How much did your household spend on the following items during the past 12 months?	Amount spent Write '0' if nothing
	ITEM	RIELS
(1)	(2)	(3)
01	Breeding stock for raising fish/shrimp etc.	Q05F2C03
02	Feed for raising fish/shrimp etc.	
03	Hired labour (cash plus Kind)	
04	Ice	
05	Repair and maintenance of nets and traps etc.	
06	Repair and maintenance of boat	
07	Boat fuel	
08	Boat rent (cash)	
09	Cash rent for tank, if leased in	
10	Transportation of fish/shrimp/crab etc. to market	
11	Services (technical assistance) received	
12	Other (specify)	
13	Total 01 - 12:	

NIS code

05. F. INPUT AND OUTPUTS FROM FISH CULTIVATION AND FISHING/TRAPPING OF AQUATIC PRODUCTS (CONTINUED)

ITEM NUMBER	INCOME How much did your household receive under the following item during the past 12 months? ITEM	Amount received Write '0' if nothing RIELS
(1)	(2)	(3)
01	Proceeds from sale of fish, shrimp, crab etc. raised or captured (*)	Q05F3C03
02	Value of fish, shrimp, crab etc. consumed in household	
03	Value of fish, shrimp, crab etc. given away as gift, charity, barter, etc.	
04	Value of fish, shrimp used for drying (dried fish/shrimp, smoked fish etc.)	
05	Value of fish, shrimp used for preparation of fish/shrimp sauce	
06	Value of fish, shrimp used for animal feed	
07	Value of fish, shrimp used for other (specify)	
08	Total 1 - 7:	

(*) Do not include fish, shrimp, crab etc (paid in-kind) for renting boat or tank..

NIS code ☐

05. G. INPUTS AND OUTPUTS FROM FORESTRY AND HUNTING

Q1 Did anyone in your household collect firewood, charcoal, timber or other forest products during the past 12 months? 1 = Yes 2 = No ☐

Q2 Did anyone in your household collect palm juice, root crops, herbs, honey or hunt wild animals or birds during the past 12 months? 1 = Yes 2 = No ☐

If YES on Q1 or Q2 ask the following questions, if NO on both of them >>Part H

PRODUCT NUMBER	**INCOME**	What were the value of products that your household collected in this way during the past 12 months? Write '0' if nothing Receipts from sale of products gathered or hunted?	Imputed value of such products consumed in the household?	Imputed value of such products given away for gifts, charity, barter, etc.?	Total amount (Col. 3 - 5)
	ITEM	RIELS	RIELS	RIELS	RIELS
(1)	(2)	(3)	(4)	(5)	(6)
01	Sawing logs				Q05G1C06
02	Firewood				
03	Wood for charcoal				
04	Rattan, bamboo, palm leaves, other fibrous material				
05	Palm juice				
06	Root crops, fruits and vegetables				
07	Herbs				
08	Honey				
09	Wild animals and birds				
10	Other products (specify)				
11	Total 01 - 10:				

NIS code ☐

05. G. INPUTS AND OUTPUTS FROM FORESTRY AND HUNTING (CONTINUED)

ITEM NUMBER	EXPENSES How much did your household spend on the following items during the past 12 months? ITEMS	Amount spent Write '0' if nothing RIELS
(1)	(2)	(3)
01	Transport costs including transport to market	Q05G2C03
02	Fuel	
03	Draft animal feed	
04	Hired labour charges	
05	Tools, equipment, including maintenance	
06	Commissions, tips, rents, etc.	
07	Other (specify)	
08	Total 1 - 7:	

NIS code ☐

05. H. LIST OF HOUSEHOLD NON-AGRICULTURAL ECONOMIC ACTIVITIES DURING THE PAST 12 MONTHS

Q1 Did anyone in your household run an enterprise or business during the past 12 months? 1 = Yes 2 = No (>> NEXT SECTION) ☐

ACTIVITY NUMBER	DESCRIPTION OF THE ACTIVITY Write a clear description of the activity (see field manual page 65)	MAIN PRODUCT In this column the main product should be described	NIS INDUSTRY CODE	ID CODE OF Main person running the enterprise/ business	Other household members participating in the activity							
					1º	2º	3º	4º	5º	6º	7º	8º
(1)	(2)	(3)	(4)	(5)	(6a)	(6b)	(6c)	(6d)	(6e)	(6f)	(6g)	(6h)
01												
02												
03												
04												
05												
06												

Note: Use page 27-28 if there are more than 3 activities running by the household.

NIS code ☐

Note: Write a clear description of the activity. For example: If a household produce and then sell the product (or by-product) they have produced, write that the household produce and also sell the produced product.

05. H. LIST OF HOUSEHOLD NON-AGRICULTURAL ECONOMIC ACTIVITIES DURING THE PAST 12 MONTHS (CONTINUED)

COST NUMBER	COST ITEM	How much did you spend on the different items listed for activity 1, during the past 12 months, that is since ..[MONTH].. last year? (Use the same question for activity 2 to 6) Write '0' if nothing		
		Activity 1 RIELS	Activity 2 RIELS	Activity 3 RIELS
(1)	(2)	(3)	(4)	(5)
01	Capital goods to be used for the production such as machines, cars, motorbikes	Q05H2C03	Q05H2C04	Q05H2C05
02	Raw material used for processing *This item should be used for ALL kind of activity where you buy raw material: Rice for producing rice noodles, soya beans for producing Tofu, wood for making furniture, stone for making sculpture etc.*			
03	Materials used for construction			
04	Fuels used for production or generation of electricity, service etc.			
05	Lubricants			
06	Purchase of goods for resale (only trade) *Report all goods bought for resale in a shop, market etc. By resale means that the good is not used for processing, i.e. fresh vegetables bought from a farmer for resale fresh in the market, cigarettes bought to sell in a shop in front of the house etc.*			
07	Food, drink and tobacco products served to customers *All food, drinks and tobacco bought to serve to customers in "restaurants" (all places where food is served, even mobile restaurants), which means meat, vegetables for cooking, coca cola, beer, cigarettes etc.*			
08	Electricity purchased			
09	Water and sanitation charges			
10	Containers, packing materials			
11	Freight and transport expenses			
12	Insurance			
13	Bank charges			
14	Telephone, postage and other communication			
15	Office supplies, stationary and other items			
16	Rents paid for land, buildings, storage, warehousing, equipment & machines			
17	Repair/maintenance of buildings, equipment & machinery/material/services			
18	Registration and other govt. fees, taxes, market fees ("Phasy") and donations			
19	Wages/salaries of hired labour (cash plus kind)			
20	Services rendered by others (commissions, etc.)			
21	All other expenses not included in the list from 1 to 17 *Exclude Capital goods to be used for the production, such as machines, cars, motorbikes. They are registered in row 19 above.*			
22	Total 01 -21:			

Note: Use page 27-28 if there are more than 3 activities running by the household.

NIS code

05. H. LIST OF HOUSEHOLD NON-AGRICULTURAL ECONOMIC ACTIVITIES DURING THE PAST 12 MONTHS (CONTINUED)

REVENUE NUMBER	Q05H3C01 REVENUE ITEM	How much did your household receive under the different items listed for activity 1, during the past 12 months, that is since ..[MONTH].. last year? (Use the same question for activity 2 to 6) Write '0' if nothing Activity 1 RIELS	Activity 2 RIELS	Activity 3 RIELS
(1)	(2)	(3)	(4)	(5)
01	Receipts from sale of products and by-products from own production *Products and by-products which the household has produced by buying raw material or using own produced raw material*	Q05H3C03	Q05H3C04	Q05H3C05
02	Charges for repair services			
03	Other professional and service charges and commissions, etc.			
04	Charges for construction work done			
05	Proceeds from sale of goods sold (only trade) *Proceeds for sale of goods you purchased for resale (see item 05 - cost item)*			
06	Charges for board and lodging			
07	Receipts from sales/services at hotels/restaurants *All kind of restaurants, include small restaurant in front of the house,*			
08	Charges for transport services provided (taxi, mot			
09	Imputed value of products/goods for resale, etc. consumed in the household			
10	Imputed value of products/by-products used as intermediate goods			
11	Imputed value of products/by-products used as gifts, charity, etc.			
12	Supply of electricity, gas and water			
13	Rental income from land & buildings & storage & warehousing			
14	Rental income from equipment and machinery			
15	Charges for financial / insurance / real estate services			
16	Charges for medical services			
17	Charges for educational services			
18	Charges for recreational and cultural services			
19	Charges for other community, social and personal services			
20	All other income receipts and charges from the activity not included in (01-19)			
21	Total 01 - 20:			

NIS code ☐

Note: Use page 27-28 if there are more than 3 activities running by the household.

05. H. LIST OF HOUSEHOLD NON-AGRICULTURAL ECONOMIC ACTIVITIES DURING THE PAST 12 MONTHS (CONTINUED)

COST NUMBER	COST ITEM	How much did you spend on the different items listed for activity 1, during the past 12 months, that is since ..[MONTH].. last year? (Use the same question for activity 2 to 6) Write '0' if nothing		
		Activity 4 RIELS	Activity 5 RIELS	Activity 6 RIELS
(1)	(2)	(6)	(7)	(8)
01	Capital goods to be used for the production such as machines, cars, motorbikes			
02	Raw material used for processing *This item should be used for ALL kind of activity where you buy raw material: Rice for producing rice noodles, soya beans for producing Tofu, wood for making furniture, stone for making sculpture etc.*			
03	Materials used for construction			
04	Fuels used for production or generation of electricity, service etc.			
05	Lubricants			
06	Purchase of goods for resale (only trade) *Report all goods bought for resale in a shop, market etc. By resale means that the good is not used for processing, i.e. fresh vegetables bought from a farmer for resale fresh in the market, cigarettes bought to sell in a shop in front of the house etc.*			
07	Food, drink and tobacco products served to customers *All food, drinks and tobacco bought to serve to customers in "restaurants" (all places where food is served, even mobile restaurants), which means meat, vegetables for cooking, coca cola, beer, cigarettes etc.*			
08	Electricity purchased			
09	Water and sanitation charges			
10	Containers, packing materials			
11	Freight and transport expenses			
12	Insurance			
13	Bank charges			
14	Telephone, postage and other communication			
15	Office supplies, stationary and other items			
16	Rents paid for land, buildings, storage, warehousing, equipment & machines			
17	Repair/maintenance of buildings, equipment & machinery/material/services			
18	Registration and other govt. fees, taxes, market fees ("Phasy") and donations			
19	Wages/salaries of hired labour (cash plus kind)			
20	Services rendered by others (commissions, etc.)			
21	All other expenses not included in the list from 1 to 17 *Exclude Capital goods to be used for the production, such*			
22	Total 01 -21:			

NIS code

REVENUE NUMBER	REVENUE ITEM	How much did your household receive under the different items listed for activity 1, during the past 12 months, that is since ..[MONTH].. last year? (Use the same question for activity 2 to 6) Write '0' if nothing		
		Activity 4 RIELS	Activity 5 RIELS	Activity 6 RIELS
(1)	(2)	(6)	(7)	(8)
01	Receipts from sale of products and by-products from own production *Products and by-products which the household has produced by buying raw material or using own produced raw material*			
02	Charges for repair services			
03	Other professional and service charges and commissions, etc.			
04	Charges for construction work done			
05	Proceeds from sale of goods sold (only trade) *Proceeds for sale of goods you purchased for resale (see item 05 - cost item)*			
06	Charges for board and lodging			
07	Receipts from sales/services at hotels/restaurants *All kind of restaurants, include small restaurant in front of the house,*			
08	Charges for transport services provided (taxi, mot			
09	Imputed value of products/goods for resale, etc. consumed in the household			
10	Imputed value of products/by-products used as intermediate goods			
11	Imputed value of products/by-products used as gifts, charity, etc.			
12	Supply of electricity, gas and water			
13	Rental income from land & buildings & storage & warehousing			
14	Rental income from equipment and machinery			
15	Charges for financial / insurance / real estate services			
16	Charges for medical services			
17	Charges for educational services			
18	Charges for recreational and cultural services			
19	Charges for other community, social and personal services			
20	All other income receipts and charges from the activity not included in (01-19)			
21	Total 01 - 20:			

NIS code ☐

06. HOUSEHOLD LIABILITIES

Respondent: Head of household, spouse of the head of household, or another adult household member

Q1 Does your household have outstanding debts to other households or institutions? 1 = Yes 2 = No (>> NEXT SECTION)

LOAN NUMBER	How old is the debt? (In completed months) Since how many months did your household obtain the loan Put '0' if less than one month	In how many months will the debt be fully paid back? Note: How many months from this month Put '0' if less than one month Leave blank if Don't know	From whom did your household obtain the loan? 01 = Relatives in Cambodia 02 = Relatives who live abroad 03 = Friends/neighbours 04 = Moneylender 05 = Trader 06 = Landlord 07 = Employer 08 = Bank 09 = NGO (non-profit and profit) 10 = Other (specify) If more than one enter the most important	What was the primary purpose for which your household borrowed the money? 01 = Agricultural activities 02 = Non-agricultural activities 03 = Household consumption needs 04 = Illness, injury, accident 05 = Other emergencies (fire, flood, theft) 06 = Rituals (marriage ceremony, funeral etc.) 07 = Purchase/improvement of dwelling 08 = Purchase of consumer durables 09 = Servicing and existing debts 10 = Other (specify)	What was the total amount borrowed?	How much is the outstanding loan now (this month)? Interest should not be included	If interest is charged, what is the monthly rate of interest? Refer to the outstanding loan in Col 7 If no interest, write '0' Leave blank if Don't know
	MONTHS	MONTHS			RIELS	RIELS	PERCENTAGE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
01				Q06_C05		Q06_C07	Q06_C08
02							
03							
04							
05							
06							

07. HOUSEHOLD INCOME FROM OTHER SOURCES

Respondent: Head of household, spouse of the head of household, or another adult household member

SOURCE NUMBER		Q07_C01 REVENUE ITEMS	How much did your household receive from ..[SOURCE].. during the last 12 months? From Cambodia Write '0' if nothing IN RIELS	From abroad Write '0' if nothing IN RIELS	Total (Col 3 + Col 4) Write '0' if nothing IN RIELS
(1)		(2)	(3)	(4)	**(5)**
01		Pensions, social welfare/benefits, provident fund	Q07_C03	Q07_C04	Q07_C05
02		Remittances from other relatives or others			
03		Governmental scholarships, stipends for any student member of the household			
04		Other scholarships, stipends for any student member of the household (NGO, private institutions etc.)			
05		Transfers (assistance/support) from NGO or other institutions (not credit)			
06		Income from lottery and gambling (Include all kind of lottery and gambling winnings)			
07		Bank interests			
08		Dividends			
09		Interests on loans to others (only interest)			
10		Imputed value of goods received through barter (not recorded elsewhere)			
11		Imputed value of gifts received (not recorded elsewhere)			
12		Sold land			
13		Other sold property such as house, car, jewellery			
14		Other (not included in 1 to 14)			
15		Total received: 01 - 14:			

Note: Income from economic activity will be reported in module 05 (agricultural and non-agricultural activity) and in module 15 (salary if paid employee)

8. CONSTRUCTION ACTIVITIES IN THE PAST 12 MONTHS

Respondent: Head of household, spouse of the head of household, or another adult household member

Q1 Does the household own its own dwelling or any other building(s) used for residential, agricultural, commercial or industrial purposes?

Note: This section refer to all buildings owned by the household, that means the building the household live in and all other buildings that are owned by the household

1 = Yes 2 = No (>> NEXT SECTION) ☐

BUILDING NUMBER	What is the building used for? 1 = Residential 2 = Agricultural 3 = Commercial (purchase/sale of goods and services) 4 = Industrial (manufacturing) Enter the three most important			What is the total area for living or other use of the building? SQUARE METERS	What year was the building constructed? Enter the year when the construction was finished Leave blank if not yet finished YEAR	How much would you have to pay to buy a building like this in the village (where the building is located)? If don´t know, leave blank RIELS	How much would you have to pay per month to rent a building like this in the village (where the building is located)? If don´t know, leave blank RIELS	Is any part of this building rented out? 1 = Yes 2 = No (>> 9)	How much does your household receive in monthly rent for this building? RIELS	Was this building constructed, extended or repaired in the last 12 months, that is, since ..[MONTH].. last year? 1 = Yes 2 = No (>> NEXT BUILDING)
(1)	(2a)	(2b)	(2c)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1						Q08_C05	Q08_C06			
2										
3										
4										

BUILDING NUMBER	What kind of work was it? 1 = Constructed 2 = Extension (>>14) 3 = Repair (>> 14) Enter the most important	In what year and month did the construction start?		In what year and month did people start to use this building? (if not yet used leave it blank for month and year)		Who built this building? 1 = Household members only 2 = Household members and other relatives 3 = Household members and hired help 4 = Contracted builder 5 = Other (specify)	How much did your household pay those who helped constructing, extending or repairing this building (hired or contracted)? Write '0' if nothing and leave it blank if don´t know For building still under work ask for the cost up till now RIELS
		MONTH	YEAR	MONTH	YEAR		
(1)	(10)	(11a)	(11b)	(12a)	(12b)	(13)	(14)
1							
2							
3							
4							

Note: If the kind of work is both extension and repair report "Extension" and include reparation in the amount in column 14-16

8. CONSTRUCTION ACTIVITIES IN THE PAST 12 MONTHS (Continued)

BUILDING NUMBER	How much did your household spend for materials? Write '0' if nothing and leave it blank if don't know For building still under work ask for the cost up till now	If not possible to separate labour and materials: How much were the total costs?	If anyone in the household has put in own labour for constructing, extending or repairing this building try to estimate the value of it as if you had engaged someone to do it? Write '0' if nothing	If anyone else not belonging to the household has put in own labour try to estimate the value of it as if you had engaged someone to do it? Write '0' if nothing	For buildings not yet completed: What is the estimated remaining cost of the building's construction, extension or repair to be completed?
	RIELS	RIELS	RIELS	RIELS	RIELS
(1)	(15)	(16)	(17)	(18)	(19)
1					
2					
3					
4					

Note: If the household cannot separate the costs for labour and material fill out column 16 and leave column 14 and 15 blank.

09. DURABLE GOODS

Respondent: Head of household, spouse of the head of household, or another adult household member

ITEM NUMBER	How many of the following items does your household own? (Write '0' if none and =>> Next item)			Did you buy it, receive it as a gift, as pay for work or in other way? If more than one item ask for each item and put a code in each column. If more than 4 ask for the 4 most recent				How many of this (these) ..[ITEM].. were acquired or received...:		For items bought or received within the last 12 months: What was the purchase value (or the imputed value) of all these ..[ITEM]s..?	For items bought or received before the last 12 months: According to current prices, what do you think you could get if you sold ..[ITEM]s..?
	ITEM	PRO-DUCT CODE	TOTAL NUMBER	1 = Purchased 2 = Payment for services 3 = Received as a gift 4 = Other (specify)				a. Within the last 12 months?	b. Before the last 12 months?	RIELS	RIELS
(1)	(2)	(3)	(4)	(5a)	(5b)	(5c)	(5d)	(6a)	(6b)	(7)	(8)
Home Electronics											
01	Radio (Vitju)	801									
02	Television (TV)	802									
03	Telephone	817									
04	Cell phone	818									
05	Video/VCD/DVD player/recorder	807									
06	Stereo	808									
07	Camera (picture/video)	809									
08	Satellite dish	824									
Personal transport											
09	Bicycle (including bicycle with battery help engine)	803									
10	Motorcycle (including electrical moto's)	804									
11	Car	829									
12	Jeep/Van	830									
Household equipment											
13	Sewing machine	806									
14	Refrigerator	810									
15	Electric Kitchen/Gas Stove	813									
16	Washing machine	819									
17	Dishwasher	820									
18	Freezer	821									
19	Vacuum cleaner	822									
20	Electric iron	823									
21	Electric fan	811									
22	Air conditioner	812									
23	Suitcases/box for store/ travelling	890									

Note: *23 includes wooden boxes used when travel, bigger canvas bags with zipper (or the like) and bigger back packers etc.*

09. DURABLE GOODS

ITEM NUMBER	How many of the following items does your household own? (Write '0' if none and >> Next item)			Did you buy it, receive it as a gift, as pay for work or in other way? If more than one item ask for each item and put a code in each column. If more than 4 ask for the 4 most recent				How many of this (these) ..[ITEM].. were acquired or received...:		For items bought or received within the last 12 months: What was the purchase value (or the imputed value) of all these ..[ITEM]s..?	For items bought or received before the last 12 months: According to current prices, what do you think you could get if you sold ..[ITEM]s..?
	ITEM	PRO-DUCT CODE	TOTAL NUMBER	1 = Purchased 2 = Payment for services 3 = Received as a gift 4 = Other (specify)				a. Within the last 12 months?	b. Before the last 12 months?	RIELS	RIELS
(1)	(2)	(3)	(4)	(5a)	(5b)	(5c)	(5d)	(6a)	(6b)	(7)	(8)
24	Generator	816									
25	Batteries	891									
Furniture											
26	Sofa set	814									
27	Dining set (dining table + chairs)	815									
28	Bed sets (Bed, Mattress…)*)	892									
29	Wardrobe, cabinets	893									
Computers and printers											
30	Computer (desktop or laptop)	825									
31	Printer	826									
Recreation											
32	Musical instruments	827									
33	Sport equipment	828									
Water transport											
34	Rowing boat	831									
35	Motor Boat	832									
Agriculture and other production											
36	Cart (pulled by animal)	805									
37	Tractor	833									
38	Bulldozer/roller	834									
39	Plough	835									
40	Threshing machine	837									
41	Harrow/rake/hoe/spade/axe…	838									
42	Hand Tractor (Kou Yon)	839									
43	Rice mill	840									
44	Water pump	836									
Other items											
45	Other (specify)	841									
46	Other (specify)	894									

**) Refer to the bed. If the household only have a bed (without a mattress, cushions etc ..) report that.*

10. MATERNAL HEALTH

Respondent: All women with living children under 5 years old

LAST PREGNANCY & DELIVERY

Q1 Are there any women living in the household with living children under 5 years old? 1= Yes 2=No (>> SECTION 11)

Note: The child can be living in another household.

Please provide the following information on the last pregnancy. Ask the woman personally!

SERIAL NUMBER	COPY ID CODE OF THE MOTHER FROM ROSTER	ID No. of child if living in the household Leave blank if the child is not living in the household	During this pregnancy did you suffer from night blindness? 1 = Yes 2 = No 8 = Don't know	Did you see anyone for antenatal care for this pregnancy? 1 = Yes 2 = No 8 = Don't know	Where did you give birth? Enter Code If don't know enter '98'	Who assisted you in the delivery of the child? 1 = Doctor/Medical assistant 2 = Nurse 3 = Midwife 4 = Traditional birth attendant 5 = Relative/friend 6 = Other (Specify) 7 = None Leave it blank if don't know (Enter up to 4 most important persons)			
(1)	(2)	(3)	(4)	(5)	(6)	(7a)	(7b)	(7c)	(7d)
01									
02									
03									
04									

Note: If the woman is not in the household (absent) during the interview month, leave blank in column 4-7.

Codes for col. 6

Home:
- 01 = Your home
- 02 = Midwife/TBA home
- 03 = Other home (specify)

Public sector:
- 04 = National Hospital (PP)
- 05 = Province Hospital (RH)
- 06 = District Hospital (RH)
- 07 = Health Centre
- 08 = Health Post
- 09 = Military Hospital
- 10 = Other Public (Specify)

Private Medical Sector
- 11 = Private Hospital
- 12 = Private Clinic
- 13 = Other Private (Specify)

Other:
- 14 = Other (Specify)

Overseas Medical Service:
- 15 = Overseas Medical Service

11. CHILD HEALTH

Respondents: Mothers or caretakers of children under 2 years old

YOUNGEST CHILD & AND ALL CHILDREN UNDER 2

Q1 Check in the household list if there are any children 00-23 months old living in the household? 1= Yes 2=No (>> SECTION 13)

Please provide the following information on the youngest child of each mother and all children 00-23 month old

SERIAL NUMBER	COPY ID CODE OF THE MOTHER FROM ROSTER Leave blank if the mother/care-taker is not living in the household	COPY ID CODE OF THE CHILD FROM ROSTER	Is this your youngest child? 1 = Yes 2 = No (>> 9)	Did you ever breastfeed your child? 1 = Yes 2 = No (>> 9)	How long after birth did you first put the child to the breast? If less than one hour record '00' hours If less than 24 hours record hours Otherwise record days If don't know, leave blank		Are you still breastfeeding? 1 = Yes 2 = No
					HOURS	DAYS	
(1)	(2)	(3)	(4)	(5)	(6a)	(6b)	(7)
01							
02							
03							
04							
05							
06							
07							

SERIAL NUMBER	Now I would like to ask you about liquids your child drank yesterday during day or night. Did your child drink ….. A. Infant formula or any other milk such as tinned, condensed or fresh animal milk B. Plain water, fruit juice such as coconut juice, tea 1 = Yes 2 = No 8 = Don't know		Have this child ever received a vaccination? 1 = Yes 2 = No (>> NEXT CHILD) 8 = Don't know (>> NEXT CHILD)	Where did the child receive most of the vaccinations? 1 = Outreach activities 2 = Health centre 3 = National, provincial, district hospital 4 = Private clinic 5 = Other (specify)	Do you have a yellow card where [NAME]'s vaccinations are written down? If 'Yes': Can I see the yellow card? 1 = Yes 2 = No (>> NEXT CHILD)
	A	B			
(1)	(8a)	(8b)	(9)	(10)	(11)
01		.			
02					
03					
04					
05					
06					
07					

13. HEALTH CARE SEEKING & EXPENDITURE

Respondent: Head of household or the spouse of the head of household

The following questions should be asked of the head of household, spouse of the head of household, or another adult household member, if both head and spouse are absent.

A. SUBSIDIZED HOUSEHOLD HEALTHCARE

Q1 In the last 12 months, has any member of the household received free or subsidized health care that other people would normally have to pay for? (including private health insurance)

1 = Yes 2 = No (>> Q4) 8 = Don't know

Q2 How did they obtain this free / subsidized treatment?

If the household has obtained free / subsidized treatment in more than one way, record up to the 3 ways.

If more than 3 ways record the most recent

1 = Household Priority Access Card, Equity Card, or other document that allows free or subsidized health care
2 = Name(s) are on a List of Poor Households held by the local authorities
3 = Health facility staff asked them questions from a list / filled out a form before treatment
4 = Health facility staff provided free treatment (without asking questions or filling out a form)
5 = Have private health insurance
6 = Belong to community health insurance scheme
7 = Other (specify)
8 = Don't know

a. b. c.

Q3 When they received free / subsidized treatment, were they treated the same as other people who were paying for their healthcare?

1 = Yes, always treated the same
2 = Yes, most times treated the same
3 = Sometimes yes, sometimes no
4 = No, most times not treated the same
5 = No, never treated the same
8 = Don't know

Q4 If Q1 = 2, Otherwise (>> Col.2 next page)
Do you or any member of the household have a Priority Access Card, Equity Card, or any other document that allows free or subsidized health care?

1 = Yes 2 = No 8 = Don't know

13. HEALTH CARE SEEKING & EXPENDITURE (CONTINUED)

Respondent: Head of household or the spouse of the head of household

Please provide information on all members who usually reside in this household.

B ILLNESS AND HEALTHCARE EXPENDITURE DURING THE LAST 30DAYS

ID NUMBER	Please tell me if any member of your household is sick, has an illness or injury now or at any time in the last 30 days. 1 = Yes 2 = No (>> 7)	If an illness What kind of illness (main presenting) did … [Name} … have in the last 30 days? 1 = Fever 2 = Cough 3 = Diarrhoea 4 = Flu 5 = Other (specify) Only ask if an illness If injury leave blank	If an illness Did …[Name} …have this illness for more than one year already? It should be the same illness that comes and goes (chronic) 1 = Yes 2 = No If injury leave blank	Was ..[NAME].. so ill (because of illness/injury) that s/he could not do his/her usual activities? Refer to the last 30 days 1= Yes 2= No (>> 6) 3= No usual activities (>> 6) (e.g. small children, old person, etc.)	How many days did this illness/injury stopped ..[NAME].. from doing usual activities? Enter number of Refer to the last 30 days Number of days	Was consultation or treatment sought for this illness/injury? Refer to the last 30 days 1 = Yes 2 = No	Has there been any other reason to go to a health facility or seek health care? If no, PROBE Has this person received care in relation to a pregnancy, immunization or supplementation? 1 = Antenatal care 2 = Delivery 3 = Postnatal care 4 = Vitamin A or deworming 5 = Health check 6 = Other (specify) Register 0 if no.
(1)	(2)	(2a)	(3)	(4)	(5)	(6)	(7)
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							

Note: The first 3 codes in column 7 are valid only for women. Code 5 means health checks for students, for work, HIV before marriage etc.

13. HEALTH CARE SEEKING & EXPENDITURE (CONTINUED)

Respondent: Head of household or the spouse of the head of household

Please provide information on all members who usually reside in this household.

B ILLNESS AND HEALTHCARE EXPENDITURE (CONTINUED)

ID NUMBER	In the last thirty days, how many times did [NAME] seek health care for illness, injury, or any other reason? If 0, PROBE. Has this person bought medicine or consulted with kru khmer, a traditional birth attendant, or a monk Enter number of times sought health If '0' >> NEXT PERSON	In the past 30 days, which was the first provider that was consulted for [NAME]'s health? Enter Code (See below) If don't know enter '98'	Ask if answer in Col. 8 is more than 1 In the past 30 days, which was the last / most recent provider that was consulted for [NAME]'s health? Enter Code (See below) If don't know enter '98'	Was ..[NAME].. hospitalised for the treatment/ care during the last 30 days? 1 = Yes 2 = No Include treatment/care in other countries If '2' >> Col (10)	How many nights was .. [NAME].. hospitalised during the last 30 days? Include treatment/care in other countries No of Nights	How much in total was spent on transport to go to and return from any health provider in the past 30 days? Include expenditure for treatment/care in other countries Write '0' if nothing RIELS	How much in total was spent on treatment at any health provider in the past 30 days? Include expenditure for treatment/care in other countries Write '0' if nothing RIELS	How was the treatment financed? 1 = Household income 2 = Savings 3 = Borrowing 4 = Selling assets 5 = Selling household production in advance 6 = Other sources (specify) Enter the 3 with the highest amounts		
(1)	(8)	(9a)	(9b)	(9c)	(9d)	(10)	(11)	(12a)	(12b)	(12c)
01										
02										
03										
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										

Codes for col. 9a and 9b		
Public sector:	Private medical sector:	Not medical sector:
01 = National hospital (PP)	08 = Private hospital	14 = Shop selling drugs/market
02 = Provincial hospital (RH)	09 = Private clinic	15 = Kru Khmer/ Magician
03 = District hospital (RH)	10 = Private pharmacy	16 = Monk/religious leader
04 = Health centre	11 = Home/Office of trained health worker/nurse	17 = Traditional birth attendant
05 = Health post	12 = Visit of trained health worker/nurse	18 = Other (Specify)
06 = Provincial rehabilitation centre (PRC) or Community based rehabilitation (CBR)	13 = Other private medical (Specify)	Overseas Medical Service:
07 = Other publ		19 = Overseas Medical Service

14. DISABILITY

Respondent: Head of household or the spouse of the head of household

Please provide information on all members who usually reside in this household.

ID NUMBER	Does ..[NAME].. have any of the following? Enter the 3 most important 01 = Difficulty seeing 02 = Difficulty hearing 03 = Difficulty speaking 04 = Difficulty moving 05 = Difficulties in feeling or sensing 06 = Psychological or behavioural difficulties 07 = Learning difficulties 08 = Fits 09 = Other (specify) 98 = Don´t know Enter '0' if none, (>> NEXT PERSON)			Is the difficulty … 1 = Mild 2 = Moderate 3 = Severe Enter one code for each of the difficulties reported in Col 2a-2c			What was the cause? 01 = Mine/UXO 02 = Traffic Accident 03 = Work Accident 04 = Disease(s) 05 = Congenital 06 = Fever 07 = Difficulty Delivery 08 = Chemical Accident 09 = Rape 10 = Violent Attack 11 = Domestic Violent 12 = Suicide Attempt 13 = Mental Trauma due to war and other traumatic events 14 = War Injuries 15 = Malnutrition 16 = Burns 17 = Torture 18 = Old Age 19 = Other (specify) 98 = Don't know Enter one code (the most important) for each of the difficulties reported in Col 2a-2c		
	The 3 most important								
(1)	(2a)	(2b)	(2c)	(3a)	(3b)	(3c)	(4a)	(4b)	(4c)
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									

14. DISABILITY (CONTINUED)

Respondent: Head of household or the spouse of the head of household

Please provide information on all members who usually reside in this household.

ID NUMBER	Does the difficulty/difficulties prevent ..[NAME].. from participation or access to any of the following? 1 = Education (ask if aged 3 or over) 2 = Housing 3 = Land ownership (ask if aged over 18) 4 = Employment and income generation 5 = Health services 6 = Transport Enter the three most important Leave blank if "None"		
(1)	(5a)	(5b)	(5c)
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			

15. CURRENT ECONOMIC ACTIVITY

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS

Please provide information on all members aged 5 years and older who usually reside in this household. Try to interview the household members individually

ID NUMBER	ID NUMBER OF RESPON-DENT	Did ..[NAME].. do any work at all, even one hour, during the past 7 days, i.e. - worked or helped on a farm, grinding grain, making palm sugar, caring for animals, weaving etc. - worked in a business or workplace (private or public sector, own account or in business belonging to someone else in your household 1 = Yes (>> 5) 2 = No	Although ..[NAME].. did not work even for one hour during the past 7 days, did ..[NAME].. have a economic activity from which he/she was temporarily absent? (e.g.: absent due to holiday or illness) 1 = Yes 2 = No (>>26)	What was ..[NAME].. 's main occupation/economic activity during the past 7 days? Note: beggar and sex worker are occupations Occupation description	NIS OCC: CODE
(1)	(2)	(3)	(4)	(5a)	(5b)
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	In what kind of industry/business (economic activity) did ..[NAME].. work in his/her main occupation/activity (e.g. agriculture, manufacturing, construction, hotel/restaurant, trade)?		Under what type of employer did ..[NAME].. work in his/her main occupation/economic activity?	What was ..[NAME]..'s employment status in his/her main occupation/economic activity?
			1 = Government 2 = State owned enterprise 3 = Cambodian enterprise 4 = Foreign enterprise (private) 5 = Non profit institution 6 = Household sector 7 = Embassies, International institutions and foreign aid and development agencies 8 = Other, specify …..	1 = Employee 2 = Employer 3 = Own account worker 4 = Unpaid family worker (contributing family worker) 5 = Other, specify….
	Industry description	NIS ISIC CODE		
(1)	(6a)	(6b)	(7)	(8)
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	If Col. 3 = 1 (Work during the past 7 days) Otherwise (>> 10b) How many hours did ..[NAME]..work in his/her main occupation/economic activity during the past 7 days?	How many days did ..[NAME].. work in his/her main occupation/ economic activity during the past month?	If Col 3 = 1 (Work during the past 7 days) or Col 4 = 1 (temporary absent) Does ..[NAME].. work the whole year in the main occupation/economic activity ? 1 = Yes (>>10d) 2 = No	If Col. 10b = 2 Is..[NAME]..`s work the past 7 days in the main occupation /economic activity seasonal? Note:Seasonal is work done only part of the year but the same job is reoccurring every year. 1 = Yes 2 = No	If Col 3 = 1 (Work during the past 7 days) or Col 4 = 1 (temporary absent) Is..[NAME]..`s main occupation/ economic activity done in a foreign country? 1 = Yes 2 = No	if Col.8 = 3, 4 or 5 (employment status) Were the farm or fish products or other goods that (NAME) produced or helped produce in the last seven days in the main occupation /economic activity? 1= Only for own household use 2= Mainly for own household use but partly for sale 3= Mainly for sale, but partly for own household use 4= Only for sale	Besides ..[NAME]..'s main occupation /economic activity, how many additional economic activities did he/she have during the past 7 days? **Enter '0' if no more economic activities (>> 20)**
	HOURS	DAYS					NO OF ECON.ACTIVITIES
(1)	(9)	(10a)	(10b)	(10c)	(10d)	(10e)	(11)
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							

Note to column 10C, 17C and 33: Examples of Seasonal work (except farming)
Construction: Not being able to work with road construction during wet season.
Tourism: If no or less tourists arriving e.g. during wet season. Tourism in Cambodia is peaking during November to February. Fewer tourists during wet season might affect the possibilities for tourism work.
Salt field worker: During wet season not possible to extract salt out of sea water. When not working no salary paid.
Teachers: When not schooling teachers having vacation. As they have salary during vacation this is not seasonal work.

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	What was ..[NAME].. 's secondary occupation/economic activity during the past 7 days? Note: beggar and sex worker are occupations		In what kind of industry/business (economic activity) did ..[NAME].. work in his/her secondary occupation/economic activity (e.g. agriculture, manufacturing, construction, hotel/restaurant, trade)?	
	Occupation description	NIS OCC: CODE	Industry description	NIS ISIC CODE
(1)	(12a)	(12b)	(13a)	(13b)
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	Under what type of employer did ..[NAME].. work in his/her secondary occupation/economic activity? 1 = Government 2 = State owned enterprise 3 = Cambodian enterprise 4 = Foreign enterprise (private) 5 = Non profit institution 6 = Household sector 7 = Embassies, International institutions and foreign aid and development agencies 8 = Other, specify …..	What was ..[NAME].. 's employment status in his/her secondary occupation/economic activity? 1 = Employee 2 = Employer 3 = Own account worker 4 = Unpaid family worker (contributing family worker) 5 = Other, specify….
(1)	(14)	(15)
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	If Col. 11 = 1 ore more (2 or more jobs/economic activities) How many hours did ..[NAME].. work in his/her secondary occupation/ economic activity during the past 7 days? HOURS	How many days did ..[NAME].. work in his/her secondary occupation/ economic activity during the past month? DAYS	Does ..[NAME] .. work the whole year in the secondary occupation/economic activity? 1 = Yes (>>18a) 2 = No	If Col. 17b = 2 Is..[NAME]..`s work the past 7 days in the secondary occupation/economic activity seasonal? Note: Seasonal is work done only part of the year but the same economic activity is reoccurring every year. 1 = Yes 2 = No	If Col 15 = 3, 4 or 5 (employment status) Were the farm or fish products or other goods that (NAME) produced or helped produce in the last seven days in the secondary occupation /economic activity …? 1= only for own household use 2= Mainly for own household use but partly for sale 3= Mainly for sale, but partly for own household use 4= Only for sale	If Col 11 more than 1 (3 or more jobs/ economic activities) If Col 11 = 1 (>> Col 19) In addition to the hours worked during the past 7 days in main and secondary occupation/economic activity how many additional hours did ..[NAME].. work in the other jobs/activities during the past 7 days? Note: Do not count all hours. Only count the additional hours. HOURS	Is any of ..[NAME] ..`s work the past 7 days in the other occupation/economic activities seasonal? Note: Seasonal is work done only part of the year but the same job is reoccurring every year. 1 = Yes 2 = No
(1)	(16)	(17a)	(17b)	(17c)	(17d)	(18a)	(18b)
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							

If Col 11 more than 1
(3 or more jobs/
economic activities)

If Col 11 = 1 (>> Col 19)

In addition to the hours worked during the past 7 days in main and secondary occupation/economic activity how many **additional** hours did ..[NAME].. work in the other jobs/activities during the past 7 days?

Note: Do not count all hours.
Only count the additional hours.

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	How many hours in total did ..[NAME].. work (main + secondary + additional occupations/ economic activities) during the past 7 days?	Ask only if Employee (Code 1 in Col 8 - main occupation/economic activity or Col 15 - secondary occupation) How much did ..[NAME].. earn in salary/wages during the last month from all economic activities? (In cash or in kind) **Write "0" if nothing**	Given the total number of hours worked during the past 7 days, would ..[NAME].. like to work less, more or unchanged hours, given that the income would change in a corresponding way? 1 = Less hours 2 = More hours 3 = Unchanged hours (>> NEXT PERSON)	If Col. 21 = 1 How many hours less then (hours) worked the past 7 days (stated in col 19) would .. [NAME] .. like to work?	If Col. 21 = 2 How many hours more then (hours) worked the past 7 days (stated in col 19) would ..[NAME] .. like to work?	If Col 21 = 2 (more hours) If Col 21 = 1 (>> NEXT PERSON) Was ..[NAME].. able to (available to) work more hours (stated in Col 9 or 19) during the past 7 days or start working more hours within 2 weeks from now (the interview)? 1 = Yes 2 = No
				Note: Do not count all hours. Only count the hours..[NAME]..want to reduce or increase ..[NAME]..'s work with.		
	HOURS	RIELS		HOURSMINUS	HOURSEXTRA	
(1)	(19)	(20)	(21)	(22a)	(22b)	(23)
01		Q15_C20				
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						

Note to column 23: The respondent has stated that he/she would like to work more than he/she does today. It is important to know whether the respondent could start work within two weeks from now(only Yes or No).
This regardless if there are any jobs available, the respondents personal skills, sickness or else. In the following (column 24) the respondent is asked why he/she doesn't work more than now.

Examples, see next page

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	If Col 21 = 2 (more hours) Why did.. [NAME].. work less hours the past 7 days than the hours he/she liked to work? 1 = Temporary illness 2 = Not enough work available 3 = Other reasons	If Col 21 = 2 (more hours) and Col 23 = 1 (available to work more hours) If Col 23 = 2 (>> NEXT PERSON) How many months has ..[NAME] .. been working less hours than he/she wanted (hours stated in Col 19) and also been available to work more hours? Number of months. If less than 1 month put '0' Leave it blank if don't know months MONTHS	If No work during the past 7 days (Col 3 = 2 and Col 4 = 2) If work (Col 3 = 1 or Col 4 = 1 (>> NEXT PERSON) Has ..[NAME].. been actively seeking work during the past 4 weeks? 1 = Yes 2 = No (>> 31)	In what ways did ..[NAME]..try to find a work? 1 = Applied to advertisement 2 = Contacted (potential) employers 3 = Enquired with friends relatives etc 4 = Employment agency 5 = Tried to start own business but failed 6 = Other (specify) Enter up to 3 codes			Was ..[NAME].. available for work during the past 7 days or available to start working within 2 weeks from now (interview)? 1 = Yes 2 = No	How many hours does ..[NAME].. want to work per week? Write '0' if none HOURS
(1)	(24)	(25)	(26)	(27a)	(27b)	(27c)	(28)	(29)
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								

Employed: *An employed person who has broken an arm is not able to work within 2 weeks from now. It should be equals to" No" in column 23 and "Illness" in column 24.*
An employed construction worker wanting to work more than today and can start working more already tomorrow but there are no employer offering work . It should be equals to" Yes" in column 23 and "Not enough work available" in column 24.

Two more examples on next page

15. CURRENT ECONOMIC ACTIVITY (CONTINUED)

Respondents: All household members aged 5 years and older

ACTIVITY STATUS DURING THE PAST 7 DAYS (CONTINUED)

ID NUMBER	How many months has ..[NAME].. been out of work and actively been looking for work? Leave it blank if don't know months. MONTHS	If Col 26 = 2 (Not actively seeking work) If Col 26 = 1 (>> NEXT PERSON) Why did [NAME] not actively seek work during the past 4 weeks? 1 = Believes no work is available 2 = Awaiting result of application 3 = Waiting to start new job 4 = Permanent disabled 5 = Illness/disease/injured 6 = Too young, too old, retired 7 = Student 8 = Housekeeping, caring for children, elderly or disabled 9 =Other reason, specify.... If 6-8 >> NEXT PERSON	How many months in total has..[NAME].. been out of work? Note: Looking for and not looking for work. Number of months. If less than 1 month put '0' Leave it blank if don't know months MONTHS	If Col 32 < 13 Months Was the latest work ..[NAME].. seasonal? Note: Seasonal is work done only part of the year but the same economic activity is reoccurring every year. 1 = Yes 2 = No
(1)	(30)	(31)	(32)	(33)
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				

Business: A woman wanting to work more in their own shop than today but have to take care of children. It should be equals to" No" in column 23 and "Other reasons" in column 2

Farmer: A farmer harvesting rice to times a year. When harvesting and planting the crops are completed he/she could start working with the neighbours cattle within a week. It should be equals to" Yes" in column 23 and "Not enough work available" in column 24 if not offered job by the neighbour.

17.A. VICTIMIZATION

Respondent: Head of household, spouse of the head of household, or of another adult household member

Q1 Do you feel safe from crime and violence in this neighbourhood? 1 = Yes 2 = No

Q2 Has this household or any of its members been exposed to theft, burglary or robbery in the last 12 months, that is, since ..[MONTH].. last year? 1 = Yes 2 = No

Q3 Has anyone in the household had an accident that caused injury in the last 12 months? 1 = Yes 2 = No

Note: Robbery is the case when one or several offenders are using threat and/or violence when stealing something from you.

VICTIM OF VIOLENCE

Ask each household member individually, for children ask their parents

ID NUMBER	Have you been exposed to any act of violence that caused injury in the last 12 months? 1 = Yes 2 = No (>> NEXT PERSON)	How often have you been exposed in the last 12 months? 1 = Once 2 = Twice 3 = Three times 4 = 4-9 times 5 = 10 or more times
(1)	(2)	(3)
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		

Note: The purpose of these questions is to gather information on victimizations and feelings of safety in Cambodia. The results are very important when undertaking efforts to reduce victimization and fear and to develop the criminal justice system in Cambodia. The information is strictly confidential and data is only analysed in aggregated tables.

17.B. VICTIMIZATION (CONTINUED)

VICTIM OF VIOLENCE — *Ask each household member individually, for children ask their parents*

For each person in the household that have been exposed to violence, please provide information from each event.
Write the ID Number in column 1.

ID NUMBER	EVENT NUMBER	To which kind of violence? If more than three events, refer to the three most recent ones. 01 = Push you, shake you, or throw something at you. 02 = Twist your arm. 03 = Punch you with a fist or with something that could hurt you. 04 = Kick you or drag you. 05 = Try to strangle you or burn you. 06 = Attack you with a knife, gun or other type of weapon 07 = Rape, forced to have sexual intercourse when you did not want to 08 = Slap/Strike/Beat you with hand 09 = Slap/Strike/Beat you with object 10 = Rob you 11 = Other (specify	Was the event reported to some authorities? 1 = Yes 2 = No (>> 7)	Which authority did the event get reported to? 1 = Village leader 2 = Police 3 = Other (specify)	Did any event go to court procedure? 1 = Yes 2 = No	Was this act of violence committed by some unknown or by someone known to you? 1 = Unknown person(s) -male 2 = Unknown person(s) - female 3 = Known person (s) - male 4 = Known person (s) - female 5 = Other (specify)	Was the injury so serious that medical care was needed? 1 = Yes 2 = No	How long did it take for the injury to heal? 1 = Less than one week 2 = 1- 2 weeks 3 = 3- 4 weeks 4 = One month or more
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	01							
	02							
	03							
	01							
	02							
	03							
	01							
	02							
	03							
	01							
	02							
	03							
	01							
	02							
	03							

Rules for Income Composition in STR 2014

When Diary at the beginning of the Variable name data is collected in Diary, otherwise it is collected through Recall method.

The variables in this document are stored in Table IncomeHousehold in CSES2014STR database.
The 16 income types are stored in Table f_HHIncome in CSES2014STR database
(see page 7 in this document)

Variable	SQL-table	Rule	Note
Salary	vPersonEcoCurrent	SalaryWages*12	Person Q15C20
Salary **(IncomeType 1)**	vPersonEcoCurrent	SalaryWages *12 Sum HHID	Household Q15C20
DiarySalaryCash	vDiaryIncome	ValueRiel*12 If KindOfIncome = 1 and TypeOfIncome = 1 or 0 (null)	
DiarySalaryInKind	vDiaryIncome	ValueRiel*12 If KindOfIncome = 1 and TypeOfIncome = 2,3	Bartered is included here
CostCrop	vHHCostCultivation-Crops	Total3_15	Q05CC16
CostLivestock	vHHLivestock1 vHHLivestock2	TotalPaidBought12Months + AmountInRiels	Q05E1C10 Q05E2C03
CostFish	vHHFish-Cultivation1 vHHFish-Cultivation2	MonthlyRentPond*12 + AmountSpent	Q05F1C05 Q05F2C03
CostForestry	vHHForestry-Hunting2	ExpActivity12M	Q05G2C03
ReceiptCrop	vHHProductionCrops	(ProducedOrHarvested – PostHarvestLoss) * SalesPriceCropsProduced	Q05BC06 Q05BC07 Q05BC09
ReceiptLivestock	vHHLivestock1	ValueSoldPast12Months + (ConsumedInHHPast12Months + UseForBarterGiftCharity + ValueLivestockProductsSold + ValueLivestockProductsConsumed + ValueLivestockUsedAsGifts)	Q05E1C09 Q05E1C11 -C15
ReceiptFish	vHHFish-Cultivation3	AmountReceived	Q05F3C03
ReceiptForestry	vHHForestry-Hunting1	TotalAmountRiels	Q05G1C06
AgriIncome **(IncomeType 2)**		**(ReceiptCrop + ReceiptLivestock + ReceiptFish + ReceiptForestry) minus (CostCrop + CostLivestock + CostFish + CostForestry + InterestPaidAgri)**	(see below)

CostNonAgri	vHHNonAgri-culture2	(Activity1 + Activity2 + Activity3 + Activity4 + Activity5 + Activity6) + InterestPaidNonAgri	Q05H2C03-C08 (see below)
ReceiptNonAgri	vHHNonAgri-culture3	(Activity1 + Activity2 + Activity3 + Activity4 + Activity5 + Activity6) If RevenueNumber is not 13	Q05H3C03-C08 Q05H3C01 13 is separate
NonAgriIncome **(IncomeType 3)**		**ReceiptNonAgri minus CostNonAgri**	
IncomeOwnHouse **(IncomeType 4)**	vHHConstruction vHHLiabilities	3% of (HowMuchToBuyBuilding – (RemainingLoan/100+ MonthlyRateInterest)) If PrimaryPurposeBorrMoney = 7	Q08_C05 Q06_C07 Q06_C08 Q06_C05
BankInterest	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 7	Q07_C05 Q07_C01
InterestOther-Loans	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 9	Q07_C05 Q07_C01
Dividends	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 8	Q07_C05 Q07_C01
RentFromLand	vHHNonAgriculture3	(Activity1 + Activity2 + Activity3 + Activity4 + Activity5 + Activity6) If RevenueNumber = 13	Q05H3C03-C08 Q05H3C01
GrossProperty-Income		**BankInterest + InterestOtherLoans + Dividends + RentFromLand**	
InterestPaid-Agri	vHHLiabilities	MonthlyRateInterest * RemainingLoan/(100+ MonthlyRateInterest) If PrimaryPurposeBorrMoney = 1	Q06_C08 Q06_C07 Q06_C08 Q06_C05
InterestPaid-NonAgri	vHHLiabilities	MonthlyRateInterest * RemainingLoan/(100+ MonthlyRateInterest) If PrimaryPurposeBorrMoney = 2	Q06_C08 Q06_C07 Q06_C08 Q06_C05
InterestPaid-OwnOccupied	vHHLiabilities	MonthlyRateInterest * RemainingLoan/(100+ MonthlyRateInterest) If PrimaryPurposeBorrMoney = 7	Q06_C08 Q06_C07 Q06_C08 Q06_C05
InterestPaid Net	vHHLiabilities	MonthlyRateInterest * RemainingLoan/(100+ MonthlyRateInterest) If PrimaryPurposeBorrMoney = 3-6 or 8-10	Q06_C08 Q06_C07 Q06_C08 Q06_C05

PropertyIncome **(IncomeType 5)**		**GrossPropertyIncome - InterestPaidNet**	
PrimaryIncome		**Salary + AgriIncome + NonAgriIncome + IncomeOwnHouse + PropertyIncome**	
PensionDomestic **(IncomeType 6)**	vHHIncomeOther-Source	WithinCambodia If SourceNumber = 1	Q07_C03 Q07_C01
PensionAbroad **(IncomeType 8)**	vHHIncomeOther-Source	FromAbroad If SourceNumber = 1	Q07_C04 Q07_C01
Pension		**PensionDomestic + PensionAbroad**	
NGOtransfers **(IncomeType 9)**	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 5	Q07_C05 Q07_C01
RemittanceDomestic **(IncomeType 10)**	vHHIncomeOther-Source	WithinCambodia If SourceNumber = 2	Q07_C03 Q07_C01
RemittanceAbroad **(IncomeType 11)**	vHHIncomeOther-Source	FromAbroad If SourceNumber = 2	Q07_C04 Q07_C01
TotalPrivateTransfers		**RemittanceDomestic + RemittanceAbroad**	
ScholarshipGovernment	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 3	Q07_C05 Q07_C01
ScholarshipNGO	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 4	Q07_C05 Q07_C01
TotalScholarship **(IncomeType 7)**		**ScholarshipGovernment + ScholarshipNGO**	
Gifts **(IncomeType 12)**	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 10, 11	Q07_C05 Q07_C01
OtherTransfer **(ncomeType 13)**	vHHIncomeOther-Source	AmountRielsTotal If SourceNumber = 12, 13, 14, 15	Q07_C05 Q07_C01
TotalTransfers		**TotalPrivateTransfers + TotalScholarship + Gifts + OtherTransfer + NGOtransfers + Pension**	
TotalIncome		**PrimaryIncome + TotalTransfers**	
WageRatio		**Salary / TotalIncome**	
AgriRatio		**AgriIncome / TotalIncome**	
OtherSelfEmpRatio		**(NonAgriIncome + IncomeOwnHouse) / TotalIncome**	
PropertyRatio		**PropertyIncome / TotalIncome**	
TransfersRatio		**TotalTransfers / TotalIncome**	

DiaryTaxes **(IncomeType 14)**	vDiary-Expenditure	Value * 12 If Purpose = 9	Diary-Exp_Q7, Diary-Exp_Q10 **Is also calc. from Recall**
DiaryInterHHtransfers **(IncomeType 15)**	vDiary-Expenditure	Value * 12 If Purpose = 7 and Acquisition = 1,2	Diary-Exp_Q7, Diary-Exp_Q10 **Is also calc. from Recall**
DiaryCashTransferChar **(IncomeType 16)**	vDiary-Expenditure	Value * 12 If Purpose = 8 and Acquisition = 1	Diary-Exp_Q7, Diary-Exp_Q10 **Is also calc. from Recall**
DiaryTotalNegativeTransfers		**DiaryTaxes + DiaryInterHHtransfers + DiaryCashTransferChar**	
DisposableIncome		**TotalIncome minus DiaryTotalNegativeTransfers**	**Only used when diary data and recall data are combined**
DiaryCostAgri	vDiary-Expenditure	(Value * 12 if Purpose = 2) + (Value * 12 if Item = 8117 and Purpose is not 2)	Diary-Exp_Q7, Diary-Exp_Q10, Diary-Exp_Q11
DiaryReceiptAgri	vDiaryIncome	ValueRiel * 12 If ItemCode = 201,202,203,204,205,206,207, 208,301,302,303,304	Diary Inc_Q7, Diary Inc_Q10
DiaryAgriIncome		**DiaryReceiptAgri minus DiaryCostAgri**	
DiaryCostNonAgri	vDiary-Expenditure	(Value * 12 if Purpose = 3,4,5) + (Value * 12 if Item = 8212 and Purpose is not 3,4,5)	Diary-Exp_Q7, Diary-Exp_Q10, Diary-Exp_Q11
DiaryReceiptNonAgri	vDiaryIncome	ValueRiel * 12 if ItemCode = 401,402,501-514,599	Diary Inc_Q7, Diary Inc_Q10

DiaryNonAgriIncome		**DiaryReceiptNonAgri minus DiaryCostNonAgri**	

DiaryBankInterest	vDiaryIncome	ValueRiel * 12 If ItemCode = 1002	Diary Inc_Q7, Diary Inc_Q10
DiaryInterestOtherLoans	vDiaryIncome	ValueRiel * 12 If ItemCode = 1006	Diary Inc_Q7, Diary Inc_Q10
DiaryDividends	vDiaryIncome	ValueRiel * 12 If ItemCode = 1001	Diary Inc_Q7, Diary Inc_Q10
DiaryOtherFinancialAccount	vDiaryIncome	ValueRiel * 12 If ItemCode = 1003,1004,1005,1007,1099	Diary Inc_Q7, Diary Inc_Q10
DiaryGrossPropertyIncome		**DiaryBankInterest + DiaryInterestOtherLoans + DiaryDividends + DiaryOtherFinancialAccount**	
DiaryPropertyIncome		**DiaryGrossPropertyIncome**	DiaryIPNet does not exist
DiaryPrimaryIncome		**DiarySalaryCash + DiarySalaryInKind + DiaryAgriIncome + DiaryNonAgriIncome + DiaryPropertyIncome**	
DiaryPensionDomestic	vDiaryIncome	ValueRiel * 12 If ItemCode = 901	Diary Inc_Q7, Diary Inc_Q10
DiaryPensionAbroad	vDiaryIncome	ValueRiel * 12 If ItemCode = 902	Diary Inc_Q7, Diary Inc_Q10
DiaryPension		**DiaryPensionDomestic + DiaryPensionAbroad**	
DiaryInsuranceDomestic	vDiaryIncome	ValueRiel * 12 If ItemCode = 903	Diary Inc_Q7, Diary Inc_Q10
DiaryInsuranceAbroad	vDiaryIncome	ValueRiel * 12 If ItemCode = 904	Diary Inc_Q7, Diary Inc_Q10
DiaryNGOTransfers	vDiaryIncome	ValueRiel * 12 If ItemCode = 905 and 999	Diary Inc_Q7, Diary Inc_Q10

DiaryRemittanceDomestic	vDiaryIncome	ValueRiel * 12 If ItemCode = 801	Diary Inc_Q7, Diary Inc_Q10
DiaryRemittanceAbroad	vDiaryIncome	ValueRiel * 12 If ItemCode = 802	Diary Inc_Q7, Diary Inc_Q10
DiaryTotalPrivateTransfers		**DiaryRemittanceDomestic + DiaryRemittanceAbroad**	
DiaryScholarship	vDiaryIncome	ValueRiel * 12 If ItemCode = 1101,1102,1103,1199	Diary Inc_Q7, Diary Inc_Q10
DiaryGifts	vDiaryIncome	ValueRiel * 12 If TypeOfIncome = 2,3 and ItemCode = 701	Diary Inc_Q7, Diary Inc_Q10
DiaryOtherTransfers	vDiaryIncome	ValueRiel * 12 If ItemCode = 1299	Diary Inc_Q7, Diary Inc_Q10
DiaryTotalTransfers		**DiaryPension + DiaryInsuranceDomestic + DiaryInsuranceAbroad + DiaryNGOTransfers + DiaryTotalPrivateTransfers + DiaryScholarship + DiaryGifts + DiaryOtherTransfers**	
DiaryTotalIncome		**DiaryPrimaryIncome + DiaryTotalTransfers**	
DiaryDisposableIncome		**DiaryTotalIncome minus DiaryTotalNegativeTransfers**	
TotalNegativeTransfers	vHHRecallNonFood	**Taxes on income +** **Taxes on property +** **Interhousehold transfers +** **Transfers to charity**	Q01CC06 RowNo 22 23 21 20
DisposableIncome_Recall		**TotalIncome minus TotalNegativeTransfers**	

Rules for Income Types

Variable in STR database HHIncome *(Only from recall)*		**Income Type 2**	**Income Type 1**	**Variables in IncomeHousehold in STR**
Primary Income			1 = 1-5	
	Salary	1		Salary
	Income from agriculture	2		AgriIncome
	Income from non-agriculture	3		NonAgriIncome
	Income from owner occupied house	4		IncomeOwnHouse
	Property income	5		PropertyIncome
Governmental transfers			2 = 6-7	
	Domestic pensions	6		PensionDomestic
	Scholarships	7		TotalScholarship
Other received transfers			3 = 8-13	
	Pensions from abroad	8		PensionAbroad
	NGO transfers	9		NGOtransfers
	Domestic Remittances	10		RemittanceDomestic
	Remittances from abroad	11		RemittanceAbroad
	Gifts received	12		Gifts
	Other transfers	13		OtherTransfer
Negative transfers from recall			4 = 14-16	TotalNegativeTransfers
	Taxes	14		Q01CC05 RowNo 22 , 23
	Interhousehold cash transfers	15		Q01CC05 RowNo 21
	Cash transfers to charities	16		Q01CC05 RowNo 20