# Users' Manual for Handling Resampled Micro Data of the Fourth Expenditure and Consumption Survey (LECS4) 2007 in Lao PDR

Version 1.2

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

## History of revision of the manual

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#### 1. About this Manual

1. This manual was prepared for users to use the next <u>80% resampled micro data</u> sets of Lao PDR Expenditure and consumption survey 2007/08 (LECS4).

R data frame	CSV data file	nrow	ncol	Original file name	Unit	Questionnaire
ННВ80	HHB80.csv	6,636	39	HhHouseholds	Household	Household business: summary of VIII, X, XI, XII, XIV, XV and XVI
IND80	IND80.csv	38,439	22	HhComposition	Individual	Household Questionnaire/ I Household composition
EDU80	EDU80.csv	33,196	56	HhEducation	Individual	Household Questionnaire/
INC80	INC80.csv	3,252	31	HhIncome	Individual	Household Questionnaire/ XV Income and transfers
DIA80	DIA80.csv	1,085,932 (*)	28	HhDiarySheet	Household, Transaction	Diary Sheet
DUR80	DUR80.csv	67,056	16	HhDurables	Household, Durables	Household Questionnaire/ VIII Household possession of durables
Housing80	Hosing80.csv	6,636	37	HhHousing	Household	Household Questionnaire/ IX Housing conditions
Purchase80	Purchase80.csv	10,140	17	HhPurchase1	Household, Durables	Household Questionnaire/ XIV Households' purchase and selling of durables

Note: The number of rows of DIA80.csv is over the limitation (1,048,576) of Excel.

- 2. The original micro data sets composed of all the samples were provided by Lao Department of Statistics based on the Charter for Experimental Laboratory for Research Purpose Statistical Use of Micro Data. They were reorganized 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 R and CSV format. CSV files are readable by Excel as well as any statistical software.
- 4. This manual was first compiled in September 2017 by;

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## 2. Outline of the Survey

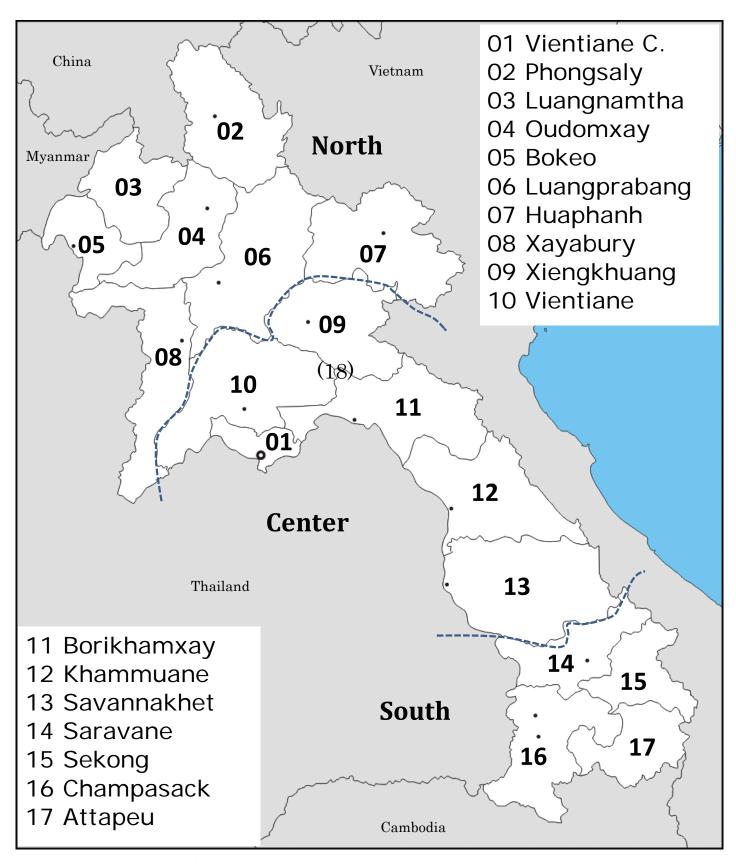
Based on the survey report, the outline of LECS4 2007/08 was summarized as the next.

Objectives of the	The purpose of the expenditure and consumption survey (LECS) is to
survey	estimate the expenditure and consumption of household as well as
	production, investment, accumulation and other socio-economic aspects
	of the households in the formal and informal sector of the economy.
	The main objectives of this survey are:
	- Estimation at macro level for national accounts, including private
	consumption, household investment, production and income from
	agriculture and household business;
	- Structure of household consumption (weight system) for consumption
	price index calculation (CPI);
	- Estimation on labor force;
	- Nutrition statistic;
	- Poverty statistics and statistics of income distribution.
Topics covered by	The scope of LECS4 includes; Households, Time use, Prices, Villages and
the survey	Diary.
	HOUSEHOLDS: Household consumption, parents, education, labour
	force participation, victimization, nutrition, health check, possession of
	durables and assets, housing conditions, household businesses,
	agricultural households, health status and services, health costs, purchases
	and selling of durables, incomes and transfers, borrowing and lending by
	households.
	DIARY: All household transactions during sampled months. Transactions
	covered consumption/ expenditure, household business, agriculture and
	investment outlays.
	• TIME USE: Time spent for a period of 24 hours for 22 activities
	PRICES: Prices for 92 basic goods and services recorded in nearest local
	market
	VILLAGES: Demography, general economic conditions, access to
	services, agriculture, prices
Frequency of the	Every five years.
survey	The present round of surveys started from 1992.
Survey period	The survey was undertaken from April 2007 to March 2008 (for a period of 12
	months), in order to be able to provide data on expenditure and consumption
	covering all seasons and relating to aspects of every area and region in the Lao
	PDR

## Coverage of the The universe is all private households in Lao PDR. Geographic coverage is as follows; survey - National - Urban/Rural - Rural villages with access to road/ rural villages without access to road - Three Regions; North, Center and South Sample design Two stage sampling method was employed; 1) PSU The first step was selection of sample villages using the zoom selection methodology [sic] according to the PPS. Strata were province, district, rural area with access to road and rural area without access to road. The number of sample villages in each province is in between 17 to 48 villages depending on the number of villages, and the number of households in every survey area. The number of sample villages was 518. 2) SSU In each sample village, 16 households were selected. Half of the number of households were the same as households that were surveyed in the LECS3, and the other half were new households that previously were not surveyed. Selection of the 8 sample households from the survey of LECS3 used the zoom methodology on arbitrary basis by taking part in a lottery among LECS3 households. New 8 sample households were selected among the other households in the village using the same methodology. Together the number of sample households in one village was 16. In total, the number of sample households was 8,296. Data collection Data collection was carried out for each household during one month. method A diary was used for daily recording of each transaction for expenditure and consumption. For other parts of the survey, the enumerator conducted interviews with members of the household. The field work was conducted for a period of 12 months starting from April 2007 to March 2008. Enumerators were always being on place in the village during the survey was undertaken in the respective village. After completing field data collection, the supervisor checked for missing data and data coincidence. Estimation Weight variables were given in each data file. Publication "Survey results on expenditure and consumption of households 2007/2008 LECS 4" in May 2009

Technical and	Technical assistance by Statistics Sweden and financial assistance by SIDA.
financial	
assistance	

## **Provinces Map**



Note: The above map of 17 provinces was used for the report on survey results. The number of provinces at the time of field work was 18.

## 3. Data and metadata provided by NSO

The following 6 micro data files and metadata were provided to Sinfonica by Lao Department of Statistics on the occasion of the International Workshop held at Kawagoe in 2012.

#### □ Data

Original micro data files in SPSS format						
Original file name	nrow	ncol	Unit	Questionnaire		
HhHouseholds.sav	8,296	33	Household	Household business: summary of VIII, X, XI, XII, XIV, XV and XVI		
HhComposition.sav	48,021	19	Individual	Household Questionnaire/ I Household composition		
HhEducation.sav	41,455	53	Individual	Household Questionnaire/ III Education		
HhIncome.sav	4,126	28	Individual	Household Questionnaire/ XV Income and transfers		
HhDiarySheet.sav	1,358,317	19	Household, Transaction	Diary Sheet		
HhDurables.sav	83,753	13	Household, Durables	Household Questionnaire/ VIII Household possession of durables		

#### ☐ Metadata

Questionnaire		Remarks
	LECS4 Household_Eng.pdf	Household questionnaire in English (37 pages)
LECS4 Diary Sheet.pdf		Diary sheet in English (3 pages)
	ItemforDiarySheet.xlsx	List of Diary item codes and names

Additional two micro data files were provided upon request on the occasion of 2017 Workshop.

Original file name	nrow	ncol	Unit	Questionnaire
HhHousing.sav	8,296	37	Household	Household Questionnaire/ IX Housing conditions
HhPurchase1.sav	12,609	17	Household, Durables	Household Questionnaire/ XIV Households' purchase and selling of durables

	Website of Lao Department of Statistics					
	http://www.lsb.gov.la/nada/index.php/catalog	(at the time of 2013, but not available in 2017)				
NA	DA	Remarks				
	LECSIV Study Documentation v104.pdf	in English				
Sur	vey documents in Lao					
	LECSIV_Definition_Lao.pdf					
	LECSIV_HowtowriteQuestionnaire_Lao.pdf					
	LECSIV_Manual_Lao,pdf					
Oth	er					
	en_lecs4.pdf	Outline of the survey in English				
Sur	vey report					
	1update report lecs 4 final_20_7_2010.pdf					
	Website of Lao Statistics Bureau					
http	://www.lsb.gov.la/lsb/en/report-census-and-surv	ey/ (Accessed on 9 September 2017)				
The	survey report is available;					
1up	1update report lecs 4 final_20_7_2010.pdf					
	IHSN					
	http://catalog.ihsn.org/index.php/catalog/198/d	ata_dictionary				

The following documents are available.

#### Documentation

Download the questionnaires, technical documents and reports that describe the survey process and the key results for this study.

#### Questionnaires Lao Expenditure and Consumption Survey 2007/2008 - Household Questionnaire ₽ 254.01 KB ₽ 254.65 KB Lao Expenditure and Consumption Survey 2007/2008 - Diary Sheet Lao Expenditure and Consumption Survey 2007/2008 - Time Use Questionnaire ₹ 254.66 KB ■ Lao Expenditure and Consumption Survey 2007/2008 - Village Questionnaire № 297.14 KB Lao Expenditure and Consumption Survey 2007/2008 - Price Questionnaire № 32.87 KB **Technical Documents №** 8.09 MB Survey Description Items, Ethnic Group, and Province Codes 114.57 KB **№** 306.81 KB Expenditure and Consumption Survey 2007/2008 - Field Supervision Manual ₽ 833.6 KB Manual Data Dictionary

Remarks: Province code and new province code is listed in the above.

## 4. Data import

#### **Strategy**

- 1) To import SPSS files into R.
- 2) The household identifier variable "HhID" exists in each file.
- 3) The household weight variable "Hhweight" exists in each file.

### Original data files

Micro data files provided to Sinfonica were the next 8 files in SPSS format.

Lao Expenditure and Consumtion Survey 2007/2008 (LESC4)

No	File Name in SPSS	Size (KB)	Data frame in R
1	I. HhComposition.sav	5,484	IND
2	HhDiary Sheet.sav	148,222	DIA
3	VIII. HhDurables.sav	6,374	DUR
4	III. HhEducation.sav	6,686	EDU
5	HhHouseholds.sav	2,094	ННВ
6	XV. HhIncome.sav	457	INC
7	HhHousing.sav	1,745	Housing
8	HhPurchase1.sav	1,859	Purchase

> The above files were imported into R software.

```
> list. files()
[1] "HhComposition.sav" "HhDiary Sheet.sav" "HhDurables.sav"
[4] "HhEducation. sav"
                         "HhHouseholds. sav" "HhIncome. sav"
> library(foreign)
> IND<-data.frame(read.spss("HhComposition.sav", use.value.labels=F))
> dim(IND)
[1] 48021
              19
> DIA<-data. frame (read. spss ("HhDiary Sheet. sav", use. value. labels=F))
> dim(DIA)
[1] 1358317
                  19
> DUR<-data. frame (read. spss ("HhDurables. sav", use. value. labels=F))
> dim(DUR)
[1] 83753
              13
> EDU<-data. frame (read. spss ("HhEducation. sav", use. value. labels=F))
> dim(EDU)
```

```
[1] 41455
              53
> HHB<-data. frame (read. spss ("HhHouseholds. sav", use. value. labels=F))
> dim(HHB)
[1] 8296
> INC<-data. frame (read. spss ("HhIncome. sav", use. value. labels=F))
> dim(INC)
[1] 4126
> Housing<-data.frame(read.spss("HhHousing.sav", use.value.labels=F))
> dim(Housing)
[1] 8296
> Purchase<-data. frame (read. spss ("HhPurchase1. sav", use. value. labels=F))
> dim(Purchase)
[1] 12609
             17
     Variable names of each data frame
> colnames (HHB)
 [1] "SerialNr"
                         "HhID"
                                                                "Province"
                                             "VillageID"
 [5] "DistrictID"
                                             "Hhnumber"
                                                                "Interview_Month"
                         "VillageType"
 [9] "P8"
                         "P10Q1a_1"
                                             "P10Q1a 2"
                                                                "P10Q1a 3"
[13] "P11Q1S1"
                         "P12S1Q1"
                                             "P12S3Dry"
                                                                "P12S3Wet"
[17] "P12S5Q1"
                         "P12S6Q1"
                                             "P12S7Q1"
                                                                "P12S7Q2"
[21] "P12S8Q1"
                         "P14S1"
                                             "P14S2"
                                                                "P14S3"
[25] "P14S4"
                         "P14S5"
                                             "P15"
                                                                "P16S1Q1"
[29] "P16S2Q1"
                         "Male"
                                                                "Total"
                                             "Female"
[33] "Hhweight"
> colnames (IND)
 [1] "SerialNr"
                         "HhID"
                                             "VillageID"
                                                                "Province"
 [5] "DistrictID"
                         "VillageType"
                                             "Hhnumber
                                                                "Interview_Month"
 [9] "PersID"
                                             "P102"
                                                                "P1Q3"
                         "PCode"
                         "P1Q4b"
                                             "P1Q4c"
                                                                "P1Q5"
[13] "P1Q4a"
[17] "P1Q6"
                         "P1Q7"
                                             "Hhweight"
> colnames (EDU)
 [1] "SerialNr"
                         "HhID"
                                             "VillageID"
                                                                "Province"
 [5] "DistrictID"
                         "VillageType"
                                             "Hhnumber"
                                                                "Interview_Month"
 [9] "PersID"
                                                                "P3Q2"
                         "PCode"
                                             "P3Q1"
[13] "P3Q3"
                                                                "P3Q5"
                         "P3Q4"
                                             "P3Q40ther"
[17] "P3Q6"
                                                                "P3Q8"
                         "P3Q7a"
                                             "P3Q7b"
[21] "P3Q80ther"
                         "P3Q9"
                                             "P3Q90ther"
                                                                "P3Q10"
[25] "P3Q11a"
                         "P3Q11b"
                                             "P3Q12"
                                                                "P3Q120ther"
[29] "P3Q14a"
                         "P3Q14b"
                                             "P3Q14c"
                                                                "P3Q14d"
[33] "P3Q14e"
                         "P3Q14f"
                                             "P3Q14g"
                                                                "P3Q14i"
[37] "P3Q14h"
                         "P3Q15"
                                             "P3Q16"
                                                                "P3Q17"
[41] "P3Q18a"
                         "P3Q18b"
                                             "P3Q19"
                                                                "P3Q190ther"
[45] "p3Q20"
                         "P3Q21"
                                             "P3Q22"
                                                                "P3Q23"
[49] "P3Q24"
                         "P3Q25"
                                                                "P3Q260ther"
                                             "P3Q26"
[53] "Hhweight"
> colnames (INC)
 [1] "PersID"
                         "HhID"
                                             "SerialNr"
                                                                "VillageID"
 [5] "DistrictID"
                                                                "Interview_Month"
                         "Province"
                                             "VillageType"
 [9] "P1Q2"
                         "P1Q3"
                                             "P1Q5"
                                                                "P1Q6"
[13] "P1Q7"
                         "Hhweight"
                                             "Incom800"
                                                                "Incom801"
                         "Incom803"
                                             "Incom804"
                                                                "Incom805"
[17] "Incom802"
[21] "Incom806"
                         "Incom807"
                                             "Incom808"
                                                                "Incom809"
```

"IncomeOth"

"Incom812"

"Incom811"

[25] "Incom810"

```
> colnames (DIA)
 [1] "SerialNr"
                        "HhID"
                                            "VillageID"
                                                                "Province"
 [5] "DistrictID"
                        "VillageType"
                                            "Hhnumber"
                                                                "Interview_Month"
 [9] "DiaryID"
                        "Page"
                                            "Serial_1"
                                                                "Unit"
[13] "Quantity"
                         "Kip"
                                             "Kind"
                                                                "Produced"
[17] "Purpose"
                         "Item"
                                            "Hhweight"
> colnames (DUR)
 [1] "HhID"
                         "SerialNr"
                                            "VillageID"
                                                                "DistrictID"
                                            "Interview_Month"
 [5] "Province"
                         "VillageType"
                                                               "Hhweight"
 [9] "DurCode"
                         "P8Q1a"
                                            "P8Q1b"
                                                                "P8Q2"
[13] "P80th"
> colnames (Housing)
                        {\it "HhID"}
 [1] "SerialNr"
                                            "VillageID"
                                                                "Province"
 [5] "DistrictID"
                                                                "Interview_Month"
                         "VillageType"
                                            "Hhnumber"
 [9] "P9Q1"
                        "P9Q10th"
                                            "P9Q2"
                                                                "P9Q3a"
[13] "P9Q3b"
                                            "P9Q4"
                                                                "P9Q40th"
                        "P9Q30th"
[17] "P9Q5"
                         "P9Q50th"
                                            "P9Q6a"
                                                                "P9Q6b"
[21] "P9Q7"
                         "P9Q7b"
                                            "P9Q8"
                                                                "P9Q80th"
[25] "P9Q9"
                         "P9Q10"
                                            "P9Q100th"
                                                                "P9Q11"
[29] "P9Q12"
                                            "P9Q13"
                        "P9Q120th"
                                                                "P9Q130th"
[33] "P9Q14"
                                            "P9Q15"
                         "P9Q140th"
                                                                "P9Q150th"
[37] "Hhweight"
> colnames (Purchase)
 [1] "SerialNr"
                        "HhID"
                                            "VillageID"
                                                                "Province"
 [5] "DistrictID"
                        "VillageType"
                                            "Hhnumber"
                                                                "Interview_Month"
 [9] "P14S1"
                        "ItemB"
                                            "Bought"
                                                                "KipB"
[13] "ItemB2080th"
                         "ItemB2370th"
                                            "ItemB2720th"
                                                                "ItemB3040th"
[17] "Hhweight"
```

#### Identifier

# The variable of HhID is household identifier and PersID is personal identifier.

- > length (unique (HHB\$HhID))
  [1] 8296
  > length (unique (IND\$HhID))
  [1] 8296
  > length (unique (EDU\$HhID))
  [1] 8296
- > length(unique(INC\$HhID))
- [1] 2571
- > length(unique(DIA\$HhID))
- [1] 8296
- > length(unique(DUR\$HhID))
- [1] 8282
- > length (unique (Housing\$HhID))
- [1] 8296
- > length(unique(Purchase\$HhID))
- [1] 5113
- > sum(duplicated(HHB\$HhID))
- [1] 0
- > sum(duplicated(IND\$PersID))
- [1] 0
- > sum(duplicated(EDU\$PersID))
- [1] 0
- > sum(duplicated(INC\$PersID))
- [1] 0

```
> sum(duplicated(DIA$SerialNr))
[1] 1350036
> sum(duplicated(DUR$HhID))
[1] 75471
> sum(duplicated(DUR$SerialNr))
[1] 75486

DiaryID is the unique identifier of data frame DIA.
> range(d$DiaryID)
[1] 1 1358869
> length(unique(d$DiaryID))
```

[1] 1358317

## Naming rule of variables

## PxxQyy

where, xx is the number of Part in Household questionnaire, yy is the number of Question

## For example;

P1Q2 is the second question of Part I. Household composition, that is, the relationship to household head.

#### 5. Data Check

#### 5.1 Structure of each data file

Structure of each data file

```
# Confirmed type of variables of each file
> file. list<-list(HHB, IND, EDU, INC, DIA, DUR, Housing, Purchase)
> file.names<-c("HHB","IND","EDU","INC","DIA","DUR","Housing","Purchase")
> for (i in 1:8) {
+ cat(c("\frac{"\frac{"}{"} + \frac{"}{"} + 
+ cat(c("> dim(", file. names[j], ")\forall n"))
+ print(dim(file.list[[j]]))
+ cat(c("\file.names[j],")\fin"))
+ print(str(file.list[[j]]))
+ }
##### HHB #####
> dim( HHB )
 [1] 8296
> str(HHB)
 data.frame':
                                 8296 obs. of 33 variables:
                                                                                                       ", "0000001", . . : 267 265 255 257 262 266 268 261
  $ SerialNr
                                    : Factor w/ 8281 levels ".
256 258 . . .
  $ HhID
                                     : Factor w/ 8296 levels "010100102", "010100103", . . : 1 2 3 4 5 6 7 8 9 10 . . .
                                     : Factor w/ 519 levels "0101001", "0101002", ...: 1 1 1 1 1 1 1 1 1 1 ...
  $ VillageID
  $ Province
                                     : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 . . .
                                     : Factor w/ 135 levels "0101", "0102", . . : 1 1 1 1 1 1 1 1 1 1 . . .
  $ DistrictID
  $ VillageType
                                    : num 111111111..
                                    : Factor w/ 31 levels "01", "02", "03", . . : 2 3 4 5 6 8 10 11 16 17 . . .
  $ Hhnumber
  : Factor w/ 2 levels "1", "2": 1 1 1 1 1 1 1 1 1 1 . . .
  $ P8
                                      : Factor w/ 2 levels "1", "2": 2 2 1 1 2 1 2 1 1 2 ...
  $ P10Q1a_1
                                     : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 2 2 2 . . .
  $ P10Q1a_2
                                     : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 2 2 2 ...
  $ P10Q1a_3
                                      : Factor w/ 2 levels "1", "2": 2 1 2 1 2 1 1 1 2 1 ...
  $ P11Q1S1
  $ P12S1Q1
                                      : Factor w/ 2 levels "1", "2": 1 2 2 2 2 2 1 2 2 2 ...
                                      : Factor w/ 2 levels "","1": 1 1 1 1 1 1 1 1 1 1 ...
  $ P12S3Dry
                                      Factor w/ 2 levels " ","2": 2 1 1 1 1 1 2 1 1 1 ...
  $ P12S3Wet
                                      : Factor w/ 2 levels "1", "2": 1 2 2 2 2 2 2 2 2 2 ...
  $ P12S5Q1
                                      : Factor w/ 2 levels "1", "2": 1 2 2 2 2 2 2 2 2 2 ...
  $ P12S6Q1
                                      : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 1 2 2 2 ...
  $ P12S7Q1
                                     : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 1 2 2 2 ...
: Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 1 2 2 2 ...
: Factor w/ 2 levels "1", "2": 1 2 2 1 2 2 2 1 2 2 ...
: Factor w/ 2 levels "1", "2": 2 1 1 1 1 2 2 1 1 1 ...
: Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 2 1 2 2 ...
  $ P12S7Q2
  $ P12S8Q1
  $ P14S1
  $ P14S2
                                     : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 2 2 2 . . .
  $ P14S3
                                     : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 2 2 2 ...
  $ P14S4
                                     : Factor w/ 2 levels "1", "2": 2 2 2 2 2 2 2 2 2 2 ...
  $ P14S5
  $ P15
                                      : Factor w/ 2 levels "1", "2": 1 1 1 1 1 1 1 1 1 1 ...
```

```
$ P16S1Q1
                 : Factor w/ 2 levels "1", "2": 1 2 2 2 1 1 2 2 2 2 ...
                 : Factor w/ 2 levels "1", "2": 2 2 2 2 1 2 2 2 2 2 ...
 $ P16S2Q1
                 : num 4 2 2 2 3 1 4 2 3 1 ...
 $ Male
                 : num 3 4 2 2 3 6 4 4 1 3 ...
$ Female
$ Total
                 : num 7 6 4 4 6 7 8 6 4 4 ...
                 : num 174 174 174 174 174 ...
$ Hhweight
NULL
##### IND #####
> dim( IND )
[1] 48021
> str( IND )
               48021 obs. of 19 variables:
'data.frame':
                 : Factor w/ 8281 levels ".
                                                ", "0000001", . . : 267 267 267 267 267 267 267 265
$ SerialNr
265 265 . . .
$ HhID
                 : Factor w/ 8296 levels "010100102", "010100103", ...: 1 1 1 1 1 1 1 2 2 2 ....
                 : Factor w/ 519 levels "0101001", "0101002", . . : 1 1 1 1 1 1 1 1 1 1 1 . . . : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ VillageID
$ Province
                 : Factor w/ 135 levels "0101", "0102", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ DistrictID
$ VillageType
                 : Factor w/ 31 levels "01", "02", "03", . . : 2 2 2 2 2 2 3 3 3 . . .
$ Hhnumber
 : Factor w/ 48021 levels "01010010201",...: 1 2 3 4 5 6 7 8 9 10 ....
 $ PersID
                 : Factor w/ 27 levels "01", "02", "03", . . : 1 2 3 4 5 6 7 1 2 3 . . .
$ PCode
$ P1Q2
                 : num 1277444124...
 $ P1Q3
                 : num 1 2 1 2 1 2 1 1 2 2 ...
 $ P1Q4a
                 : num 1 17 15 10 10 1 20 10 2 4 ...
 $ P1Q4b
                        12 2 11 10 5 5 1 6 2 10 ...
                 : num
                 : num 1952 1965 1973 1975 1987 ...
 $ P1Q4c
$ P1Q5
                 : num 55 42 34 32 20 17 14 49 60 38 ...
$ P1Q6
                 : num 2 2 1 1 1 1 1 2 2 1 ...
$ P1Q7
                 $ Hhweight
                 NULL
##### EDU #####
> dim( EDU )
[1] 41455
            53
> str(EDU)
data.frame':
               41455 obs. of 53 variables:
$ SerialNr
                 : Factor w/ 8281 levels ".
                                                ", "0000001", . . : 267 267 267 267 267 267 267 265
265 265 ...
                 : Factor w/ 8296 levels "010100102", "010100103", ...: 1 1 1 1 1 1 2 2 2 ....
$ HhID
                 : Factor w/ 519 levels "0101001", "0101002", . . : 1 1 1 1 1 1 1 1 1 1 . . .
 $ VillageID
                 : Factor w/ 18 levels "01", "02", "03", ...: 1 1 1 1 1 1 1 1 1 1 1 ...
 $ Province
                 : Factor w/ 135 levels "0101", "0102", ...: 1 1 1 1 1 1 1 1 1 1 1 ...
 $ DistrictID
 $ VillageType
                 : num 1111111111...
                 : Factor w/ 31 levels "01", "02", "03", . . : 2 2 2 2 2 2 2 3 3 3 . . .
 $ Hhnumber
 : Factor w/ 41455 levels "01010010201",..: 1 2 3 4 5 6 7 8 9 10 ...
 $ PersID
                 : Factor w/ 22 levels "01", "02", "03", . . : 1 2 3 4 5 6 7 1 2 3 . . .
 $ PCode
 $ P3Q1
                 : num 1 1 1 1 1 1 1 1 1 1 ...
```

```
$ P3Q2
                   : num 1 1 1 1 1 1 1 1 1 1 ...
 $ P3Q3
                         11111111111...
                   : num
 $ P3Q4
                          NA NA NA NA NA NA NA NA NA . . .
                   : num
                   : Factor w/ 84 levels "9" □7∃/ °¥xf5",...: 6 6 6 6 6 6 6 6 6 6 ...
 $ P3Q40ther
 $ P3Q5
                   : num 2 2 2 2 2 2 1 2 2 2 ...
 $ P3Q6
                   : num
                          3 3 3 3 3 3 2 3 3 3 . . .
                   : num
 $ P3Q7a
                          NA NA NA NA NA NA 2 NA NA NA ...
 $ P3Q7b
                          NA NA NA NA NA 1 NA NA NA ...
                   : num
 $ P3Q8
                          NA NA NA NA NA NA 2 NA NA NA . . .
                   : num
 $ P3Q80ther
                   : num
                          NA NA NA NA NA NA NA NA NA . . .
 $ P3Q9
                          NA NA NA NA NA NA NA NA NA . . .
                          NA NA NA NA NA NA NA NA NA . . .
 $ P3Q90ther
                   : num
 $ P3Q10
                          1960 1973 1979 1982 1993 ...
                   : num
 $ P3Q11a
                   : num
                          2 2 2 2 2 2 2 3 1 1 ...
                          1 3 3 3 3 3 1 3 5 5 ...
 $ P3Q11b
                   : num
 $ P3Q12
                   : num
                          NA NA NA NA 3 6 NA NA NA NA ...
                   : Factor w/ 48 levels "」□∃メッ□。スェ¥xf2 "...: 12 12 12 12 12 12 12 12 12 12 ...
 $ P3Q120ther
 $ P3Q14a
                   : num 0 0 0 0 0 0 720000 0 0 0 ...
 $ P3Q14b
                   : num
                          0 0 0 0 0 0 180000 0 0 0 . . .
 $ P3Q14c
                   : num
                          0 0 0 0 0 0 210000 0 0 0 . . .
                          0 0 0 0 0 0 50000 0 0 0 ...
 $ P3Q14d
                   : num
 $ P3Q14e
                          0 0 0 0 0 0 40000 0 0 0 . . .
                   : num
 $ P3Q14f
                   : num
                          0 0 0 0 0 0 2700000 0 0 0 . . .
 $ P3Q14g
                          0 0 0 0 0 0 0 0 0 0 ...
                   : num
 $ P3Q14i
                   : num
                          0 0 0 0 0 0 0 0 0 0 ...
 $ P3Q14h
                   : num
                          0 0 0 0 0 0 3900000 0 0 0 . . .
 $ P3Q15
                   : num
                          NA NA NA NA NA NA 2 NA NA NA . . .
 $ P3Q16
                          NA . . .
                   : num
 $ P3Q17
                   : num
                          0 0 0 0 0 0 2 0 0 0 ...
 $ P3Q18a
                          NA . . .
                   : num
 $ P3Q18b
                          NA NA NA NA NA 5 NA NA NA ...
                   : num
 $ P3Q19
                   : num
                          NA NA NA NA NA NA 3 NA NA NA ...
                          NA ...
                   : num
 $ P3Q190ther
 $ p3Q20
                          NA NA NA NA NA 1 NA NA NA ...
                   : num
 $ P3Q21
                   : num
                          NA NA NA NA NA NA 2 NA NA NA ...
 $ P3Q22
                   : num
                          NA NA NA NA NA 1 NA NA NA ...
 $ P3Q23
                          NA NA NA NA NA NA 2 NA NA NA ...
                   : num
 $ P3Q24
                          0\; 0\; 0\; 0\; 0\; 0\; \mathsf{NA}\; 0\; 0\; 0\; \dots
                   : num
 $ P3Q25
                   : num
                          NA NA NA NA NA NA NA NA NA . . .
                          NA . . .
 $ P3Q26
                   : num
                          NA . . .
 $ P3Q260ther
                   : num
 $ Hhweight
                   : num
                         NULL
##### INC #####
> dim( INC )
[1] 4126
> str(INC)
'data.frame':
                 4126 obs. of 28 variables:
                   : Factor w/ 4126 levels "01010010201",...: 1 2 3 4 5 6 7 8 9 10 ...
 $ PersID
                  : Factor w/ 2571 levels "010100102", "010100103", . . : 1 1 1 1 1 2 2 3 3 . . . : Factor w/ 2570 levels ". ", "0000001", . . : 184 184 184 184 184 184 182 1
 $ HhID
                                                   ", "0000001", . . : 184 184 184 184 184 184 182 182
 $ SerialNr
173 173 . . .
 $ VillageID
                   : Factor w/ 416 levels "0101001", "0101002", . . : 1 1 1 1 1 1 1 1 1 1 . . .
```

```
$ DistrictID
                : Factor w/ 126 levels "0101", "0102", ...: 1 1 1 1 1 1 1 1 1 1 1 ...
 $ Province
                 : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 . . .
 $ VillageType
                : num 111111111...
 $ P102
                : num
                       1 2 7 7 4 4 4 4 1 2 ...
 $ P1Q3
                 : num
                       1 2 1 2 1 2 2 1 1 2 ...
$ P1Q5
                : num
                       55 42 34 32 20 17 22 18 50 46 ...
 $ P1Q6
                : num
                       2 2 1 1 1 1 1 1 2 2 ...
$ P1Q7
                $ Hhweight
                : num
                       $ Incom800
                 : num
                       17000 580000 550000 550000 550000 . . .
 $ Incom801
                       NA NA NA NA NA NA NA NA NA ...
                 : num
 $ Incom802
                 : num
                       NA NA NA NA NA NA NA 7e+05 NA ...
                       NA NA NA NA NA NA NA NA NA ...
 $ Incom803
                 : num
                       NA ...
 $ Incom804
                 : num
 $ Incom805
                       NA ...
                 : num
 $ Incom806
                 : num
                       NA NA NA NA NA NA NA NA NA ...
 $ Incom807
                 : num
                       NA NA NA NA NA NA NA NA NA ...
 $ Incom808
                 : num
                       NA ...
 $ Incom809
                 : num NA ...
 $ Incom810
                : num NA ...
                 : num NA ...
 $ Incom811
                 : num NA NA NA NA NA NA NA NA NA ...
$ Incom812
 $ IncomeOth
                 : Factor w/ 22 levels "タョノィ¥xec ノシ、・セ。ツササシュ
                                                            "...: 4 4 4 4 4 4 4 4 4 4 ...
NULL
##### DIA #####
> dim( DIA )
[1] 1358317
               19
> str( DIA )
data.frame':
               1358317 obs. of 19 variables:
                                              ", "0000001", . . : 267 267 267 267 267 267 267 267
$ SerialNr
                : Factor w/ 8281 levels ".
267 267 ...
                : Factor w/ 8296 levels "010100102", "010100103", ...: 1 1 1 1 1 1 1 1 1 1 ...
$ HhID
                 : Factor w/ 519 levels "0101001", "0101002", . . : 1 1 1 1 1 1 1 1 1 1 1 . . .
$ VillageID
                 : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ Province
                 : Factor w/ 135 levels "0101", "0102", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ DistrictID
                 : num 1111111111...
 $ VillageType
                : Factor w/ 31 levels "01", "02", "03", . . : 2 2 2 2 2 2 2 2 2 2 . . .
 $ Hhnumber
 $ DiaryID
                : num 593536 593537 593538 593539 593540 ...
 $ Page
                 : num 14 14 14 13 13 13 13 13 13 13 ...
                                             ", "0000001", . . : 288 288 288 288 288 288 288 288 288
 $ Serial_1
                : Factor w/ 8754 levels "
288 288 ...
$ Unit
                : num 18 18 5 1 5 18 8 18 18 10 ...
 $ Quantity
                : num 10 1 2 0.8 1 1 1 4 1 1 ...
 $ Kip
                 : num 10000 3000 2000 10500 5000 10000 10000 4000 3000 1000 ...
 $ Kind
                : num 1 1 1 1 1 1 1 1 1 1 ...
 $ Produced
                 : num 1 1 1 1 1 1 1 1 1 1 ...
$ Purpose
                 : num 2 2 2 2 2 2 2 2 2 2 . . .
 $ Item
                 : Factor w/ 443 levels "Glutinous rice",...: 322 321 11 12 322 284 271 322 321
340 . . .
$ Hhweight
                NULL
```

```
##### DUR #####
> dim( DUR )
[1] 83753
> str( DUR )
'data.frame':
               83753 obs. of 13 variables:
                : Factor w/ 8282 levels "010100102", "010100103", ...: 1 1 1 1 1 1 1 1 1 1 ...
$ HhID
                 : Factor w/ 8267 levels ". ","0000001",...: 267 267 267 267 267 267 267 267
$ SerialNr
267 267 . . .
                : Factor w/ 519 levels "0101001", "0101002", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ VillageID
                 : Factor w/ 135 levels "0101", "0102", ...: 1 1 1 1 1 1 1 1 1 1 1 ...
$ DistrictID
                 : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ Province
                : num 1111111111...
 $ VillageType
 $ Hhweight
                $ DurCode
                 : num 1 5 8 12 13 14 22 25 26 30 ...
                 : num NA 0 0 0 0 NA 0 0 0 NA . . .
 $ P8Q1a
$ P8Q1b
                 : num 1411212611...
$ P8Q2
                 : num 84000000 18480000 600000 100000 10000 ...
$ P80th
                 : num NA ...
NULL
>
##### Housing #####
> dim(Housing )
[1] 8296 37
> str(Housing)
data.frame': 8296 obs. of 37 variables:
                : Factor w/ 8281 levels ".
                                               ", "0000001", . . : 267 265 255 257 262 266 268 261
$ SerialNr
256 258 ...
$ HhID
                 : Factor w/ 8296 levels "010100102", "010100103", ...: 1 2 3 4 5 6 7 8 9 10 ....
                : Factor w/ 519 levels "0101001", "0101002", ...: 1 1 1 1 1 1 1 1 1 1 ...
$ VillageID
                 : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ Province
$ DistrictID
                 : Factor w/ 135 levels "0101", "0102", . . : 1 1 1 1 1 1 1 1 1 1 1 . . .
 $ VillageType
               : num 111111111..
                : Factor w/ 31 levels "01", "02", "03", ...: 2 3 4 5 6 8 10 11 16 17 ...
 $ Hhnumber
 : Factor w/ 4 levels "1", "2", "3", "4": 1 1 1 1 1 1 1 1 1 1 . . .
 $ P9Q1
                 : Factor w/ 4 levels "9+□1+xec □7+0",...: 2 2 2 2 2 2 2 2 2 2 ...
 $ P9Q10th
 $ P9Q2
                 : num 5600000 4000000 4200000 8400000 8500000 4000000 10000000 8400000 8400000
3360000 . . .
                 : Factor w/ 10 levels " ", "0", "1", "2", . . : 3 6 3 3 3 3 3 3 3 . . .
$ P9Q3a
                 Factor w/ 10 levels "", "0", "1", "2", . . : 2 2 2 2 2 2 2 6 2 2 . . .
 $ P903b
 $ P9Q30th
                 : num NA ...
                 : Factor w/ 7 levels "1", "2", "3", "4", . . : 4 3 3 4 3 4 4 3 3 4 . . .
 $ P9Q4
                 : Factor w/ 56 levels "∃□₀ ス∃□¥xec ストエ/チッュ ",...: 3 3 3 3 3 3 3 3 3 ...
$ P9Q40th
                 : Factor w/ 7 levels "1", "2", "3", "4", . . : 2 4 2 2 1 2 2 2 1 . . .
 $ P9Q5
 $ P9Q50th
                 : Factor w/ 13 levels "
                                                                  ",..: 1 1 1 1 1 1 1 1 1 1 1 ...
 $ P906a
                 : num 5 41 36 7 10 10 7 15 9 10 ...
 $ P9Q6b
                 : num NA ...
 $ P9Q7
                 : num 105 81 144 56 54 91 90 64 225 78 ...
 $ P9Q7b
                 : num 4 3 5 4 3 5 4 4 6 5 ...
                 : Factor w/ 6 levels "1", "2", "3", "4", . . : 6 6 6 6 6 6 6 6 6 6 . . .
 $ P9Q8
                                                                  ", . . : 43 45 45 25 25 43 43
 $ P9Q80th
                 : Factor w/ 71 levels "יבובו, 7□9:¥xf3
```

```
25 25 25 ...
$ P9Q9
                 : num 0000001500...
                 : Factor w/ 14 levels " ","1
$ P9Q10
                                                      ",...: 11 11 11 11 11 11 11 11 11 11 ...
                 : Factor w/ 74 levels "ıl¥xec □
                                                                    '...: 45 47 47 27 27 45 45
$ P9Q100th
27 27 27 ...
                 : num 0000001500...
$ P9Q11
                 : Factor w/ 7 levels " ","0","1","2",...: 4 4 3 3 4 4 4 4 4 4 ...

: Factor w/ 7 levels " ","「□「□",...: 1 1 1 1 1 1 1 1 1 1 ...
$ P9Q12
$ P9Q120th
                 : Factor w/ 7 levels "", "0", "1", "2", . . : 4 3 4 4 4 3 3 4 3 5 . . .
$ P9Q13
                 : Factor w/ 28 levels ".Ja.\fract.\ ",...: 2 2 2 2 2 2 2 2 2 2 ...
: Factor w/ 10 levels "","0","1","2",...: 5 5 9 7 7 7 7 7 7 7 ...
$ P9Q130th
$ P9Q14
                 : num NA . . .
 $ P9Q140th
$ P9Q15
                 : Factor w/ 8 levels "", "0", "1", "2", . . : 3 3 3 3 3 3 3 3 3 3 . . .
$ P9Q150th
                 : Factor w/ 124 levels "チヲ、⊐セ¥xea □ ",..: 7 7 7 7 7 7 7 7 7 7 7 ...
                 : num 174 174 174 174 174 ...
$ Hhweight
##### Purchase #####
> dim(Purchase )
[1] 12609
          17
> str(Purchase)
'data frame': 12609 obs. of 17 variables:
                : Factor w/ 5111 levels ".
                                               ". "0000001". . . : 168 158 158 158 158 158 158 160
$ SerialNr
160 160 . . .
$ HhID
                 : Factor w/ 5113 levels "010100103", "010100104", . . : 1 2 2 2 2 2 3 3 3 . . .
$ VillageID
                : Factor w/ 509 levels "0101001", "0101002", . . : 1 1 1 1 1 1 1 1 1 1 1 . . .
                 : Factor w/ 18 levels "01", "02", "03", . . : 1 1 1 1 1 1 1 1 1 1 1 . . . : Factor w/ 135 levels "0101", "0102", . . : 1 1 1 1 1 1 1 1 1 1 . . .
$ Province
 $ DistrictID
                 : num 1111111111...
 $ VillageType
                : Factor w/ 31 levels "01", "02", "03", . . : 3 4 4 4 4 4 5 5 5 . . .
$ Hhnumber
 : Factor w/ 1 level "1": 1 1 1 1 1 1 1 1 1 ...
$ P14S1
                 : Factor w/ 43 levels "201", "202", "203", . . : 16 3 10 22 26 33 43 2 3 4 . . .
$ ItemB
                 : Factor w/ 2 levels "1", "2": 1 1 1 1 1 1 1 1 1 1 ...
$ Bought
                 : num 224000 600000 560000 11200000 2470000 ...
$ KipB
$ ItemB2080th
                            :
                                 Factor w/ 106 levels
                                                                 ı □ ¥xec
                                                                               ソッイ、
 ...: 12 12 12 12 12 12 12 12 12 12 12 ...
$ ItemB2720th : Factor w/ 54 levels "fy、¥xec □ t □f ¥xec λ ¥xec ₹ 7 □
′, . . : 16 16 16 16 16 16 16 16 16 16 . . .
                 : Factor w/ 44 levels ″ヲノコエチッ、¥xea □ス¥xea □
$ ItemB3040th
",..: 11 11 11 11 11 11 11 11 11 11 ...
$ Hhweight : num 174 174 174 174 174 ...
```

```
In each data frame, the following variables should be converted as character, and the rests
    as numeric.
> cha.var<-c("SerialNr","HhID","VillageID","Province","DistrictID",
+ "PersID", "P3Q40ther", "P3Q120ther", "Income0th")
> df<-HHB
> for(j in 1:ncol(df)){
+ if (is. element (colnames (df) [j], cha. var)) {
     df[, j] \le as. character(df[, j])
+ }else if(is.factor(df[, i])) {
     df[, j] < -as. numeric(as. character(df[, j]))
+ }
+ }
> str(df)
 data.frame':
               8296 obs. of 33 variables:
                        "0000302" "0000300" "0000289" "0000291" ...
 $ SerialNr
                : chr
                         "010100102" "010100103" "010100104" "010100105" ...
 $ HhID
                 : chr
                        "0101001" "0101001" "0101001" "0101001" . . .
 $ VillageID
                 : chr
                 : chr "01" "01" "01" "01" ...
 $ Province
                 : chr "0101" "0101" "0101" "0101" ...
 $ DistrictID
 $ VillageType
                : num 1111111111...
 $ Hhnumber
                 : num 2 3 4 5 6 8 10 11 16 17 ...
 $ Interview Month: num 8 8 8 8 8 8 8 8 8 8 ...
 $ P8
                 : num 111111111...
 $ P10Q1a 1
                 : num 2 2 1 1 2 1 2 1 1 2 ...
                 : num 2 2 2 2 2 2 2 2 2 2 ...
 $ P10Q1a_2
                 : num 2 2 2 2 2 2 2 2 2 2 . . .
 $ P10Q1a_3
                  : num 2 1 2 1 2 1 1 1 2 1 ...
 $ P11Q1S1
 $ P12S1Q1
                 : num 1 2 2 2 2 2 1 2 2 2 ...
 $ P12S3Drv
                 : num NA ...
 $ P12S3Wet
                 : num 2 NA NA NA NA NA 2 NA NA NA ...
                 : num 1 2 2 2 2 2 2 2 2 2 ...
 $ P12S5Q1
 $ P12S6Q1
                 : num 1 2 2 2 2 2 2 2 2 2 . . .
                 : num 2 2 2 2 2 2 1 2 2 2 ...
 $ P12S7Q1
 $ P12S7Q2
                 : num 22222122...
 $ P12S8Q1
                 : num 1 2 2 1 2 2 2 1 2 2 ...
 $ P14S1
                 : num 2 1 1 1 1 2 2 1 1 1 ...
 $ P14S2
                 : num 2 2 2 2 2 2 2 1 2 2 ...
                 : num 2 2 2 2 2 2 2 2 2 2 . . .
 $ P14S3
 $ P14S4
                 : num 2 2 2 2 2 2 2 2 2 2 . . .
 $ P14S5
                 : num 2 2 2 2 2 2 2 2 2 2 ...
 $ P15
                  : num 1 1 1 1 1 1 1 1 1 1 ...
 $ P16S1Q1
                 : num 1 2 2 2 1 1 2 2 2 2 ...
 $ P16S2Q1
                 : num 2 2 2 2 1 2 2 2 2 2 ...
 $ Male
                 : num 4 2 2 2 3 1 4 2 3 1 ...
 $ Female
                 : num 3 4 2 2 3 6 4 4 1 3 ...
 $ Total
                 : num 7644678644...
 $ Hhweight
                 : num 174 174 174 174 174 ...
```

HHB < -df

```
> df<-IND
> for(j in 1:ncol(df)) {
+ if (is. element (colnames (df) [j], cha. var)) {
    df[, j] \le as. character(df[, j])
+ }else if(is.factor(df[, i])) {
    df[, j] < -as. numeric(as. character(df[, j]))
+ }
+ }
> str(df)
'data.frame':
              48021 obs. of 19 variables:
               : chr "0000302" "0000302" "0000302" "0000302" ...
 $ SerialNr
                : chr "010100102" "010100102" "010100102" "010100102" ...
 $ HhID
                : chr "0101001" "0101001" "0101001" "0101001" ...
 $ VillageID
               : chr "01" "01" "01" "01"
 $ Province
                       "0101" "0101" "0101" "0101" ...
                : chr
 $ DistrictID
 $ VillageType
                : num 111111111...
 $ Hhnumber
                : num 2 2 2 2 2 2 2 3 3 3 ...
 $ Interview Month: num 8 8 8 8 8 8 8 8 8 8 ...
 $ PersID
             : chr "01010010201" "01010010202" "01010010203" "01010010204" ...
 $ PCode
                : num 1 2 3 4 5 6 7 1 2 3 ...
 $ P1Q2
                : num 1277444124...
 $ P1Q3
                : num 1212121122...
 $ P1Q4a
                : num 1 17 15 10 10 1 20 10 2 4 ...
                : num 12 2 11 10 5 5 1 6 2 10 ...
 $ P1Q4b
                : num 1952 1965 1973 1975 1987 ...
 $ P1Q4c
 $ P1Q5
                : num 55 42 34 32 20 17 14 49 60 38 ...
 $ P1Q6
                : num 2 2 1 1 1 1 1 2 2 1 ...
 $ P1Q7
                : num 1111111111...
 $ Hhweight
                IND<-df
> df<-EDU
> for(j in 1:ncol(df)) {
+ if (is. element (colnames (df) [j], cha. var)) {
    df[, j] \le as. character(df[, j])
+ }else if(is.factor(df[, j])) {
    df[, j] < -as. numeric(as. character(df[, j]))
+ }
+ }
> str(df)
 data.frame':
              41455 obs. of 53 variables:
                : chr "0000302" "0000302" "0000302" "0000302" ...
 $ SerialNr
 $ HhID
                : chr "010100102" "010100102" "010100102" "010100102" ...
               : chr "0101001" "0101001" "0101001" "0101001" ...
 $ VillageID
               : chr "01" "01" "01" "01" .
 $ Province
               : chr "0101" "0101" "0101" "0101" ...
 $ DistrictID
              : num 111111111...
 $ VillageType
               : num 222222333...
 $ Hhnumber
 : chr "01010010201" "01010010202" "01010010203" "01010010204" ...
 $ PersID
 $ PCode
                : num 1 2 3 4 5 6 7 1 2 3 ...
 $ P3Q1
                $ P3Q2
                : num 1 1 1 1 1 1 1 1 1 1 ...
 $ P3Q3
                : num 1 1 1 1 1 1 1 1 1 1 ...
```

```
$ P3Q4
                 : num
                        NA NA NA NA NA NA NA NA NA . . .
 $ P3Q40ther
                 : chr
                        2 2 2 2 2 2 1 2 2 2 . . .
 $ P3Q5
                 : num
 $ P3Q6
                 : num
                        3 3 3 3 3 3 2 3 3 3 . . .
 $ P3Q7a
                 : num
                        NA NA NA NA NA NA 2 NA NA NA ...
 $ P3Q7b
                        NA NA NA NA NA 1 NA NA NA ...
                 : num
 $ P308
                 : num NA NA NA NA NA NA 2 NA NA NA ...
                 : num NA ...
 $ P3Q80ther
 $ P3Q9
                 : num NA ...
                 : num NA ...
 $ P3Q90ther
 $ P3Q10
                 : num 1960 1973 1979 1982 1993 ...
 $ P3Q11a
                 : num 2 2 2 2 2 2 2 3 1 1 ...
 $ P3Q11b
                 : num 1 3 3 3 3 3 1 3 5 5 ...
                 : num NA NA NA NA 3 6 NA NA NA NA ...
 $ P3Q12
 $ P3Q120ther
                 : chr
                 : num 0 0 0 0 0 0 720000 0 0 0 ...
 $ P3Q14a
 $ P3Q14b
                 : num
                        0 0 0 0 0 0 180000 0 0 0 . . .
                 : num
 $ P3Q14c
                        0 0 0 0 0 0 210000 0 0 0 . . .
 $ P3Q14d
                 : num
                        0 0 0 0 0 0 50000 0 0 0 . . .
 $ P3Q14e
                 : num
                        0 0 0 0 0 0 40000 0 0 0 . . .
                 : num 0 0 0 0 0 0 2700000 0 0 0 ...
 $ P3Q14f
 $ P3Q14g
                 : num 0000000000...
 $ P3Q14i
                 : num 0000000000...
 $ P3Q14h
                 : num 0 0 0 0 0 0 3900000 0 0 0 ...
                 : num NA NA NA NA NA NA 2 NA NA NA ...
 $ P3Q15
                 : num
 $ P3Q16
                        NA NA NA NA NA NA NA NA NA ...
 $ P3Q17
                 : num
                        0 0 0 0 0 0 2 0 0 0 ...
 $ P3Q18a
                 : num
                        NA . . .
                        NA NA NA NA NA NA 5 NA NA NA . . .
 $ P3Q18b
                 : num
 $ P3Q19
                 : num
                        NA NA NA NA NA NA NA NA NA . . .
                 : num NA ...
 $ P3Q190ther
 $ p3Q20
                 : num NA NA NA NA NA NA 1 NA NA NA ...
 $ P3Q21
                 : num NA NA NA NA NA NA 2 NA NA NA ...
 $ P3Q22
                 : num NA NA NA NA NA NA 1 NA NA NA ...
                 : num NA NA NA NA NA NA 2 NA NA NA ...
 $ P3Q23
 $ P3Q24
                 : num 00000 NA000...
                 : num NA ...
 $ P3Q25
 $ P3Q26
                 : num NA ...
 $ P3Q260ther
                 : num NA ...
                 $ Hhweight
> EDU. old<-EDU
> EDU<-df
> df<-INC
> for(j in 1:ncol(df)) {
+ if(is.element(colnames(df)[j], cha.var)){
     df[, j] \le as. character(df[, j])
+ }else if(is.factor(df[, i])){
     df[, j] < -as. numeric (as. character (df[, j]))
+ }
+ }
> str(df)
               4126 obs. of 28 variables:
 data.frame':
                 : chr "01010010201" "01010010202" "01010010203" "01010010204" ...
 $ PersID
                 : chr "010100102" "010100102" "010100102" "010100102" ...
 $ HhID
```

```
$ SerialNr
                 : chr
                        "0000302" "0000302" "0000302" "0000302" . . .
                        "0101001" "0101001" "0101001" "0101001" ...
                 : chr
 $ VillageID
                        "0101" "0101" "0101" "0101" ...
 $ DistrictID
                 : chr
                        "01" "01" "01" "01" ...
 $ Province
                 : chr
 $ VillageType
                 : num
                        1111111111...
 $ Interview Month: num
                        888888888...
                        1 2 7 7 4 4 4 4 1 2 ...
 $ P102
                 : num
 $ P1Q3
                        1 2 1 2 1 2 2 1 1 2 ...
                 : num
 $ P1Q5
                        55 42 34 32 20 17 22 18 50 46 ...
                 : num
 $ P1Q6
                        2 2 1 1 1 1 1 1 2 2 ...
 $ P1Q7
                        1111111111...
                        $ Hhweight
                 : num
                        17000 580000 550000 550000 550000 ...
 $ Incom800
                 : num
                        NA ...
 $ Incom801
                 : num
 $ Incom802
                        NA NA NA NA NA NA NA 7e+05 NA ...
                 : num
                        NA ...
 $ Incom803
                 : num
 $ Incom804
                 : num
                        NA NA NA NA NA NA NA NA NA ...
 $ Incom805
                 : num
                        NA ...
 $ Incom806
                 : num
                        NA ...
 $ Incom807
                 : num
                        NA NA NA NA NA NA NA NA NA ...
 $ Incom808
                        NA ...
                 : num
                        NA ...
 $ Incom809
                 : num
                        NA NA NA NA NA NA NA NA NA . . .
 $ Incom810
 $ Incom811
                        NA NA NA NA NA NA NA NA NA . . .
                 : num
                        NA NA NA NA NA NA NA NA NA . . .
 $ Incom812
                 : num
 $ IncomeOth
                 : chr
  . . .
> INC<-df
> df<-DIA
> for(i in 1:ncol(df)){
+ if(is.element(colnames(df)[j], cha.var)){
     df[, j] \le as. character(df[, j])
+ }else if(is.factor(df[, j])) {
     df[, j] \le -as. numeric(as. character(df[, j]))
+ }
> str(df)
               1358317 obs. of 19 variables:
 data.frame':
                        "0000302" "0000302" "0000302" "0000302" . . .
 $ SerialNr
                : chr
                         "010100102" "010100102" "010100102" "010100102" . . .
 $ HhID
                 : chr
 $ VillageID
                 : chr
                        "0101001" "0101001" "0101001" "0101001" . . .
                        "01" "01" "01" "01" ...
 $ Province
                 : chr
 $ DistrictID
                 : chr
                        "0101" "0101" "0101" "0101" ...
 $ VillageType
                 : num 1 1 1 1 1 1 1 1 1 1 ...
                        2 2 2 2 2 2 2 2 2 2 . . .
 $ Hhnumber
                 : num
 $ Interview Month: num 8 8 8 8 8 8 8 8 8 8 ...
 $ DiaryID
                        593536 593537 593538 593539 593540 ...
                 : num
                 : num 14 14 14 13 13 13 13 13 13 13 ...
 $ Page
                 : num
                        $ Serial_1
 $ Unit
                 : num
                        18 18 5 1 5 18 8 18 18 10 . . .
 $ Quantity
                 : num
                        10 1 2 0.8 1 1 1 4 1 1 . . .
                        10000 3000 2000 10500 5000 10000 10000 4000 3000 1000 ...
 $ Kip
                  : num
 $ Kind
                        1111111111...
                 : num
 $ Produced
                 : num
                       1111111111...
```

```
$ Purpose
                : num 2 2 2 2 2 2 2 2 2 2 . . .
                : atomic 328 327 11 12 328 290 277 328 327 346 ...
 $ Item
 ..- attr(*, "value.labels") = Named num 812 811 810 809 808 807 806 805 804 803 ...
 ... - attr(*, "names") = chr "Other current tranfers Specify\(\frac{4}{3}\)x85" "Remittance, gifts in kind
for abroad" "Remittance, gifts in kind for Laos" "Remittance, gifts in cash for abroad" ...
                $ Hhweight
> DIA. old<-DIA
> DIA<-df
> df<-DUR
> for(j in 1:ncol(df)){
+ if(is.element(colnames(df)[j], cha.var)){
    df[, j] \le as. character(df[, j])
+ }else if(is.factor(df[, j])) {
    df[, j] \le as. numeric(as. character(df[, j]))
+ }
> str(df)
data.frame': 83753 obs. of 13 variables:
 $ HhID
              : chr "010100102" "010100102" "010100102" "010100102" ...
                : chr "0000302" "0000302" "0000302" "0000302" ...
 $ SerialNr
               : chr "0101001" "0101001" "0101001" "0101001" ...
 $ VillageID
               : chr "0101" "0101" "0101" "0101" ...
 $ DistrictID
                : chr "01" "01" "01" "01" ...
 $ Province
 $ Hhweight
 $ DurCode
                : num 1 5 8 12 13 14 22 25 26 30 ...
 $ P8Q1a
                : num NA 0 0 0 0 NA 0 0 0 NA . . .
 $ P8Q1b
                : num 1411212611...
                : num 84000000 18480000 600000 100000 10000 ...
 $ P8Q2
 $ P80th
                : num NA ...
> DUR<-df
### Housing ###
   The following variables should be converted as character, and the rests as numeric.
> cha.var<-c("SerialNr", "HhID", "VillageID", "Province", "DistrictID",
+ "PersID", "P3Q40ther", "P3Q120ther", "Income0th",
+ "P9Q10th", "P9Q30th", "P9Q40th", "P9Q80th", "P9Q100th", "P9Q120th", "P9Q130th",
+ "P9Q140th", "P9Q140th", "P9Q150th")
> df<-Housing
> for(j in 1:ncol(df)) {
+ if (is. element (colnames (df) [j], cha. var)) {
     df[. i]<-as. character (df[. i])
+ }else if(is.factor(df[, j])) {
     df[, j] \le as. numeric(as. character(df[, j]))
+ }
+ }
> str(df)
```

```
8296 obs. of 37 variables:
'data.frame':
                       "0000302" "0000300" "0000289" "0000291" ...
$ SerialNr
               : chr
$ HhID
                : chr
                       "010100102" "010100103" "010100104" "010100105" ....
                       "0101001" "0101001" "0101001" "0101001" ...
                : chr
$ VillageID
                       "01" "01" "01" "01" ...
$ Province
                : chr
                       "0101" "0101" "0101" "0101" ...
$ DistrictID
                : chr
                      1111111111...
$ VillageType
                : num
$ Hhnumber
                : num
                       2 3 4 5 6 8 10 11 16 17 ...
1111111111...
$ P9Q1
                : num
$ P9Q10th
                : chr
                      5600000 4000000 4200000 8400000 8500000 4000000 10000000 8400000
$ P9Q2
                : num
8400000 3360000 ...
$ P9Q3a
                : num 141111111...
                : num 0000000400...
$ P9Q3b
$ P9Q30th
                : chr NA NA NA NA ...
                : num 4 3 3 4 3 4 4 3 3 4 ...
$ P9Q4
$ P9Q40th
                  : chr
$ P9Q5
                : num 2 4 2 2 1 2 2 2 2 1 ...
$ P9Q50th
                : num NA ...
                : num 5 41 36 7 10 10 7 15 9 10 ...
$ P9Q6a
$ P906b
                : num NA ...
                : num 105 81 144 56 54 91 90 64 225 78 ...
$ P9Q7
                : num 4 3 5 4 3 5 4 4 6 5 ...
$ P9Q7b
                : num 6666666666...
$ P9Q8
                                                ″″ュユゥ斡ョ□□□
                       ″ュユゥ斡
$ P9Q80th
                : chr
                     ″″ゥ斡ョ□□□
ゥ斡ョ□□□□
$ P9Q9
                : num 0 0 0 0 0 0 0 15 0 0 ...
$ P9Q10
                : num 6666666666...
                                                ″″ュユゥ斡ョ□□□
$ P9Q100th
                : chr
                       ″ュユゥ斡
                                                                          ″ ″ıl
                     ″″ゥ斡ョ□□□
ゥ斡ョ□□□
$ P9Q11
                : num 0 0 0 0 0 0 0 15 0 0 ...
                       2 2 1 1 2 2 2 2 2 2 . . .
$ P9Q12
                : num
$ P9Q120th
                : chr
$ P9Q13
                : num
                      2 1 2 2 2 1 1 2 1 3 ...
$ P9Q130th
                 : chr
                : num 3 3 7 5 5 5 5 5 5 5 ...
$ P9Q14
$ P9Q140th
                : chr
                       NA NA NA NA ...
$ P9Q15
                : num 111111111...
$ P9Q150th
                 : chr
$ Hhweight
                : num 174 174 174 174 174 ...
```

> Housing<-df

```
### Purchase ###
> cha.var<-c("Seria|Nr","HhID","VillageID","Province","DistrictID",
+ "PersID", "P3Q40ther", "P3Q120ther", "Income0th",
+ "P9Q10th", "P9Q30th", "P9Q40th", "P9Q80th", "P9Q100th", "P9Q120th", "P9Q130th",
+ "P9Q140th", "P9Q140th", "P9Q150th",
+ "ItemB2080th", "ItemB2370th", "ItemB2720th", "ItemB3040th")
> df<-Purchase1
> for(j in 1:ncol(df)) {
+ if (is. element (colnames (df) [j], cha. var)) {
    df[, j] \leq -as. character(df[, j])
+ }else if(is.factor(df[, j])){
    df[, j] \leftarrow as. numeric(as. character(df[, j]))
+ }
+ }
> str(df)
 data.frame': 12609 obs. of 17 variables:
 $ SerialNr
               : chr "0000300" "0000289" "0000289" "0000289" ...
                        "010100103" "010100104" "010100104" "010100104" ...
 $ HhID
                 : chr
 $ VillageID
                 : chr "0101001" "0101001" "0101001" "0101001" ...
                 : chr "01" "01" "01" "01" ...
 $ Province
                 : chr
                        "0101" "0101" "0101" "0101" ...
 $ DistrictID
 $ VillageType
                 : num 1 1 1 1 1 1 1 1 1 1 ...
 $ Hhnumber
                 : num 3 4 4 4 4 4 4 5 5 5 ...
 $ P14S1
                 : num 111111111...
                 : num 234 203 218 270 285 298 356 202 203 204 ...
 $ ItemB
 $ Bought
                 $ KipB
                 : num 224000 600000 560000 11200000 2470000 ...
 $
          ItemB2080th
                                                              chr
,,
 $
          ItemB2370th
                                                              chr
 $
          ItemB2720th
                                                              chr
          ItemB3040th
                                                              chr
 $ Hhweight : num 174 174 174 174 174 ...
```

> Purchase<-df

□ Province code of 18 should be converted as 09 or 10 as the next, based on the Region\_Rovince\_District\_Code.xls downloaded from IHSN web site;

エラー! リンクが正しくありません。

```
> ls()
                                     "DIA. old" "DUR"
 [1] "cha. var" "df"
                          "DIA"
                                                          "EDU"
                                                                     "EDU. old"
 [8] "HHB"
               "INC"
                           "IND"
                                     ″ j‴
> d<-HHB
> list. files()
[1] "20170907. RData" "distcode. csv"
> distcode<-read.csv("distcode.csv", header=T)</pre>
> dim(distcode)
[1] 142
> head(distcode)
  District. Code District. Name Province New. Province
            101
                   Chanthabuly
                  Sikhottabong
2
            102
                                                     1
3
            103
                      Xaysetha
                                                     1
4
            104
                    Sisattanak
5
            105
                    Naxaithong
6
            106
                      Xaythany
> distcode$DistrictID<-formatC(distcode$District.Code, width=4, flag="0")
> head(distcode)
  District. Code District. Name Province New. Province DistrictID
1
            101
                   Chanthabuly
                                       1
                                                             0101
2
            102
                  Sikhottabong
                                                     1
                                                             0102
3
            103
                      Xavsetha
                                                             0103
                                       1
                                                     1
                                                             0104
4
            104
                    Sisattanak
                                       1
                                                     1
5
            105
                                                             0105
                    Naxaithong
                                       1
                                                     1
                                                             0106
6
            106
                      Xaythany
                                                     1
> length(unique(d$VillageID))
[1] 519
# For reference;
> unique(subset(d, DistrictID==1801) $VillageID)
[1] "1801022"
> unique(subset(d.DistrictID==1001)$VillageID)
[1] "1001001" "1001012" "1001027" "1001052" "1001070" "1001075"
> unique(subset(d, DistrictID==1802) $VillageID)
[1] "1802020"
> unique(subset(d, DistrictID==0902) $VillageID)
character (0)
> unique(subset(d, DistrictID==1803) $VillageID)
[1] "1803004"
> unique(subset(d, DistrictID==1003)$VillageID)
[1] "1003003" "1003011"
> unique(subset(d, DistrictID==1002)$VillageID)
[1] "1002020" "1002035" "1002052" "1002065" "1002073"
```

Generated the variable of New.Province for each data file.

```
> outfiles<-list(HHB, IND, EDU, INC, DIA, DUR, Housing, Purchase)
> for(i in 1:8) {
+ df<-outfiles[[j]]
+ df$New. Province <-df$Province
+ df$New. Province <- ifelse (df$DistrictID==1801, "10", df$New. Province)
+ df$New. Province<-ifelse (df$DistrictID==1802, "09", df$New. Province)
+ df$New. Province<-ifelse (df$DistrictID==1803, "10", df$New. Province)
+ outfiles[[j]]<-df
+ }
> unique(outfiles[[1]]$New.Province)
 [1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17"
> unique (outfiles [[2]] $New. Province)
 [1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17"
> unique(outfiles[[3]]$New. Province)
 [1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17"
> unique(outfiles[[4]]$New.Province)
  [1] \ \ "01" \ \ "02" \ \ "03" \ \ "04" \ \ "05" \ \ "06" \ \ "07" \ \ "08" \ \ "09" \ \ "10" \ \ "11" \ \ "12" \ \ "13" \ \ "14" \ \ "15" \ \ "16" \ \ "17" 
> unique (outfiles [[5]] $New. Province)
 [1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17"
> unique (outfiles [[6]] $New. Province)
 [1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17"
# Number of sample households by new province code
> df<-outfiles[[1]]
> addmargins (table (df$New. Province))
  01
      02
            03
                 04 05
                            06 07
                                         80
                                              09
                                                    10
                                                         11
                                                               12
                                                                    13
                                                                          14
                                                                               15
                                                                                     16
                                                                                          17 Sum
            368 352 384 544 544 560 400 608 368 544 768 569 271 576
 768 384
                                                                                          288 8296
# Weighted number of households by new province code (in thousands)
> t<-tapply (df$Hhweight, df$New. Province, sum) /1000
> province.names<-c("1 Vientiane M", "2 Phongsaly", "3 Luangnamtha",
+ "4 Oudumxay", "5 Bokeo", "6 Luangprabang", "7 Huaphanh",
+ "8 Xayabury", "9 Xiengkhuang", "10 Vientiane", "11 Borikhamxay",
+ "12 Khammuane", "13 Savannakhet", "14 Saravane", "15 Sekong", 
+ "16 Champasack", "17 Attapeu")
> names (t) <-province. names
> round(addmargins(t))
 1 Vientiane M
                   2 Phongsaly
                                  3 Luangnamtha
                                                      4 Oudumxay
                                                                          5 Bokeo 6 Luangprabang
            125
                              29
                                              28
                                                               44
                                                                                27
                                                                                                 69
    7 Huaphanh
                     8 Xayabury
                                  9 Xiengkhuang
                                                    10 Vientiane 11 Borikhamxay
                                                                                      12 Khammuane
             44
                                               39
                                                               77
                                                                                40
                                                                                                 63
13 Savannakhet
                    14 Saravane
                                       15 Sekong
                                                  16 Champasack
                                                                       17 Attapeu
                                                                                                Sum
            134
                              58
                                               14
                                                              109
                                                                                20
                                                                                                985
```

• The above is consistent with the Table 2.1 in the survey report.

#### 5.2. Summary table of each data file

Summary table of each variables in each data file

```
# Confirmed number of rows and columns of each file
# Confirmed variables of each file
# Displayed summary statistics of all files
> file, list<-list(HHB, IND, EDU, INC, DIA, DUR)
> file.names<-c("HHB","IND","EDU","INC","DIA","DUR")
> for(j in 1:6) {
+ cat(c("\frac{"\frac{"}{"} + \frac{"}{"} + 
+ cat(c("> dim(", file. names[j], ")\forall n"))
+ print(dim(file.list[[j]]))
+ cat(c("\forall n\) summary(", file. names[j], ")\forall n"))
+ print(summary(file.list[[j]]))
+ }
##### HHB #####
> dim( HHB )
 [1] 8296
                      33
> summary( HHB )
       SerialNr
                                                     HhID
                                                                                         VillageID
                                                                                                                                     Province
  Length: 8296
                                            Length: 8296
                                                                                       Length: 8296
                                                                                                                                 Length: 8296
  Class :character
                                            Class :character
                                                                                       Class :character
                                                                                                                                 Class :character
  Mode :character
                                             Mode :character
                                                                                       Mode :character
                                                                                                                                 Mode :character
    DistrictID
                                                                                                                    Interview Month
                                               VillageType
                                                                                       Hhnumber
  Length:8296
                                                          :1.000
                                                                                            : 1.00
                                                                                                                                  : 1,000
                                             Min.
                                                                                Min.
                                                                                                                   Min.
  Class :character
                                             1st Qu. : 2.000
                                                                                1st Qu.: 7.00
                                                                                                                    1st Qu.: 3.750
  Mode :character
                                             Median : 2.000
                                                                                Median :16.00
                                                                                                                   Median : 6.000
                                                                                                                   Mean : 6, 473
                                             Mean : 1, 882
                                                                                Mean : 13, 68
                                             3rd Qu. : 2.000
                                                                                3rd Qu. : 20.00
                                                                                                                   3rd Qu.: 9.000
                                                            :3.000
                                                                                               :31.00
                                             Max.
                                                                                Max.
                                                                                                                   Max.
                                                                                                                                  :12,000
                                            P10Q1a_1
               P8
                                                                                P10Q1a_2
                                                                                                                   P10Q1a 3
                  :1.000
                                                                                                                           :1.000
                                                                         Min.
                                                                                         :1.000
                                      Min.
                                                     :1.000
                                                                                                             Min.
  Min.
  1st Qu. :1.000
                                      1st Qu. : 2.000
                                                                         1st Qu. : 2.000
                                                                                                            1st Qu. : 2.000
  Median :1.000
                                      Median : 2.000
                                                                         Median : 2.000
                                                                                                            Median : 2.000
  Mean : 1. 002
                                                                         Mean :1.991
                                                                                                             Mean : 1. 995
                                      Mean
                                                  :1. 922
  3rd Qu. : 1.000
                                      3rd Qu. : 2.000
                                                                         3rd Qu. : 2.000
                                                                                                             3rd Qu. : 2.000
  Max.
                  :2.000
                                      Max.
                                                     :2.000
                                                                                         :2.000
                                                                                                            Max.
                                                                                                                            :2.000
                                                                         Max.
         P11Q1S1
                                                                                                                 P12S3Wet
                                                                                                                                                   P12S5Q1
                                            P12S1Q1
                                                                                P12S3Dry
  Min.
                 :1.000
                                      Min.
                                                     :1.000
                                                                         Min.
                                                                                        :1
                                                                                                           Min.
                                                                                                                        : 2
                                                                                                                                            Min.
                                                                                                                                                           :1.000
  1st Qu. : 2.000
                                      1st Qu.: 1.000
                                                                         1st Qu.:1
                                                                                                           1st Qu.:2
                                                                                                                                            1st Qu.: 1.000
  Median : 2.000
                                                                                                                                            Median : 1.000
                                      Median : 1,000
                                                                         Median :1
                                                                                                           Median :2
  Mean : 1. 757
                                      Mean
                                                  :1.152
                                                                         Mean :1
                                                                                                           Mean :2
                                                                                                                                            Mean :1.282
                                                                         3rd Qu. :1
                                                                                                           3rd Qu. :2
  3rd Qu. : 2.000
                                      3rd Qu. : 1.000
                                                                                                                                            3rd Qu. : 2.000
                :2.000
                                                     :2.000
                                                                                                                                                           :2.000
  Max.
                                                                                                           Max.
                                                                                                                           : 2
                                                                                                                                            Max.
                                      Max.
                                                                         Max.
```

```
NA's :7083
                                                   NA's :1480
    P12S6Q1
                                      P12S7Q2
                                                      P12S8Q1
                     P12S7Q1
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 : 1.000
                  Median : 2.000
                                  Median : 2.000
                                                    Median : 1.000
 Mean : 1. 233
                  Mean : 1. 761
                                  Mean : 1. 906
                                                    Mean : 1. 231
                                                    3rd Qu. :1.000
 3rd Qu. : 1.000
                 3rd Qu. : 2.000
                                  3rd Qu. : 2.000
      :2.000
Max.
                 Max.
                        :2.000
                                  Max.
                                        : 2. 000
                                                   Max.
                                                         : 2. 000
                                       P14S3
     P14S1
                      P14S2
                                                        P14S4
Min.
        :1.000
                         :1.000
                                          :1.000
                                                          :1.000
                 Min.
                                   Min.
                                                    Min.
 1st Qu.: 1.000
                  1st Qu. : 2.000
                                   1st Qu. : 2.000
                                                    1st Qu. : 2.000
Median : 1,000
                 Median : 2.000
                                  Median : 2,000
                                                    Median : 2,000
Mean : 1. 384
                 Mean : 1.861
                                  Mean : 1. 991
                                                    Mean : 1. 998
 3rd Qu. : 2.000
                 3rd Qu. : 2.000
                                  3rd Qu. : 2.000
                                                    3rd Qu. : 2.000
Max. : 2.000
                                        : 2. 000
                 Max.
                       : 2. 000
                                  Max.
                                                    Max. : 2.000
     P14S5
                       P15
                                     P16S1Q1
                                                     P16S2Q1
Min.
       :1.000
                 Min.
                        :1.00
                                 Min.
                                        :1.000
                                                  Min.
                                                          :1.000
 1st Qu. : 2,000
                 1st Qu. : 1.00
                                 1st Qu. : 2,000
                                                   1st Qu. : 2.000
 Median : 2.000
                 Median :2.00
                                 Median : 2.000
                                                   Median : 2.000
 Mean : 1. 997
                                       :1. 787
                 Mean : 1. 69
                                 Mean
                                                   Mean :1.909
 3rd Qu. : 2.000
                 3rd Qu. : 2.00
                                  3rd Qu. : 2.000
                                                   3rd Qu. : 2.000
        :2.000
                         :2.00
                                         :2.000
                                                          :2.000
 Max.
                 Max.
                                 Max.
                                                   Max.
      Male
                       Female
                                         Total
                                                          Hhweight
 Min. : 0.000
                  Min. : 0.000
                                     Min. : 1.000
                                                       Min. : 11.44
 1st Qu.: 2.000
                   1st Qu.: 2.000
                                     1st Qu.: 4.000
                                                       1st Qu.: 75.06
 Median : 3.000
                   Median : 3.000
                                     Median : 5.000
                                                       Median : 103.98
 Mean : 2.866
                   Mean : 2.922
                                     Mean : 5. 789
                                                       Mean :118.68
                   3rd Qu.: 4.000
                                     3rd Qu.: 7.000
 3rd Qu.: 4.000
                                                       3rd Qu.: 148.03
Max. : 12,000
                        :14, 000
                                     Max.
                                          :26,000
                                                       Max.
                                                              :595.15
                  Max.
##### IND #####
> dim( IND )
[1] 48021
> summary( IND )
    SerialNr
                         HhID
                                       VillageID
                                                         Province
 0008437:
            26
                  150102003:
                               26
                                     1501020: 189
                                                             : 4491
                                                      13
 0008381:
                  150303601:
                                     0801112:
                                               175
                                                             : 3996
            21
                               21
                                                      01
                 070100408:
 0009891:
            21
                               20
                                     1503036:
                                               161
                                                      07
                                                             : 3875
 0003561:
            20
                 150102005:
                               20
                                     0706088:
                                               157
                                                      14
                                                             : 3404
 0008447:
            20
                 150102006:
                               20
                                     1501018:
                                              150
                                                             : 3170
                                                      16
                  150102008:
                                     0703069: 149
 0008448:
            20
                               20
                                                      06
                                                             : 3128
 (Other):47893
                                     (Other):47040
                  (Other) :47894
                                                      (Other):25957
   DistrictID
                  VillageType
                                      Hhnumber
                                                    Interview Month
       : 1106
                                          : 2961
 1401
                 Min.
                        :1.000
                                  20
                                                    Min.
                                                          : 1,000
                                                    1st Qu.: 3.000
 0106
           850
                  1st Qu. : 2.000
                                   17
                                          : 2895
                                                    Median : 6.000
 0901
           803
                 Median : 2.000
                                   16
                                          : 2892
           793
                 Mean :1.909
                                   21
                                            2875
                                                    Mean : 6.443
 1501
                                                    3rd Qu.: 9.000
 0706
           787
                  3rd Qu. : 2.000
                                   18
                                          : 2857
 0501
           775
                         :3.000
                                   22
                                          : 2832
                                                         :12.000
                  Max.
                                                    Max.
 (Other): 42907
                                   (Other):30709
```

```
PersID
                         PCode
                                         P1Q2
                                                          P1Q3
01010010201:
                    01
                            :8296
                                          :1.000
                                                          :1.000
                1
                                    Min.
                                                     Min.
                                                     1st Qu.: 1.000
01010010202:
                    02
                            :8265
                                    1st Qu. : 2.000
                1
                                    Median : 4.000
                                                     Median : 2.000
01010010203:
                1
                    03
                            :8020
01010010204:
                1
                    04
                            :7256
                                    Mean : 3. 549
                                                     Mean : 1.505
01010010205:
                    05
                            :5773
                                    3rd Qu. : 4, 000
                                                     3rd Qu. : 2, 000
                1
01010010206:
                    06
                            :4051
                                    Max.
                                          :9,000
                                                     Max.
                                                            :2.000
                1
                     (Other):6360
           :48015
(Other)
                    P1Q4b
                                      P1Q4c
                                                       P1Q5
    P1Q4a
       : 1.00
                                                       : 0.00
Min.
                Min.
                        : 1.000
                                  Min.
                                          :1898
                                                  Min.
1st Qu.: 5.00
                1st Qu.: 3.000
                                  1st Qu.: 1968
                                                  1st Qu.: 10.00
Median :10.00
                Median : 6.000
                                  Median:1987
                                                  Median : 20.00
Mean : 13. 37
                Mean : 7.884
                                  Mean : 1983
                                                  Mean : 25.32
                                  3rd Qu.:1997
3rd Qu.: 17.00
                3rd Qu.: 9.000
                                                  3rd Qu.: 39.00
Max. :99.00
                                         :9999
                       :99.000
                                  Max.
                                                  Max. :999.00
                Max.
     P1Q6
                    P1Q7
                                   Hhwe i ght
Min.
       :1.00
               Min.
                      : 1.00
                                Min.
                                      : 11.44
1st Qu.: 1.00
               1st Qu.: 1.00
                                1st Qu.: 72.84
Median : 1.00
               Median : 2.00
                                Median : 102.13
Mean : 1.53
                                Mean :116.76
               Mean :11.98
3rd Qu. : 2.00
                                3rd Qu. :145.23
               3rd Qu.: 19.00
                                       :595.14
Max.
      : 4. 00
               Max.
                       :50.00
                                Max.
```

##### EDU ##### > dim( EDU ) [1] 41455 53

> summary( EDU )

VillageID SerialNr HhID Province Length: 41455 Length: 41455 Length: 41455 Length: 41455 Class :character Class :character Class :character Class :character Mode :character Mode :character Mode :character Mode :character

DistrictID	VillageType	Hhnumber	Interview_Month
Length: 41455	Min. :1.00	Min. : 1.00	Min. : 1.000
Class :character	1st Qu. :2.00	1st Qu.: 7.00	1st Qu.: 3.500
Mode ∶character	Median ∶2.00	Median :15.00	Median : 6.000
	Mean : 1.89	Mean : 13. 37	Mean : 6.459
	3rd Qu. :2.00	3rd Qu.:19.00	3rd Qu.: 9.000
	Max. :3.00	Max. :31.00	Max. :12.000
PersID	PCode	P3Q1	P3Q2
Length: 41455	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 :1.000	Median :1.000
	Mean : 3.411	Mean :1.582	Mean :1.591
	3rd Qu.: 5.000	3rd Qu. : 2.000	3rd Qu. : 2.000
	Max. : 22. 000	Max. :3.000	Max. :3.000
P3Q3			

```
Min. :1.00
               Min. :1.00
                               Length: 41455
                                                   Min. :0.000
1st Qu.: 1.00
               1st Qu. :3.00
                                                   1st Qu. : 2.000
                               Class :character
Median: 1.00
               Median: 4.00
                                Mode :character
                                                   Median : 2.000
Mean : 1, 21
                                                   Mean : 1, 922
               Mean : 4, 13
3rd Qu. : 1.00
               3rd Qu. :5.00
                                                   3rd Qu. : 2.000
      :2.00
                                                          : 2. 000
Max.
               Max.
                      :9.00
                                                   Max.
                                                   NA's
                      :32791
                                                         :8707
               NA's
     P3Q6
                    P3Q7a
                                     P3Q7b
                                                      P3Q8
      :1.000
                                       :0.000
Min.
                Min.
                       :0.000
                                 Min.
                                                 Min.
                                                      :1.000
1st Qu. :1.000
                1st Qu. : 1.000
                                 1st Qu.: 1.000
                                                 1st Qu. : 1.000
Median : 3.000
                Median : 1.000
                                 Median : 2.000
                                                 Median : 1.000
Mean : 2. 343
                Mean :1.546
                                 Mean : 2. 407
                                                 Mean : 1. 024
3rd Qu. : 3.000
                3rd Qu. : 2.000
                                 3rd Qu. : 3.000
                                                 3rd Qu. : 1.000
Max. :3.000
                Max. :5.000
                                Max. : 9.000
                                                 Max. : 9.000
                                      : 29245
NA's
      :8699
                       :29196
                                NA's
                                                 NA's
                                                       : 29544
                NA's
 P3Q80ther
                     P3Q9
                                  P3Q90ther
                                                    P3Q10
Min.
     :1.00
                Min. : 1.00
                                 Min. : NA
                                                 Min. :1911
1st Qu.: 1.00
                1st Qu.: 2.00
                                 1st Qu.: NA
                                                 1st Qu.: 1977
Median :1.00
                Median : 4.00
                                Median: NA
                                                 Median:1993
Mean :1.11
                Mean : 4.25
                                                 Mean : 2032
                                Mean : NaN
3rd Qu.: 1.00
                3rd Qu.: 6.00
                                 3rd Qu.: NA
                                                 3rd Qu.: 2001
Max. : 2.00
                     :10.00
                                 Max. : NA
                                                       :9999
                Max.
                                                 Max.
NA's
     :41446
                NA's
                      : 41355
                                 NA's :41455
                                                 NA's
                                                        :8805
   P3Q11a
                    P3Q11b
                                    P3Q12
                                                  P3Q12Other
                                 Min. : 1.00
Min.
       :0.000
                Min.
                       :0.000
                                                 Length: 41455
1st Qu.: 1.000
                1st Qu. : 2.000
                                 1st Qu.: 2.00
                                                 Class :character
Median : 1.000
                Median : 3.000
                                 Median : 3.00
                                                 Mode :character
Mean : 1.567
                Mean : 2. 962
                                 Mean : 3.47
                                 3rd Qu.: 3.00
3rd Qu. : 2.000
                3rd Qu. : 4.000
Max. : 9.000
                       :9.000
                                        :99.00
                Max.
                                 Max.
NA's :8828
                       :9870
                NA's
                                 NA's
                                        :38169
   P3Q14a
                       P3Q14b
                                          P3Q14c
                                                            P3Q14d
                   Min.
                                      Min. :
                                                        Min. :
Min.
                                  0
                                                    0
                                                                       0
               0
1st Qu.:
                                  0
               n
                   1st Qu.:
                                      1st Qu.:
                                                        1st Qu.:
                                                                       0
Median :
               0
                   Median :
                                  0
                                      Median :
                                                        Median :
                                                                       n
Mean :
           19497
                   Mean :
                               2842
                                      Mean
                                                37026
                                                        Mean
                                                                    6368
                   3rd Qu.:
3rd Qu. :
               0
                                  0
                                      3rd Qu.:
                                                32000
                                                        3rd Qu.:
                                                                       0
Max. : 20160000
                                      Max. :5000000
                         : 2000000
                                                              :5000000
                   Max.
                                                        Max.
                   NA's :24
NA's
      :20
                                      NA's
                                            :3
                                                        NA's
                                                              :31
                                                             P3Q14i
  P3Q14e
                      P3Q14f
                                         P3Q14g
              0
Min. :
                  Min. :
                                  0
                                      Min. :
                                                     0
                                                         Min.
1st Qu.:
              0
                  1st Qu.:
                                  0
                                      1st Qu.:
                                                     0
                                                         1st Qu.:
Median :
                                  0
                                      Median :
                                                         Median :
                  Median:
                                                     0
Mean
      : 12049
                  Mean
                              55326
                                      Mean
                                                 23323
                                                         Mean
                                                                     1917
                  3rd Qu.:
3rd Qu.: 10000
                                  0
                                      3rd Qu.:
                                                     0
                                                         3rd Qu.:
Max. :4100000
                        : 75940000
                                            :16000000
                                                                 :4147000
                  Max.
                                      Max.
                                                         Max.
NA's :4
                  NA's
                        :16
                                      NA's :11
                                                         NA's
                                                                :295
    P3Q14h
                       P3Q15
                                                           P3Q17
                                        P3Q16
Min.
                          :0.000
                                                       Min.
                                                             : 0.0000
                   Min.
                                    Min.
1st Qu.:
                   1st Qu. : 2.000
                                               50000
                                                       1st Qu.: 0.0000
                                    1st Qu. :
Median :
                   Median : 2.000
                                    Median :
                                              100000
                                                       Median : 0.0000
               0
Mean : 158175
                                    Mean :
                                                       Mean : 0.5583
                   Mean : 1. 935
                                              472369
3rd Qu.:
                   3rd Qu. : 2.000
                                    3rd Qu.:
                                                       3rd Qu.: 0.0000
         82000
                                              300000
Max.
     : 78840000
                   Max.
                         : 2. 000
                                    Max.
                                         :13000000
                                                       Max.
                                                              :80.0000
NA's
      : 9
                   NA's
                          : 29269
                                    NA's
                                          : 40736
                                                       NA's
                                                              :7
    P3Q18a
                    P3Q18b
                                    P3Q19
                                                   P3Q190ther
```

0

0

0

0

```
Min. : 0.00
                 Min.
                      : 0.00
                                  Min. :1.000
                                                   Min. :1.0
 1st Qu.: 0.00
                 1st Qu.: 5.00
                                  1st Qu.: 1.000
                                                   1st Qu.: 1.0
Median: 0.00
                 Median : 10.00
                                  Median : 1.000
                                                   Median :1.5
Mean : 0.21
                 Mean :11.99
                                  Mean : 1, 479
                                                   Mean : 1.5
 3rd Qu.: 0.00
                 3rd Qu.: 15.00
                                  3rd Qu. : 2.000
                                                   3rd Qu. : 2. 0
        :40.00
                         :52.00
                                          :9.000
                                                          :2.0
 Max.
                 Max.
                                  Max.
                                                   Max.
                                  NA's
                                                   NA's
NA's
        :33257
                         :29421
                                          :29262
                                                          :41451
                 NA's
                                                        P3Q23
     p3Q20
                     P3Q21
                                      P3Q22
Min.
        :0.000
                         :0.000
                                         : 0.000
                                                           :0.000
                 Min.
                                  Min.
                                                    Min.
 1st Qu. :1.000
                                  1st Qu.: 1.000
                                                    1st Qu. :1.000
                 1st Qu. : 1.000
 Median : 2.000
                 Median : 2.000
                                  Median : 2.000
                                                    Median : 1.000
 Mean : 1.657
                                  Mean : 2.601
                                                    Mean : 1. 253
                 Mean
                       :1. 523
 3rd Qu. : 2.000
                 3rd Qu. : 2.000
                                  3rd Qu.: 3.250
                                                    3rd Qu. : 2.000
      :9.000
                                                          :5.000
                        :9.000
                                        :85.000
Max.
                 Max.
                                  Max.
                                                    Max.
       :29203
                         :29259
                                         :29491
                                                           : 29302
NA's
                                                    NA's
                 NA's
                                  NA's
     P3Q24
                     P3Q25
                                      P3Q26
                                                     P3Q260ther
 Min.
        :0.000
                 Min.
                         :0.0
                                  Min.
                                         :1.00
                                                   Min.
                                                         : 9
 1st Qu.: 0.000
                 1st Qu.:5.0
                                  1st Qu.: 3.00
                                                   1st Qu.: 9
 Median : 0.000
                 Median:5.0
                                  Median : 6.00
                                                   Median:54
Mean :1, 117
                 Mean
                        :4.8
                                  Mean : 4, 59
                                                   Mean :54
 3rd Qu.: 0.000
                 3rd Qu. :5.0
                                  3rd Qu.: 6.00
                                                   3rd Qu.:99
       :7.000
                                          :9.00
                                                           :99
Max.
                 Max.
                         :7.0
                                  Max.
                                                   Max.
 NA's
       : 2848
                 NA's
                         :32596
                                  NA's
                                          :41026
                                                   NA's
                                                           :41451
    Hhwe i ght
Min.
       : 11.44
 1st Qu.: 73.82
Median : 102.68
Mean : 117. 91
 3rd Qu.: 146.82
 Max.
       :595.14
##### INC #####
> dim( INC )
[1] 4126
> summary( INC )
    PersID
                                                              VillageID
                         HhID
                                           SerialNr
Length: 4126
                     Length: 4126
                                         Length: 4126
                                                            Length: 4126
                                                            Class :character
Class :character
                     Class :character
                                         Class :character
Mode :character
                    Mode :character
                                         Mode :character
                                                            Mode :character
 DistrictID
                       Province
                                         VillageType
                                                         Interview Month
 Length: 4126
                     Length: 4126
                                         Min.
                                               :1.000
                                                         Min.
                                                               : 1,000
 Class :character
                     Class :character
                                         1st Qu.: 1.000
                                                         1st Qu.: 4.000
 Mode :character
                     Mode :character
                                         Median : 1,000
                                                         Median : 7,000
                                         Mean
                                               :1.526
                                                         Mean : 6.768
                                                         3rd Qu.: 9.000
                                         3rd Qu. : 2.000
                                                :3.000
                                                                 :12.000
                                         Max.
                                                         Max.
```

P1Q6

:1.000

Min.

P1Q5

: 0.00

Min.

P1Q2

Min.

:1.000

P1Q3

:1.000

Min.

```
1st Qu.: 1.000
                 1st Qu.: 1.000
                                  1st Qu.: 27.00
                                                   1st Qu. : 2.000
Median : 2,000
                                  Median :39.00
                                                   Median : 2,000
                 Median : 1,000
 Mean : 2. 353
                                  Mean : 38. 98
                 Mean : 1. 341
                                                   Mean : 1.874
 3rd Qu. : 4.000
                 3rd Qu. : 2.000
                                  3rd Qu. :50.00
                                                   3rd Qu. : 2.000
                                                   Max.
 Max.
       :9.000
                         :2.000
                                  Max.
                                         :92.00
                                                          :4.000
                 Max
      P107
                     Hhwe i ght
                                       Incom800
                                                           Incom801
        : 1.000
                         : 12.76
                                    Min.
                                                        Min.
Min.
                  Min.
                                                  800
                                                              : 20000
 1st Qu.: 1.000
                  1st Qu.: 86.78
                                              300000
                                                        1st Qu.: 300000
                                    1st Qu.:
                                              500000
 Median : 1.000
                  Median :124.02
                                    Median :
                                                        Median : 500000
 Mean : 4.702
                        :142.84
                                              696501
                                                              : 739806
                  Mean
                                    Mean
                                                        Mean
                  3rd Qu. :165.89
                                              750000
 3rd Qu.: 1.000
                                    3rd Qu.:
                                                        3rd Qu.: 800000
Max.
        :50,000
                          :595.14
                                            :30000000
                                                               :3000000
                  Max.
                                    Max.
                                                        Max.
                                    NA's
                                           :966
                                                        NA's
                                                               :4090
    Incom802
                        Incom803
                                           Incom804
                                                               Incom805
Min.
      :
            30000
                          :
                                30000
                                        Min.
                                               :
                                                     5000
                                                            Min.
                                                                 :
                                                                       70000
 1st Qu.:
           100000
                    1st Qu.:
                               166667
                                        1st Qu.:
                                                  300000
                                                            1st Qu.: 375000
 Median :
           200000
                    Median :
                              420000
                                        Median :
                                                  690500
                                                            Median: 1000000
 Mean
           764637
                    Mean
                           : 1271848
                                        Mean
                                               : 1275161
                                                            Mean
                                                                  : 2572645
 3rd Qu.: 500000
                    3rd Qu.: 1260000
                                        3rd Qu.: 1135000
                                                            3rd Qu.: 3225000
       :15000000
                          :10500000
                                               :14000000
                                                                   :20000000
 Max.
                    Max
                                        Max
                                                            Max.
 NA's
       : 4029
                    NA's
                            : 4049
                                        NA's
                                                :4070
                                                            NA's
                                                                   :4095
    Incom806
                        Incom807
                                          Incom808
                                                              Incom809
                                                   10000
 Min.
       :
            30000
                    Min.
                            : 15800
                                       Min.
                                              :
                                                           Min.
                                                                  :1.40e+04
 1st Qu.: 462500
                    1st Qu.: 365000
                                       1st Qu.:
                                                 225500
                                                           1st Qu.: 9,00e+05
 Median : 775000
                    Median : 500000
                                       Median :
                                                 500000
                                                           Median : 1, 58e+06
 Mean : 4915556
                    Mean : 702088
                                       Mean : 1037069
                                                           Mean : 3. 13e+06
 3rd Qu.: 1825000
                    3rd Qu.: 710500
                                       3rd Qu.: 1000000
                                                           3rd Qu. : 2. 88e+06
Max.
        :56000000
                    Max.
                            :4700000
                                       Max.
                                              :10000000
                                                           Max.
                                                                  :1.10e+08
 NA's
        :4108
                            :4017
                                       NA's
                                               :3776
                                                           NA's
                                                                  :3714
                    NA's
    Incom810
                       Incom811
                                          Incom812
                                                            Income0th
Min.
       :
            9000
                          : 15000
                                              :
                                                  38000
                                                           Length: 4126
                   Min.
                                       Min.
 1st Qu.: 120000
                             247500
                                                 256500
                   1st Qu.:
                                       1st Qu.:
                                                           Class :character
Median : 300000
                   Median: 755000
                                       Median : 600000
                                                           Mode :character
 Mean : 540811
                   Mean : 2103781
                                       Mean : 1378298
 3rd Qu.: 503000
                   3rd Qu.: 2410000
                                       3rd Qu.: 1525000
        :2800000
                          :13000000
 Max.
                   Max.
                                       Max.
                                               :11960000
NA's
        :4083
                   NA's
                         : 4094
                                       NA's
                                               :4079
##### DIA #####
> dim( DIA )
[1] 1358317
                 19
> summary( DIA )
                                         VillageID
  SerialNr
                        HhID
                                                              Province
 Length: 1358317
                                        Length: 1358317
                                                            Length: 1358317
                    Length: 1358317
 Class :character
                    Class :character
                                        Class :character
                                                            Class :character
 Mode :character
                    Mode :character
                                        Mode :character
                                                            Mode :character
```

DistrictID VillageType Hhnumber Interview\_Month Length:1358317 Min. :1.000 Min. : 1.00 Min. : 1.000 Class:character 1st Qu.:1.000 1st Qu.: 7.00 1st Qu.: 4.000

```
Mode :character
                    Median : 2.000
                                     Median :16.00
                                                     Median : 7.000
                    Mean : 1, 839
                                     Mean : 13, 58
                                                     Mean : 6, 612
                    3rd Qu. : 2.000
                                                     3rd Qu.: 10.000
                                     3rd Qu. : 20.00
                          :3,000
                    Max.
                                     Max.
                                          :31.00
                                                     Max.
                                                           :12,000
    DiarvID
                        Page
                                       Serial 1
                                                           Unit
      :
                         : 3.00
                                                           : 1.000
 Min.
               1
                   Min.
                                    Min.
                                                  1
                                                      Min.
                                                      1st Qu.: 1.000
 1st Qu.: 339761
                   1st Qu.: 6.00
                                    1st Qu.:
                                               2479
                                                      Median : 4.000
 Median: 679482
                   Median :10.00
                                    Median :
                                               4861
                                               5599
 Mean : 679464
                   Mean : 10. 42
                                    Mean :
                                                      Mean : 5.851
 3rd Qu.: 1019161
                   3rd Qu. :14.00
                                    3rd Qu.:
                                               7503
                                                      3rd Qu.: 9.000
      :1358869
                         :24.00
                                           :8006223
                                                           :118.000
 Max.
                   Max.
                                    Max.
                                                      Max.
                                    NA's
                                           :93
                                                      NA's
                                                            :6
                                                           Produced
    Quantity
                         Kip
                                             Kind
 Min. : 0.000
                    Min. :1.00e+00
                                             :1.000
                                        Min.
                                                        Min. :1.000
                    1st Qu. : 2. 00e+03
           1.000
                                        1st Qu. : 1.000
 1st Qu.:
                                                        1st Qu.: 1.000
 Median :
            1.000
                    Median :5.00e+03
                                        Median : 2.000
                                                        Median : 1.000
 Mean
            3.188
                    Mean : 3, 41e+04
                                        Mean : 1, 704
                                                        Mean : 1, 003
 3rd Qu.:
            3.000
                    3rd Qu. : 1. 20e+04
                                        3rd Qu. : 2, 000
                                                        3rd Qu. : 1, 000
 Max.
       :2700,000
                    Max.
                           :5.00e+08
                                        Max.
                                              :4.000
                                                        Max. :3.000
 NA's
       :620
   Purpose
                     Item
                                   Hhwe i ght
 Min.
       :1.00
                Min.
                      : 1.0
                                Min.
                                      : 11.44
 1st Qu. : 2.00
                1st Qu.: 124.0
                                1st Qu.: 75.94
 Median :2.00
                Median : 135.0
                                Median : 109, 52
 Mean : 2. 01
                Mean : 185. 5
                                Mean : 124. 21
 3rd Qu. :2.00
                3rd Qu.: 199.0
                                3rd Qu.: 153.52
 Max. : 3.00
                       :812.0
                                      :595.14
                Max.
                                Max.
##### DUR #####
> dim( DUR )
[1] 83753
           13
> summary( DUR )
                                                      DistrictID
       HhID
                      SerialNr
                                      VillageID
 010501103:
              24
                   0009891:
                              30
                                   0105013: 282
                                                    0106
                                                          : 2293
                                                           : 1672
 010200723:
                   0004681:
                                   0701001:
              23
                              25
                                              267
                                                    0901
                                   0103030:
 010204814:
              23
                   0000271:
                                              265
                                                    0101
                                                           : 1610
                              24
                                   0101013:
 010205320:
              23
                   0000309:
                              23
                                              262
                                                    1301
                                                           : 1602
 010100713:
              22
                   0000715:
                               23
                                   0102007:
                                              254
                                                    0501
                                                           : 1598
 010101319:
              22
                   0000728:
                               23
                                   0106061:
                                              253
                                                    0103
                                                          : 1595
                                    (Other):82170
 (Other) :83616
                   (Other):83605
                                                    (Other):73383
    Province
                  VillageType
                                  Interview_Month
                                                     Hhweight
 01
       :10782
                       :1.000
                                 Min. : 1.00
                                                  Min.
                                                        : 11.44
                 Min.
        : 8694
                                 1st Qu.: 4.00
                                                  1st Qu.: 78.60
 13
                 1st Qu.: 1.000
       : 6461
 16
                 Median : 2,000
                                 Median : 7.00
                                                  Median :111.47
 10
        : 6435
                 Mean
                       :1. 791
                                 Mean : 6.55
                                                  Mean : 125. 71
        : 6009
                 3rd Qu. : 2, 000
                                 3rd Qu.: 9.00
                                                  3rd Qu.: 155.13
 12
        : 5550
                        :3.000
                                 Max.
                                        :12.00
                                                  Max.
                                                         :595.14
                 Max
 (Other):39822
                     P8Q1a
                                      P8Q1b
                                                        P8Q2
    DurCode
 Min. : 1.00
                 Min. : 0.00
                                 Min. : 1.00
                                                   Min. :1.000e+03
 1st Qu.: 9.00
                 1st Qu.: 0.00
                                  1st Qu.: 1.00
                                                   1st Qu.:5.000e+04
 Median :17.00
                 Median : 0.00
                                 Median: 1.00
                                                   Median : 2.100e+05
```

```
Mean : 16.04
                 Mean
                       : 0.01
                                  Mean : 1.77
                                                    Mean
                                                           :1.944e+07
 3rd Qu. : 22, 00
                 3rd Qu.: 0.00
                                  3rd Qu.:
                                            2.00
                                                    3rd Qu. : 1. 296e+06
        :32.00
                         :30.00
                                          :220.00
                                                           :6. 498e+11
Max.
                 Max.
                                  Max.
                                                    Max.
                 NA's
                         :39243
                                  NA's
                                          :5980
     P80th
Min.
        :32
 1st Qu.:32
Median :32
Mean
       :32
 3rd Qu.:32
Max.
        :32
NA's
        :83752
### Housing ###
> dim(Housing)
[1] 8296
> summary (Housing)
  SerialNr
                         HhID
                                         VillageID
                                                              Province
                                        Length:8296
Length: 8296
                     Length: 8296
                                                            Length:8296
 Class :character
                     Class :character
                                        Class :character
                                                            Class :character
 Mode :character
                     Mode :character
                                        Mode :character
                                                            Mode :character
 DistrictID
                     VillageType
                                                      Interview_Month
                                        Hhnumber
 Length:8296
                     Min.
                          :1.000
                                     Min.
                                           : 1.00
                                                      Min.
                                                            : 1.000
 Class :character
                     1st Qu. : 2.000
                                     1st Qu.: 7.00
                                                      1st Qu.: 3.750
 Mode :character
                     Median : 2.000
                                     Median : 16.00
                                                      Median : 6.000
                     Mean : 1.882
                                     Mean : 13, 68
                                                      Mean : 6, 473
                     3rd Qu. : 2.000
                                     3rd Qu. : 20.00
                                                      3rd Qu.: 9.000
                                     Max.
                                                             :12,000
                     Max.
                          :3,000
                                            :31.00
                                                      Max.
      P9Q1
                   P9Q10th
                                           P9Q2
                                                              P9Q3a
        :1.000
                 Length:8296
                                                         Min.
                                                                 :0.000
Min.
                                     Min.
 1st Qu. : 1.000
                 Class :character
                                     1st Qu.:
                                                300000
                                                         1st Qu.: 3.000
                 Mode :character
                                                         Median : 4.000
Median : 1,000
                                               720000
                                     Median :
Mean :1.018
                                     Mean : 2012094
                                                         Mean : 3. 542
                                     3rd Qu.: 1800000
 3rd Qu. : 1.000
                                                         3rd Qu. : 5.000
Max.
        : 4. 000
                                     Max.
                                             :67000000
                                                         Max.
                                                                :8.000
                                                         NA's
                                                                 :181
     P9Q3b
                   P9Q30th
                                          P9Q4
                                                        P9Q40th
Min.
        :0.000
                 Length: 8296
                                     Min.
                                             :1.000
                                                      Length: 8296
 1st Qu.: 0.000
                 Class :character
                                     1st Qu.: 3.000
                                                      Class :character
Median :4.000
                 Mode :character
                                     Median : 3.000
                                                      Mode :character
Mean
       : 2, 398
                                     Mean : 3, 576
 3rd Qu. : 4.000
                                     3rd Qu. : 4.000
        :8.000
                                             :7.000
Max.
                                     Max.
NA's
        :4799
                                     P9Q6a
      P9Q5
                     P9Q50th
                                                       P9Q6b
        :1.000
                                 Min. : 0.00
                                                   Min. : 0.000
Min.
                 Min.
                       :4
 1st Qu. : 2.000
                                 1st Qu.:
                                                   1st Qu.: 0.000
                 1st Qu.:4
                                           4.00
 Median : 4.000
                 Median:4
                                 Median :
                                           7.00
                                                   Median : 2.000
 Mean : 3. 737
                 Mean
                                 Mean : 9.51
                                                   Mean : 3.376
```

```
3rd Qu. : 4.000
                 3rd Qu.:4
                                 3rd Qu.: 12.00
                                                  3rd Qu.: 5.000
       :7.000
                        :4
                                        :150.00
                                                  Max. :36.000
 Max.
                 Max.
                                 Max.
                 NA's
                        :8295
                                                  NA's
                                                         : 6383
                                                       P9Q80th
      P9Q7
                                          P9Q8
                       P9Q7b
 Min.
       :
            4.00
                   Min. : 0.000
                                            :1.000
                                                     Length: 8296
                                     Min.
           35.00
                   1st Qu.: 2.000
                                     1st Qu. : 2.000
                                                     Class :character
 1st Qu. :
                   Median : 2.000
 Median: 49.00
                                     Median : 2.000
                                                     Mode :character
                   Mean : 2.429
 Mean : 63.99
                                     Mean : 3.008
 3rd Qu.: 72.00
                   3rd Qu.: 3.000
                                     3rd Qu. : 4.000
       :6800.00
                                            :6.000
 Max.
                   Max.
                         :12.000
                                     Max.
      P9Q9
                       P9Q10
                                       P9Q100th
                                                             P9Q11
 Min.
        :
            0.00
                   Min. : 1.000
                                     Length:8296
                                                        Min.
                                                                     0.00
                   1st Qu.: 2.000
 1st Qu.:
            0.00
                                     Class :character
                                                                     0.00
                                                        1st Qu.:
                   Median : 2.000
                                     Mode :character
 Median :
            8.00
                                                                    15.00
                                                        Median :
 Mean : 59.99
                   Mean : 2.935
                                                        Mean
                                                                    85.48
 3rd Qu.: 50.00
                   3rd Qu.: 4.000
                                                        3rd Qu.:
                                                                    60.00
                         :60.000
 Max.
      :8000,00
                   Max.
                                                        Max.
                                                               :10000.00
 NA's
       : 2
                   NA's
                          :3
    P9012
                   P9Q120th
                                         P9013
                                                      P90130th
 Min.
       :0.000
                 Length:8296
                                            :0.00
                                                    Length:8296
                                     Min.
 1st Qu. : 2.000
                 Class :character
                                     1st Qu.: 1.00
                                                    Class :character
 Median : 2.000
                 Mode :character
                                     Median :2.00
                                                    Mode :character
 Mean : 3. 227
                                     Mean :1.68
 3rd Qu. :5.000
                                     3rd Qu. : 2.00
 Max.
        :5.000
                                     Max.
                                            :5.00
 NA's
       :9
                                     NA's
                                           ∶6
     P9Q14
                   P9Q140th
                                         P9Q15
                                                        P9Q150th
 Min.
        :0.000
                 Length:8296
                                     Min.
                                           :0.000
                                                     Length:8296
 1st Qu. : 3.000
                 Class :character
                                     1st Qu.: 1.000
                                                     Class :character
 Median : 3.000
                 Mode :character
                                     Median : 1.000
                                                     Mode :character
 Mean : 3. 352
                                     Mean : 2. 598
 3rd Qu. : 3.000
                                     3rd Qu. : 4.000
       :8,000
                                            :6.000
 Max.
                                     Max.
 NA's
       :2
                                     NA's
                                            :8
    Hhwe i ght
                  New. Province
                  Length:8296
 Min.
       : 11.44
 1st Qu.: 75.06
                  Class :character
 Median :103.98
                  Mode :character
 Mean :118.68
 3rd Qu. :148.03
 Max.
      :595. 15
### Purchase ###
> dim(Purchase)
[1] 12609
> summary (Purchase)
   SerialNr
                                         VillageID
                                                              Province
                        HhID
 Length: 12609
                    Length: 12609
                                        Length: 12609
                                                           Length: 12609
 Class :character
                    Class :character
                                        Class :character
                                                           Class :character
 Mode :character
                    Mode :character
                                        Mode :character
                                                           Mode :character
```

DistrictID	VillageType	Hhnumber	Interview_Month
Length: 12609	Min. :1.000	Min. : 1.00	Min. : 1.000
Class :character	1st Qu.:1.000	1st Qu.: 7.00	1st Qu.: 4.000
Mode :character	Median :2.000	Median :16.00	Median : 7.000
	Mean : 1. 781	Mean :13.51	Mean : 6.534
	3rd Qu. : 2. 000	3rd Qu.:20.00	3rd Qu.: 9.000
	Max. :3.000	Max. :31.00	Max. :12.000
P14S1 It	emB Bou	ght Kip	В
Min. :1 Min.	:201 Min.	:1.000 Min. :	0
1st Qu.∶1 1st Qu	ı. :218 1st Qu.	:1.000 1st Qu.:	90000
Median :1 Mediar	n :270 Median	:1.000 Median :	300000
Mean :1 Mean	:259 Mean	:1.001 Mean :	1732785
3rd Qu. :1 3rd Qเ	ı.:295 3rd Qu.	:1.000 3rd Qu.:	1080000
Max. :1 Max.	:356 Max.	:2.000 Max. :	796000000
ItemB2080th	ItemB2370th	ItemB2720th	ItemB3040th
Length: 12609	Length: 12609	Length:12609	Length: 12609
Class :character	Class :charact	er Class :chara	cter Class :character
Mode :character	Mode ∶charact	er Mode ∶chara	cter Mode :character

Hhweight New Province
Min.: 11.44 Length:12609
1st Qu.: 76.36 Class:character
Median:109.13 Mode:character

Mean : 124.34 3rd Qu. :155.13 Max. :595.15

#### The above results were summarized in the next table.

## Table: Organization of original micro data files

R data frame	Original file name	nrow	original ncol	Unit	Questionnaire	Remarks
ННВ	HhHouseholds	8,296	33	Household	Household business: summary of VIII, X, XI, XII, XIV, XV and XVI	
IND	HhComposition	48,021	19	Individual	Household Questionnaire/I Household composition	
EDU	HhEducation	41,455	53	Individual	Household Questionnaire/III Education	
INC	HhIncome	4,126	28	Individual	Household Questionnaire/XV Income and transfers	
DIA	HhDiarySheet	1,358,317	19	Household, Transaction	Diary Sheet	
DUR	HhDurables	83,753	13	Household, Durables	Household Questionnaire/ VIII Household possession of durables	
Housing	HhHousing	8296	37	Household	Household Questionnaire/ IX Housing conditions	
Purchase	HhPurchase1	12609	17	Household ItemB	Household Questionnaire/ XIV Households' purchase and selling of durables	

Note: The number of ncol is based on the original data files, excluding the variable of New. Province.

#### **Problems found:**

1. The next variables included terms in Lao language and could not be displayed in the console.

EDU\$P3Q4Other EDU\$P3Q12Other INC\$IncomeOth

2. In DiarySheet data frame (DIA) when converted from SPSS using parameter "use.value.labels=T", the variable of Item was a factor variable in R, which has the value of ItemNo as numeric, and the level of ItemDescription. It was not convenient for data processing. Also, when converted from SPSS using parameter "use.value.labels=F", the variable of Item is composed of item code, which is different from ItemNo

For convenience of usages by other software, the values and the levels of the factor variable were converted to different variables; ItemNo and ItemDescription, which will be included in DIA.

```
> df<-data. frame(read. spss("HhDiary Sheet. sav", use. value. labels=T))
> str(df)
data.frame':
                1358317 obs. of 19 variables:
                                                    ", "0000001", . . : 267 267 267 267 267
 $ SerialNr
                  : Factor w/ 8281 levels ".
                  : Factor w/ 8296 levels "010100102", "010100103", . . : 1 1 1 1 1 1 1 1 1
 $ HhID
 $ Item
                  : Factor w/ 443 levels "Glutinous rice", . . : 322 321 11 12 322 284 271 . . . .
> head(df$Item)
[1] Take away food
                              Catering, sit-down meals Other
[4] Pork
                              Take away food
                                                        Mobile phone charges
443 Levels: Glutinous rice Ordinary rice Maize grain Flour Salapau bread ... Other current
tranfers Specify\x85
> head(as.numeric(df$Item))
[1] 322 321 11 12 322 284
> head(as. character(df$Item))
                                "Catering, sit-down meals" "Other"
[1] "Take away food"
[4] "Pork"
                                "Take away food"
                                                            "Mobile phone charges"
```

- The values of the vector "Item"
- > ItemNo<-as.numeric(df\$Item)
  > head(ItemNo)
  [1] 322 321 11 12 322 284
  > length(ItemNo)
  [1] 1358317
  - The levels of the vector "Item"
- > ItemDescription<-as.character(df\$Item)

• Appended the variables of ItemNo and ItemDescription to DIA.

```
> DIA$ItemNo<-ItemNo
> DIA$ItemDescription<-ItemDescription
> outfiles[[5]]<-DIA</pre>
```

#### • List of ItemNo and ItemDescription

```
> df<-data.frame(ItemNo, ItemDescription)
> dim(df)
[1] 1358317
> df2 < -subset(df, !duplicated(df))
> dim(df2)
[1] 443 2
> item.list<-df2[order(df2$ItemNo),]
> dim(item.list)
[1] 443 2
> head(item.list)
     ItemNo ItemDescription
117
         1 Glutinous rice
319
          2
             Ordinary rice
2267
          3
                Maize grain
6422
          4
                      Flour
3728
              Salapau bread
344
                Other bread
> tail(item.list)
       ItemNo
                                   ItemDescription
12260
          438
                        Pension and life insurance
2493
          439
                Remittance, gifts in cash for Laos
          440 Remittance, gifts in cash for abroad
17861
124984
                Remittance, gifts in kind for Laos
144147
          442 Remittance, gifts in kind for abroad
10625
          443 Other current tranfers Specify\(\pm\x85\)
```

#### 5.3. Frequency tables of categorical variables

```
> file. names<-c ("HHB", "IND", "EDU", "INC", "DIA", "DUR")
> file. list<-list(HHB, IND, EDU, INC, DIA, DUR)
> HHBno<-9:29
> INDno<-c (11, 12, 17, 18)
> EDUno<-c (11:14, 16, 17, 20, 22, 27, 38, 43, 45, 46, 48, 51)
> INCno<-c (9, 10, 12, 13)
> DIAno<-c (12, 15:17)
> DURno<-9
> check. list<-list(HHBno, INDno, EDUno, INCno, DIAno, DURno)
> for(j in 1:length(file.names)) {
+ for(k in check.list[[j]]){
+ variable.name<-colnames(file.list[[j]])[k]
+ cat(c("----", variable. name, "---
+ print(table(file.list[[j]][k], useNA="ifany"))
+ }
----- P8 --
 1 2
8282 14
----- P10Q1a_1 ------
 1 2
646 7650
----- P10Q1a_2 ------
 74 8222
 ---- P10Q1a_3 -----
 1 2
 39 8257
---- P11Q1S1 -----
 1 2
2012 6284
---- P12S1Q1 -----
 1 2
7037 1259
----- P12S3Dry ------
7083 1213
---- P12S3Wet -----
1480 6816
----- P12S5Q1 ------
1 2
 --- P12S6Q1 -----
 1 2
6360 1936
```

---- P12S7Q1 -----

```
1 2
1986 6310
---- P12S7Q2 -----
1 2
777 7519
---- P12S8Q1 --
1 2
6379 1917
----- P14S1 -----
5113 3183
---- P14S2 ----
1 2
1150 7146
----- P14S3 ----
 1 2
 73 8223
---- P14S4 --
 1 2
 18 8278
---- P14S5
 1 2
 21 8275
---- P15 ·
1 2
2568 5728
---- P16S1Q1 -----
1 2
1767 6529
---- P16S2Q1 -----
 1 2
756 7540
----- P1Q2 -----
 1 2 3 4 5 6
                         7 8 9
8296 7714 1650 23488 1962 537 264 4083 27
----- P1Q3 -
23777 24244
----- P1Q6 -----
        3
 1 2
25791 20402 457 1371
---- P1Q7 -----
 1 2 3 4
                5 6 7 8 9 10
244 8 4 182 6048 270
                                         11
                                              12
                                                 13 14
                                                          16
22570 1809 1494 1643
                                                          288
 17
    18
        19
             20
                 21 22 23 24 25
                                     26
                                         27 28 29 30
                                                          31
 27 857
             272
                                      205
         620
                 512 801 675
                            61 101
                                          747 277
                                                  330 101
 32
                 38 41
                                         47 48 49
     34
         35
             37
                         42
                             43
                                 44
                                      46
                                                      50
 208
     1
          80
              99
                 5 1291
                          716
                              231 1
                                      113
                                           84 4471
                                                  7
                                                      250
```

```
---- P3Q1 ----
1 2 3
26809 5180 9466
---- P3Q2 -----
1 2 3
26549 5319 9587
----- P3Q3 -----
 1 2
32761 8694
----- P3Q4 -
 1 2 3 4
                    5 6
                            7
                                   9 <NA>
 765 65 2764 1801 1640 1028 108 176 317 32791
---- P3Q5 -----
 0 1 2 <NA>
 5 2551 30192 8707
---- P3Q6 -----
 1 2 3 <NA>
9250 3011 20495 8699
----- P308 -----
 1 2
         3
             9 <NA>
11668 226
             5 29544
        12
---- P3Q9 -
 1 2
22 4
                           7
               4
                   5
                        6
                                     9 10 <NA>
                                     2 3 41355
           5
              28
                   12
                        9
                            14
                                1
----- P3Q12 -
 1 2 3
              4
                   5
                       6
                            7
                                8
                                    99 <NA>
 241 1200 1127 510
                   28
                       67
                            8
                                84
                                    21 38169
----- P3Q15 -----
 0 1 2 <NA> 50 686 11450 29269
 --- P3Q19 -----
 1 2 3
                               9 <NA>
               4
                   5
                        6
                          7
8650 1924 1347
                                17 29262
              47
                  145
                       13
                           50
---- p3Q20 -----
  0 1 2
               3
                    7
                        9 <NA>
 7 5670 5112 1460
                        2 29203
                    1
 ---- P3Q21 -----
 0 1 2
                       5 6
1 1
                                9 <NA>
               3
                    4
  94 5666 6420
                                2 29259
              10
                    2
----- P3Q23 -----
 0 1 2
               3
                       5 <NA>
 18 9085 3031
                    5
                      10 29302
----- P3Q26 -
 1 2
         3
               4
                    5
                       6
                          9 <NA>
  33 50
          36
              72
                    2
                          5 41026
                       231
----- P1Q2 --
1 2 3 4 5
                  6
                      7
                         8
                              9
2042 609 54 1074 249 14 12
                          70
                              2
```

---- P1Q3 ---1 2 2717 1409

```
---- P1Q6 -
 1
      2
          3
              4
886 3020
         73
            147
---- P1Q7
                         7
 1
    2
          3
              4
                  5
                      6
                              8
                                 9
                                     10
                                         11
                                            12
                                                 13
                                                    16
                                                        17
                                                            18
                                                                19
                                                                    20
3130 142
             53
                 22
                      3
                                205
                                             3
                                                         2
        118
                         1
                             1
                                     44
                                         1
                                                 1
                                                     4
                                                            11
                                                                26
                                                                    4
                                            34
 21
     22
         23
             24
                 25
                     26
                         27
                             28
                                29
                                     30
                                         32
                                                38
                                                    41
                                                        42
                                                            43
                                                                    48
                                                                47
                     25
                         45
                                     2
                                         3
                                                 2
 12
     56
          4
             11
                 16
                             10
                                 23
                                             1
                                                    14
                                                        24
                                                             5
                                                                    74
 49
     50
  1
     26
---- Unit --
         2
  1
                                    7
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600879 36327
             708 165032 138849
                            43256
                                  3370 16266
                                            25437
                                                   4325
                                                        5314 34917
                                                                   8584
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                   17
                         18
                              97
                                   118
                                        <NA>
34292 49489
           10802
                   412 180050
                               1
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                                          6
---- Kind --
  1
         2
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                   4
571847 701284
             437 84749
  -- Produced -
           2
                 3
    1
1354433
        3883
                 1
---- Purpose -
   1
                 3
 79438 1186529
              92350
---- DurCode --
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7917 269 871 557 4288 3321 105 2644 1218
                                    392
                                         40 2307 7164 7295 2024 337 6706 5216
 19 20
        21
            22 23
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                                                    32
997 4651 162 4357 4941 696 3372 324 1530 130
                                        163 1773 7425 561
> no<-c (9, 12, 13, 17, 22, 23, 26, 29, 31, 33, 35)
> for(k in no) {
+ variable.name<-colnames(Housing)[k]
+ cat(c("\frac{"}{n----", variable. name, "----
+ print(table(Housing[k], useNA="ifany"))
+ }
---- P9Q1
 1
      2
          3
              4
8210
     22
              3
         61
  -- P9Q3a
  0
          2
                              7
                                 8 <NA>
    1
```

39	1867	27	100	4021	2005	8	17	31	181			
	- P9Q3	3b										
0	1	2	3	4	5	6	7	8	<na></na>			
							12					
	- P9Q!	5										
1	2	3	4	5	6	7						
62	2046	67	4653	812	618	38						
	- P9Q	7b										
									9			
70	1788	2773	2462	816	227	122	17	14	5	1	1	
		_										
		8										
			4									
/60	3/42	1221	945	501	1127							
	DOO:	10										
						10	20	20	40			
									1			
//4	3002	1270	1133	12	1103	'	'	'	'	'	3	
	- P90	12										
			3			<na></na>						
			588									
	- P9Q	13										
0	1	2	3	4	5	$\langle NA \rangle$						
3	2964	5049	228	45	1	6						
0	1	2	3	4	5	6	7 69	8	<na></na>			
1	104	33	6577	139	1363	7	69	1	2			
	DOO:	1.5										
			3									
2	4368	183	281	2196	3/5	883	8					

# 

---- Bought -----

1 2 12602 7

<sup>&</sup>gt; table (Purchase\$Bought, useNA="ifany")

#### #### Cross table in EDU ####

• Level and class now or last year > addmargins(table(EDU\$P3Q7a, EDU\$P3Q7b, useNA="ifany"))

	Clas	s→								
Level	0	1	2	3	4	5	6	9	$\langle NA \rangle$	Sum
0	46	0	0	0	0	0	0	0	23	69
1	31	2338	1742	1406	1284	1149	0	0	14	7964
2	2	841	850	664	0	0	0	0	1	2358
3	0	427	495	519	0	0	0	0	11	1452
4	0	64	58	40	0	0	0	0	0	162
5	0	62	71	54	42	21	2	1	1	254
<na></na>	0	1	0	0	0	0	0	0	29195	29196
Sum	79	3733	3216	2683	1326	1170	2	1	29245	41455

Highest level and class completed
 addmargins (table (EDU\$P3Q11a, EDU\$P3Q11b, useNA="ifany"))

	Clas	ss→										
Level	0	1	2	3	4	5	6	7	8	9	<na></na>	Sum
0	442	1	0	0	0	0	0	0	0	0	784	1227
1	214	2670	3287	3830	2747	6694	0	0	0	0	254	19696
2	3	1669	1610	3153	0	0	0	0	0	0	1	6436
3	2	592	726	1935	0	0	1	0	0	0	2	3258
4	1	163	159	975	0	0	0	0	0	0	1	1299
5	0	73	91	171	108	193	15	20	3	31	1	706
9	0	0	0	0	0	0	0	0	0	4	1	5
<na></na>	0	1	0	1	0	0	0	0	0	0	8826	8828
Sum	662	5169	5873	10065	2855	6887	16	20	3	35	9870	41455

### #### ItemNo in DIA ####

- > ItemNo<-as.numeric(DIA\$Item)
- > table(DIA\$ItemNo)

	•			_		_	•	•	40	
7501	2	3	4	5	1000	7	8	9	10	11
7521	2267	1500	48	450	1893	8531	2696		11516	10782
12	13	14	15	16	17	18	19	20	21	22
19575	20143	3261	927	1238	4428	1280	3720	22374	2880	2543
23	24	25	26	27	28	29	30	31	32	33
2075	3781	5280	293	1878	841	252	756	309	9482	966
34	35	36	37	38	39	40	41		43	44
1484	1568	74	2944	1693	3470	1115	2032	1196	318	1086
45	46	47	48	49	50	51	52	53	54	55
59 50	19	44	15	223	56	445	203	305	82	4896
56	57	58	59	60	61	62	63	64	65	66
1087	14379	5857	3520	744	131	593	2768	2100	3738	9616
67	68	69	70	71	72 4502	73	74	75	76	77
534	2343	1570	1256	526	4563	61	112	382	108	2030
78	79	80	81	82	83	84	85	86	87	88
8749	3645	4767	266	65	1739	10583	203	101	1146	410
89	90	91	92	93	94	95	96	97	98	99
589	229	99	238	81	240	116	492	3981	2445	33
100	101	102	103	104	105	106	107	108	109	110
1368	4220	2402	528	5229	475	4871	1396	84	490	16024
111	112	113	114	115	116	117	118	119	120	121
288	232	996	1030	4261	4428	2429	403	5494	248	381
122	123	124	125	126	127	128	129	130	131	132
407	934	23364	4451		173259	30144	1448	362	1212	488
133	134	135	136	137	138	139	140	141	142	143
1240	90479	91154	9566	744	15204	1635	544	65	262	22783
144	145	146	147	148	149	150	151	152	153	154
2659	72114	279	24	141	300	5	2377	11	205	559
155	156	157	158	159	160	161	162	163	164	165
14177	116	586	166	38	27	249	496	177	374	252
166	167	168	169	170	171	172	173	174	175	176
281	139	251	219	76	149	304	222	282	76	212
177	178	179	180	181	182	183	184	185	186	187
235	61	96	220	101	129	2092	23	655	105	23
188	189	190	191	192	193	194	195	196	197	198
595	1883	248	46		114988	1332	13	16	86	6
199	200	201	202	203	204	205	206	207	208	209
31	19	8	129	26	117	58	155	74	29	21
210	211	212	213	214	215	216	217	218	219	220
276	60	9	59	24	29	6	77	95	44	18
221	222	223	224	225	226	227	228	229	230	231
117	136	109	44	40	10	9	43	13	54	724
232	233	234	235	236	237	238	239	240	241	242
71	203	54	84	4	113	196	31	224	12	351
243	244	245	246	247	248	249	250	251	252	253
675	170	66	1065	63	40	28	6420	1205	235	2424
254	255	256	257	258	259	260	261	262	263	264
4	135	403	8349	92	428	155	68	181	40	125
265	266	267	268	269	270	271	272	273	274	275
102	96	655	757	1038	4506		644	597	416	988

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 51
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 22
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576
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 419
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 703
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                        1130
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 430
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        3244
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                          60
                                 112
                                          19
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                                                           38
                                                                  37
                                                                          753
                                                                                 139
 441
         442
                 443
 26
           9
                  52
```

#### # List of frequency by Item

- > t<-tapply(DIA\$DiaryID, DIA\$ItemNo, length)
- > dim(t)
- [1] 443
- > t<-data. frame (Item=names (t), Freq=t, row. names=NULL)
- > tt<-unique(DIA[,c("Item","ItemNo","ItemDescription")])
- > tt<-merge(tt,t)
- > tt[, c(1, 2, 4, 3)]

	J	Z, 4, 3)	L L, G (1, Z	/
ItemDescription	Freq	temNo	Item It	
Glutinous rice	7521	1	1	1
Ordinary rice	2267	2	2	2
Maize grain	1500	3	3	3
Flour	48	4	4	4
Salapau bread	450	5	5	5
Other bread	1893	6	6	6
Dry noodles	8531	7	7	7
Fresh rice noodles	2696	8	8	8
Other noodles	1731	9	9	9
Cakes and biscuits	11516	10	10	10
Other	10782	11	11	11
Pork	19575	12	12	12

10	10	10	00140	D . C
13	13	13	20143	Beef
14 15	14 15	14 15	3261 927	Chicken
16	16	16	1238	Duck, turkey, other bread birds Sausages
17	17	17	4428	Meat from hunting, trapping (wild animals and birds)
18	18	18	1280	Offal
19	19	19	3720	Other meat
20	20	20	22374	Fresh fish
21	21	21	2880	Canned fish
22	22	22	2543	Frozen fish
23	23	23	2075	Dried fish and smoked fish
24	24	24	3781	Prawns, crabs, squid, etc.
25	25	25	5280	Fermented fish
26	26	26	293	Preserved fish
27	27	27	1878	Other
28	28	28	841	Condensed milk
29	29	29	252	Powdered milk
30	30	30	756	Fresh milk
31	31	31	309	Cheese, cream, yogurt
32	32	32	9482	Eggs
33	33	33	966	Other
34	34	34	1484	Lard, dipping (animal fat)
35	35	35	1568	Vegetable oil
36	36	36	74	Other
37	37	37	2944	Bananas
38	38	38	1693	Papayas
39	39	39	3470	Oranges
40	40	40	1115	Pineapples
41	41	41	2032	Lemon, lime
42	42	42	1196	Longan
43	43	43	318	Young coconuts
44 45	44 45	44 45	1086 59	Melon Sepadila
46	46	46	19	Peaches
47	47	47	44	Gooseberry
48	48	48	15	Avocado
49	49	49	223	Custard apple
50	50	50	56	Guava
51	51	51	445	Tamarind
52	52	52	203	Ju jube
53	53	53	305	Jackfruit -
54	54	54	82	Preserved fruits
55	55	55	4896	Other fruits
56	56	56	1087	Water melon
57	57	57	14379	Chilli
58	58	58	5857	Cucumber
59	59	59	3520	Eggplant
60	60	60	744	Wax gourd
61	61	61	131	Loofah
62	62	62	593	Pumpkin
63	63	63	2768	Tomato
64	64	64	2100	Other
65	65	65	3738	Cabbage
66	66	66	9616	Chinese cabbage
67	67	67	534	Water convolvulus
68	68	68	2343	Mustard

69	69	69	1570	Lettuce
70	70	70	1256	Mint
71	71	71	526	Paksi
72	72	72	4563	Coriander
73	73	73	61	Peo
74	74	74	112	Basil
75	75	75	382	Phartemopey
76	76	76	108	Chun chai
77	77	77	2030	Garlic
78	78	78	8749	Onion
79	79	79	3645	Long beans
80	80	80	4767	Bamboo shots
81	81	81	266	Spinach
82	82	82	65	Green pepper
83	83	83	1739	Morning glory
84	84	84	10583	Other vegetables
85	85	85	203	Mungbeans
86	86	86	101	Cowpea
87	87	87	1146	Other legumes
88	88	88	410	Coconuts
89	89	89	589	Peanuts, ground (shelled)
90	90	90	229	Other
91	91	91	99	Potatoes
92	92	92	238	Sweet potatoes
93	93	93	81	Cassava
94	94	94	240	Yam
95	95	95	116	Chips and crisps
96	96	96	492	Other roots and tubers
97	97	97	3981	Sugar
98	98	98	2445	Sweets
99	99	99	33	Honey
100	100	100	1368	Ice cream
101	101	101	4220	Other
102	102	102	2402	Coffee
103	103	103	528	Tea
104	104	104	5229	Chocolate drink, e.g. Ovaltine
105	105	105	475	Other
106	106	106	4871	Salt
107	107	107	1396	Fish, shrimp sauces and paste
108	108	108	84	Tomato sauce
109	109	109	490	Soya
110	110	110	16024	Spices and seasoning
111	111	111	288	Baking powder
112	112	112	232	Vinegar
113	113	113	996	Other, specify
114	114	114	1030	Fruit juice, squashes
115	115	115	4261	Bottled water
116	116	116	4428	Other soft drinks (non-alcohol)
117	117	117	2429	Beer (bought in shops)
118	118	118	403	Beer (taken at bars, etc.)
119	119	119	5494	Lao Lao (bought in shops, etc.)
120	120	120	248	Lao Lao (taken at bars, etc.)
121	121	121	381	Other alcohol (bought in shops, etc.)
122	122	122	407	Other alcohol (taken at bars, etc.)
123	123	123	934	Tobacco for cigarettes
124	124	124	23364	Cigarettes
		121	_0001	Jigai occoo

125	125	125	4451	Pipe tobacco
126	126	126	870	Other smokables
127	127	127	173259	Glutinous rice
128	128	128	30144	Ordinary rice
129	129	129	1448	Maize
130	130	130	362	Other grain crops
131	131	131	1212	Cassava
132	132	132	488	Sweet potatoes
133	133	133	1240	Other roots and tubers
134	134	134	90479	Vegetables, grown
135	135	135	91154	Vegetables collected (growing naturally)
136	136	136	9566	Fruits, grown
137	137	137	744	Fruits collected (growing naturally)
138	138	138	15204	Poultry and poultry products
139	139	139	1635	Own raised pigs (whole or parts)
140	140	140	544	Own raised cattle (whole or parts)
141	141	141	65	Own goats (whole or parts)
142	142	142	262	Other livestock raised (rabbits, ¥x85)
143	143	143	22783	Hunted or trapped animals
144	144	144	2659	Fish cultivated
145	145	145	72114	Fish, captured naturally grown
146	146	146	279	Coffee
147	147	147	24	Tea
148	148	148	141	Coconut
149	149	149	300	Soybean
150	150	150	5	Cardamon
151	151	151	2377	Citronella
152	152	152	11	Areca
153	153	153	205	Ginger
154	154	154	559	Other industrial crops
155	155	155	14177	Other own products, specify
156	162	156	496	Jeans
157	163	157	177	Other trousers
158	164	158	374	Jackets
159	165	159	252	Sportswear
160	166	160	281	Suits
161	167	161	139	T-shirts
162	168	162	251	Shirts
163	169	163	219	Underwear
164	170	164	76	Others
165	171	165	149	Lao skirt
166	172	166	304	Other skirt
167	173	167	222	Suits, dresses
168	174	168	282	Blouse
169	175	169	76	T-shirt
170	176	170	212	Jeans
171	177	171	235	Other trousers
172	178	172	61	Others
173	179	173	96	Shorts
174	180	174	220	Trousers
175	181	175	101	Skirt
176	182	176	129	T-shirt
177	183	177	2092	Shirts
178	184	178	23	Dresses
179	185	179	655	Blouses
180	186	180	105	Others

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181
     187
             181
                     23
                                                                       Tailoring charges
182
     188
             182
                    595
                                                        Cloth, materials for tailoring
183
     189
             183
                   1883
                                                                                 Footwear
                               Gross rent of house or flat (furnished or unfurnished)
184
     190
             184
                    248
185
     191
             185
                     46
                                              Material for repair, maintenance of house
186
             186
                   1076
                                           Labour cost for repair maintenance of house
     192
187
     193
             187 114988
                                         Material + labour if not possible to separate
                   1332
188
     194
             188
                                                                           Water charges
189
     195
             189
                     13
                                                                             Electricity
190
     196
             190
                     16
                                                                                 Kerosene
191
     197
             191
                     86
                                                                                 Charcoal
192
     198
             192
                      6
                                                                   Firewood (purchased)
193
     199
             193
                     31
                                                                Firewood (own produced)
194
     200
             194
                     19
                                                                                    0ther
195
     201
             195
                      8
                                                                                     Beds
196
     202
             196
                    129
                                                                    Tables, chairs sofas
197
     203
             197
                     26
                                                                                 Cupboard
198
     204
             198
                    117
                                                                       Dining room suite
199
     205
             199
                     58
                                                                            Lounge suite
200
     206
             200
                    155
                                                                   Desks and sideboards
     207
             201
                                                                      Stools and benches
201
                     74
     208
                     29
202
             202
                                                                                  0thers
     209
203
             203
                     21
                                                                    Repair of furniture
204
     210
             204
                    276
                                                                           Mats and rugs
205
     211
             205
                     60
                                                                              Bed sheets
206
     212
             206
                      9
                                                                                Blankets
207
     213
             207
                     59
                                                                                   Towels
208
     214
             208
                     24
                                                                                 Curtains
     215
209
             209
                     29
                                                        Table cloth, napkins, serviettes
210
     216
             210
                      6
                                                                                   0thers
                                                                      Repair of textiles
     217
                     77
211
             211
212
     218
             212
                     95
                                                                                  Carpets
213
     219
             213
                     44
                                                        Baskets, ashtrays, laundry bags
214
     220
             214
                     18
                                                             Flower posts, plants boxes
215
     221
             215
                    117
                                                                   Flowers, flower pots
216
     222
             216
                    136
                                                                  Repair of furnishings
217
     223
             217
                    109
                                                                         Lamps, pictures
218
     224
             218
                     44
                                                                                   Others
219
     225
                     40
             219
                                                                       Steam rice cooker
220
     226
             220
                     10
                                                                   Electric rice cooker
221
     227
             221
                      9
                                                                  Electric water cooker
222
     228
             222
                     43
                                                                             Rice basket
223
     229
             223
                     13
                                                                                   Bucket
224
     230
             224
                     54
                                          Stove with or without oven (gas or electric)
225
     231
             225
                    724
                                                              Refrigerator, deep freezer
     232
226
             226
                                                          Iron (electric, non-electric)
                     71
     233
                    203
             227
                                                                         Air conditioner
227
228
     234
             228
                     54
                                                                            Electric fan
229
     235
             229
                     84
                                                                          Sewing machine
230
     236
             230
                      4
                                                                         Washing machine
     237
231
             231
                    113
                                                                          Other, specify
     238
             232
232
                    196
                                                         Repair of household appliances
233
     239
             233
                     31
                                                 Cutlery (knives, spoons, forks, etc.)
234
     240
             234
                    224
                                                Glassware (glasses, glass bowls, etc.)
235
     241
             235
                     12
                                                                         Plates and cups
236
     242
             236
                    351
                                                                                  Tea set
```

237	243	237	675	Dinner set
238	244	238	170	Other
239	245	239	66 1065	Tools for gardening
240 241	246 247	240 241	1065 63	Other tools Repair of utensils
241	247	241	40	Repair of utensits Bulbs
242	249	242	28	Candles
243	250	244	6420	Torches
245	251	245	1205	Mops and brushes
246	252	246	235	Matches
247	253	247	2424	Needles and pins
248	254	248	4	Polish (furniture, floor, metal)
249	255	249	135	Shoe brush and polish
250	256	250	403	Soap laundry
251	257	251	8349	Batteries
252	258	252	92	Hire of furniture and household equipment
253	259	253	428	Other household goods
254	260	254	155	Domestic wages in kind
255	261	255	68	Domestic wages in cash
256	262	256	181	Other household services
257	263	257	40	Medicines
258	264	258	125	Therapeutic appliances and equipment
259	265	259	102	Payment for hospital services medical aid, fees
260	266	260	96	Non-hospital and paramedical services
261	267	261	655	Sickness and accident insurance services
262	268	262	757	0ther
263	269	263	1038	Motor cars and vans
264	270	264	4506	Motor cycles
265	271	265	23618	Bicycles
266 267	272 273	266 267	644 597	Others, specify
268	274	268	416	Tyres and tubes Parts and accessories incl. car batteries
269	275	269	988	Repair charges
270	276	270	935	Gasoline, petrol
271	277	271	473	Diesel oil
272	278	272	9	Other oil and greases
273	279	273	4	Servicing
274	280	274	35	Miscellaneous charges
275	281	275	225	Fares on buses (excl. school bus fares)
276	282	276	18	Fares on taxis and tuc tuc
277	283	277	201	Fares on boats
278	284	278	5415	Tickets on domestic airlines
279	285	279	4	Tickets on international airlines
280	286	280	183	Transport charges of goods
281	287	281	58	Other Description of the Control of
282	288	282	42	Postal service charges
283	289	283	20	Telephone charges (fixed lines)
284	290	284	16	Mobile phone charges
285	291	285	28	Telegraph and telex
286	292	286	9	Radio or radio cassettes, VCD-, DVD-players
287	293	287	73	Television set
288 289	294 295	288 289	8 35	Parabola antenna
289	295 296	289	35 66	Video recorder Cameras
290	297	290 291	288	Musical instrument
292	298	292	200 51	Cellular phone, handsets
202	200	232	01	oortutai pilone, nanusets

293	299	293	46	Telephone sets
294	300	294	308	Computers
295	301	295	34	Repair of such items
296	302	296	1071	Film and develop a photograph
297	303	297	65	Other equipment
298	304	298	16	Parts and accessories of recreational goods
299	305	299	2334	Repair of recreational goods
300	306	300	1887	
				Cinema, theatre tickets
301	307	301	478	Lessons on sports and others
302	308	302	23	Lottery
303	309	303	282	Hire of video tapes
304	310	304	41	Veterinary and other services for pets
305	311	305	88	Traditional ceremonies
306	312	306	305	Other expenditure on recreation and cultural activities
307	313	307	277	Books
308	314	308	472	Magazines, journals and newspaper
309	315	309	33	Pen and pencils
310	316	310	1429	Other stationery
311	317	311	108	Costs for packages tours
312	318	312		Tuition fees (excl. of payments for food, beverage, shelter)
313	319	313	55	Teachers association fee or levy
314	320	314	1781	School uniform (incl. shoes)
315	321	315	6185	
				School sports wear
316	322	316	40972	Stationery for school
317	323	317	73	Border fees
318	324	318	343	Contribution to schools in cash
319	325	319	197	Contributions to schools in kind
320	326	320	4751	Other expenditure on education
321	327	321	2675	Catering, sit-down meals
322	328	322	199	Take away food
323	329	323	79	Expenditure in hotels
324	330	324	608	Services of barber shops, hair dressers
325	331	325	300	Services of beauty shops, massages, etc.
326	332	326	2454	Toilet soap
327	333	327	442	Shampoo
328	334	328	810	Toilet paper
329	335	329	86	Baby diapers
330	336	330	107	Skin cream
331	337	331	50	Tooth brush
332	338	332	11	Tooth paste
333	339	333	131	Powder, perfume
334	340			Other toilet articles
		334	441	
335	341	335	373	Watches
336	342	336	11	Jewelry, rings, precious stones
337	343	337	33	Repair of such items
338	344	338	166	Travel goods
339	345	339	479	Umbrellas
340	346	340	2925	Other personal goods
341	347	341	3223	Fees for legal services in cash
342	348	342	3467	Fees for legal services in kind
343	349	343	1475	Interests
344	350	344	1450	Other financial services
345	351	345	180	Membership fees
346	352	346	441	Rice milling charges
347	353	347	22	Gifts and contribution to Buddhist temple in cash
348	354	348	2501	Remittances given in cash to other households
0-70	007	UTU	2001	Nomine Edition Stront III oddin to other Households

349	356	349	810	Other, specify
350	401	350	1651	Glutinous rice
351	402	351	23109	Ordinary rice
352	403	352	1204	Maize
353	404	353	18719	Other cereals
354	405	354	10494	Home produced crops (see list)
355	406	355	16	Fodder
356	407	356	2429	Industrial crops
357	408	357	62	Vegetables, legumes
358	409	358	589	Roots and tubers
359	410	359	98	Fruits
360	411	360	478	Livestock
361	412	361	12	Poultry
362	413	362	7	Milk products
363	414	363	336	Eggs
364	415	364	16	Wild animals
365	416	365	347	Fish cultivated
366	417	366	226	Fish naturally grown
367				
	418	367	48	Wood, timber, firewood
368	419	368	703	Other sold proucts
369	420	369	14	Other receipts in cash
370	421	370	2	Other receipts in kind
>				·
•				

## Problems found from the above data check;

Data frame	Variable	Problems found
EDU	P3Q4Other, P3Q12Other	Included terms in Lao and could not be displayed on
		the console
EDU	P3Q14i	Definition is unclear
INC	IncomeOth	Included terms in Lao and could not be displayed on
		the console
DIA	Item	Factor variable in R. So, descriptions of items in
		English were displayed as levels.
The next var	riables include off-codes.	
INC	P1Q4a, P1Q4b, P1Q4c,	Included 99/999/9999.
	P1Q5	
EDU	P3Q5, P3Q8, P3Q9, P3Q12,	
	P3Q15, P3Q20, P3Q21,	
	P3Q23, P3Q26	
EDU	P3Q7b, P3Q11a, P3Q11b	
INC	(None)	
DIA	Unit, Produced	
DUR	(None)	

## 5.4 Sample design

#### Number of province

```
> unique (HHB$Province)
[1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17" "18"
> unique (HHB$New. Province)
[1] "01" "02" "03" "04" "05" "06" "07" "08" "09" "10" "11" "12" "13" "14" "15" "16" "17"
```

• The number of provinces in the provided data set was 18. However, there were 17 provinces in Lao PDR according to the survey report.

#### ### Revision of Province codes ###

- □ Prior to 2006, the number of provinces was 18. The special administrative zone Xaisomboun created in 1994 was dissolved on January 13 2006.
- □ Hypothesis: Sample design of LECS4 was conducted based on the results of 2005 Population Census and the administrative code as of 2005 was applied for LECS4 implemented from April 2007 to March 2008. However the new administrative code after dissolution of Xaisomboun in 2006 was used in the official tabulation and publication.
- □ Province codes and new provinces code were provided as "Region Province District Codes.xls" in IHSN website, as discussed in 5.1.

	Province		Region		New Province		New Region
1	Vientiane M	1	Vientiane M	1	Vientiane M	1	Vientiane M
2	Phongsaly	2	North	2	Phongsaly	2	North
3	Luangnamtha	2	North	3	Luangnamtha	2	North
4	Oudumxay	2	North	4	Oudumxay	2	North
5	Bokeo	2	North	5	Bokeo	2	North
6	Luangprabang	2	North	6	Luangprabang	2	North
7	Huaphanh	2	North	7	Huaphanh	2	North
8	Xayabury	2	North	8	Xayabury	2	North
9	Xiengkhuang	3	Central	9	Xiengkhuang	3	Central
10	Vientiane	3	Central	10	Vientiane	3	Central
11	Borikhamxay	3	Central	11	Borikhamxay	3	Central
12	Khammuane	3	Central	12	Khammuane	3	Central
13	Savannakhet	3	Central	13	Savannakhet	3	Central
14	Saravane	4	South	14	Saravane	4	South
15	Sekong	4	South	15	Sekong	4	South
16	Champasack	4	South	16	Champasack	4	South
17	Attapeu	4	South	17	Attapeu	4	South
18	Xaysomboun SR	3	Central				

1	District Code	District Name	Province	<b>New Province</b>
141		Saysomboun	18	10
142		Thathom	18	9
143	1803	Phoun	18	10
144				

According to Wikipedia, the transition might be summarized as follows;

#### Prior to 2006 dissolution of Xaisomboun in 2006 [edit]

- 1. Attapu
- 2. Bokeo
- 3. Bolikhamxai
- 4. Champasak
- 5. Houaphan (Houaphanh)
- 6. Khammouan
- 7. Loung Namtha
- 8. Louangphabang
- 9. Oudomxai
- Phongsali
- 11. Salavan
- 12. Savannakhet
- Vientiane Prefecture and Vientiane Capital (municipality)
- 14. Vientiane Province
- 15. Sainyabuli
- Xaisomboun (special administrative zone, dissolved in 2006)
- 17. Sekong
- 18. Xiangkhoang

Capital Provinces of Laos

Note: Province codes of the maps in Wikipedia are different from those of the province map at page 8.

In 2006 Xaisomboun special region (16), originally consisted of five districts, was dissolved. Then, Longsan, Xaysomboun, Phun, and Hom districts were added to Vientiane province (14), while Thathon district was transferred to Xiengkhuang province (14).

Administrative divisions of the Former Xaisomboun province were as follows;

**Xaisomboun** (also **Saysomboun**, Lao ) was a special zone (*khetphiset*) of Laos, located in the north of the country, near the capital Vientiane. The special zone was created 1994 with area split off from the provinces Vientiane, and Xiangkhoang. It was dissolved on January 13, 2006.

#### Administrative divisions [edit]

The province was originally up of the following districts:

- 1. Hom (18-03)
- 2. Longsane (18-04)
- 3. Phun (18-05)
- 4. Thathom (18-02)
- 5. Xaysomboun (18-01)
- On September 23, 2004 the districts Hom and Longsane were merged. The new district, still named Hom, was reassigned to Vientiane Province.
- On June 27, 2005 the districts Phun and Xaysomboun were merged, with the new district still named Xaysomboun.
- On January 13, 2006 the special area was dissolved.
   Xaysomboun district was reassigned to Vientiane Province, while Thaton went to Xiangkhoang Province.



Administrative divisions of Vientiane Province (now) are as follows;

### Administrative divisions [edit]

The province is made up of the following 10 districts:[23]

Мар	Code	Name	Lao
	10-01	Phonhong	
	10-02	Thoulakhom	
	10-03	Keo Oudom	
8-01 9-07 9-04	10-04	Kasy	
10-04	10-05	Vangvieng	
10-05 10-05 10-05 10-11	10-06	Feuang	
8-07 10-01 10-02 11-02	10-07	Xanakharm	
10-07	10-08	Mad	
10-10	10-09	Hineherb	
.3 102 / 107	10-10	Viengkham	
	10–11	Hom	
	10–12	Xaisomboun (Saysomboun)	

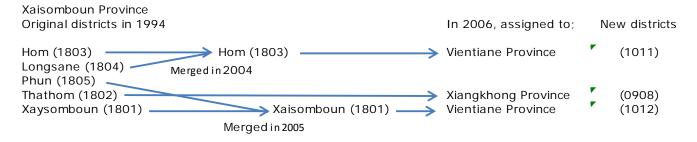
Administrative divisions of Xiengkhuang province (now) are as follows;

## Administrative divisions [edit]

The province is made up of the following eight districts which cover a total land area of 15,880 square kilometres (6,130 sq mi). <sup>[3]</sup> The district Thatom was reassigned from the special zone Xaisomboun when it was dissolved in January 2006.

Мар	Code	Name	Lao
	09-01	Pek District	
7.05	09-02	Kham District	
6-08	09-03	Nonghed District	
9-06 9-01 9-03	09-04	Khoune District	
9-07 9-04	09-05	Morkmay District	
9-05	09-06	Phookood District	
05	09-07	Phaxay District	
	09-08	Thatom District	

#### **Summary of the above transition;**



#### $\Box$ Generated the variable of Region for each data frame.

"Region Province District Codes	s.xls" in IHSN	website
---------------------------------	----------------	---------

	New Province		New Region
1	Vientiane M	1	Vientiane M
2	Phongsaly	2	North
3	Luangnamtha	2	North
4	Oudumxay	2	North
5	Bokeo	2	North
6	Luangprabang	2	North
7	Huaphanh	2	North
8	Xayabury	2	North
9	Xiengkhuang	3	Central
10	Vientiane	3	Central
11	Borikhamxay	3	Central
12	Khammuane	3	Central
13	Savannakhet	3	Central
14	Saravane	4	South
15	Sekong	4	South
16	Champasack	4	South
17	Attapeu	4	South

- > for(j in 1:6) {
- + df<-outfiles[[j]]
- + df\$Region<-cut(as.integer(df\$New.Province), breaks=c(1, 2, 9, 14, 17), right=F,
- + include.lowest=T, labels=1:4)
- + outfiles[[j]]<-df
- + }
- > HHB<-outfiles[[1]]
- > table (HHB\$Region, HHB\$New. Province)

	01	02	03	04	05	06	07	80	09	10	11	12	13	14	15	16	17
1	768	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	384	368	352	384	544	544	560	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	400	608	368	544	768	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	569	271	576	288

- > Housing\$Region<-cut(as.integer(Housing\$New.Province), breaks=c(1, 2, 9, 14, 17), right=F,
- + include.lowest=T, labels=1:4)
- > Purchase\$Region<-cut (as. integer (Purchase\$New. Province), breaks=c(1, 2, 9, 14, 17),
- + right=F, include.lowest=T, labels=1:4)

### Number of sample village and household

PSU: number of sample villages

> length(unique(HHB\$VillageID))

[1] 519

Remarks: 518 villages in the survey report (Table i in the survey report).

The number of sample villages of 519 in the micro data set was confirmed by the Delegates.

It was caused by the relocation on one sample village due to dam construction.

Table i: Number Sample for Survey

Target	LECS 1 (92/93)	LECS 2 (97/98)	LECS 3 (02/03)	LECS 4 (07/08)
Villages	147	450	540	518
Households	2 937	8 882	8 092	8 296

SSU: number of sample household

> nrow(HHB)

[1] 8296

Number of sample household within the village

> nhh. byVillage<-as. vector (tapply (HHB\$HhID, HHB\$VillageID, FUN=length))

> table(nhh.byVillage)

nhh. byVillage

10 15 16

1 2 516

516 psu have 16 sample households as sample design, but two psu have 15 households and one psu has 10 households.

#### Sample allocation over survey month

# Allocation of sample households over month

> addmargins(table(HHB\$Interview\_Month))

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

688 682 704 752 672 688 686 688 688 672 688 688 8296

Completely the same as the table ii in the survey report!!

Table ii: Sample allocation over survey months 1

	Month	Villages	Households	Persons
2007	April	45	752	4 3 6 4
	May	42	672	3 993
	June	43	688	3 907
	July	43	686	4 083
	August	43	688	3 872
	September	43	688	3 781
	October	42	672	3 797
	November	42	688	4 111
	December	44	688	3 979
2008	January	43	688	4 227
	February	43	682	3 938
	March	45	704	3 973
	Total	518	8 296	48 025

### # Allocation of sample household members over month

> addmargins(table(IND\$Interview\_Month))

1 2 3 4 5 6 7 8 9 10 11 12 Sum 4227 3938 3973 4362 3992 3907 4083 3872 3781 3796 4111 3979 48021

Remarks: 48,025 persons in the survey report

### # Allocation of sample village over month

```
> for(j in 1:12) {
+ df<-subset(HHB, Interview_Month==j)
+ cat(c(j, "th month :", length(unique(df$VillageID)), "\u00e4n"))
+ }</pre>
```

1 th month : 43
2 th month : 43
3 th month : 44

4 th month: 47
5 th month: 42
6 th month: 43
7 th month: 43
8 th month: 43
9 th month: 43
10 th month: 42
11 th month: 43
12 th month: 43

## Remarks: Different from the table iii of the survey report.

Table iii: Number of sample villages in each stratum

Code	Province	Urban villages	Rural villages with access to road		Total
01	Vientiane C.	33	15	0	48
02	Phongsaly	3	8	13	24
03	Luangnamtha	5	13	5	23
04	Oudomxay	5	13	3	21
05	Bokeo	4	15	5	24
06	Luangprabang	5	19	10	34
07	Huaphanh	5	27	2	34
08	Xayabury	10	24	1	35
09	Xiengkhuang	5	17	3	25
10	Vientiane	17	21	0	38
11	Borikhamxay	3	16	4	23
12	Khammuane	5	28	1	34
13	Savannakhet	10	36	2	48
14	Saravane	4	30	2	36
15	Sekong	5	8	4	17
16	Champasack	9	17	10	36
17	Attapeu	2	12	4	18
	Total	130	319	69	518

### # Number of sample villages by province and village type

- > t<-by(HHB, list(HHB\$New.Province, HHB\$VillageType),
- + FUN=function(df) length(unique(df\$VillageID)))
- > m<-matrix (as. vector (t), 17, 3)
- > rownames (m) <-Province
- > colnames(m) <-c("Urban", "Rural\_with", "Rural\_without")
- > m[is.na(m)]<-0
- > addmargins(m)

		Urban	Rural_with	Rural_without	Sum	
01	Vientiane C.	33	15	0	48	
02	Phongsaly	3	8	13	24	
03	Luangnamtha	5	13	5	23	
04	Oudomxay	5	14	3	22	
05	Bokeo	4	15	5	24	
06	Luangprabang	5	19	10	34	
07	Huaphanh	5	27	2	34	
80	Xayabury	10	24	1	35	
09	Xiengkhuang	5	17	3	25	
10	Vientiane	16	22	0	38	
11	Borikhamxay	3	16	4	23	
12	Khammuane	5	28	1	34	
13	Savannakhet	10	36	2	48	
14	Saravane	4	30	2	36	
15	Sekong	5	8	4	17	
16	Champasack	9	17	10	36	
17	Attapeu	2	13	3	18	
Sun	n	129	322	68	519	

Remarks: Different from the table iii of the survey report.

### Estimated number of households, household members and household size

> sum(HHB\$Hhweight)/1000

[1] 984.61

This is the same as Table 2.1

- > sum(IND\$Hhweight)/1000
- [1] 5607.019
- > sum(IND\$Hhweight)/sum(HHB\$Hhweight)
- [1] 5.69466
- # Estimated number of households by province
- > round(tapply(HHB\$Hhweight, HHB\$New.Province, sum)/1000)

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17

Table 2.1: Household size and number of households by provinces and regions in 2007/08

Lao PDR	Number of households 2007/08 (1000 households)	Number of households 2002/03 (1000 households)	Household size LECS 2007/08	Confidence interval (margin of error)  ± 0.0	Household size LECS 2002/03	Confidence interval (margin of error) + 0.1
Urban	302	240	5.4	± 0.0 ± 0.1	5.8	_
Rural	683	627	5.8	_	6.2	_
North	305	266	5.9		6.2	
Phongsaly	29	25	6.0	± 0.3	6.5	_
Luangnamtha	28	23	5.9	_	6.0	_
Oudomxay	44	38	6.4	± 0.2	6.5	_
Bokeo	27	25	5.0		5.4	_
Luangprabang	69	61	5.9	_	6.3	_
Huaphanh	44	37	7.0	± 0.2	7.3	_
Xayaboury	64	58	5.3		5.6	_
Center	478	423	5.5		6.0	
Vientiane C.	125	111	5.2	_	5.7	_
Xiengkhuang	39	30	6.3	_	7.4	_
Vientiane P.	77	62	5.6	± 0.1	5.9	± 0.3
Borikhamxay	40	38	5.1	± 0.2	5.6	± 0.4
Khammuane	63	55	5.3	± 0.1	5.8	± 0.3
Savannakhet	134	122	5.8	± 0.1	6.3	± 0.2
South	201	178	5.7	± 0.1	5.9	± 0.2
Saravane	58	51	6.1	± 0.2	6.0	
Sekong	14	12	6.7	± 0.4	6.4	
Champasack	109	97	5.5	± 0.1	5.9	
Attapeu	20	17	5.5	± 0.3	5.9	

# # Estimated number of households by province

- > t<-tapply(HHB\$Hhweight, HHB\$New.Province, sum)
- > Province<-c("01 Vientiane C.", "02 Phongsaly", "03 Luangnamtha", "04 Oudomxay",
- + "05 Bokeo", "06 Luangprabang", "07 Huaphanh", "08 Xayabury", "09 Xiengkhuang",
- + "10 Vientiane", "11 Borikhamxay", "12 Khammuane", "13 Savannakhet", "14 Saravane",
- + "15 Sekong", "16 Champasack", "17 Attapeu")
- > data. frame (Province, No. Households=t, row. names=NULL)

### Province No. Households

01 Vientiane C.	124867
02 Phongsaly	28802
03 Luangnamtha	28145
04 Oudomxay	44231
05 Bokeo	27223
06 Luangprabang	69265
07 Huaphanh	43964
08 Xayabury	63682
09 Xiengkhuang	39425
10 Vientiane	77069
11 Borikhamxay	39827
12 Khammuane	62597
13 Savannakhet	134069
14 Saravane	58117
15 Sekong	13772
16 Champasack	109108
17 Attapeu	20447
	02 Phongsaly 03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack

### # Estimated number of households by province and village type

- > t<-round(tapply(HHB\$Hhweight, list(HHB\$New.Province, HHB\$VillageType), sum)/1000)
- > rownames(t)<-Province
- > colnames(t)<-c("Urban", "Rural\_with", "Rural\_without")
- > t

	Urban	Rural_with	Rural_without
01 Vientiane C.	81	44	NA
02 Phongsaly	4	10	15
03 Luangnamtha	5	17	6
04 Oudomxay	10	31	3
05 Bokeo	4	20	3
06 Luangprabang	16	38	16
07 Huaphanh	5	37	2
08 Xayabury	19	43	2

09 Xiengkhuang	9	26	4
10 Vientiane	19	58	NA
11 Borikhamxay	8	28	4
12 Khammuane	14	47	2
13 Savannakhet	68	65	2
14 Saravane	5	51	2
15 Sekong	3	8	3
16 Champasack	28	54	27
17 Attapeu	5	14	2

# **Conclusions:**

The hypothesis is not rejected regarding the number of households by province.

# Weight

Variable of Hhweight in IND differs slightly from that of HHB. However the gaps are less than 0.01.

```
\label{eq:continuous} $$ z<-merge(HHB[c("HhID", "Hhweight")], IND[c("HhID", "Hhweight")], by="HhID") $$ sum(abs(z$Hhweight. x-z$Hhweight. y)>0.01) $$ sum(abs(z$Hhweight. x-z$Hhweight. y)>0.001) $$ sum(abs(z$Hhweight. x-z$Hhweight. y)>0.001) $$ [1] 43954
```

### 6. Household income

	According to the survey report,
Ηου	sehold income is the sum of income from all sources that household members have. It
con	tains wages and social benefits, pensions, dividends and royalties received, transfers from
abr	oad in cash or kind, entrepreneurial income from household businesses and agriculture,
fish	ery and forestry.

☐ However, no figures about the monthly or annual amount of household income was found in the survey report.

## **Income, remittances and transfers**

There are two sources; INC and DIA.

• The data frame INC includes income from wages and social benefits, pensions, dividends and royalties received, transfers from abroad in cash or kind.

The unit of INC is individual.

The reference period for the amount is one month.

The number of records in INC is 4,126 and the number of households having INC records is 2,571.

- > dim(INC)
- [1] 4126 28
- > length(unique(INC\$HhID))
- [1] 2571
- > colnames(INC)

[1]	"PersID"	"HhID"	"SerialNr"	"VillageID"
[5]	"DistrictID"	"Province"	"VillageType"	"Interview_Month"
[9]	"P1Q2"	"P1Q3"	"P1Q5"	"P1Q6"
[13]	"P1Q7"	"Hhweight"	"Incom800"	"Incom801"
[17]	"Incom802"	"Incom803"	"Incom804"	"Incom805"
[21]	"Incom806"	"Incom807"	"Incom808"	"Incom809"
[25]	"Incom810"	"Incom811"	"Incom812"	"IncomeOth"

```
☐ Generated data frame hhinc, collapsed INC by household
```

- > hhinc<-aggregate(INC[15:27], list(INC\$HhID), FUN=sum, na. rm=T)
- > colnames (hhinc) [1] <-"HhID"
- > hhinc["IncomSum"] <-rowSums (hhinc[, 2:14], na. rm=T)
- > colnames (hhinc)

```
[1] "HhID" "Incom800" "Incom801" "Incom802" "Incom803" "Incom804"
```

- [7] "Incom805" "Incom806" "Incom807" "Incom808" "Incom809" "Incom810"
- [13] "Incom811" "Incom812" "IncomSum"
- > head(hhinc)

```
HhID Incom800 Incom801 Incom802 Incom803 Incom804 Incom805 Incom806
1 010100102 2807000
                              0
                                       0
                                                 0
                                                           0
                                                                               0
2 010100103
              800000
                              0
                                       0
                                                 0
                                                           0
                                                                     0
                                                                               0
3 010100104 1045100
                              0
                                  700000
                                                 0
                                                           0
                                                                     0
                                                                               0
                                  180000
                                                                               0
4 010100105
            1100000
                              0
                                                 0
                                                           0
                                                                     0
5 010100106
            1650000
                                                 0
                                                           0
                                                                               0
                                       0
6 010100108
               833000
                              0
                                       0
                                                 0
                                                           0
                                                                               0
  Incom807 Incom808 Incom809 Incom810 Incom811 Incom812 IncomSum
                   0
                                      0
                                                0
                                                             2807000
                             0
2
         0
                   0
                             0
                                      0
                                                0
                                                          0
                                                              800000
3
         0
                   0
                             0
                                      0
                                                0
                                                          0
                                                             1745100
         0
                                      0
4
                   0
                                                             1280000
5
         0
                   0
                             0
                                      0
                                                             1650000
                                                          0
                   0
                      2865000
                                      0
                                                0
                                                             3698000
6
         0
```

☐ Appended weight to hhinc

```
> hhinc<-merge(hhinc, HHB[, c("HhID", "Hhweight")], all. x=T)
```

[1] 2571 16

> head(hhinc)

	HhID	Incom800	Incom801	Incom802	Incom803	Incom804	Incom805	Incom806
1	010100102	2807000	0	0	0	0	0	0
2	010100103	800000	0	0	0	0	0	0
3	010100104	1045100	0	700000	0	0	0	0
4	010100105	1100000	0	180000	0	0	0	0
5	010100106	1650000	0	0	0	0	0	0
6	010100108	833000	0	0	0	0	0	0
	Incom807	Incom808	Incom809	Incom810	Incom811	Incom812	IncomSum H	Hhweight
1	0	0	0	0	0	0	2807000 1	174. 0088
2	0	0	0	0	0	0	800000 1	174. 0088
3	0	0	0	0	0	0	1745100	174. 0088
4	0	0	0	0	0	0	1280000	174. 0088
5	0	0	0	0	0	0	1650000 1	174. 0088

```
☐ Average monthly household income (in 1000 Kip)
```

0 2865000

3698000 174.0088

Incom808 Incom809 Incom810 Incom811 Incom812 IncomSum

52. 5 187. 6 4. 7 11. 3 7. 9 678. 7

<sup>&</sup>gt; dim(hhinc)

 $<sup>&</sup>gt; \ ave. \ hhinc <-colSums \ (hhinc[, 2:15]*hhinc \\ \ Hhweight)/sum \ (HHB \\ \ Hhweight)/1000$ 

<sup>&</sup>gt; round (ave. hhinc, 1)

```
Comparison with diary data DIA
Income items in Diary are as follows;
Kind=4: income in cash or in kind
ItemNo: 431 to 443
# Created subset of DIA with income item
> DIA. inc<-subset(DIA, ItemNo>=431&ItemNo<=443&Kind==4)
> dim(DIA. inc)
[1] 4232
            21
> length(unique(DIA.inc$HhID))
[1] 1457
> head (DIA. inc[, c(2, 14:20)])
           HhID
                    Kip Kind Produced Purpose Item Hhweight ItemNo
2249 010100201
                 20000
                            4
                                               2
                                                  800
                                                         255.34
                                                                    431
2255 010100201 130000
                            4
                                               2
                                                  800
                                                         255.34
                                                                    431
                                      1
2327 010100201
                 40000
                                               2
                                                  800
                                                         255.34
                            4
                                      1
                                                                    431
                                               2
2374 010100201 865000
                            4
                                                  800
                                                         255.34
                                                                    431
                                               2
2416 010100202 300000
                                                  800
                                                         255.34
                                                                    431
2457 010100202 425000
                                               2
                                                  800
                                                         255.34
                                                                    431
# Generated data frame DIA.hhinc, collapsed DIA.inc by household and item
> t<-tapply (DIA. inc$Kip, list (DIA. inc$HhID, DIA. inc$ItemNo), FUN=sum, na. rm=T)
> dim(t)
[1] 1457
            13
> head(t)
               431 432 433 434
                                   435 436 437 438
                                                        439 440 441 442 443
010100201 1055000
                     NA
                         NA
                              NA
                                    NA
                                         NA
                                             NA
                                                  NA
                                                        NA
                                                             NA
                                                                 NA
                                                                      NA
                                                                          NA
010100202 1450000
                              NA 80000
                                                                          NA
                     NA
                         NA
                                         NA
                                             NA
                                                  NA 3e+05
                                                             NA
                                                                      NA
                                                                 NA
010100215 1000000
                     NA
                         NA
                              NA
                                     NA
                                         NA
                                             NA
                                                  NA
                                                         NA
                                                             NA
                                                                 NA
                                                                      NA
                                                                          NA
010100218 500000
                     NA
                         NA
                              NA
                                     NA
                                         NA
                                             NA
                                                  NA
                                                             NA
                                                                 NA
                                                                      NA
                                                                          NA
                                                         NA
010100223 1500000
                     NA
                         NA
                              NA
                                    NA
                                         NA
                                             NA
                                                  NA
                                                         NA
                                                             NA
                                                                 NA
                                                                      NA
                                                                          NA
010101310 100000
                     NA
                         NA
                              NA
                                     NA
                                         NA
                                             NA
                                                  NA
                                                         NA
                                                             NA
                                                                 NA
                                                                          NA
> DIA. hhinc<-data. frame (HhID=rownames (t), t, row. names=NULL)
> DIA. hhinc[is. na (DIA. hhinc)]<-0
> DIA. hhinc$sum<-rowSums(DIA. hhinc[, -1])
> head (DIA. hhinc)
                X431 X432 X433 X434
                                       X435 X436 X437 X438
                                                               X439 X440 X441 X442
       HhID
1 010100201 1055000
                                    0
                                           0
                                                            0 0e+00
                                                                              0
                         0
                               0
                                                 0
                                                      0
                                                                        0
                                                                                   0
2 010100202 1450000
                         0
                               0
                                    0 80000
                                                 0
                                                      0
                                                            0.3e + 05
                                                                        0
                                                                              0
                                                                                   0
3 010100215 1000000
                         0
                               0
                                    0
                                                 0
                                                      0
                                                                              0
                                                                                   0
                                           0
                                                            0 0e+00
                                                                        0
```

```
4 010100218 500000
                       0
                             0
                                  0
                                        0
                                             0
                                                  0
                                                        0 0e+00
                                                                   0
                                                                        0
                                                                              0
5 010100223 1500000
                       0
                             0
                                  0
                                        0
                                             0
                                                  0
                                                        0 0e+00
                                                                   0
                                                                        0
                                                                              0
6 010101310 100000
                       0
                             0
                                  0
                                        0
                                             0
                                                        0 0e+00
                                                                   0
                                                                        0
                                                                              0
  X443
           sum
1
     0 1055000
2
     0 1830000
3
     0 1000000
4
     0 500000
5
     0 1500000
     0 100000
> dim(DIA. hhinc)
[1] 1457
# Appended weight to DIA.hhinc
> DIA. hhinc<-merge (DIA. hhinc, HHB[c("HhID", "Hhweight")], all. x=T)
> dim(DIA. hhinc)
[1] 1457
          16
# Average monthly household income
> round (sapply (DIA. hhinc[, 2:15], function(x)
sum(x*DIA. hhinc$Hhweight)/sum(HHB$Hhweight)/1000), 1)
 X431 X432 X433 X434 X435 X436 X437 X438 X439 X440 X441 X442 X443
124.0
        2.7
              1. 1
                    3.6
                          1. 0
                                1. 7
                                       0.5
                                             1. 1 38. 2 41. 1
                                                                0. 7
                                                                      0.5
                                                                            3.6
  sum
```

Comparison of monthly income per household between DIA and INC (in 1000 Kip)

219.8

	Summary from DIA		Summa	ry from INC
ItemNo	Description	Average income	Variable	Average income
431	Wages, salaries in cash	124.0	Income800	341.4
432	Social security	2.7	Income801	5.4
433	Wages, salaries in kind	1.1	Income802	9.4
434	Interest and royalties	3.6	Income803	14.6
435	Dividends	1.0	Income804	10.8
436	Other rent	1.7	Income805	13.6
437	Land rent	0.5	Income806	10.3
438	Pension and life insurance	1.1	Income807	9.0
439	Remittance, gifts in cash from Laos	38.2	Income808	52.5
440	Remittance, gifts in cash from abroad	41.1	Income809	187.6
441	Remittance, gifts in kind from Laos	0.7	Income810	4.7

442	Remittance, gifts in kind from abroad	0.5	Income811	11.3
443	Other current transfers Specify	3.6	Income812	7.9
	Total	219.8	Total	678.7

# **Conclusion:**

There are big differences between two sources. The summary from INC is expected to use for estimation of household income.

# Remarks:

There are no figures about the above results in the survey report.

#### Agricultural income

NA

NA

010100119

NA

DIA

```
Revenue: Itemlev3=60: ItemNo=350 to 370
Costs: Item|ev3=61: ItemNo=371 to 391
> agri<-subset(DIA, ItemNo>=350&ItemNo<=391)
> dim(agri)
[1] 79203
              21
> length(unique(agri$HhID))
[1] 5873
> addmargins (table (agri$ItemNo, useNA="ifany"))
  350
         351
                352
                      353
                             354
                                    355
                                           356
                                                  357
                                                         358
                                                               359
                                                                      360
                                                                             361
                                                                                    362
 1450
         180
                441
                       22
                            2501
                                    515
                                                              1561
                                           810
                                                3123
                                                         360
                                                                      768
                                                                            1840
                                                                                      3
  363
         364
                365
                      366
                             367
                                    368
                                           369
                                                  370
                                                         371
                                                               372
                                                                      373
                                                                             374
                                                                                    375
  200
                                                          23
                                                                 24
         828
                194
                     2941
                             387
                                   1534
                                          3009
                                                   80
                                                                      464 48299
                                                                                    277
  376
                378
                      379
                             380
                                    381
                                                         384
                                                               385
                                                                      386
         377
                                           382
                                                  383
                                                                             387
                                                                                    388
  121
          62
                572
                      252
                              17
                                   2091
                                            65
                                                  101
                                                       1016
                                                                 43
                                                                      576
                                                                             262
                                                                                     81
  389
         390
                391
                      Sum
 1216
          15
                879 79203
# Generated data frame AGR.hhinc, collapsed agri by household and item
> t<-tapply(agri$Kip, list(agri$HhID, agri$ItemNo), FUN=sum, na. rm=T)
> dim(t)
[1] 5873
            42
> head(t)
                                              357 358 359 360 361 362 363 364 365
           350 351 352 353 354 355 356
            NA
                          NA
                              NA
                                                    NA
                                                                 NA
                                                                           NA
                                                                               NA
010100103
                 NA
                     NA
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010100116
            NA
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010100119
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010100122
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010100201
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010100202
            NA
                          NA
                              NA
                                       NA 453700
                                                             NA
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                 NA
                     NA
                                   NA
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                                                                      NA
                                                                               NA
                                                                                    NA
                    368 369
                                                                          378 379
           366 367
                             370
                                  371 372
                                             373
                                                     374 375 376 377
                                                                                  380
010100103
            NA
                NA
                     NA
                          NA
                              NA
                                   NA
                                       NA
                                              NA
                                                   98000
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                                                                    NA
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                                                                               NA
                                                                                    NA
010100116
                                                  401000
            NA
                 NA
                     NA
                          NA
                              NA
                                   NA
                                       NA
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                                                                                    NA
010100119
            NA
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                                                   47000
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                 NA
010100122
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010100201
            NA
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010100202
            NA
                NA
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                          NA
                              NA
                                   NA
                                       NA 47000
                                                           NA
                                                               NA
                                                                    NA 25000
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                                                      NA
                                                                                    NA
                                  386 387
           381 382
                    383 384
                             385
                                           388 389 390 391
010100103
            NA
                NA
                     NA
                          NA
                              NA
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                                            NA
                                                NA
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010100116
```

NA

NA

NA

NA

NA

NA

NA

NA

```
NA
010100122
            NA
                 NA
                          NA
                               NA
                                    NA
                                        NA
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                                                       NA
                      NA
010100201
            NA
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                                                           NA
                 NA
                      NA
                          NA
                               NA
                                    NA
                                        NA
                                                  NA
                                                       NA
010100202
            NA
                 NA
                      NA
                          NA
                               NA
                                    NA
                                        NA
                                             NA
                                                  NA
                                                       NA
                                                           NA
> AGR. hhinc<-data. frame (HhID=rownames (t), t, row. names=NULL)
> AGR. hhinc[is. na (AGR. hhinc)]<-0
> AGR. hhinc$revenues<-rowSums (AGR. hhinc[, 2:22])
> AGR. hhinc$costs<-rowSums (AGR. hhinc[, 23:43])
> AGR. hhinc$agrinc<-AGR. hhinc$revenues-AGR. hhinc$costs
> head (AGR. hhinc)
        HhID X350 X351 X352 X353 X354 X355 X356
                                                         X357 X358 X359 X360 X361 X362
1 010100103
                 0
                       0
                                   0
                                        0
                                                    0
                                                            0
                                                                  0
                                                                        0
                                                                              0
                                                                                    0
                                                                                          0
                             0
                                              0
2 010100116
                 0
                       0
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                                                                              0
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                                                                                          0
3 010100119
                 0
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4 010100122
                 0
                       0
                             0
                                        0
                                              0
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                                                                                    0
5 010100201
                 0
                       0
                             0
                                   0
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                                                                                    0
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                                   0
                                                    0 453700
6 010100202
                 0
                       0
                             0
                                        0
                                              0
                                                                  0
                                                                                    0
                                                                                          0
  X363 X364 X365 X366 X367 X368 X369 X370 X371 X372
                                                             X373
                                                                      X374 X375
                                                                                 X376
                 0
                                                          0
                                                                     98000
1
     0
           0
                       0
                             0
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2
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3
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4
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5
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                 0
                       0
                             0
                                   0
                                        0
                                              0
                                                    0
                                                          0 47000
                                                                         0
                                                                               0
                                                                                     0
                                            X384 X385 X386 X387 X388 X389 X390 X391
  X377
         X378 X379 X380 X381 X382 X383
     0
             0
                        0
                              0
                                          0
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                             0
                                                                                   0
                                                                                        0
1
                  0
                                    0
2
      0
                  0
                        0
                              0
                                          0
                                               0
                                                           0
                                                                 0
                                                                             0
                                                                                   0
                                                                                        0
             0
                                    0
                                                     0
                                                                       0
                                                                                        0
3
      0
             0
                  0
                        0
                              0
                                    0
                                          0
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                             0
                                                                                   0
4
      0
        40000
                        0
                              0
                                          0
                                               0
                                                           0
                                                                 0
                                                                       0
                                                                             0
                                                                                   0
                                                                                        0
                  0
                                    0
                                                     0
5
             0
                  0
                        0
                              0
                                    0
                                          0
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                             0
                                                                                   0
                                                                                        0
      0 25000
                              0
                                    0
                                          0
                                               0
                                                     0
                                                           0
                                                                 0
                                                                       0
                                                                             0
                                                                                   0
                                                                                        0
6
                  0
                        0
             costs
  revenues
                      agrinc
              98000
                      -98000
1
          0
          0 401000 -401000
2
3
             47000
          0
                     -47000
              40000
          0
                     -40000
          0
              10000
                     -10000
    453700
             72000
                      381700
> dim(AGR. hhinc)
[1] 5873
             46
# Appended weight to AGR.hhinc
```

> AGR. hhinc<-merge (AGR. hhinc, HHB[c ("HhID", "Hhweight")], all. x=T)

> dim(AGR. hhinc)

[1] 5873

```
# Average monthly household income (1000 Kip)
```

<sup>+</sup> function(x) sum(x\*AGR. hhinc\$Hhweight)/sum(HHB\$Hhweight)/1000), 1)

› t								
	X350	X351	X352	X353	X354	X355	X356	X357
	63. 4	5. 0	83. 6	0. 2	19. 6	2. 9	51.9	18.8
	X358	X359	X360	X361	X362	X363	X364	X365
	2. 4	10. 7	89. 3	14. 7	0.0	2. 3	3. 5	2. 4
	X366	X367	X368	X369	X370	X371	X372	X373
	17. 3	14. 0	13. 7	76. 5	0. 5	0.6	0. 3	7.8
	X374	X375	X376	X377	X378	X379	X380	X381
	28. 2	39. 6	0. 9	0.0	14. 5	2. 3	0. 1	12. 6
	X382	X383	X384	X385	X386	X387	X388	X389
	0.6	54. 0	21.6	0.3	3. 3	1.9	2. 6	30.3
	X390	X391	revenues	costs	agrinc			
	0. 4	10. 7	492. 6	232. 6	260. 0			

#	Average	annual	household	income (I	000 Kip)			
>	12*t							
	X350	X351	X352	X353	X354	X355	X356	X357
	760.8	60.0	1003. 2	2. 4	235. 2	34. 8	622.8	225.6
	X358	X359	X360	X361	X362	X363	X364	X365
	28. 8	128. 4	1071.6	176. 4	0.0	27. 6	42. 0	28.8
	X366	X367	X368	X369	X370	X371	X372	X373
	207. 6	168. 0	164. 4	918. 0	6. 0	7. 2	3.6	93.6
	X374	X375	X376	X377	X378	X379	X380	X381
	338. 4	475. 2	10.8	0.0	174. 0	27. 6	1. 2	151. 2
	X382	X383	X384	X385	X386	X387	X388	X389
	7. 2	648. 0	259. 2	3. 6	39.6	22. 8	31. 2	363. 6
	X390	X391	revenues	costs	agrinc			
	4. 8	128. 4	5911. 2	2791. 2	3120.0			

Table 5.3: Agricultural production, by province and region in 2002/03. Annual income and costs, 1000 Kip/household

			Inco	ne			1			Entreprenurial	
	Grain	Vegetable s and Fruits	Meat	Fish	Forestry		Seed and fodder	Equipmen	Wages	Others	income
Lao PDR	8,136	1,292	2,554	1,288	210	1,278	552	405	460	651	12,688
Urban	6,646	1,458	2,586	1,311	131	1,541	905	255	575	818	11,120
Rural	8,481	1,253	2,546	1,282	228	1,217	470	440	434	612	13,051

<sup>&</sup>gt; t<-round(sapply(AGR.hhinc[, 2:46],

<sup>&</sup>gt; t<-round(sapply(AGR.hhinc[, 2:46],

<sup>+</sup> function(x) sum(x\*AGR. hhinc\$Hhweight)/sum(AGR. hhinc\$Hhweight)/1000),1)

<sup>&</sup>gt; t X350 X355 X356 X357 X351 X352 X353 X354 7. 1 118.5 0. 2 27.8 4.0 73.6 26.6 89. 9

X358	X359	X360	X361	X362	X363	X364	X365
3. 4	15. 2	126. 5	20. 8	0. 0	3. 2	5. 0	3. 4
X366	X367	X368	X369	X370	X371	X372	X373
24. 5	19. 9	19. 5	108. 4	0. 7	0. 9	0. 4	11.0
X374	X375	X376	X377	X378	X379	X380	X381
40. 0	56. 1	1. 3	0. 1	20. 6	3. 3	0. 2	17. 8
X382	X383	X384	X385	X386	X387	X388	X389
0.8	76. 5	30.6	0. 4	4. 7	2. 7	3. 6	43.0
X390	X391	revenues	costs	agrinc			
0.6	15. 2	698. 2	329. 7	368. 6			
> 12*t							
X350	X351	X352	X353	X354	X355	X356	X357
1078. 8	85. 2	1422. 0	2. 4	333. 6	48. 0	883. 2	319. 2
X358	X359	X360	X361	X362	X363	X364	X365
40. 8	182. 4	1518. 0	249.6	0.0	38. 4	60.0	40.8
X366	X367	X368	X369	X370	X371	X372	X373
294. 0	238.8	234. 0	1300.8	8. 4	10.8	4.8	132.0
X374	X375	X376	X377	X378	X379	X380	X381
480. 0	673. 2	15. 6	1. 2	247. 2	39. 6	2. 4	213.6
X382	X383	X384	X385	X386	X387	X388	X389
9. 6	918. 0	367. 2	4. 8	56. 4	32. 4	43. 2	516.0
X390	X391	revenues	costs	agrinc			
7. 2	182. 4	8378.4	3956.4	4423. 2			

# Grain

> sum(t[1:7])\*12

[1] 3130.8

#### **Business income**

DIA

```
Revenue: Itemlev3=62: ItemNo=392 to 403
Costs: Itemlev3=63: ItemNo=404 to 419
> hhb<-subset(DIA, ItemNo>=392&ItemNo<=419)</pre>
> dim(hhb)
[1] 92514
              21
> length(unique(hhb$HhID))
[1] 3077
> addmargins(table(hhb$ItemNo,useNA="ifany"))
  392
         393
               394
                      395
                             396
                                    397
                                          398
                                                 399
                                                        400
                                                              401
                                                                     402
                                                                            403
                                                                                   404
 9557
         954
                                         9604
              5092
                     1828
                             112
                                  4783
                                                  28
                                                         12
                                                              1651 23109
                                                                           1204 18719
               407
  405
         406
                      408
                             409
                                    410
                                          411
                                                 412
                                                        413
                                                              414
                                                                     415
                                                                            416
                                                                                   417
10494
              2429
                             589
                                                              336
                                                                                   226
          16
                       62
                                     98
                                          478
                                                  12
                                                          7
                                                                      16
                                                                            347
  418
         419
               Sum
   48
         703 92514
# Generated data frame HHB.hhinc, collapsed hhb by household and item
> t<-tapply(hhb$Kip, list(hhb$HhID, hhb$ItemNo), FUN=sum, na. rm=T)
> dim(t)
[1] 3077
            28
> head(t)
               392
                      393
                               394 395 396 397
                                                    398 399
                                                                400 401
                                                                             402
010100103
                NA
                       NA 7480000
                                     NA
                                         NA
                                              NA 223000
                                                          NA 2e+05
                                                                     NA 5340100
                                                                          130000
010100105 4135000
                       NA
                                NA
                                     NA
                                         NA
                                              NA 171000
                                                          NA
                                                                 NA
                                                                     NA
010100108 3129000
                       NA
                                NA
                                     NA
                                         NA
                                              NA
                                                   5000
                                                          NA
                                                                 NA
                                                                     NA
                                                                              NA
010100110
                NA
                    21000
                                NA
                                     NA
                                         NA
                                              NA 492000
                                                          NA
                                                                 NA
                                                                     NA 2327000
010100117
                                                      NA
                                                                     NA 5221000
                NA
                       NA
                                NA
                                     NA
                                         NA
                                              NA
                                                          NA
                                                                 NA
010100118
                NA
                       NA 1142500
                                     NA
                                              NA
                                                   6000
                                                          NA
                                                                 NA
                                                                          132000
                                         NA
                                                                     NA
                       404
                                                              411 412 413 414 415
              403
                                405 406 407
                                              408
                                                  409 410
010100103
               NA 2470000 4880000
                                     NA
                                          NA
                                              NA
                                                   NA
                                                        NA
                                                               NA
                                                                    NA
                                                                        NA
                                                                             NA
                                                                                 NA
010100105
                    189000 5172000
                                     NA
                                          NA
                                              NA
                                                   NA
                                                        NA
                                                               NA
                                                                    NA
                                                                        NA
                                                                             NA
                                                                                 NA
010100108
               NA 3496057
                             179000
                                      NA
                                                   NA
                                                        NA 213000
                                                                    NA
                                                                                 NA
                                          NA
                                              NA
                                                                        NA
                                                                             NA
010100110
               NA
                        NA
                                 NA
                                      NA
                                          NA
                                               NA
                                                   NA
                                                        NA
                                                               NA
                                                                    NA
                                                                        NA
                                                                             NA
                                                                                  NA
010100117
               NA 4895000
                              10000
                                      NA
                                          NA
                                               NA
                                                   NA
                                                        NA
                                                               NA
                                                                    NA
                                                                        NA
                                                                             NA
                                                                                  NA
010100118 198000
                    184000 1527000
                                     NA
                                          NA
                                               NA
                                                   NA
                                                        NA
                                                                    NA
                                                                        NA
                                                                                 NA
                                                               NA
                                                                             NA
           416 417 418 419
010100103
            NA
                NA
                     NA
                         NA
010100105
            NA
                     NA
                NA
                         NA
010100108
            NA
                     NA
                         NA
                NA
010100110
            NA
                NA
                     NA
                         NA
010100117
            NA
                     NA
                         NA
                NA
010100118
            NA
                         NA
                NA
                     NA
```

> HHB. hhinc<-data. frame (HhID=rownames (t), t, row. names=NULL)

```
> HHB. hhinc[is. na (HHB. hhinc)]<-0
> HHB. hhinc$revenues<-rowSums (HHB. hhinc[, 2:13])
> HHB. hhinc$costs<-rowSums(HHB. hhinc[, 14:29])
> HHB. hhinc$hhbinc<-HHB. hhinc$revenues-HHB. hhinc$costs
> head (HHB. hhinc)
       HhID
                X392 X393
                                X394 X395 X396 X397
                                                        X398 X399
                                                                    X400 X401
                                                    0 223000
1 010100103
                    0
                          0 7480000
                                         0
                                              0
                                                                 0 2e+05
2 010100105 4135000
                          0
                                              0
                                                    0 171000
                                                                 0 0e+00
                                   0
                                         0
                                                                              0
3 010100108 3129000
                          0
                                   0
                                              0
                                                    0
                                                        5000
                                                                 0 0e+00
                                                                              0
                                         0
4 010100110
                    0 21000
                                   0
                                         0
                                              0
                                                    0 492000
                                                                 0 0e+00
                                                                              0
5 010100117
                                              0
                                                                 0 0e+00
                                                                              0
                    0
                          0
                                                            0
                    0
                          0 1142500
6 010100118
                                              0
                                                    0
                                                        6000
                                                                 0 0e+00
                                                                             0
     X402
             X403
                      X404
                               X405 X406 X407 X408 X409 X410
                                                                  X411 X412 X413
1 5340100
                0 2470000 4880000
                                        0
                                             0
                                                        0
                                                                      0
                                                                           0
2
   130000
                   189000 5172000
                                             0
                                                        0
                                                              0
                                                                      0
                                                                           0
                                                                                 0
                                        0
                                                   0
3
                0 3496057
                            179000
                                        0
                                             0
                                                        0
                                                              0 213000
                                                                           0
                                                                                 0
         0
                                                   0
                                                                                 0
4 2327000
                0
                         0
                                        0
                                             0
                                                   0
                                                        0
                                                              0
                                                                      0
                                                                           0
5 5221000
                0 4895000
                              10000
                                        0
                                             0
                                                        0
                                                              0
                                                                      0
                                                                           0
                                                                                 0
                                                   0
  132000 198000
                   184000 1527000
                                             0
                                                                      0
                                                                                 0
                                                   0
                                                        0
  X414 X415 X416 X417 X418 X419 revenues
                                                costs
                                                       hhbinc
     0
           0
                0
                      0
                           0
                                 0 13243100 7350000 5893100
1
2
     0
           0
                0
                      0
                                    4436000 5361000 -925000
                           0
                                    3134000 3888057 -754057
3
     0
           0
                0
                      0
                           0
4
                                    2840000
     0
           0
                0
                      0
                           0
                                 0
                                                    0 2840000
5
     0
           0
                0
                      0
                           0
                                 0
                                    5221000 4905000
                                                      316000
                      0
                                    1478500 1711000 -232500
> dim(HHB. hhinc)
[1] 3077
            32
# Appended weight to HHB.hhinc
> HHB. hhinc<-merge (HHB. hhinc, HHB[c ("HhID", "Hhweight")], all. x=T)
> dim(HHB. hhinc)
[1] 3077
            33
# Average monthly household income (1000 Kip)
> t<-round(sapply(HHB.hhinc[, 2:32],
+ function(x) sum(x*HHB. hhinc$Hhweight)/sum(HHB$Hhweight)/1000), 1)
> t
    X392
              X393
                                            X396
                                                      X397
                                                                X398
                                                                          X399
                        X394
                                  X395
   597.3
               9.5
                       181.1
                                  52.5
                                            14.8
                                                      82. 1
                                                                15.4
                                                                           0.8
    X400
              X401
                        X402
                                  X403
                                            X404
                                                      X405
                                                                X406
                                                                          X407
     1.0
              32. 1
                       981.5
                                  74.4
                                          1269.7
                                                     189.5
                                                                 0.4
                                                                          39.5
```

X408	X409	X410	X411	X412	X413	X414	X415
7. 8	10. 7	3.8	3.8	0. 3	194. 2	14. 1	0.3
X416	X417	X418	X419	revenues	costs	hhbinc	
1. 9	0.9	1.6	8. 5	2042. 5	1747. 0	295. 5	

<sup>#</sup> Average monthly household business income per households operating a business (1000 Kip)

<sup>+</sup> function(x) sum(x\*HHB.hhinc\$Hhweight)/sum(HHB.hhinc\$Hhweight)/1000),1)

X393	X394	X395	X396	X397	X398	X399
23. 5	449.0	130. 2	36.8	203. 5	38. 2	2. 1
X401	X402	X403	X404	X405	X406	X407
79.6	2434. 2	184. 6	3149.0	469.9	1.0	97. 9
X409	X410	X411	X412	X413	X414	X415
26.6	9. 4	9. 3	0.8	481.8	35.0	0.6
X417	X418	X419	revenues	costs	hhbinc	
2. 3	3. 9	21.0	5065.7	4332.7	733. 0	
	23. 5 X401 79. 6 X409 26. 6 X417	23. 5 449. 0 X401 X402 79. 6 2434. 2 X409 X410 26. 6 9. 4 X417 X418	23. 5 449. 0 130. 2 X401 X402 X403 79. 6 2434. 2 184. 6 X409 X410 X411 26. 6 9. 4 9. 3 X417 X418 X419	23. 5	23. 5	23. 5       449. 0       130. 2       36. 8       203. 5       38. 2         X401       X402       X403       X404       X405       X406         79. 6       2434. 2       184. 6       3149. 0       469. 9       1. 0         X409       X410       X411       X412       X413       X414         26. 6       9. 4       9. 3       0. 8       481. 8       35. 0         X417       X418       X419 revenues       costs       hhbinc

Table 5.13: Household business, by region, 1000 Kip/business household per month

	ess* (%)		Rev	enues from	ı:				Costs fo	or:			
	HH with business	Твабе	Production	Comm work	Services	Others	Materials	Goods resale	OP cost	Wages	Tools	Other costs	Entre preneurial income
Lao PDR	34	18,786	2,173	385	1,793	915	2,274	13,732	644	172	129	102	20,534
Urban	60	37,712	5,939	630	2,407	2,537	6,738	26,852	747	392	255	123	23,547
Rural	23	10,420	508	277	1,521	198	300	7,932	598	75	73	92	17,009
North	24	16,342	654	495	1,530	314	257	11,410	677	76	66	60	28,658
Central	42	22,168	3,862	408	2,045	1,576	3,988	15,487	681	291	182	163	22,272
South	32	14,469	467	163	1,591	258	1,262	13,090	507	36	99	17	6,054

<sup>\*</sup> Households that have business incomes and/or business costs in the diary

Table 5.12: Per cent of households operating a business

	Households operating business	Households operating	Households operating	Households operating
	%	one business	two businesses	three or more businesses
		%	%	%
Total country	28.0	23.0	4.0	0.7
Urban	49.0	39.0	8.0	1.5
Rural	32.0	27.0	5.0	0.8

<sup>&</sup>gt; t<-round(sapply(HHB.hhinc[, 2:32],

```
# Proportion of households with household business data in a diary
> sum(HHB.hhinc$Hhweight)/sum(HHB$Hhweight)
[1] 0.4032002
# Proportion of households operating household business
> sum((HHB$P11Q1S1==1)*HHB$Hhweight)/sum(HHB$Hhweight)
[1] 0. 2822866
# Proportion of households with positive household business revenues in a diary
> sum((HHB.hhinc$revenues>0)*HHB.hhinc$Hhweight)/sum(HHB$Hhweight)
[1] 0.384743
# Proportion of households with positive household business income in a diary
> sum((HHB.hhinc$hhbinc>0)*HHB.hhinc$Hhweight)/sum(HHB$Hhweight)
[1] 0.3287369
# Proportion of households with both positive household business revenues and
positive costs in a diary
sum((HHB.hhinc$revenues>0&HHB.hhinc$costs>0)*HHB.hhinc$Hhweight)/sum(HHB$Hhweigh
[1] 0.2469224
```

#### ☐ Combined household-level income data frames;

Data frame	nrow	ncol	Original	Remarks
hhinc	2571	16	INC	one month
DIA.hhinc	1457	15	DIA	one month
AGR.hhinc	5873	47	DIA	one month
HHB.hhinc	3077	33	DIA	one month

```
> HHINC<-HHB[, c (2, 38, 34, 6, 33)]
> dim(HHINC)
[1] 8296
> colnames (HHINC)
                     "Region"
                                      "New.Province" "VillageType"
[1] "HhID"
[5] "Hhweight"
> HHINC<-merge (HHINC, hhinc[, -16], by="HhID", all. x=T)
> colnames (HHINC)
 [1] "HhID"
                                       "New. Province"
                                                       "VillageType"
                      "Region"
 [5] "Hhweight"
                                       "Incom801"
                                                       "Incom802"
                      "Incom800"
 [9] "Incom803"
                      "Incom804"
                                                       "Incom806"
                                       "Incom805"
[13] "Incom807"
                      "Incom808"
                                       "Incom809"
                                                       "Incom810"
[17] "Incom811"
                      "Incom812"
                                       "IncomSum"
> HHINC<-merge (HHINC, DIA. hhinc[, -16], by="HhID", all. x=T)
> colnames (HHINC)
 [1] "HhID"
                                       "New. Province" "VillageType"
                      "Region"
 [5] "Hhweight"
                      "Incom800"
                                       "Incom801"
                                                       "Incom802"
                                       "Incom805"
 [9] "Incom803"
                      "Incom804"
                                                       "Incom806"
[13] "Incom807"
                      "Incom808"
                                       "Incom809"
                                                       "Incom810"
[17] "Incom811"
                      "Incom812"
                                       "IncomSum"
                                                       "X431"
[21] "X432"
                      "X433"
                                       "X434"
                                                       "X435"
[25] "X436"
                      "X437"
                                       "X438"
                                                       "X439"
[29] "X440"
                      "X441"
                                       "X442"
                                                       "X443"
[33] "sum"
> HHINC<-merge (HHINC, AGR. hhinc[, -47], by="HhID", all. x=T)
> colnames (HHINC)
 [1] "HhID"
                                       "New. Province"
                                                       "VillageType"
                      "Region"
 [5] "Hhweight"
                      "Incom800"
                                       "Incom801"
                                                        "Incom802"
 [9] "Incom803"
                      "Incom804"
                                       "Incom805"
                                                        "Incom806"
                      "Incom808"
                                       "Incom809"
                                                       "Incom810"
[13] "Incom807"
[17] "Incom811"
                      "Incom812"
                                       "IncomSum"
                                                       "X431"
[21] "X432"
                      "X433"
                                       "X434"
                                                       "X435"
[25] "X436"
                      "X437"
                                       "X438"
                                                       "X439"
[29] "X440"
                      "X441"
                                       "X442"
                                                       "X443"
[33] "sum"
                      "X350"
                                       "X351"
                                                       "X352"
                      "X354"
                                       "X355"
                                                       "X356"
[37] "X353"
[41] "X357"
                      "X358"
                                                       "X360"
                                       ″X359″
     "X361"
[45]
                      "X362"
                                       "X363"
                                                       "X364"
[49] "X365"
                                       "X367"
                                                        "X368"
                      "X366"
                                       "X371"
[53] "X369"
                      "X370"
                                                       "X372"
[57] "X373"
                      "X374"
                                       "X375"
                                                        "X376"
                                       "X379"
[61] "X377"
                      "X378"
                                                       "X380"
                                       "X383"
[65] "X381"
                      "X382"
                                                       "X384"
```

```
"X387"
                                                       "X388"
[69] "X385"
                      "X386"
[73] "X389"
                      "X390"
                                      "X391"
                                                       "revenues"
[77] "costs"
                      "agrinc"
> HHINC<-merge (HHINC, HHB. hhinc[, -33], by="HhID", all. x=T)
> colnames (HHINC)
  [1] "HhID"
                       "Region"
                                       "New. Province" "VillageType"
  [5] "Hhweight"
                       "Incom800"
                                        "Incom801"
                                                        "Incom802"
  [9] "Incom803"
                       "Incom804"
                                        "Incom805"
                                                        "Incom806"
 [13] "Incom807"
                                                        "Incom810"
                       "Incom808"
                                       "Incom809"
                       "Incom812"
                                                        "X431"
 [17] "Incom811"
                                       "IncomSum"
 [21] "X432"
                       "X433"
                                       "X434"
                                                        "X435"
 [25] "X436"
                       "X437"
                                       "X438"
                                                        "X439"
 [29] "X440"
                       "X441"
                                       "X442"
                                                        "X443"
 [33] "sum"
                       "X350"
                                       "X351"
                                                        "X352"
 [37] "X353"
                       "X354"
                                       "X355"
                                                        "X356"
 [41] "X357"
                       "X358"
                                        "X359"
                                                        "X360"
 [45] "X361"
                       "X362"
                                        "X363"
                                                        "X364"
 [49] "X365"
                       "X366"
                                        "X367"
                                                        "X368"
 [53] "X369"
                       "X370"
                                        "X371"
                                                        "X372"
 [57] "X373"
                       "X374"
                                       "X375"
                                                        "X376"
                       "X378"
 [61] "X377"
                                       "X379"
                                                        "X380"
 [65] "X381"
                       "X382"
                                       "X383"
                                                        "X384"
 [69] "X385"
                       "X386"
                                       "X387"
                                                        "X388"
 [73] "X389"
                       "X390"
                                       "X391"
                                                        "revenues. x"
      "costs. x"
 [77]
                       "agrinc"
                                       "X392"
                                                        "X393"
 [81] "X394"
                       "X395"
                                       "X396"
                                                        "X397"
 [85] "X398"
                       "X399"
                                       "X400"
                                                        "X401"
      "X402"
 [89]
                       "X403"
                                        "X404"
                                                        "X405"
 [93] "X406"
                       "X407"
                                        "X408"
                                                        "X409"
 [97] "X410"
                       "X411"
                                        "X412"
                                                        "X413"
[101] "X414"
                       "X415"
                                        "X416"
                                                        "X417"
[105] "X418"
                       "X419"
                                        "revenues. y"
                                                        "costs.y"
[109] "hhbinc"
> dim(HHINC)
[1] 8296 109
> HHINC[is. na (HHINC)]<-0
> HHINC$hhinc<-HHINC$IncomSum+HHINC$sum+HHINC$agrinc+HHINC$hhbinc
> nrow(subset(HHINC, hhinc>0))
[1] 5730
> nrow(subset(HHINC, hhinc<0))
[1] 1533
> nrow(subset(HHINC, hhinc==0))
[1] 1033
> weighted.mean(HHINC$hhinc, HHINC$Hhweight)/1000
[1] 1454.058
> save (INC, DIA, hhinc, DIA. hhinc, AGR. hhinc, HHB. hhinc, HHINC, file="HHINC. RData")
```

# 7. Household consumption

	According to the survey report,
Ho	usehold expenditure includes purchase, or other exchange, of goods and services in the market.
Coı	nsumption of the household is equal to the expenditure of the household plus the value of own
pro	duced goods. The difference between expenditure and consumption, is basically consumption of
owi	n produced goods, free collected firewood and the use of owner occupied houses.
CO	NSUMPTION = EXPENDITURE + VALUE OF OWN PRODUCED GOODS
	The survey report describes the result of household consumption by group, as the next. Table 3.11.
	The sources for estimating household consumption might be;
	Diary,
	IX Housing conditions, and
	XIV Household purchase and selling of durables.
	However, only data file of Diary was provided at first.
	So, the latter two data files were provided upon request on the occasion of 2017 Workshop.
	Classification of Diary Item codes has major groups and mid-level groups.
	"ItemforDiarySheet.xlsx" was provided to Sinfonica. The sheet included the following
	columns; ItemID, Txt_Lao, Item, ItemGr, ItemNo, Txt_Eng, Itemlev2, Itemlev3 and Frequency.
	However, it was not complete. As for food items, it included Item code/ Item No, Item
	description in English, ItemGr, Itemlev2 and Itemlev3, but it did not include information on
	Itemlev2 and Itemlev3 for non-food items.
	Therefore, the items other than food items were grouped into Itemlev3 and Itemlev2 as below,
	and the attached Item list was completed by the author (Attachment 3).
	It means that the list is provisional and not guaranteed by Lao Department of Statistics at this moment.

Table 3.11: Household consumption by group of goods and services. Total and monthly household averages. (Percentages)

	LECS 1992/93		LECS 1997/98		LECS 2002/03		LECS 2007/08		
									Monthly
									con- sumption
									per
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	household
	of grand	of group	of grand	of	of grand	of group	of grand	of group	(1000 kip)
Group of goods and services	total	total	total	group	total	total	total	total	
Food expenditure	26	100	27	100	28	100	22.7	100.0	492.5
Rice	5	17	7	27	4	15	3.3	14.5	71.4
Other cereals and bread	1	- 5	1	5	1	5	1.2	5.3	26.2
Meat	8	29	7	25	8	31	7.2	31.8	155,6
Fish	3	11	3	10	3	12	2.9	13.0	64.0
Milk, cheese and eggs	1	3	1	2	1	2	0.6	2.8	13.7
Olis and fats	0	1	0	1	0	1	0.1	0.5	2.3
Fruits	1	3	1	3	3	11	0.9	4.0	19.9
Vegetables and potatoes	3	10	2	8	1	4	2.0	8.9	44.0
Sugar and sweets	1	4	1	2	1	3	0.3	1.4	6.9
Non-alcoholic beverage coffee & tea	1	4	1	3	1	3	0.7	2.9	14.5
Other food	1	6	1	5	1	5	0.8	3.4	16.9
Meals	2	9	3	9	3	10	2.6	11.6	57.2
Own produced food	38	100	34	100	29	100	23.4	100.0	507.0
Own produced rice	23	60	21	61	16	54	14.5	62.3	315.6
Own produced other grains	-		0	0	0	0	0.0	0.2	0.8
Own produced meat	4	11	3	9	4	15	2.9	12.4	63.1
Own produced fish	4	11	5	16	4	15	3.1	13.1	66.3
Own produced fruits	0	1	0	1	0	1	0.1	0.6	3.2
Own produced vegetables	3	8	3	10	4	13	2.4	10.1	51.1
Other own produced	3	9	1	4	1	2	0.3	1.3	6.8
Clothing and footwear	4	100	3	100	2	100	2.0	100.0	43.7
Housing	7	100	7	100	13	100	12.6	100.0	273.7
Rent of houses	0	0	0	0	0	0	0.0	0.0	0.1
Imputed rent	5	66	5	67	9	68	9.2	73.1	200.2
Firewood collected	1	18	1	15	3	20	1.9	14.7	40.2
Water, electricity	1	15	1	18	2	12	1.5	12.1	33.2
Household utensils and operations	4	100	5	100	4	100	4.3	100.0	93.3
Medical care	2	100	2	100		100	1.8	100.0	38.9
Transport and communications	7	100	11	100	12	100	19.8	100.0	429.9
Education	1	100	1	100			1.3		27.9
Personal care	3	100	1	100	2	100	2.6	100.0	56.3
Recreation	4	100	6	100		100	4.9	100.0	105.9
Alcohol and tobacco	3	100	3	100		100	2.3		49.2
Others	1	100	1	100	3	100	2.4	100.0	52.4
Total consumption	100	100	100	100	100	100	100.0	100.0	2170.7

# **Table: Groups of Diary Item codes**

Itable: Groups of Diary Item codes				
_	Itemlev2		Itemlev3	
1	Food expenditure	1	Rice.	
		2	Other cereals and bread.	
		3	Meat. Fish.	
		5		
		6	Milk, cheese and eggs.  Oils and fats.	
		7	Fruits.	
		8	Vegetables and potatoes.	
		9	Sugar and sweets.	
		10	Non-alcoholic beverages, coffee and tea.	
		11	Other food.	
		12	Meals.	
2	Consumption of own produced food	13	Own produced rice.	
		14	Own produced other grains.	
		15	Own produced meat.	
		16	Own produced fish.	
		17	Own produced fruits.	
		18	Own produced vegetables.	
		19	Other own produces.	
3	Clothing and footwear	20	Clothing and footwear.	
4	Housing	21	Rent	
		22	Imputed rent.	
		23	Firewood collected.	
		24	Water, electricity, other fuels	
5	Household utensils and operations	25	Household utensils and operations.	
6	Medical care	26	Medical care.	
7	Transport and communications	27	Transport.	
		28	Communications.	
8	Education.	29	Education.	
9	Personal care	30	Personal care.	
10	Recreation	31	Recreation.	
		32	Accommodation.	
11	Alcohol and tobacco.	33	Alcohol and tobacco.	
12	Other	34	Miscellaneous goods and services.	
		35	Remittances given away.	
		36	Taxes	
13	Sales of goods	50	Sales of goods	
14	Agricultural income	60	Agricultural income	
15	Agricultural cost	61	Agricultural cost	
16	Business income	62	Business income	

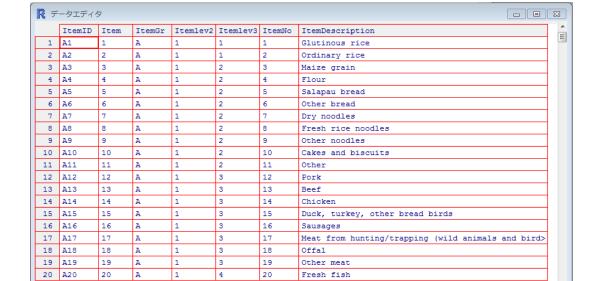
17	Business cost	63	Business cost
18	Income, remittances and transfers	80	Wages and salaries
		81	Property income
		82	Pensions and other transf.
		83	Remitt. in cash fr Laos
		84	Remitt. in cash fr abroad
		85	Remitt. in kind fr Laos
		86	Remitt. in kind fr abroad
19	Interests	96	Interests
20	Repair/mainten.of houses	97	Repair/mainten.of houses
21	Investments	98	Investments

# ☐ Appended item subgroups

- For Tentatively, completed the list of Diary Item in Excel by the author and imported it to R.
- > DiaryItem<-read.csv("diaryitem.csv", header=T)</pre>
- > dim(DiaryItem)
- [1] 443 7
- > colnames(DiaryItem)
- [1] "ItemID" "Item" "ItemGr" "Itemlev2" "Itemlev3" [6] "ItemNo" "ItemDescription"
- > head(DiaryItem)

> fix(DiaryItem)

ItemID Item ItemGr Itemlev2 Itemlev3 ItemNo ItemDescription **A**1 1 1 1 Glutinous rice 1 Α 2 2 2 Ordinary rice A2 A 1 1 3 Α3 3 2 3 1 Maize grain 4 Α4 4 A 1 Flour Α5 5 1 2 Salapau bread A **A6** 6 Other bread 1



```
# Appended the above information to DIA
> DIA2 < -merge (DIA, DiaryItem[, c(-2, -7)], by="ItemNo")
> colnames (DIA2)
 [1] "ItemNo"
                                                                    "VillageID"
                           "SerialNr"
                                               "HhID"
 [5] "Province"
                          "DistrictID"
                                               "VillageType"
                                                                    "Hhnumber"
 [9] "Interview Month" "DiarvID"
                                               "Page"
                                                                    "Serial 1"
[13] "Unit"
                           "Quantity"
                                               "Kip"
                                                                    "Kind"
                          "Purpose"
[17] "Produced"
                                               "Item"
                                                                    "Hhweight"
[21] "ItemDescription" "ItemID"
                                               "ItemGr"
                                                                    "Itemlev2"
[25] "Itemlev3"
> dim(DIA2)
[1] 1358317
                   25
> outfiles[[5]]<-DIA2
    Household expenditure by subgroup
> hhexp<-data.frame(matrix(round(tapply(DIA2$Kip*DIA2$Hhweight,
+ DIA2$Itemlev3, sum)/sum(HHB$Hhweight)/1000, 1), 34, 1))
> dim(hhexp)
[1] 34 1
> conlev3<-c("1 Rice","2 Other cereals and bread","3 Meat","4 Fish","5 Milk, cheese and eggs",
+ "6 Oils and fats", "7 Fruits", "8 Vegetables and potatoes", "9 Sugar and sweets",
+ "10 Non-alcoholic beverages, coffee and tea", "11 Other food", "12 Meals", "13 Own produced rice",
+ "14 Own produced other grains", "15 Own produced meat", "16 Own produced fish",
+ "17 Own produced fruits", "18 Own produced vegetables", "19 Other own produces",
+ "20 Clothing and footwear", "21 Rent", "23 Firewood collected", "24 Water, electricity, other fuels",
+ "25 Household utensils and operations", "26 Medical care", "27 Transport", "28 Communications",
+ "29 Education", "30 Personal care", "31 Recreation", "32 Accommodation", "33 Alcohol and tobacco",
+ "34 Miscellaneous goods and services", "35 Remittances given away")
> rownames (hhexp) <-conlev3
> colnames (hhexp) <- "Expenditure"
> hhexp<-rbind(hhexp, colSums(hhexp))</pre>
> rownames (hhexp) [35] <-"Total expenditure"
> hhexp
                                            Expenditure
1 Rice
                                                    71.4
2 Other cereals and bread
                                                    26. 2
3 Meat
                                                   155.6
                                                    64.0
4 Fish
5 Milk, cheese and eggs
                                                    13.7
6 Oils and fats
                                                    2. 3
7 Fruits
                                                    20.4
8 Vegetables and potatoes
                                                    44. 3
                                                     6.9
9 Sugar and sweets
10 Non-alcoholic beverages, coffee and tea
                                                    14.5
11 Other food
                                                    16.2
12 Meals
                                                   59.0
13 Own produced rice
                                                   315.6
                                                    0.8
14 Own produced other grains
```

63.1

15 Own produced meat

16 Own produced fish	66. 3
17 Own produced fruits	3. 3
18 Own produced vegetables	51. 1
19 Other own produces	6. 7
20 Clothing and footwear	43. 6
21 Rent	0. 1
23 Firewood collected	40. 2
24 Water, electricity, other fuels	33. 2
25 Household utensils and operations	58. 1
26 Medical care	38. 9
27 Transport	247. 9
28 Communications	24. 4
29 Education	27. 9
30 Personal care	35. 8
31 Recreation	60. 6
32 Accommodation	1. 3
33 Alcohol and tobacco	49. 2
34 Miscellaneous goods and services	36. 6
35 Remittances given away	26. 4
Total expenditure	1725. 6

# ☐ Comparison with the survey report

Table: Monthly average household consumption by group of goods and

(1000 Kip)

Group of goods and services	Table 3.12 of the report	Computed from DIA	Gap	Remarks
Food expenditure	492.5			
Rice	71.4	71.4	0.0	
Other cereals and bread	26.2	26.2	0.0	
Meat	155.6	155.6	0.0	
Fish	64.0	64.0	0.0	
Milk cheese and eggs	13.7	13.7	0.0	
Oils and fats	2.3	2.3	0.0	
Fruits	19.9	20.4	0.5	
Vegetables	44.0	44.3	0.0	
Sugar and sweets	6.9	6.9	0.0	
Non-alcoholic beverages coffee & tea	14.5	14.5	0.0	
Other foods	16.9	16.2	-0.7	
Meals	57.2	59.0	1.8	
Own produced food	507.0	507.0	0.0	
Rice own produced	315.6	315.6	0.0	
Other own grain products	0.8	0.8	0.0	
Meat own produced	63.1	63.1	0.0	
Fish own produced	66.3	66.3	0.0	
Fruits own produced	3.2	3.3	0.1	
Vegetables own produced	51.1	51.1	0.0	
Other own products	6.8	6.7	-0.1	
other own products	0.0	0.7	0.1	
Clothing footwear tailoring	43.7	43.6	-0.1	
cretiming rectived tanoring	10.7	10.0	0.1	
Housing	273.7	73.5	-200.2	
Rent of houses	0.1	0.1	0.0	
Imputed rent	200.2	_	-200.2	1)
Fetched firewood	40.2	40.2	0.0	.,
Water electricity etc	33.2	33.2	0.0	
Water electricity etc	33.2	00.2	0.0	
Household utensils and operations	93.3	58.1	-35.2	2)
Medical care	38.9	38.9	0.0	_/
Transport		247.9		2)
Communication	429.9	24.4	-157.6	-/
Education	27.9	27.9	0.0	
Personal care	56.3	35.8	-20.5	2)
Recreation	105.9	60.6	-45.4	2)
Alcohol and tobacco	49.2	49.2	0.0	<i>-)</i>
Miscellaneous goods and services	77.2	36.6	0.0	
Remittances given away	52.4	26.4	10.6	
Total consumption	2170.7	1725.6	-445.1	
rotai consumption	2170.7	1725.0	-440. I	İ

Note 1) To be estimated from IX Housing condition

<sup>2)</sup>Some items to be estimated from XIV Household's purchase and selling of durables

```
### Housing ###
# Monthly average imputed rent estimated from Housing
> sum(df\$P9Q2*df\$Hhweight)/sum(df\$Hhweight)/12/1000
[1] 200. 236
### Purchase ###
> df<-Purchase
# Monthly purchase of durables
> t<-round (tapply (df$KipB*df$Hhweight, df$ItemB, sum) /984610/1000/12, 1)
> t
 201 202 203 204 205 206 207
                                    208 209
                                               218 223 230 231 232
                                                                        233
                                                                             234
                                                                                   235
 1.8
     2.8 9.1
               1. 2 1. 3
                          0.7
                               0.6
                                    1. 1
                                          0.1
                                               0.8
                                                    1. 2
                                                         0. 2
                                                              7. 1
                                                                   0.3
                                                                        0.6
                                                                             1.8
                                                                                   0.2
           238 269
                     270
                          271
                               272
                                    284
                                          285
                                               292
                                                    293
                                                         294
                                                              295
                                                                                   299
 236 237
                                                                   296
                                                                        297
                                                                             298
 1.0 1.7
           0. 3 83. 7 58. 8
                          3.1
                               7.5
                                    0.2
                                         1.5
                                               1.1 8.6 0.5
                                                              2.8
                                                                   0.1
                                                                        0.8 12.4
                                                                                   0.5
 300 304 305 306 341
                          342 343
                                    344
                                         356
 0.8 \quad 1.3 \quad 0.0 \quad 0.1 \quad 0.1 \quad 5.1 \quad 14.5 \quad 0.0 \quad 3.2
> sum(t)
[1] 240.6
> length(t)
[1] 43
# Household utensils and operations
> t[1:20]
201 202 203 204 205 206 207 208 209 218 223 230 231 232 233 234 235 236 237 238
1.8 2.8 9.1 1.2 1.3 0.7 0.6 1.1 0.1 0.8 1.2 0.2 7.1 0.3 0.6 1.8 0.2 1.0 1.7 0.3
> sum(t[1:20])
[1] 33.9
# Transport
> t[21:24]
 269 270 271 272
83.7 58.8 3.1 7.5
> sum(t[21:24])
[1] 153.1
# Personal care
> t[39:42]
 341 342 343 344
 0.1 5.1 14.5 0.0
> sum(t[39:42])
[1] 19.7
# Recreation
> t[c(25:38, 43)]
 284 285 292 293 294 295
                               296 297 298
                                               299
                                                    300
                                                         304
                                                              305
                                                                   306
                                                                        356
```

0.2 1.5 1.1 8.6 0.5 2.8 0.1 0.8 12.4 0.5 0.8 1.3 0.0 0.1

```
> sum(t[c(25:38,43)])
[1] 33.9
```

# 8 Resampling of micro data

# Strategy for reorganizing and resampling micro data files

	The next variables were appended to all data files;  ■ Region  ■ New.Province
	The next variables were appended to HHB;  IND.male  IND.female  IND.total
	The next variables were appended to DIA;  ItemNo ItemDescription ItemID Item ItemGr ItemGr Itemlev2 Itemlev3
	To select HhID at the rate of 80 % using SYS; Interval=5, Random start number=1, and set as HhID.selected.
	To select records in each data file which belong to the HhID.selected.
	Add WT=Hhweight/0.8 to each data file.
> HI > IN > EI > IN > D	s() "outfiles" HB<-outfiles[[1]] ND<-outfiles[[2]] DU<-outfiles[[3]] NC<-outfiles[[4]] IA<-outfiles[[5]] UR<-outfiles[[6]]
> HI	HB<-HHB[order(HHB\$HhID),]
> HI > HI > ni [1] > HI > d [1]	elected HHID at the rate of 80%  HB["sn"]<-1:nrow(HHB)  HB80<-HHB[HHB\$sn%5!=1,]  row(HHB80)/nrow(HHB)  0.7999036  HB80<-HHB80[1:38]  HB80["WT"]<-HHB80\$Hhweight/0.8  im(HHB80)  6636 39
# 56	elected HhID

```
> HhID. selected <- as. vector (HHB80$HhID)
> length (HhID. selected)
[1] 6636
# Generated 80% resampled micro data files
> IND80<-subset(IND, is.element(HhID, HhID, selected))
> IND80["WT"]<- IND80$Hhweight/0.8
> dim(IND80)
[1] 38439
             22
> EDU80<-subset(EDU, is.element(HhID, HhID.selected))
> EDU80["WT"]<- EDU80$Hhweight/0.8
> dim(EDU80)
[1] 33196
             56
> INC80<-subset(INC, is.element(HhID, HhID, selected))
> INC80["WT"]<- INC80$Hhweight/0.8
> dim(INC80)
[1] 3252
> DIA80<-subset(DIA, is. element(HhID, HhID, selected))
> DIA80["WT"]<- DIA80$Hhweight/0.8
> dim(DIA80)
[1] 1085932
                  28
> DUR80<-subset(DUR, is.element(HhID, HhID.selected))
> DUR80["WT"]<- DUR80$Hhweight/0.8
> dim(DUR80)
[1] 67056
> Housing80<-subset (Housing, is. element (HhID, HhID. selected))
> Housing80$WT<-Housing80$Hhweight/0.8
> dim(Housing80)
[1] 6636
> Purchase80<-subset (Purchase1, is. element (HhID, HhID. selected))
> Purchase80$WT<-Purchase80$Hhweight/0.8
> dim(Purchase80)
[1] 10140
             18
> save (DIA80, DUR80, EDU80, HHB80, INC80, IND80, Housing80, Purchase80,
+ file="Resampled.LECS4.rev.RData")
```

### Exported the resampled data in CSV format

```
> write. table (HHB80, file="HHB80. csv", sep=", ", row. names=F)
> write. table (IND80, file="IND80. csv", sep=", ", row. names=F)
> write. table (EDU80, file="EDU80. csv", sep=", ", row. names=F)
> write. table (INC80, file="INC80. csv", sep=", ", row. names=F)
> write. table (DIA80, file="DIA80. csv", sep=", ", row. names=F)
> write. table (DUR80, file="DUR80. csv", sep=", ", row. names=F)
> write. table (Housing80, file="Housing80. csv", sep=", ", row. names=F)
```

> write. table (Purchase80, file="Purchase80.csv", sep=", ", row. names=F)

> colnames (HHB80) [1] "SerialNr" [6] "VillageType" [11] "P1001a_2" [16] "P12S3Wet" [21] "P12S801" [26] "P14S5" [31] "Female" [36] "IND. male"	"HhID" "Hhnumber" "P1001a_3" "P12S501" "P14S1" "P15" "Total" "IND. female"	"VillageID" "Interview_Month" "P11Q1S1" "P12S6Q1" "P14S2" "P16S1Q1" "Hhweight" "Region"	"Province" "P8" "P12S1Q1" "P12S7Q1" "P14S3" "P16S2Q1" "New. Province" "WT"	"DistrictID" "P1001a_1" "P12S3Dry" "P12S702" "P14S4" "Male" "IND. total"
> colnames (IND80) [1] "SerialNr" [6] "VillageType" [11] "P1Q2" [16] "P1Q5" [21] "Region"	"HhID" "Hhnumber" "P103" "P106" "WT"	"VillageID" "Interview_Month" "P1Q4a" "P1Q7"	"Province" "PersID" "P1Q4b" "Hhweight"	"DistrictID" "PCode" "P104c" "New.Province"
> colnames (EDU80) [1] "SerialNr" [6] "VillageType" [11] "P3Q1" [16] "P3Q5" [21] "P3Q80ther" [26] "P3Q11b" [31] "P3Q14c" [36] "P3Q14i" [41] "P3Q18a" [46] "P3Q21" [51] "P3Q26" [56] "WT"	"HhID" "Hhnumber" "P302" "P306" "P309" "P3012" "P3014d" "P3014h" "P3018b" "P3022" "P30260ther"	"VillageID" "Interview_Month" "P303" "P307a" "P3090ther" "P30120ther" "P3014e" "P3015" "P3019" "P3023" "Hhweight"	"Province" "PasID" "P304" "P307b" "P3010" "P3014a" "P3014f" "P3016" "P30190ther" "P3024" "New. Province"	"DistrictID" "PCode" "P3040ther" "P308" "P3011a" "P3014b" "P3014g" "P3017" "p3020" "P3025" "Region"
> colnames (INC80) [1] "PersID" [6] "Province" [11] "P1Q5" [16] "Incom801" [21] "Incom806" [26] "Incom811" [31] "WT"	"HhID"  "VillageType"  "P106"  "Incom802"  "Incom807"  "Incom812"	"SerialNr" "Interview_Month" "P107" "Incom803" "Incom808" "IncomeOth"	"VillageID" "P1Q2" "Hhweight" "Incom804" "Incom809" "New. Province"	"DistrictID" "P103" "Incom800" "Incom805" "Incom810" "Region"
> colnames (DIA80) [1] "ItemNo" [6] "DistrictID" [11] "Page" [16] "Kind" [21] "ItemDescription" [26] "New Province"	"SerialNr" "VillageType" "Serial_1" "Produced" "ItemID" "Region"	"HhID" "Hhnumber" "Unit" "Purpose" "ItemGr" "WT"	"VillageID" "Interview_Month" "Quantity" "Item" "Itemlev2"	"Province" "DiaryID" "Kip" "Hhweight" "Itemlev3"
> colnames (DUR80) [1] "HhID" [6] "VillageType" [11] "P8Q1b" [16] "WT"	"SerialNr" "Interview_Month" "P802"	"VillageID" "Hhweight" "P80th"	"DistrictID" "DurCode" "New.Province"	"Province" "P8Q1a" "Region"

# > colnames (Housing80)

[1]	"SerialNr"	"HhID"	"VillageID"	"Province"
[5]	"DistrictID"	"VillageType"	"Hhnumber"	"Interview_Month"
[9]	"P9Q1"	"P9Q10th"	"P9Q2"	"P9Q3a"
[13]	"P9Q3b"	"P9Q30th"	"P9Q4"	"P9Q40th"
[17]	"P9Q5"	"P9Q50th"	"P9Q6a"	"P9Q6b"
[21]	"P9Q7"	"P9Q7b"	"P9Q8"	"P9Q80th"
[25]	"P9Q9"	"P9Q10"	"P9Q100th"	"P9Q11"
[29]	"P9Q12"	"P9Q120th"	"P9Q13"	"P9Q130th"
[33]	"P9Q14"	"P9Q140th"	"P9Q15"	"P9Q150th"
[37]	"Hhweight"	"WT"		

# > colnames (Purchase80)

[1]	"SerialNr"	"HhID"	"VillageID"	"Province"
[5]	"DistrictID"	"VillageType"	"Hhnumber"	"Interview_Month"
[9]	"P14S1"	"ItemB"	"Bought"	"KipB"
[13]	"ItemB2080th"	"ItemB2370th"	"ItemB2720th"	"ItemB3040th"
[17]	"Hhweight"	"WT"		

# 9 Tables generated from other data files

### 9.1 HHB: Household operating business

```
HHB
> HHB<-outfiles[[1]]
> nrow(HHB)
[1] 8296
P11Q1S1: Operating non-agricultural business
# Proportion of sample household operating non-agricultural business
> round (prop. table (table (HHB$P11Q1S1))*100, 1)
  1 2
24. 3 75. 7
# Proportion of estimated number of household operating non-agricultural business
> round (prop. table (tapply (HHB$Hhweight, HHB$P11Q1S1, sum)) *100, 1)
  1 2
28. 2 71. 8
# Rate of the estimated number of household operating non-agricultural business by province
> hhob<-matrix(by(HHB, list(HHB$New.Province), function(df)
+ sum((df$P11Q1S1==1)*df$Hhweight)/sum(df$Hhweight)*100), 17, 1)
> Province<-c("01 Vientiane C.", "02 Phongsaly", "03 Luangnamtha", "04 Oudomxay", + "05 Bokeo", "06 Luangprabang", "07 Huaphanh", "08 Xayabury", "09 Xiengkhuang",
+ "10 Vientiane", "11 Borikhamxay", "12 Khammuane", "13 Savannakhet", "14 Saravane",
+ "15 Sekong", "16 Champasack", "17 Attapeu")
> rownames (hhob) <- Province
> colnames(hhob) <-"Operating business"
> round (hhob, 1)
                  Operating business
01 Vientiane C.
                                 57. 5
02 Phongsaly
                                  8.6
03 Luangnamtha
                                 12.3
04 Oudomxay
                                 11.0
05 Bokeo
                                 12. 1
06 Luangprabang
                                 32. 1
07 Huaphanh
                                  8.0
08 Xayabury
                                 30.1
09 Xiengkhuang
                                 17.5
10 Vientiane
                                 31.9
11 Borikhamxay
                                 29.3
12 Khammuane
                                 20.0
13 Savannakhet
                                 28.6
14 Saravane
                                 14.6
15 Sekong
                                 15.8
16 Champasack
                                 32.2
17 Attapeu
                                 35.5
```

Slightly different from Table 5.12 of the survey report.

Table 5.12: Per cent of households operating a business

	Households	Households	Households	Households
	operating business	operating	operating	operating
	%	one business	two businesses	three or more
		%	%	businesses %
Total country	28.0	23.0	4.0	0.7
Urban	49.0	39.0	8.0	1.5
Rural	32.0	27.0	5.0	0.8
North	19.0	15.0	3.0	0.4
Phongsaly	8.0	8.0	0.0	0.0
Luangnamtha	12.0	10.0	2.0	0.1
Oudomxay	11.0	10.0	1.0	0.0
Bokeo	12.0	10.0	2.0	0.2
Luangprabang	32.0	24.0	7.0	8.0
Huaphanh	8.0	6.0	1.0	0.7
Xayaboury	30.0	24.0	6.0	0.5
Center	34.0	28.0	5.0	0.9
Vientiane C.	57.0	45.0	11.0	2.0
Xiengkhuang	17.0	16.0	1.0	0.1
Vientiane P.	29.0	25.0	4.0	0.9
Borikhamxay	29.0	25.0	4.0	0.0
Khammuane	20.0	18.0	2.0	0.0
Savannakhet	29.0	25.0	3.0	0.8
South	26.0	21.0	4.0	0.7
Saravane	15.0	13.0	1.0	0.3
Sekong	15.0	13.0	2.0	0.0
Champasack	32.0	26.0	5.0	1.0
Attapeu	35.0	27.0	8.0	0.8

### 9.2 IND: Household member data file

- Age heaping, household size, dependency ratio, consumption unit

IND
> IND<-outfiles[[2]]
> nrow(IND)
[1] 48021

### Age (IND\$P1Q5)

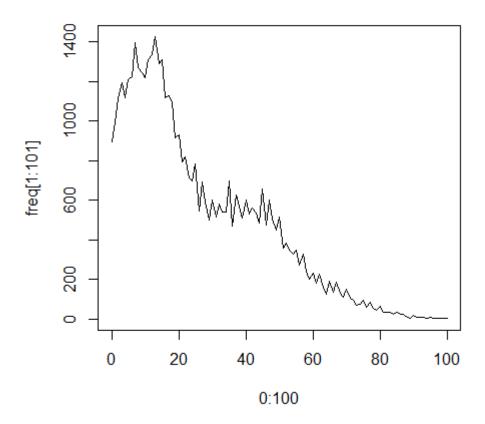
> summary(IND\$P1Q5)
Min. 1st Qu. Median Mean 3rd Qu. Max.
0.00 10.00 20.00 25.32 39.00 999.00

#### > table(IND\$P1Q5) 994 1109 1194 1116 1207 1223 1396 1268 1243 1218 1310 1334 1423 1289 1311 1114 1126 1090

The value 999 may represent missing value.

- # Age heaping
- > freq<-as. vector (table (IND\$P1Q5))
- > plot(0:100, freq[1:101], type="l")

107



Age heaping phenoenon was found, but it was not severe.

### Household size

> Collapsed IND by household and generated variables of household size

```
> IND["Total"]<-1
> IND["Male"] <- ifelse(IND$P1Q3==1, 1, 0)
> IND["Female"] <- ifelse (IND$P1Q3==2, 1, 0)
> x < -aggregate(IND[c("Total", "Male", "Female")], list(IND$HhID), FUN=sum)
> class(x)
[1] "data.frame"
> dim(x)
[1] 8296
> colnames (x) <-c ("HhID", "T", "M", "F")
> head(x)
       HhID T M F
1 010100102 7 4 3
2 010100103 6 2 4
3 010100104 4 2 2
4 010100105 4 2 2
5 010100106 6 3 3
6 010100108 7 1 6
```

Compared with household size in HHB

```
> y<-merge(x, HHB[c("HhID", "Total", "Male", "Female")], by="HhID")
> dim(y)
[1] 8296
            7
> head(y)
       HhID T M F Total Male Female
1 010100102 7 4 3
                      7
                            4
2 010100103 6 2 4
                            2
                                   4
                      6
                                   2
3 010100104 4 2 2
4 010100105 4 2 2
                            2
                                   2
5 010100106 6 3 3
                      6
                            3
                                   3
6 010100108 7 1 6
                            1
                                   6
```

# Compared variables between T and Total, between M and Male, and between F and Female.

```
> sum(y[2]!=y[5])
[1] 8
> sum(y[3]!=y[6])
[1] 6
> sum(y[4]!=y[7])
[1] 11
```

### Inconsistency about the number of Male

```
> y[y[3]!=y[6],]
         HhID T M F Total Male Female
807 020105111 8 4 4
                        8
                             3
                                    5
1044 020502105 7 3 4
                        7
                             2
                                    5
1152 020702023 7 2 5
                        7
                             3
                                    4
1574 040102511 7 4 3
                        7
                             5
                                    2
2234 050502017 5 2 3
                        5
                             3
                                    2
7775 160611312 7 5 2
                                    2
```

```
# Displayed household members who belonged the households with inconsistency
> (hhid.err<-y[y[3]!=y[6], "HhID"])
[1] 020105111 020502105 020702023 040102511 050502017 160611312
8296 Levels: 010100102 010100103 010100104 010100105 010100106 ... 180300423
> IND[is.element(IND$HhID, hhid.err), c("HhID", "PCode", "P1Q2", "P1Q3", "P1Q5")]
           HhID PCode P1Q2 P1Q3 P1Q5
4240 020105111
                   01
                         1
                                   56
                               1
4241 020105111
                   02
                          2
                               2
                                   55
                                   24
4242 020105111
                   03
                          4
                               1
4243 020105111
                   04
                          4
                               2
                                   21
4244
     020105111
                   05
                          4
                               2
                                   19
4245 020105111
                   06
                          4
                                   18
                               1
4246 020105111
                   07
                          4
                               1
                                   12
4247
     020105111
                   80
                          4
                               2
                                    2
5708
     020502105
                   01
                          1
                               1
                                   35
5709
     020502105
                   02
                         2
                               2
                                   34
5710 020502105
                   03
                         4
                               2
                                   17
5711 020502105
                   04
                         4
                                   15
                               1
5712 020502105
                   05
                         4
                               1
                                   13
                          3
5713 020502105
                   06
                               2
                                   65
5714 020502105
                   07
                          3
                               2
                                   90
6319 020702023
                   01
                         1
                               1
                                   41
                                   39
6320
     020702023
                   02
                          2
                               2
6321
     020702023
                   03
                          3
                               2
                                   75
6322
     020702023
                   04
                          4
                               2
                                   15
                               2
6323
      020702023
                   05
                          4
                                   14
6324
     020702023
                   06
                          4
                               2
                                   11
6325
     020702023
                   07
                          4
                               1
                                    7
8776 040102511
                                   46
                   01
                         1
                               1
8777 040102511
                          2
                                   42
                   02
                               2
8778
     040102511
                   03
                          4
                               2
                                   18
8779
     040102511
                   04
                          4
                               1
                                   15
8780
     040102511
                   05
                          4
                               1
                                   14
8781
     040102511
                   06
                          3
                                   86
                               1
8782 040102511
                          3
                   07
                               2
                                   85
12539 050502017
                   01
                                   44
                          1
                               1
12540 050502017
                   02
                          2
                               2
                                   36
12541 050502017
                   03
                          4
                               2
                                   15
12542 050502017
                   04
                         4
                               1
                                   12
12543 050502017
                   05
                          3
                               2
                                   71
45031 160611312
                   01
                                   42
                         1
                               1
45032 160611312
                   02
                         2
                               2
                                   38
45033 160611312
                   03
                                   18
                               1
45034 160611312
                   04
                               1
                                   14
45035 160611312
                   05
                          4
                               1
                                   11
45036 160611312
                   06
                          4
                               2
                                    6
45037 160611312
                   07
                                    4
                               1
```

It was confirmed that the number of household members by sex from micro data might be more reliable.

```
Inconsistency about the number of Female
> y[y[4]!=y[7],]
          HhID T M F Total Male Female
335 010400622 7 5 2
                               5
                          6
454 010600608 6 3 3
                          7
                               3
                                       4
807 020105111 8 4 4
                               3
                                       5
1044 020502105 7 3 4
                          7
                               2
1152 020702023 7 2 5
                          7
                               3
                                       4
1574 040102511 7 4 3
                          7
                               5
                                       2
2234 050502017 5 2 3
                          5
                               3
                                      2
2471 060403514 7 3 4
                          6
                               3
                                       3
2654 060710221 8 3 5
                          7
                               3
                                       4
3205 070611607 11 7 4
                         12
                               7
                                       5
6892 140505220 5 2 3
                               2
                                       4
> (hhid.err<-y[y[4]!=y[7], "HhID"])
 [1] 010400622 010600608 020105111 020502105 020702023 040102511 050502017
 [8] 060403514 060710221 070611607 140505220
8296 Levels: 010100102 010100103 010100104 010100105 010100106 ... 180300423
> IND[is.element(IND$HhID, hhid.err), c("HhID", "PCode", "P1Q2", "P1Q3", "P1Q5")]
           HhID PCode P1Q2 P1Q3 P1Q5
1759 010400622
                   01
                         1
                              1
                                  51
1760
     010400622
                   02
                         2
                              2
                                  44
1761
     010400622
                   03
                         4
                              1
                                  21
1762
     010400622
                   04
                         4
                                  19
                              1
      010400622
1763
                   05
                         4
                              1
                                  16
1764
     010400622
                   06
                         4
                                  10
                              1
1765
                         4
     010400622
                   07
                              2
                                  20
2388
     010600608
                   01
                         1
                              1
                                   50
2389
      010600608
                   03
                         3
                              2
                                  80
2390
     010600608
                         4
                                  23
                   04
                              1
2391
     010600608
                   05
                         4
                                  22
                              1
2392
      010600608
                   06
                         5
                                  21
                              2
2393
     010600608
                   07
                         8
                              2
                                   0
4240 020105111
                         1
                              1
                                   56
4241
     020105111
                   02
                         2
                              2
                                  55
4242 020105111
                   03
                         4
                              1
                                  24
4243 020105111
                   04
                         4
                              2
                                  21
4244 020105111
                   05
                         4
                              2
                                  19
4245 020105111
                         4
                   06
                              1
                                  18
4246 020105111
                   07
                         4
                              1
                                   12
4247 020105111
                              2
                                   2
5708 020502105
                   01
                                  35
                         1
                              1
5709
      020502105
                   02
                         2
                              2
                                  34
5710
      020502105
                   03
                         4
                              2
                                  17
5711
      020502105
                   04
                         4
                              1
                                  15
5712
      020502105
                   05
                         4
                                  13
                              1
5713 020502105
                   06
                         3
                              2
                                  65
5714 020502105
                   07
                              2
                                  90
```

6319	020702023	01	1	1	41
6320	020702023	02	2	2	39
6321	020702023	03	3	2	75
6322	020702023	04	4	2	15
6323	020702023	05	4	2	14
6324	020702023	06	4	2	11
6325	020702023	07	4	1	7
8776	040102511	01	1	1	46
8777	040102511	02	2	2	42
	040102511	03	4		18
8778				2	
8779	040102511	04	4	1	15
8780	040102511	05	4	1	14
8781	040102511	06	3	1	86
8782	040102511	07	3	2	85
12539	050502017	01	1	1	44
12540	050502017	02	2	2	36
12541	050502017	03	4	2	15
12542	050502017	04	4	1	12
12543	050502017	05	3	2	71
13837	060403514	01	1	1	54
13838	060403514	02	2	2	40
13839	060403514	03	4	2	19
13840	060403514	04	4	1	15
13841	060403514	05	4	2	11
13842	060403514	06	4	1	7
13843	060403514	07	4	2	5
14896	060710221	01	1	1	48
14897	060710221	02	2	2	43
14898	060710221	03	5	1	27
14899	060710221	04	4	2	19
14900	060710221	05	4	2	20
14901	060710221	06	8	2	2
14902	060710221	07	8	1	0
14903	060710221	80	8	2	67
18644	070611607	01	1	1	70
18645	070611607	02	2	2	60
18646	070611607	03	4	1	27
	070611607			-	
18647		04	5	2	27
18648	070611607	05	8	1	8
18649	070611607	07	8	1	2
18650	070611607	80	4	1	12
18651	070611607	09	4	1	10
18652	070611607	10	4	1	7
18653	070611607	11	4	2	15
18654	070611607	12	4	2	12
39687	140505220	01	1	1	/11
	140505220				41
39688	140505220	02	2	2	41
39689	140505220	04	4	1	18
39690	140505220	05	4	2	15
39691	140505220	06	4	2	6

It was confirmed that the number of household members by sex from micro data might be more reliable.

```
Added variables of IND.total, IND.male and IND.female to data frame HHB 
HHB["IND. total"]<-x$T

HHB["IND. male"]<-x$M

HHB["IND. female"]<-x$F

dim(HHB)

[1] 8296 37

outfiles[[1]]<-HHB
```

### Dependency ratio

```
# Numerator of dependency ratio
\rightarrow depratio.num\langle-sum(IND$Hhweight*(IND$P1Q5\langle=14|IND$P1Q5\rangle=65))
> depratio.num
[1] 2272706
# Denominator of dependency ratio
> depratio.den<-sum(IND$Hhweight*(IND$P1Q5>=15&IND$P1Q5<=64))
> depratio. den
[1] 3334314
> round (depratio. num/depratio. den. 1)
[1] 0.7
# Dependency ratio by province
```

```
> dep. ratio<-matrix (by (IND, list (IND$New. Province), function (df)
+ sum(df$Hhweight*(df$P1Q5<=14|df$P1Q5>=65))/
+ sum(df$Hhweight*(df$P1Q5>=15&df$P1Q5<=64))), 17, 1)
> rownames (dep. ratio) <- Province
> colnames (dep. ratio) <-"Dependency ratio"
> round(dep.ratio, 1)
                Dependency ratio
01 Vientiane C.
                              0.4
02 Phongsaly
                              0.8
03 Luangnamtha
                              0.7
04 Oudomxay
                              0.8
05 Bokeo
                              0.7
06 Luangprabang
                              0.7
07 Huaphanh
                              0.9
08 Xayabury
                              0.6
09 Xiengkhuang
                              0.9
10 Vientiane
                              0.7
11 Borikhamxay
                              0.7
12 Khammuane
                              0.8
13 Savannakhet
                              0.7
14 Saravane
                              0.9
15 Sekong
                              1.0
16 Champasack
                              0.7
17 Attapeu
                              0.7
```

Completely the same as the table 2.4 of the survey report.

Table 2.4: Dependency rates and average number of consumption units, by province and region 2007/2008.

	Dependency ratio	Average no. of consumption unit	Dependency ratio	Average no. of consumption unit
	2007/08	2007/08	2002/03	2002/03
Lao PDR	0.7	4.7	0.8	4.5
Urban	0.5	4.7	0.6	4.5
Rural	0.8	4.8	0.9	4.6
North	0.7	4.8	0.9	4.6
Phongsaly	0.8	4.9	0.9	4.8
Luangnamtha	0.7	4.8	0.7	4.5
Oudomxay	0.8	5.1	0.9	4.8
Bokeo	0.7	4.2	0.8	4
Luangprabang	0.7	4.8	0.9	4.6
Huaphanh	0.9	5.6	1.1	5.3
Xayaboury	0.6	4.5	0.7	4.3
Center	0.6	4.7	0.7	4.6
Vientiane C.	0.4	4.6	0.5	4.5
Xiengkhuang	0.9	5.0	1.1	5.3
Vientiane P.	0.7	4.6	0.8	4.4
Borikhamxay	0.7	4.3	0.8	4.3
Khammuane	0.8	4.3	0.9	4.3
Savannakhet	0.7	4.9	0.8	4.7
South	0.8	4.7	0.9	4.4
Saravane	0.9	4.8	0.9	4.4
Sekong	1.0	5.3	1	4.6
Champasack	0.7	4.5	0.8	4.4
Attapeu	0.7	4.6	0.9	4.3

### **Consumption unit**

#### Definition:

Average number of consumption unit is calculated as 1 for the first adult in the household, 0.9 for other adults, 0.4 for children below age 7 and 0.7 for children aged 7-15. The consumption unit approach reflects the fact that members of a household can share some expenses and small children needs less food than an adult or a teenager.

```
2 010100103 6 0 0
3 010100104 4
               0 0
4 010100105 3
               0
5 010100106 6
               0
                   0
6 010100108 7
                0
                   0
# Composition of the household with HhID=010100102
> IND[IND$HhID=="010100102", c("PersID", "P1Q2", "P1Q3", "P1Q5")]
      PersID P1Q2 P1Q3 P1Q5
1 01010010201
               1
                    1
                        55
2 01010010202
                2
                    2
                        42
3 01010010203
              7 1
                        34
4 01010010204
              7 2 32
5 01010010205
                  1
                        20
               4
6 01010010206
                    2
                       17
               4
7 01010010207
                4
                        14
# Defined the consumption unit
# There is at least one adult for every household.
> table (INDc$ad>=1)
TRUE
8296
> INDc["con. unit"]<-0. 1+0. 9*INDc$ad+0. 4*INDc$ch1+0. 7*INDc$ch2
> head(INDc)
      HhID ad ch1 ch2 con.unit
1 010100102 6 0 1
                          6.2
2 010100103 6
               0
                  0
                          5.5
3 010100104 4 0 0
                          3.7
4 010100105 3 0 1
                          3.5
5 010100106 6 0 0
                          5.5
6 010100108 7 0 0
                          6.4
> mean(INDc$con.unit)
[1] 4.559016
> weighted.mean(INDc$con.unit, HHB$Hhweight)
[1] 4.51988
```

#### **Conclusion:**

The average consumption unit is 4.5 from micro data, while that of the report is 4.7 as in the previous Table 2.4.

### 9.3 EDU: Education

- Net enrolment ration of children aged 6-11, literacy rate of population aged 15 and over

```
☐ The target of Education questionnaire is not clear.
```

(maybe 6 and over)

☐ Definition of primary school net enrolment ratio (NER)

NER = Enrolled children in the official school age group / Total number of children in the official school age group

### **□** Denominator from data frame IND

```
> IND<-outfiles[[2]]
```

- > dim(IND)
- [1] 48021 23
- > df<-subset(IND, P1Q5>=6 & P1Q5<=10)
- > t<-tapply(df\$Hhweight, list(df\$New. Province, df\$P1Q3), sum)
- > dim(t)
- [1] 17 2

### # denominator matrix

- > den<-matrix(t, 17, 2)
- > colnames (den) <-c ("Male", "Female")
- > rownames (den) <-Province
- > round (addmargins (den))

, ,	oarra (aaamar 6	(40)	,	
		Male	Female	Sum
01	Vientiane C.	23165	24941	48106
02	Phongsaly	12033	11450	23484
03	Luangnamtha	10625	10113	20738
04	Oudomxay	20723	18297	39020
05	Bokeo	9568	8144	17712
06	Luangprabang	26223	26676	52899
07	Huaphanh	23056	23569	46626
80	Xayabury	18914	16045	34959
09	Xiengkhuang	18987	16667	35654
10	Vientiane	27446	26991	54437
11	Borikhamxay	13503	13919	27422
12	Khammuane	23002	24752	47754
13	Savannakhet	55762	44059	99820
14	Saravane	25629	26668	52297
15	Sekong	8723	7341	16064
16	Champasack	36778	38454	75232
17	Attapeu	8005	7761	15765
Sur	n	362142	345848	707990

```
Numerator from data frame EDU
> EDU<-outfiles[[3]]
> dim(EDU)
[1] 41455
              54
# Appended sex (P1Q3) and age (P1Q5) of IND to EDU
> EDU2<-merge(EDU, IND[c("PersID", "P1Q3", "P1Q5")])
# Total number of enrolled children aged 6-10 by province
> df<-subset (EDU2, P1Q5>=6 & P1Q5<=10& (P3Q6==1 | P3Q6==2))
> dim(df)
[1] 4937
> t<-tapply (df$Hhweight, list (df$New. Province, df$P1Q3), sum)
> dim(t)
[1] 17 2
# numerator matrix
> num<-matrix(t, 17, 2)
> colnames (num) <-c ("Male", "Female")
> rownames (num) <-Province
> round (addmargins (num))
                  Male Female
                                 Sum
                 22287 24160 46447
01 Vientiane C.
02 Phongsaly
                  7953
                         7022 14975
03 Luangnamtha
                  7978
                         7908
                               15886
04 Oudomxay
                 15269
                        11764
                               27034
05 Bokeo
                  7521
                         6100
                               13621
06 Luangprabang 21164
                        21852
                               43017
07 Huaphanh
                 18031
                        16963
                               34994
08 Xayabury
                 16525
                        13433
                               29957
09 Xiengkhuang
                 16079
                        13913
                               29992
10 Vientiane
                 26175
                       24832
                               51007
11 Borikhamxay
                 12896 13130
                               26026
12 Khammuane
                 16951 18280 35232
                 44779 32598 77377
13 Savannakhet
                 16732 16442 33174
14 Saravane
15 Sekong
                  6337
                         5645 11982
16 Champasack
                 31862 32256 64118
                         6279 12243
17 Attapeu
                  5964
                294504 272577 567082
Sum
# Net enrolment ratio of children aged 6-10 by province
> ner<-round (addmargins (num) /addmargins (den) *100, 1)
> dim(ner)
[1] 18 3
> rownames (ner) <-c (Province, "Total")
> colnames (ner) <-c ("Male", "Female", "Total")
> ner
```

```
Male Female Total
01 Vientiane C. 96.2
                                                                            96. 9 96. 6
02 Phongsaly
                                                      66. 1
                                                                             61.3
                                                                                                 63.8
03 Luangnamtha 75.1
                                                                             78. 2
                                                                                                 76.6
04 Oudomxay
                                                      73.7
                                                                              64. 3
                                                                                                 69.3
05 Bokeo
                                                      78.6
                                                                             74.9 76.9
06 Luangprabang 80.7
                                                                             81.9 81.3
07 Huaphanh
                                                      78. 2
                                                                             72.0 75.1
08 Xayabury
                                                      87. 4
                                                                             83.7 85.7
09 Xiengkhuang 84.7
                                                                             83. 5 84. 1
10 Vientiane
                                                      95.4
                                                                              92.0 93.7
11 Borikhamxay
                                                      95. 5
                                                                              94.3 94.9
                                                                              73.9 73.8
12 Khammuane
                                                      73.7
                                                                             74.0 77.5
13 Savannakhet 80.3
14 Saravane
                                                      65.3
                                                                              61.7
                                                                                                 63.4
15 Sekong
                                                      72.6
                                                                             76.9 74.6
 16 Champasack
                                                      86.6
                                                                             83.9 85.2
17 Attapeu
                                                      74.5
                                                                              80.9
                                                                                                77.7
Total
                                                      81.3
                                                                             78.8 80.1
# Net enrolment ratio of children aged 6-10 by village type
> df. d<-subset (IND, P1Q5>=6 & P1Q5<=10)
> EDU2<-merge (EDU, IND[c("PersID", "P1Q3", "P1Q5")])
> df. n < -subset (EDU2, P1Q5 > = 6 & P1Q5 < = 10& (P3Q6 = = 1 | P3Q6 = = 2))
> ner2<-round(addmargins(tapply(df.n$Hhweight, list(df.n$VillageType, df.n$P1Q3), sum))/
+ addmargins (tapply (df. d\theta) + list (df. d\theta
> rownames(ner2) <-c("Urban", "Rural with access to road",
+ "Rural without access to road", "Total")
```

Compared with Table 4.9 of the report, the above results differ slightly.

91.8

79.6

81.3

Male Female Total 90.6 91.2

76.3 78.0

70.9 70.5

78.8 80.1

> colnames (ner2) <-c ("Male", "Female", "Total")

> ner2

Urban

Total

Rural with access to road

Rural without access to road 70.1

Table 4.9: Net school enrolment (%) among children 6-15 years old by sex and by province and urban/rural areas. (2007-08)

Region/province		Age 6-10			Age 11-15	
	Girls	Boys	Total	Girls	Boys	Total
Lao PDR	78	80	79	90	95	93
Urban	94	93	94	98	99	98
Rural with access to road Rural without access to	76	80	78	90	95	92
road	69	67	68	77	91	84
North	74	78	76	85	95	90
Phongsaly	66	71	69	75	94	84
Luangnamtha	76	78	77	78	91	85
Oudomxay	58	67	63	80	90	85
Bokeo	76	75	75	85	93	89
Luangprabang	86	87	86	94	98	96
Huaphanh	72	79	75	88	99	93
Xayaboury	81	86	84	90	97	94
Center	84	85	85	94	96	95
Vientiane C.	97	97	97	100	99	99
Xiengkhuang	86	86	86	96	97	96
Vientiane P.	94	95	95	98	100	99
Borikhamxay	95	94	95	100	99	100
Khammuane	75	76	75	90	96	93
Savannakhet	73	76	74	87	92	90
South	76	75	76	90	94	92
Saravane	67	69	68	82	89	86
Sekong	76	69	72	89	95	92
Champasack	87	88	87	97	96	97
Attapeu	75	76	75	95	99	97

#### ☐ Literacy rate of population aged 15 and over

# Number of persons aged 15+ who can read and write without or with some difficulty by sex and village type

```
# Numerator
# P3Q1: Reading letter
# P3Q2: Writing letter
> EDU2<-merge (EDU, IND[c("PersID", "P1Q3", "P1Q5")])
> dim(EDU2)
[1] 41455
             59
> df. n<-subset (EDU2, (P3Q1==1 | P3Q1==2) & (P3Q2==1 | P3Q2==2) & P1Q5>=15)
> dim(df. n)
[1] 22803
             59
> num<-round (matrix (addmargins (tapply (df. n$Hhweight, list (df. n$VillageType, df. n$P103),
+ sum)), 4, 3))
> colnames (num) <-c ("Male", "Female", "Total")
> rownames (num) <-c ("Urban", "Rural with access to road",
+ "Rural without access to road", "Total")
> num
                                 Male Female Total
Urban
                               530340 529909 1060249
Rural with access to road
                               882918 702001 1584919
Rural without access to road 118338
                                       88415 206753
Total
                              1531597 1320324 2851921
# Denominator
> df. d<-subset (EDU2, P1Q5>=15)
> dim(df. d)
[1] 29783
> den<-round (matrix (addmargins (tapply (df. d$Hhweight, list (df. d$VillageType, df. d$P1Q3),
+ sum)), 4, 3))
> colnames (den) <-c ("Male", "Female", "Total")
> rownames (den) <-c ("Urban", "Rural with access to road",
+ "Rural without access to road", "Total")
> den
                                 Male Female Total
Urban
                               554041 600604 1154644
Rural with access to road
                              1016018 1070782 2086800
Rural without access to road 152016 168240 320256
                              1722075 1839625 3561700
Total
# Literacy rate
> literacy<-round(num/ den*100,1)
> rownames(literacy) <-c ("Urban", "Rural with access to road",
+ "Rural without access to road", "Total")
> colnames(literacy) <-c ("Male", "Female", "Total")
> literacy
                              Male Female Total
Urban
                              95. 7
                                    88. 2 91. 8
Rural with access to road
                              86.9
                                     65.6 75.9
Rural without access to road 77.8 52.6 64.6
Total
                              88. 9 71. 8 80. 1
```

> literacy[c(4, 1:3), c(2, 1, 3)]

| Female Male Total | Total | 71.8 | 88.9 | 80.1 | Urban | 88.2 | 95.7 | 91.8 | Rural | with access to road | 65.6 | 86.9 | 75.9 | Rural | without access to road | 52.6 | 77.8 | 64.6 |

The above results differ largely from those of Table 4.12 of the report.

Table 4.12: Literacy rate, population 15 +

Region	Read and some diffi	write withou culty	it or with	Canr	not read and	Can either write or read with some difficulty or with difficulty		
	Female Male Total			Female	Male	Total	Female	Male
Lao PDR	56	72	64	14	13	13	7	6
Urban area	81	88	84	9	7	8	4	4
Rural with road	52	69	60	15	15	15	8	7
Rural without road	35	55	45	16	16	16	8	8
North	46	65	55	15	15	15	8	7
Center	67	79	73	11	11	11	6	6
South	54 71 63				14	15	8	7

### 9.4 DUR: Household possession of durables

Structure of data file DUR:

```
HhID - DurCode - P8Q1a(Access but not own) - P8Q1b(Own) - P8Q2(Value)
```

```
> colnames (DUR)
```

[1]	"HhID"	"SerialNr"	"VillageID"	"DistrictID"
[5]	"Province"	"VillageType"	"Interview_Month"	"Hhweight"
[9]	"DurCode"	"P8Q1a"	"P8Q1b"	"P8Q2"
[13]	"P80th"	"New.Province"	"Region"	

The number of records in DUR is 83,753 and the number of households in DUR is 8,282.

```
> dim(DUR)
[1] 83753 15
> length(unique(DUR$HhID))
[1] 8282
```

The number of records with P8Q1a>0 (Access but not own) is 392 and the number of households with P8Q1a>0 is 361.

```
> length(subset(DUR, P8Q1a>0) [, "HhID"])
[1] 392
> length(unique(subset(DUR, P8Q1a>0) [, "HhID"]))
[1] 361
```

The number of records with P8Q1b>0 (Own) is 77,773 and the number of households with P8Q1b>0 is 8,281, that is all sample households.

```
> length(subset(DUR, P8Q1b>0) [, "HhID"])
[1] 77773
> length(unique(subset(DUR, P8Q1b>0) [, "HhID"]))
[1] 8281
```

Durable codes with description is from 01 to 31. As for code 32, description may be in P8Oth. But, out of 561 records with DurCode=32, 560 cases are 'NA' for P8Oth, and one case is '32' for P8Oth.

```
# The next is the number of records by durable codes.
> table (DUR$DurCode)
         2
                         5
                                     7
                                          8
                                                    10
                                                               12
                                                                     13
                                                                           14
                                                                                15
              3
                               6
                                                          11
7917
      269
            871
                 557 4288 3321
                                  105 2644 1218
                                                   392
                                                          40 2307 7164 7295 2024
                        20
                              21
                                   22
                                         23
                                               24
                                                    25
                                                          26
                                                               27
                                                                     28
                                                                           29
  16
       17
             18
                   19
                                                                                30
 337 6706 5216 997 4651
                            162 4357 4941 696 3372
                                                        324 1530
                                                                   130
                                                                        163 1773
  31
       32
7425
     561
# The next is the frequency table of P8Q1a.
> table (DUR$P8Q1a)
                                      5
                                                   7
                                                         10
                 2
                        3
                                            6
                                                               20
                                                                      30
    0
           1
                53
                       29
                               9
44118
         289
                                            4
                                                          1
                                                                1
                                                                       1
# The next is the frequency table of P8Q1b.
> table (DUR$P8Q1b)
                               5
                                      6
                                            7
                                                          9
                                                                             12
                                                                                    13
    1
           2
                  3
                        4
                                                   8
                                                               10
                                                                      11
52128 12061
              5686
                     3496
                           2004
                                  1108
                                          420
                                                 326
                                                        102
                                                              212
                                                                      37
                                                                             52
                                                                                    15
                                     19
                                           20
                                                  21
                                                         23
                                                               24
                                                                      25
                                                                                    27
   14
          15
                16
                       17
                              18
                                                                             26
   11
          22
                 7
                                                                       3
                                                                                    2
                        4
                               3
                                     1
                                           16
                                                   1
                                                         1
                                                                1
                                                                              3
   28
          30
                33
                       34
                              35
                                     36
                                           37
                                                  40
                                                         50
                                                               56
                                                                      60
                                                                             70
                                                                                    80
    2
                               2
                                     1
                                                         13
                                                                       2
          17
                        1
                                            1
                                                   4
                                                                1
                                                                              1
                                                                                    1
                 1
   88
         100
               200
                      220
    1
                 1
           1
                        1
```

### # Generated variables of car (vehicle), bike (motor bike) and mobile (mobile phone) in DUR;

```
> DUR["car"] <-ifelse (DUR$DurCode==4&DUR$P8Q1b>0, 1, 0)
> DUR["bike"] <-ifelse (DUR$DurCode==5&DUR$P8Q1b>0, 1, 0)
> DUR["mobile"] <-ifelse (DUR$DurCode==25&DUR$P8Q1b>0, 1, 0)
> sum (DUR["car"])
[1] 557
> sum (DUR["bike"])
[1] 4288
> sum (DUR["mobile"])
[1] 3372
```

- # The percentage of sample households owing car, motor bike and mobile phone;
- > sum(DUR\$car)/nrow(HHB)\*100
- [1] 6.714079
- > sum(DUR\$bike)/nrow(HHB)\*100
- [1] 51.68756
- > sum(DUR\$mobile)/nrow(HHB)\*100
- [1] 40.64609
- # The percentage of the estimated number of households owing car, motor bike and mobile phone;
- > sum(DUR\$car\*DUR\$Hhweight)/sum(HHB\$Hhweight)\*100

[1] 8.195908

> sum(DUR\$bike\*DUR\$Hhweight)/sum(HHB\$Hhweight)\*100

[1] 58.5823

> sum (DUR\$mobile\*DUR\$Hhweight)/sum (HHB\$Hhweight)\*100

[1] 48. 05354

Table: Percentage of household owing durable goods

Durable goods	Table 5.21 in	Percentage of	Percentage of estimated	
	The report	sample households	number of households	
Car	7	6.7	8.2	
Motor bile	51	51.7	58.6	
Mobile phone	42	40.6	48.1	

### **Conclusion:**

The results of the report are nearer to the simple average than the weighted average.

Table 5.21: Possession of durable goods, per cent of households by provinces and regions 2007/08.

	Car	Motor bike	Bike	TV	Radio/ video	Mobile phone	Refrig-erator	Vacuum clean-er	Washing machine	Electric rice cooker
Lao PDR	7	51	39	53	55	42	34	1	5	29
Urban	15	67	41	73	62	65	61	2	15	58
Rural	4	44	38	44	52	32	22	0	1	16
North	4	33	27	37	51	25	17	0	2	15
Phongsaly	0	17	2	14	38	10	5	-	1	6
Luangnamtha	3	29	25	31	41	27	8		1	10
Oudomxay	2	24	12	25	38	15	10		1	10
Bokeo	2	19	30	35	53	22	18	-	3	12
Luangprabang	4	29	25	37	55	28	22	0	3	20
Huaphanh	] 3	47	33	38	58	17	12	-	2	12
Xayaboury	9	50	46	57	60	39	30	-	3	25
Center	10	61	46	65	61	55	47	1	8	42
Vientiane C.	24	80	48	86	73	81	82	3	24	75
Xiengkhuang	6	46	31	40	48	30	10	0	1	17
Vientiane P.	7	51	34	57	51	48	43	0	4	44
Borikhamxay	7	54	53	57	51	50	42	1	7	37
Khammuane	₄	47	42	60	54	38	38	0	2	22
Savannakhet	3	60	54	62	64	50	34	0	2	24
South	₄	54	40	49	50	39	27	0	3	20
Saravane	3	41	29	36	46	26	17	0	1	12
Sekong	2	46	33	26	45	15	13	-	2	10
Champasack	5	67	45	63	56	53	36	-	3	27
Attapeu	2	28	49	21	33	16	13		1	13

### # The percentage of the estimated number of households owing car by province

```
> # Estimated number of households by province
> thh<-tapply (HHB$Hhweight, HHB$New, Province, sum)
> # Estimated number of households owing car by province
> DUR<-merge (DUR, HHB[c ("HhID", "New. Province")])
> DUR["car"]<-ifelse(DUR$DurCode==4&DUR$P8Q1b>0, 1, 0)
> hhc<-tapply (DUR$car*DUR$Hhweight, DUR$New. Province, sum)
> # Percentage
> hhoc<-matrix (round (hhc/thh*100, 1), 17, 1)
> rownames (hhoc) <-c ("01 Vientiane C.", "02 Phongsaly", "03 Luangnamtha", "04 Oudomxay",
+ "05 Bokeo", "06 Luangprabang", "07 Huaphanh", "08 Xayabury", "09 Xiengkhuang",
+ "10 Vientiane", "11 Borikhamxay", "12 Khammuane", "13 Savannakhet", "14 Saravane",
+ "15 Sekong", "16 Champasack", "17 Attapeu")
> hhoc
                 [.1]
01 Vientiane C. 25.2
02 Phongsaly
                  0.1
03 Luangnamtha
                  2.9
04 Oudomxay
                  3.2
                  2.6
05 Bokeo
06 Luangprabang 6.4
07 Huaphanh
                  2. 4
08 Xayabury
                 11.1
09 Xiengkhuang
                  6.7
10 Vientiane
                  8.6
11 Borikhamxay
                 10. 2
12 Khammuane
                  5.3
13 Savannakhet
                  6.0
14 Saravane
                  2.7
15 Sekong
                  1.6
16 Champasack
                  6.0
```

17 Attapeu

3.6

## **Attachments list**

- 1. Questionnaire forms
- 2. Data dictionary
- 3. Item codes of expenditure and income
- 4. Survey report (excerpt)

### Confidential

# Expenditure and Consumption Survey 2007/2008

## Household Questionnaire

Identification	
Province District Village Household No EA (Urban=1; Rural with road=2; Rural without road=3)	
Date 0f interview  Month of interview	
Respondent's name  Interviewer's name  Field supervisor;s name  Office supervisor's name	-

### **NATIONAL STATISTICAL CENTRE**

## I. Household composition (First week)

	1	2		3	4			5	6	7
	Who usually lives in	What is (name)'s relationship		Is (name)	When	n was (	(name)	How old	What is the (name)'s	What is (name's)
	the household?	to head of household?		male or	born	?		was	marital status?	ethnic origin?
		Head of household	1	female?				(name) at		
I	Record all names	Spouse	2					his/her last	Never marrie 1	See code list
D		Parent/parent in law	3		Probe	Probe for birth b		birthday?	Married 2	
		Son/daughter	4		certifi	cate		Completed	Divorced 3	
C		3	5		or ID-	card		age	Separated 3	
О			6					(If <1 year	Widowed 4	
D		Brother/sister in law	7					record 00)		
Е				Male = 1					For all persons younger	
		Non relative	9	Female=2					than 10 years, record 1	
					DAY	MONTH	YEAR	YEAR	directly	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										

## II. Parents (First week)

	1	2	3	4	5		6	7	8	9	10	
	Is the natural	Сору	Is the	Did the	What was the high	est	Is the natural	Сору	Is the	Did the mother	What was the high	est
I	father of (name)	ID code	father of	father of	level and class he		mother of (name)	ID code	mother	of (name)	level and class she	
D	living in this	for the	(name)	(name)	completed?		living in this	for the	of (name)	attend school?	completed?	
	household?	father	still alive?	attend			household?	mother	still alive?			
C				school?	LEVEL	CLASS					LEVEL	CLASS
О												
D					Primary =1	1 - 5					Primary =1	1 - 5
Е		Then			Lower secondary =2	1 - 3		Then			Lower secondary =2	1 - 3
		go to 6		Yes = 1	Upper secondary =3	1 - 3		go to			Upper secondary =3	1 - 3
				No = 2	Vocational train. =4	1 - 3		next			Vocational train. =4	1 - 3
				>>6	University/			person	Yes = 1	Yes = 1	University/	
	Yes = 1		Yes = 1	DK = 3	<i>institute</i> =5	1 - 5	Yes = 1		No = 2	$No = 2 > Next \ person$	<i>institute</i> =5	1 - 5
	No = 2 >> 3			>>6	Don't know=6		No = 2 >> 8		>>Next	$DK = 3 > Next \ person$	Don't know=DK	
		ID CODE	>>6		LEVEL	CLASS		ID CODE	person		LEVEL	CLASS
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												

### III. Education, cont.(First week)

### List the ID codes of all household members that are enrolled in school now or were enrolled last school year

If no household members enrolled in school now or last school year go to IV.

Ask Question 14-26 for all household members enrolled in school now or last school-year.

	14		<b>,</b>					or usi schooi-	15	16	17
	How much h	as your ho	usehold spe	ent on NAI	ME's educatio	n in this/th	e last		Did any people who	How much	How far away
I	school year f	for:							are not members of	money did this	from NAME'S home
D	Inclu	de moneta	ry value of	in-kind pa	yments				the household, such	person (these	is the school NAME
		-				_	-		as relatives or	persons) pay for	has attended
C					ol-year. Is that ri				friends, pay any of	NAME'S educational	most recently?
О		B. Parent		D. Text-		F. Meals,		H. TOTAL	NAME'S educational	expenses during	
D	and other		forms and	books?	education	transpor-	-		expenses during the	the last school year?	If less than
E	required	tion fees?			materials	tation and	`		last school year?		one
	fees?		clothing?		(exercise		classes, optional				kilometer
					books,	ging?	Yes = 1		put zero		
				•	pens, etc.)		No = 2				
				AMOU	JNTS IN KIP				<i>If No &gt;&gt;17</i>	AMOUNT IN KIP	KILOMETERS
$\vdash$											
$\vdash$											
<u> </u>	<u> </u>	<u> </u>									

## III. Education, cont.

	1	8	19	20	21	22	23	24	25	26
	Н	low long does	How does NAME go	t Does NAME have	Does NAME share	How	Is NAME	How many days has	How many	If NAME was
	it	take NAME	school?	complete set of	these textbooks	many	currently	NAME'S school been	days has	absent any days,
I	to	o go to	Walk 1	textbooks for	with other	hours of	attending	open in the past 7	NAME	what was the
D	SC	chool?	Bicycle 2	his/her use?	students or are	homework	school?	days?	attended	reason?
			Motorcycle 3		they for his/her	does NAME			school in	
C			Car 4		exclusive use?	do in a			the past 7	Agricultural work=1
О			Tuc-tuc 5			typical		If 0 days	days?	Work at house/home =2
D			Bus 6			week?	Yes = 1	>> next		Other work =3
Е			Boat 7	Yes, complete=1	Shared = 1		No = 2	person	If no absence	Illness = 4
			Animal 8	No, only some=2	Exclusive		<i>If NO &gt;&gt;</i>		>>next person	Family illness/death=5
			Other, specify 9	No, none = 3	use = 2		next			Other (specify) 6
	Н	OURS MINUTE	S			HOURS	person	DAYS	DAYS	
	+									
-	+			+		<u> </u>				
-	-									
_	_									
H										
$\vdash$	+									
$\vdash$	+			+		1				
$\vdash$	-									

### III. Education (First week)

	1		2	3	4	5	6	7		8	9		10	11		12
	Ca	ın you	Can you	Have you	Which is the main	Did you	Are you	What level and		What type	If 12 years and above - >	> 10	In what year	What is the highes	st	If 12 - 24 years and
	rea	ad a	write a	ever been	reason why	attend	enrolled	class are you		of school	If 6 - 11 years:		did you begin	level and class you	u	only Primary school
	let	ter?	letter?	to school?	have you never	preschool	in school	enrolled in now or		are you	Why are you not		Class 1 of	have completed in		Why were you not
I					attended school?	(at least	now?	were you enrolled		attending/	enrolled in school now?		Primary	school?		enrolled in school
D					$Too\ young = 1$	one year)		in the last school-		did you	Completed studies=	1	School?			after Primary school?
	Yes	s, without	Yes, without		$Too\ expensive = 2$	before				attend	Too old =	2		LEVEL	CLASS	
C	diff	ficulty=1	difficulty=1			beginning				last school-	Too expensive =	3		Preprimary =0	0	
О						primary		LEVEL	CLASS	year?	No interest =	4		Primary =1		Too expensive = 1
D			Yes, but with		$School\ too\ far = 5$	school?		Preprimary =0	0		Work =	5		Lower secondary=2		No interest $=$ 2
E	diff	ficulty=2	difficulty=2		No teachers/		Yes = 1	Primary =1	1 - 5	Public = I	School too far =	6		Upper secondary=3	1 - 3	<i>Work</i> = 3
					1 1		Yes, but on	Lower secondary=2	1 - 3	Private= 2	No teachers/			Vocational train.=4	1 - 3	$School\ too\ far = 4$
	No	=3	No = 3	No = 2		No = 2	vacation = 2	Upper secondary=3		Other = 3	supplies =	7		University/		No teachers/
					Language = 8		$No = 3 \gg 9$	Vocational train.=4	1 - 3		Illness =	8		institute =5	1 - 5	supplies = 5
					Other, specify 9			University/		Go to 10	Language =	9				Illness = 6
								institute =5	1 - 5		Other, specify	10				Language = 7
					Go to next person			LEVEL	CLASS				YEAR	LEVEL	CLASS	Other, specify8
		1		1												
-	-															
-																
H						1										
-						1										
F																

# IV. Labour Force (First week)

					All persons 10 years and older						
		1	2	3	4	5	6	7			
Name	ID	During the past 7	During the	During the past 7	CHECK THE	Do you	Have you	What is the main reason			
	Code	days have you	past 7 days,	days, have you	ANSWERS	have a	looked for	you did not look for wor			
(Transfer names of		worked on your	have you	performed any	TO Q 1, Q2	permanent	work in	in the last 7 days?			
all persons in the		own account or in	performed	activity for	AND Q3	job even	the last 7	1			
household 10 years		a business	any activity	someone who is		though you	days?	Student = 1			
and above)		belonging to you	on a farm	not living in this		did not work		Housewife/childcare = 2			
,		or someone in	operated by	household, for		in the last 7		Too old/retired = 3			
		your household?	you or a	example an		days?		Handicapped = 4			
		ľ	member of	enterprise, the		'		Sick/family illness = 5			
			your	public sector or				Waiting for reply/recall			
			household?	any other		Yes = 1		by employer = 6			
				individual?	Any Yes = 1	>>IV.2		Waiting for busy season = 7			
		Yes = 1	Yes = 1	Yes = 1	>>IV.2	No = 2	Yes = 1	Other, specify			
							>>IV.2	= 8			
		No = 2	No = 2	No = 2	No = 2		No = 2				
		Ī		<u> </u>		1					
			1	•	•	1		•			

### IV2. Overview of work in the last 7 days

### Persons 10 years and older

I would like to ask some questions about the activities you performed in the last 7 days, whether on a farm, in a household business, or for someone else Exclude own housework (cleaning, washing, childcare etc)

Name	ID	1		2	3
	CODE	What did you do?  USE ONE ACTIVITY PER LINE. REPEAT THE ID FOR ALL THE DIFFERENT ACTIVITIES DONE B' THE SAME PERSON		For how many days in the last 7 days did you do this activity?	For how many hours in total in the last 7 days did you do this activity?
		WRITTEN DESCRIPTION	INDUSTRY CODE	DAYS PER WEEK	HOURS IN THE WEEK

### IV3. Main activities in the past twelve months

All persons 10 years and older Name CODE Which of the following activities were you engaged in during the last 12 months? Have you How many Think only of the *main activity* you were engaged in each month days did been a B. Working in C. Not working D. Not working E. Working F. Not working G. Not working Buddhist A. Working, you spend but *not in farming* , incl but looking for because of mainly with because because munk/nun in in temple as farming fishing and studies retired or disabled or the last 12 munk/nun in work. household (as paid forestry. duties too old long-term ill months? the last 12 employee, (homemaker/ months? employer, childcare) self-employed or unpaid family worker) Yes = 1No = 0No = 2Yes = No. of Yes = No.Yes = No. of Yes = No. of Yes = No. ofYes = No. of Yes = No. of DAYS months months months months of months months months

## V. Victimization (First week)

1	2			3	4	5
Has any member of	Was it			Was the/any of the	Which authority did	Did the/any event go
this household suffered from theft,				to some	you report the event(s) to?	to court procedure?
burglary or robbery		Yes	No	authority?		
in the last 12 months?	Burglary?	1	2			
	Robbery?	1	2	Yes = 1	Village leader = 1	Yes = 1
Yes = 1	Theft?	1	2	No = $2$ , <b>go to 6</b>	Police = 2	No = 2
No = 2, <b>go to 6</b>					Other = 3	

7	8	9	10	11	12
What type(s) of violence did	Was/were the	Was any	Which authority did	Did any event	Was this act of
the person(s) suffer from?	victim(s) men or	event(s)	you report the event(s)	go to court	violence committed by
	women?	reported to	to? If several events	procedure?	some stranger or by
Physical violence = 1		some	record only the last		someone known to
Threats = 2		authority?	event.		you?
Other = 3	Men =1			Yes = 1	
	Women =2		Village leader = 1	No = 2	Stranger = 1
	Both =3	Yes = 1	Police = 2		Known person = 2
		No = 2 >> 12	Other = 3		
t	the person(s) suffer from?  Physical violence = 1  Threats = 2  Other = 3	he person(s) suffer from? victim(s) men or women?  Physical violence = 1  Threats = 2	victim(s) men or women?  Physical violence = 1  Threats = 2  Other = 3  Victim(s) men or women?  reported to some authority?  Men =1 Women =2 Both =3  Yes = 1	What type(s) of violence did the person(s) suffer from?  Physical violence = 1  Threats = 2  Other = 3  Was/were the victim(s) men or women?  Was any event(s) reported to some authority?  Was any which authority did you report the event(s) to? If several events record only the last event.  Was any which authority did you report the event(s) to? If several events record only the last event.  Village leader = 1  Police = 2	What type(s) of violence did the person(s) suffer from?  Physical violence = 1  Threats = 2  Other = 3  Was/were the victim(s) men or women?  Was any event(s) you report the event(s) to? If several events record only the last event.  Yes = 1  Village leader = 1  No = 2  Both = 3  Yes = 1

## VI. Nutrition (Second week)

## Ask about all persons

No.	Question	Alternative answer	Person's ID code and name														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		Transfer names of persons															
1	How much glutinuous rice did you eat yesterday?	For breakfast															
	Show the balls and enter	For lunch															
	number of balls. If a person didn't eat rice, enter ''0''	For dinner															
	for that meal. Enter ''99'' if data is not available for a person	TOTAL															
2	How much ordinary rice did you eat yesterday?	For breakfast															
	Show the balls and enter	For lunch															
	number of balls. If a person didn't eat rice, enter ''0'' for that meal Enter ''99'' if data is not	For dinner			•••••	•••••	•••••		•••••	•••••	•••••		•••••		•••••		
	available for a person.	TOTAL															
3	How much meat and fish does the household usually consume per week?	KG per week				MEA'	Т	1		FISH	[		from	ition o livesto snake,	ock, po	oultry,	
4	How much vegetables and fruits does the household usually consume per week?	KG per week			VEC	ЕТА	BLES	 S ]	F	RUIT	S	]		<u>iition</u> : oximai	_		ıs

VIII. Household possession of durables (Second week) Ask for each durable.

	1	•	<u> </u>	2	1	(CONT.)	2 (CONT.)		
	Which of the followin	g goods does	this	If you wanted to sell	Whi	ch of the following goo	ds does this		If you wanted to sell
	household have access	s to or own?		this/these (ITEM/S)	hou	sehold have acces to or	own?		this/these (ITEM/S)
				that you own today					that you own today
				how much would					how much would
				you receive?					you receive?
ID	Item	Access to, but	Own	Amount in	ID	Item	Access to, but	Own	Amount in
		do not own		KIP			do not own		KIP
		How many?	How many?				How many?	How many?	
1	Plots of land				17	Agr. equipment			
2	Buildings business				18	Tools small and large			
3	Buildings agriculture				19	Boat			
		Transport	equipment		20	Fishing net			
4	Vehicle (Car, Van)				21	Cart			
5	Motor cycle						TV, radi	o, phones	
$\epsilon$	Bicycle				22	Television			
7	Tuk-tuk				23	Radio/ VCD, etc			
		House e	quipment		24	Telephone			
8	Refrigerator/freezer				25	Mobile phone			
ç	Sewing machine				26	Camera			
10	Washing machine						Other	goods	
11	Vacuum cleaner				27	Satellite disc/connection			
12	Electric rice cooker				18	Computer			
13	Steam rice cooker				29	Air conditioner			
14	Food processor				30	Jewelry			
		Agricultur	e/businesses		31	Mosquito net			
15	Two-wheeled tractor					Other goods (Specify)			
16	Four-wheeled tractor								

## IX. Housing conditions (Second week)

status of this household?  wanted to rent a external walls? roof?  house like this one Concrete = 2 Wood = 2 Floor tile/cement = 2  Nowner/purchaser = 1 I Tenant = 2  In tied accomm. = 3 Other, specify = 4  Other, specify = 4  AMOUNT FIRST SECOND Integration of the construction material material of the roof?  material of the floor? this dwelling?  material of the floor?  this dwelling?  material of the floor?  this dwelling?  material of the floor?  this dwelling?  material of the floor?  this dwelling?  area of the house/dwelling unit occupied by your house/dwelling unit?  Nouse/dwelling unit?  Nouse/d	1	2	3	•	4	5			6		7		7b	
household?    rent a   house like   Brick   a   Concrete   Concrete   Concrete   Marble/ceramic   I   household?   household?	What is the tenure	If someone	What is the	major	What is the major	What	is the prima	ıry	How old is	S	What is the f	loor	How man	ny rooms
house like house like house like house like his one Concrete = 1 Concrete = 1 Concrete = 1 Marble/ceramic = 1 In this one Concrete = 2 Wood = 2 Floor tile/cement = 2 Concrete = 1 Move much Unbaked brick = 3 Metal sheets/zinks Concrete/brick = 3 Wood = 4 3 years do in tied accomm. = 3 she'he have In tied accomm. = 4 She'he have In tied accomm. = 5 Title = 4 Bamboo = 5 Noter equire Moude, specify = 7 SQUARE AMOUNT FIRST SECOND Other, specify = 7 Other, specify = 7 SQUARE AMOUNT FIRST SECOND Other, specify = 7 SQUARE AMOUNT SITUATION OTHER SECOND OTHER, specify = 7 SQUARE AMOUNT SITUATION OTHER SECOND OTHER, specify = 7 SQUARE AMOUNT SITUATION OTHER SECOND OTHER, specify = 7 SQUARE AMOUNT SITUATION OTHER SECOND OTHER, specify = 7 SQUARE AMOUNT SITUATION OTHER SECOND OTHER, specify = 7 SQUARE AMOUNT SITUATION OTHER SECOND OTH	status of this	wanted to	construction	n materia	l material of the	mater	rial of the flo	or?	this dwelli	ing?	area of the		are used b	by the
Owner/purchaser = 1 how much	household?	rent a	external wa	lls?	roof?						house/dwelli	ng unit	household	d in this
Owner/purchaser = 1   how much would   Wood		house like	Brick	=1	Concrete =1	Marble	e/ceramic = 1	!			occupied by	your	house/dw	elling unit?
Tenant = 2 would she/he have In tied accomm. = 3 other, specify = 4 to pay in rent for one year? Other, specify = 8 other, specify = 8 other, specify = 8 other, specify = 7 other, specify = 8 other in the rainy season? Well/borehole protected = 2 to Hull be also on the drinking water in the rainy water in the dry water in the rainy water in the dry		this one	Concrete	=2	Wood = 2	Floor	tile/cement = 2	?			household?			_
In tied accomm. = 3 other, specify = 4 other, specify = 7 other, specify = 8 other, specify = 8 other, specify = 7 other, specify = 8 other, specify = 7 other, specify = 8 other, specify = 7 other, specify = 7 other, specify = 8 other, specify = 7 other, specify = 8 other, specify = 6 other, specify = 8 other, specify = 8 other, specify = 6 other, specify = 8 other, specify = 6 other, specify = 6 other, speci	Owner/purchaser = 1	how much	Unbaked bric	k =3	Metal sheets/zinks	Concre	ete/brick = 3		If more tha	ın	Do not count		Do not con	unt
Other, specify = 4   to pay in rent for one year? Other, specify = 8   Other, specify = 7   Other, specify = 8   Other, specify = 7   Other, specify = 8   O	Tenant $= 2$	would	Wood	= 4	= 3	Wood	=	4	3 years do		kitchen and		kitchen	
rent for one year? Other, specify = 8  AMOUNT FIRST SECOND  8  9  10  What is the main source of drinking water in the rainy season?  Water  Piped water in/outside = 1  Well/borehole protected = 2  Well/borehole unprotected = 3  Season?  Well/borehole unprotected = 3  Season?  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 7  SQUARE  NUMBER  NUMBER  11  12  13  14  15  What is the Mousehold's main source of distance to distance to distance to drinking water in the dry water  water  Water  Well/borehole protected = 2  Well/borehole unprotected = 3  Season?  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 7  Other, specify = 7  SQUARE  NUMBER  NUMBER  1  13  14  15  What is the distance to di	In tied accomm. $= 3$	she/he have	Bamboo	= 5	Tile = 4	Bambo	00 = 3	5	not require	!	balconys			
rent for one year?  Other, specify = 8  Other, specify = 7  Other, specify = 8  Other, specify = 7  Other, specify = 8  Other, specify = 7  Other, specify = 8	Other, specify = 4	to pay in	Tin	= 6	Grass = 5	Earth/	clay = 6		months					
AMOUNT FIRST SECOND    YEARS MONTHS   METER   NUMBER		rent for one	Mud	= 7	Leaves = 6	Other,	specify = 7							
What is the main source of drinking water in the rainy season?  What is the drinking water in the rainy water  Piped water in/outside = 1  Well/borehole protected = 2  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 6  What is the main source of drinking water in the dry what is the main source of drinking water in the dry what is the drinking used?  What is the what kind of distance to latrine is mainly what is the household's main source of energy mainly use?  Inside the house = 1  Season?  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 4  Other, specify = 4  Other, specify = 4  Other, specify = 8  Other, specify = 8  Other, specify = 8		year?	Other, specify	= 8	Other, specify = 7						SQUA	RE		
What is the main source of drinking water in the rainy season?  What is the drinking water in the rainy season?  What is the main source of drinking water in the dry season?  What is the main source of drinking water in the dry season?  What is the drinking water in the dry water  What is the distance to the drinking water in the dry water  Source in Piped water in/outside = 1  Well/borehole protected = 2  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 6  What is the distance to distance to the drinking water in the dry water  Source in the dry Normal toilet = 1  Normal toilet = 2  Other, specify = 4  Other, specify = 4  Other, specify = 6  What is the distance to distance to latrine is mainly water  Nource in the dry water  Source in the dry Normal toilet = 1  Outside roofed = 2  Other, specify = 4  Other specify = 4  Other, specify = 4  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 8		AMOUNT	FIRST	SECONE	5				YEARS	MONTHS	METI	ER	NUMBER	
What is the main source of drinking water in the rainy season?  What is the drinking water in the rainy season?  What is the main source of drinking water in the dry season?  What is the main source of drinking water in the dry season?  What is the drinking water in the dry water  What is the distance to the drinking water in the dry water  Source in Piped water in/outside = 1  Well/borehole protected = 2  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 6  What is the distance to distance to the drinking water in the dry water  Source in the dry Normal toilet = 1  Normal toilet = 2  Other, specify = 4  Other, specify = 4  Other, specify = 6  What is the distance to distance to latrine is mainly water  Nource in the dry water  Source in the dry Normal toilet = 1  Outside roofed = 2  Other, specify = 4  Other specify = 4  Other, specify = 4  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 8					Ì									
What is the main source of drinking water in the rainy season?  What is the drinking water in the rainy season?  What is the main source of drinking water in the dry season?  What is the main source of drinking water in the dry season?  What is the drinking water in the dry water  What is the distance to the drinking water in the dry water  Source in Piped water in/outside = 1  Well/borehole protected = 2  Well/borehole unprotected = 3  River, dam, lake etc. = 4  Rain water from tank/jar = 5  Other, specify = 6  What is the distance to distance to the drinking water in the dry water  Source in the dry Normal toilet = 1  Normal toilet = 2  Other, specify = 4  Other, specify = 4  Other, specify = 6  What is the distance to distance to latrine is mainly water  Nource in the dry water  Source in the dry Normal toilet = 1  Outside roofed = 2  Other, specify = 4  Other specify = 4  Other, specify = 4  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 6  Other, specify = 8														
distance to the drinking water in the rainy season?  distance to the drinking water in the dry season?  Piped water in/outside = 1 source in the rainy Well/borehole protected = 2 the rainy Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6  Other, specify = 6  distance to the drinking water in the dry season?  distance to the drinking water in the dry season?  distance to the drinking water in the dry water water  water  source in the drinking water in/outside = 1  Modern toilet = 1  Inside the house = 1  Dusside roofed = 2  Outside roofed = 2  Outside unroofed = 3  Other, specify = 4  Other, specify = 4  Other, specify = 4  Other, specify = 4  Other, specify = 6  Other, specify = 6  Other, specify = 8  Other, specify = 8	8		9						1: 1 0					
the drinking water source in Well/borehole protected = 2 Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6 Water in/outside = 0 meter water source in the drinking water source in mainly use? for cooking? for lighting? Inside the house = 1 Electricity = 1 Electricity from pub the dry Normal toilet = 2 Outside roofed = 2 Paraffin = 2 network=1 Other, specify = 4 Other, specify = 4 None = 5 Other, specify = 4 None = 5 Other, specify = 6 Other, specify = 6 Other, specify = 6 Other, specify = 6 Other, specify = 8 Other, speci														
water source in Piped water in/outside = 1 source in the rainy water in/outside = 1 the rainy water in/outside = 1 season? Well/borehole unprotected = 2 season? Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6 Other, specify = 8 Other, specify = 8 Source in the dry season? Other, specify = 4 Other specify = 4 Other specify = 4 Other specify = 4 Other specify = 4 Other, specify = 6 Other, specify = 6 Other, specify = 8 Other, specify = 6 Other, specify = 8 Oth	•	ne rainy			•	y			•					
Piped water in/outside = 1 Source in the rainy Well/borehole protected = 2 Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6 Other, specify = 6 Other, specify = 6 Source in the rainy well/borehole unprotected = 1 Source in the dry Normal toilet = 1 Outside the house = 1 Electricity = 1 Paraffin = 2 network=1 Outside roofed = 2 Outside unroofed = 3 Other, specify = 4 Other, specify = 6 Other, specify = 6 Other, specify = 6 Other, specify = 6 Other, specify = 8 Outside unroofed = 1 Electricity = 1 Electricity from publication in the dry Normal toilet = 1 Outside roofed = 2 Outside unroofed = 3 Other, specify = 4 Other specify = 4 Other specify = 4 Other specify = 4 Other specify = 4 Other, specify = 6 Other, specify = 6 Other, specify = 6 Other, specify = 6 Other, specify = 8 Other, specify = 9 Other, sp	season?			g seaso	on?		`	used'	?				0,	
Well/borehole protected = 2 Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6  Well/borehole protected = 2 River, dam, lake etc. = 4 Rother, specify = 6  Well/borehole protected = 2 River, dam, lake etc. = 4 Rother, specify = 6  Well/borehole protected = 2 Well/borehole protected = 2 River, dam, lake etc. = 4 Rother, specify = 6  Well/borehole protected = 2 Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rother, specify = 4  Other, specify = 6  Other, specify = 6  Other, specify = 8													U	
Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6  Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6  Well/borehole unprotected = 3 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 4 Other, specify = 4 Other specify = 4 Coal = 4 Candle = 5 Kerosene lamp=4 Sawdust = 6 Candle = 5 Gas = 7 Other, specify = 8	•			1 ^									•	
River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6 River, dam, lake etc. = 4 Rain water from tank/jar = 5 Other, specify = 6 Other, specify = 4 Other, specify = 4 None = 5 Candle = 5 Sawdust = 6 Candle = 5 Gas = 7 Other, specify = 8 Other, specify = 4 Other, specify = 4 Other specify = 4 Coal = 4 Charcoal = 5 Sawdust = 6 Candle = 5 Other, specify = 6	=				=									
Rain water from $tank/jar = 5$ Other, $specify = 6$ $tag{None} = 5$ $tag{None} = 6$ $tag{None$	•		season?		•	: 3	season?				· ·			-
Other, specify = 6 $\begin{array}{cccccccccccccccccccccccccccccccccccc$											$Other\ specify = 4$			
yard near   Gas = 7   Other, specify = 6     house = 0 meter   Other, specify = 8		ar = 5	1 "			5		None:	= 5					•
house = 0 meter  Other, specify = 8	Other, $specify = 6$			Other	s, $specify = 6$									
			J									Gas = 7		Other, specify =
METERS METERS			house = 0 me	ter								Other, sp	pecify = 8	
			METERS				METERS							<u> </u>

## X. Construction activities in the past 12 months (Second week)

1 Has anybody in the household built an own new house or made an extension of existing houses concerning:

Residential building? Yes = 1 No = 2

All answers "No" Go to Section XI (Third week)

Agricultural building? Yes = 1 No = 2

Business building? Yes = 1 No = 2

All answers "No" Go to Section XI (Third week)

	vers ''No'' Go to S		d week	:)						
Constru	iction of new hou	ıse/building								
1b	1c	2	3		4		5	6	7	8
House/	What is the	What kind of	In wh	at year	In what year	r and month	Who built the house/building?	How much did	How much did	If not possible
building	building	construction	and m	onth did	was the hou	se/building		you pay those	you spend for	to separate
number	used for?	was it?	the co	nstruction	ready for us	e?	Household members only=1	who helped, hired	materials?	labour and
			start?				Household members and	or contracted?		<i>materials</i> , how
	1= $Residential$	New house =1					$other\ relatives = 2$	(For house still	(For house still	much was the
	2=Agricultural	Extension = 2			(If house no	ot yet	Household members and	under	under	total costs?
	3=Business				completed e	enter 00	$hired\ help = 3$	construction	construction	
					for year and	d 00 for	$Contracted\ builder = 4$	include the	include the	
		(If only 2 go			month)		Other = 5	costs up till	costs up till	
		to Q11)						now)	now)	
			YEAR	MONTH	YEAR	MONTH		AMOUNT	AMOUNT	AMOUNT
1										
2										
3										
4										
5										

			Extension works of existing house/building							
1b	9	10	11	12	13					
House/	If anyone in the household has	For house/building not	How much did the building	How much did	How much was the					
building	put in own labour try to	completed: What will	materials cost you for the	hired helpers cost	costs of materials and					
number	estimate the value of it as if	the estimated cost be of	extension work?	you?	and labour together?					
	you had engaged someone to	the house completed?								
	do it?			(If not possible to						
			separate go to Q 13)	separate go to Q 13)						
	AMOUNT IN KIP	AMOUNT IN KIP	AMOUNT IN KIP	AMOUNT IN KIP	AMOUNT IN KIP					
1										
2										
2										
3										
4										
5										

## XI. Household businesses (Third week)

## Ask person in charge of business

XI.1. Establishing the existence	e of non-fari	n enterprises		•		
1	2			3		
Over the past 12 months, has anyone in your household operated any non-agricultural	What kind operate?	of business does your household		Who is most informed about and/or in of day-to-day operations of the business	_	
business which produces goods and services (for example trade, construction, metal working, woodworking, repair work, etc.; also including processing and selling your outputs if done regurlarly?  Yes = 1	enterprise	etermine industrial sector in which operate	Collect the information on this page for all businesses before proceeding to part XI.2. Then complete the other parts for the first business, then the second business, etc, until all businesses are surveyed.			
No = 2 >>NEXT MODULE	Business ID	Full written description	Code ISIC	Name	ID code	
	1					
	2					
	3					
	4					
	5					
	6					

## **XI.2. Business operations**

	1	2		3	4	5	6	7
	For how long	Where do you operate the business?		How many	Are wages and	How many	During the past	In an average
В	has the business			people does this	salaries paid to	members of	12 months, for	sales month,
u	been in	Home, inside/outside the residence	1	business now	members of	the	how many	what is your
S	operation?	Industrial site	2				months was the	level of sales
I		Traditional market	3	not members of	~	usually work	business in	per month?
n		Shop	4	this household?	business?		operation?	
e		Roadside	5			business?		
S		Other fixed place	6					
S		Mobile	7					
C								
0								
d					Yes = 1			
e					No = 2			
	YEARS MONTHS			NUMBER		NUMBER	MONTHS	KIP
1								
2								
3								
4								
5								
6								

## XII. Agriculture (Third week)

#### XII: 1. Operated land

1. Does any member of your household in the last completed agriculture season owned or leased any agricultural

1 = Yes

2 = No

If No >>Part XII: 5

	2	3	4	5	6	7	8
Р	Please tell me about each	What is the area of	What kind of land is	If plot was fallow last	What type of plot is	Was this plot	Is this plot owned
L	plot of land that members	the plot?	this?	season, what was the	this?	irrigated during the	or leased?
0	of your household owned		1 = Arable land for	reason?		last dry season?	
T	or leased in the last		temporary crops				
	completed season?	Unit code:	2 = Fallow land	1 = Crop rotation			
С		1 = Square meter	3 =Land for permanent	2 = Lack of inputs	1= Wet season plot	1 = Yes	1 = Owned or free
0	All plots you own or lease.	2 = Hectares	crops	3 = Economic	2=Dry season plot	2 = No	disposal
D		<u> </u>	4 = Grazing land	profitability	3= Both wet and dry		2 = Leased
Е	NAME OF PLOT OR		5 = Forest land	4 =Mines or other risks	season plot		
	NUMBER	AMOUNT UNIT COD	E				
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

XII: 2. Crops planted and harvested last completed wet and dry seasons

Circle

		Grow for	Grow for	Do not			Grow for	Grow for	Do not
Crop	Crop	sale	own use	grow	Crop	Crop	sale	own use	grow
Code	name				Code	name			
						•			
1	Glutinous rice	1	2	3	31	Loofah	1	2	3
2	Ordinary rice	1	2	3		Pumpkin	1	2	3
	Corn/maize	1	2	3		Other fruit-bearing vegetables	1	2	3
	Other cereals	1	2	3	34	Garlic	1	2	3
5	Sweet potatoes	1	2	3		Onion	1	2	3
6	Cassava	1	2	3		Beans	1	2	3
7	Yam	1	2	3		Other vegetables	1	2	3
8	Potatoes	1	2	3	38	Sugar cane	1	2	3
9	Other roots and tubers	1	2	3	39	Groundnut	1	2	3
10	Mungbean	1	2	3	40	Soybean	1	2	3
11	Cowpea	1	2	3	41	Sesame	1	2	3
12	Other legumes	1	2	3	42	Other oilseed crops	1	2	3
13	Cabbage	1	2	3	43	Cotton	1	2	3
14	Chinese cabbage	1	2	3	44	Tobacco	1	2	3
15	Water convolvulus	1	2	3	45	Other industrialized crops	1	2	3
16	Mustard	1	2	3	46	Coffee	1	2	3
17	Lettuce	1	2	3	47	Tea	1	2	3
18	Mint	1	2	3	48	Cocunut	1	2	3
19	Paksi	1	2	3	49	Ginger	1	2	3
20	Coriander	1	2	3	50	Cardamon	1	2	3
21	Peo	1	2	3	51	Rubber	1	2	3
22	Basil	1	2	3	52	Citronella	1	2	3
23	Parthomepey	1	2	3	53	Mulberry	1	2	3
	Chun chai	1	2	3	54	Areca	1	2	3
25	Other leafy vegetables	1	2	3	55	Other industrial crops	1	2	3
26	Water melon	1	2	3	56	Orange .	1	2	3
27	Chilli	1	2	3	57	Lemon	1	2	3
28	Cucumber	1	2	3		Other citrus fruit	1	2	3
	Eggplant	1	2	3					
	Wax gourd	1	2	3				•	

XII: 2. Crops planted and harvested last completed wet and dry seasons (cont.)

Crop Code	Crop name	Grow for sale	Grow for own use	Do not grow
59	Cherry	1	2	3
60	Peach	1	2	3
61	Gooseberry	1	2 2	3 3 3
62	Avocado	1	2	3
63	Banana	1	2 2	3
64	Custard apple	1	2	3
65	Guava	1	2 2	3 3 3 3 3 3
66	Mango	1	2	3
67	Pineapple	1	2 2	3
68	Tamarind	1	2	3
69	Lychee	1	2 2	3
70	Longan	1		3
71	Jujube	1	2 2	3 3
72	Durian	1	2	3
73	Jackfruit	1	2 2 2 2	3
74	Sour berry	1	2	3 3 3
75	Gorambola	1	2	3
76	Santol	1	2	3
	Other permanent crops,			
77	specify:	1	2	3
78	,	1	2	
79		1		3 3 3
80		1	2 2	3

)	1						
-	Now some questions about what wa	as planted and	harvested in yo	ur plot(s) in las	t completed s	season.	
Γ	Record:		Circle if last of	completed		Dry = 1	
			season is dry	or wet:		Wet = 2	
	Name and code of crop per plot						
;	Record all crops circled with 1 or 2	in XII: 2	Area	Area	Production	Yield (kilogram	
)			planted	harvested	in kg	per hectar	
)		CROP	1	2	3	3/2	
<u> </u>	CROP NAME	CODE	HECTARE	HECTARE	KG	KG/HA	
	Last season:						
	Glutinous rice	1					
	Ordinary rice	2					
					1	1	

Now some questions about what was planted	and ha	rvested in yo	ur plot(s) in n	ext to last se	eason.		
Record:		Circle if las	-		Dry = 1		
		season is dry or wet: $Wet = 2$					
Name and code of crop per plot				_	_		
Record all crops circled with 1 or 2 in XII: 2		Area	Area	Production	Yield (kilograr		
		planted	harvested	in kg	per hectar		
	CROP	1	2	3	3/2		
CROP NAME	CODE	HECTARE	HECTARE	KG	KG/HA		
Next to last season:							
Glutinous rice	1						
Ordinary rice	2						

XII: 4. Disposition of crops

	1	2	3		3B	4	5		6	7	
С	Crops last season:	Have you sold	If sold:		What was the	Was any () lost to	If lost:		Was any () give	If given:	•
r o		any () ?	How m	uch?	price per kilo you got from	insects, rodents or some other problem?	How n	nuch?	or make other	How mu	uch?
p C	Only record crops from XII:2. = 1 or 2	Yes = 1			the sale?	Yes = 1			payments? Yes = 1		
o d		No = 2 >> 4			-	No = 2 >> 6			No = 2 >> 8		
е	CROP NAME		KG		Price per kilo		KG			KG	
	Clustic augustica	T			1	1	I		-		
1	Glutinous rice										
2	Ordinary rice										
	+	+					-				

XII: 4. Disposition of crops (cont.)

		8	9		10	11		12	13	
С	Crops last season:	Have you used	If anima	al feed:	Was any () used to	If proce	ssed:	Was any () give	If gift:	
r		any () for	How mu	uch?	produce processed	How mu	ıch?	away as gifts?	How m	uch?
0		animal feed?			food for sale?					
р	Only record crops from									
С	XII:2. = 1  or  2	Yes = 1			Yes = 1			Yes = 1		
0		No = 2 >> 10			No = 2 >> 12			No = 2 >> 14		
d										
е	CROP NAME		KG			KG			KG	
	1	T	1	I	•	I	ı	1	r	
1	Glutinous rice									
2	Ordinary rice									
		+								
		†								
		+								
		†								

### XII: 4. Disposition of crops (cont.)

		14	15		16	17	
С	Crops last season:	Have you used	If seed:		Do you have any (	If stored:	
r		any () for	How much	?	still being stored	How much	?
0		seed?			by your household?		
р	Only record crops from						
С	XII:2. = 1  or  2	Yes = 1			Yes = 1		
0		No = 2 >> 16			No = 2 >> Next crop		
d							
е	CROP NAME		KG			KG	
	Τ	1			1		1
1	Glutinous rice						
2	Ordinary rice						
		-					

### XII: 5. Livestock

1 Has this household raised any livestock during the past 12 months?

1 = Yes	
2 = No > XII: 6	

		Young livestock		Adult livestock				
		2	3	4	5	6	7	8
		How many young	What is the total	How many adult	What is the total	How many in total	What was the value	How many () did
С	Name of	(animals) is this	value of all your	(animals) is this	value of all your	() did you own	of all the () owned	you sell during the
o d	livestock	household now raising?	young () at the current	household now raising?	adult () at the current	12 months ago? (=this month	by your household 12 months ago?	last 12 months?
е			price?		price?	last year)		
		NUMBER	VALUE	NUMBER	VALUE	NUMBER	VALUE	NUMBER
1	Cattle							
2	Buffaloes							
3	Pigs, local							
4	Pigs,comm.							
	Goats							
6	Horse							
7	Elephants							
8	Sheep							
9	Other							

XII: 5. Livestock (cont.)

		9	10	11	12	13	14
		How much has your	How many ()	How much did your	What was the	What was the value	What is the value of
С		household received			value of ()	of animals lost or	() slaughtered
О	Name of	from sales of ()	household buy	buy () in the past	newly born or	stolen, given as gifts	and consumed by
d	livestock	during the last	during the past	12 months?	received as gift		your household
е		12 months?	12 months?		during the past	past 12 months?	during the past 12
					12 months?		months?
		VALUE	NUMBER	VALUE	VALUE	VALUE	VALUE
1	Cattle						
2	Buffaloes						
	Pigs, local						
	Pigs,comm.						
5	Goats						
	Horse						
	Elephants						
	Sheep						
9	Other						

XII: 6	∂. Po	ultry
--------	-------	-------

1 Has this household raised any POULTRY during the past 4 weeks?

1 = Yes 2 = No

If No go to XII: 7

		2	3	4	5	6	7
		How many	What is the total	How many in	How much has	How many ()	How much did
С	Name of	() is this	value of all your	total () did	your household	did your house-	your household
О	poultry	household	() at the current	you sell during	received from	hold buy during	pay to buy
d		now raising?	price?	past 4 weeks?	sales of ()	past 4 weeks?	() during
					during past		past 4 weeks?
е					4 weeks?		
		NUMBER	TOTAL VALUE	NUMBER	TOTAL SALES	NUMBER	TOTAL PRICE
1	Local chicken						
	Commercial chicken						
3	Turkeys						
4	small breed						
5	large breed						
6	Geese						
7	Other						

XII: 6. Poultry (cont.)

	• ` ` `	8	9	10	11
		How many ()	How many ()	How many ()	How much have
С		did your house-	did your house-	have been lost,	your household
0	Name of	hold receive as	hold give away	stolen or died	received from
d	poultry	gift during the	during the past	during the past	sales of poultry
		past 4 weeks?	4 weeks?	4 weeks?	products (eggs)
е					during the past
					4 weeks?
		NUMBER	NUMBER	NUMBER	TOTAL SALES
1	Local chicken				
2	Commercial chicken				
3	Turkeys				
4	small breed				
5	large breed				
6	Geese				
7	Other				

### XII: 8 Fishery

1 Does this household have any fish culture or is engaged in fishing?

Yes = 1	
No = 2	
If no go to XII: 9	<u>-</u>

2
In the past 12
months did your
household use
any insecticides
or pesticides
on your land?
Yes = 1
No = 2

2			3	4			5
What types of fish			In the last 12	Was the fishing	Was the fishing		
culture? Are there			months, did any	in			your household
	Yes	No	members of this		Yes	No	received from
1 Rice field?	1	2	household do any	1 In rivers?	1	2	sales of fish
2 Pond?	1	2	uncultured fishing?	2 In lakes, reservoirs?	1	2	during past
3 Cage?	1	2		3 In swamps, seasonal			4 weeks?
4 Integrated pond?	1	2	Yes =1	floodplain?	1	2	
5 Community fish?	1	2	No =2 >> 5	4 In rice field?	1	2	
6 Fish seed production?	1	2		5 Other places? Specify:	1	2	
7 Other types? Specify:	1	2					Total sales

### XII: 9. Forestry

1	2	3			4	5			6	7
Do you own	In the last 12	Did you from your own		In the last 12 months,	Have you from this forest	Have you from this forest			How much has	
any forest?	months, did	forest in the la	ast 12	months	did you exploit the	in the last 12 months			your household	your household
	you exploit	obtain		forest suurounding	gathered	Yes	No	received from	received from	
	this forest?		Yes	No	your village?	1 Timber	1	2	sales of forest	sales of animals
		1 Timber	1	2	(not own forest)	2 Fuel wood	1	2	products during	hunted in the forest
		2 Fuel wood	1	2		3 Bamboo	1	2	past 4 weeks?	during past 4 weeks?
1 = Yes	Yes = 1	3 Bamboo	1	2	Yes = 1	4 Tuber	1	2		
2 = No >>4	No = 2>>4				No = 2>>XIII (Last week)	5 Other forest vegetables	1	2		
									Total sales	Total sales
		_				_				

## XIII. Health (Last week)

		1	2	3	4	5	6		7	8
Transfer name	I	How would	Compared with others	Do you have	Does this	Did you have	What health con	nplaints	Did your	During the
and ID code	D	you evaluate	of your age, would	any longterm	affect your	any health	did you have?		health	past 4
		your health?	you say that your health	illness,	ability to	complaints in	Stomach ache/		complaints	weeks,
	C		(Read out answers to	disability or		the past 4	disorder		disrupt	how many
	О		respondent)	have	school or	weeks? (for	Cough/cold		work,	days with
	D			permanent	conduct	example, a	Back pain	=3	school or	your
	Е			mark from an	other daily	cold/cough,	Headache			primary
				accident?	activities?	diarrhoea, back		=5	activities?	daily
						pain, fever,	Ear pain	=6		activities
			Much better : 1				Fever	=7		were
			Somewhat better = 2			headache, etc.)	Diarrhoea	=8		missed due
		O	About the same = 3				Accident			to poor
					Yes = 1		Malaria			health?
		$Very\ bad = 5$	Much worse 5		No = 2	No = 2	Other, specify		( <b>If</b> No>>9)	
				( <b>If</b> No>>5)		(If No>>20)	FIRST SECOND	THIRD		DAYS

	Seeking health care			Facilities	
9	10	11		12	13
During the	Why did you not get any	What kind of health care facility or		How many times did	What kind of health care
past 4 weeks,	treatment at a health	provider did you	visit in the past 4	you visit a health care	facility did you visit
did you seek	facility or health provider	weeks?		facility in the past 4	most recently in the
treatment at a	for your health problems?	Central hospital	! =1	weeks to obtain	past 4 weeks?
health facility		Regional hospit	al = 2	outpatient care?	
of health	Not serious enough/	Prov/distr. Hosp	oital =3	Do not include visits	
provider for	wanted to wait =1	Public health ce	enter =4	to private nurses,	
your health	Difficult to get there =2	Private health c	linic =5	doctors or trained	Central hospital = 1
problem?	Too expensive =3	Hospital/clinic d	abroad = 6	midwifes	Regional hospital =2
	Not good quality =4	Private doctor =	=7		$Prov./distr.\ hospital = 3$
	No cure possible =5	Private nurse/m	idwife=8		Public health center = 4
	Other, specify $= 6$	Commune healt	h volunteer=9	If none write	Private health clinic =5
Yes = 1		Trad. Healer or	TBAs = 10	0 and >> 14	Hospital/clinic abroad=6
( <i>If Yes &gt;&gt;11</i> )	Go to Q. 17	Other, specify	= 11		<i>Other, specify= 7</i>
No = 2		FIRST	SECOND	TIMES	

Modern provi	ders	Traditional	Medicines					
14	15	16	17	18	19			
How many times did	What kind of health care	How many times did	Did you purchase any	What type of medicine did you	Where did you			
you visit a private	provider did you visit	you visit a tradtional	medicine in the past 4	buy?	purchase			
doctor or nurse,	most recently in the	health practitioner or	weeks on your own	Antibiotics = 1	medicine?			
commune health	past 4 weeks?	traditional birth	without a prescription	Anti-Malaria=2				
volunteer or		attendant in the past	to treat your health	Other modern				
trained midwife in		4 weeks to obtain	problems or general	medicines = 3	Pharmacy =1			
the past 4 weeks to	Private doctor =1	health care?	health?	Traditional	Kiosk = 2			
obtain health care?	Private nurse =2			medicines= 4	Other,			
	Midwife = 3			Other, specify $= 5$	specify = 3			
If none write	Comm. health volunteer= 4	If none write ''0''	Yes = 1					
0 and >>16	<i>Other</i> = 5		No = 2	List in order of importance				
			(If No>>20)					
TIMES		TIMES		FIRST SECOND THIRD				
				<del>                                     </del>				
				<del>                                     </del>				
				<del>                                     </del>				

	Hospit	al stay	Cost for hospital stay			
20	21	22	23	24	25	26
During the <b>past</b>	How many times	Let's talk about your most	How many	How much did you	How much did you	Have you had to
12 months,	were you	recent hospital stay. In what	days did you	pay or expect to	pay, either in	borrow money
have you been	hospitalized in the	type of hospital/clinic did you	spend in	pay, either in	money or in kind,	from outside the
hospitalized -	past 12 months?	stay?	hospital in	money or in kind,	in transport costs	family, or sell
that is stayed			your most	for all costs	for this most recent	possessions or
one or more		Central hospital = 1	recent visit?	associated with	hospital stay?	livestock to pay
nights in a		Regional hospital =2		this most recent		for your health
hospital/clinic?		$Prov./distr.\ hospital = 3$		hospital stay?	Please include the	expenses in the
		$Public\ health\ center = 4$			transportation costs	past 12 months?
Yes = 1		Private health clinic =5			of anyone who	
No = 2		Hospital/clinic abroad=6			accompanied you	Yes = 1
(If No > 26)		<i>Other, specify</i> = 7				No = 2
	TIMES		DAYS	AMOUNT IN KIP	AMOUNT IN KIP	>> Next person
		<u> </u>				

# XIV. Households' purchase and selling of durables during the last 12 month (Last week)

1 Has anybody in the household during the last 12 months purchased any (.....)? RECORD TOTAL AMOUNT

	Item	Во	ught	Last 12 months
Item	No.	Yes	No	KIP
Furniture				
Beds	201	1	2	
Tables and chairs	202	1	2	
Cupboards	203	1	2	
Dining room suites	204	1	2	
Lounge suites	205	1	2	
Desks and sideboards	206	1	2	
Stools and benches	207	1	2	
Carpets	218	1	2	
Lamps and pictures	223	1	2	
Others, specify	208	1	2	
Repair of furniture	209	1	2	
Household appliances				
Stove gas or electric	230	1	2	
Refrigerator/deep freezer	231	1	2	
Iron	232	1	2	
Air conditioner	233	1	2	
Electric fan	234	1	2	

	Item	Во	ught	Last 12 months
Item	No.	Yes	No	KIP
Sewing machine	235	1	2	
Washing machine	236	1	2	
Other, specify	237	1	2	
Repair of household appliances	238	1	2	
Transport equipment (private)				
Motor cars and vans	269	1	2	
Motor cycles	270	1	2	
Bicycles	271	1	2	
Other, specify	272	1	2	
Watches and jewelry				
Watches	342	1	2	
Jewelry, rings, precious stones	343	1	2	
Repair of such items	344	1	2	
Tickets on airlines				
Tickets on domestic airlines	284	1	2	
Tickets on internat.airlines	285	1	2	
Currency spent abroad (in KIP)	356	1	2	

1 Has anybody in the h purchased any (			_		11	ng the last 12 months sole transport equipment, jew	
	Item	Во	ought	Last 12 months		Item No.	Last 12 months
Item	No.	Yes	No	KIP	Item		KIP
Radio, TV, camera, etc.					Specify		
Radio or radio cassettes	292	1	2				
Television sets	293	1	2				
Parabola antenna	294	1	2				
Video recorders	295	1	2				
Cameras	296	1	2				
Musical instruments	297	1	2		4 Has anybody in th	e last 12 months sold any	y semi-durable goods
Computer and computer					such as clothes, fo	otwear, utensils, textiles,	furnishing, tyres, etc.?
equipment	299	1	2			Item No.	Last 12 months
Cellular phone (handsets)	298	1	2		Item		KIP
Other equipment, specify	304	1	2		Specify		
Repair of such items	306						
2 Has anybody in the h		·	•	urable in the past			
12 months for agricul					<b>-     </b>	e household sold any dur	rable in the past
<b>T</b> .	Item	No.		Last 12 months	12 months for agri	culture or businesses?	T + 10 - 1
Item				KIP		Item No.	Last 12 months
Specify					Specify Item		KIP
					Specify		
						+	
						<del>     </del>	

### XV. Income and transfers (Last week)

1 Has anyone in your household during the last month received any income, transfer or remittances in cash or in kind? Which person and how much?

Nan	me	ID	N	/lain incon	ne		Property	income				Transfer and	other benefi	ts	
		Code	Do <b>NOT</b> from agrid or housel	include ind cultural pro nold busine	duction										
			Wages, salaries in cash	Social security	Wages, salaries in kind	Interest and royalties	Dividends	Other rent	Land rent	Pension and life insurance	gifts in cash	gifts in cash			Other current tranfers Specify
	tem nr		800	801	802	803	804	805	806	807	808	809	810	811	812
<u> </u>	tom m	*	000	1 001	002	000	004	000		nt in KIP	000	000	010	011	012
				1											

## XVI. Household's borrowing and lending

#### XVI 1. Borrowing

1 Do any members of your household owe money or goods to anyone? Yes = 1

No = 2

If 2 >> XVI.2

	2	3	4	5	6	7	8	9	
$\boldsymbol{L}$	From whom was	How much money	Why did members of your household	Was there	What kind of	Is there any rate	What is the	When mus	t
o	the borrowing	have household	have to borrow money or goods?	any security	security?	of interest for the	rate of	the debt be	;
a	made?	members	1 = Working capital	provided for		loan?	interest?	paid back?	
n	Neighbour =1	borrowed?	2 = Investments	the loan?	Land = 1				
	Friend=2	(IF THE LOAN IS IN	3 = Repay loan		House = 2		%	(IF NO TIMI	E
o	Mon. lender = 3	GOODS, INCLUDE	4 = Relend		Durable = 3		per year	RECORD	
r	Bank = 4	THE VALUE OF	5 = Build or buy dwelling		Paddy = 4			MONTH = 0	)
d	Private bank = 5	THOSE GOODS)	6 = Wedding/funeral		Livestock = 5	Yes = 1		AND	
e	Other = 6	(USE ONE LINE FOR	7 = Schooling	Yes = 1	Other = 6	No = 2		YEAR = 0)	
r		EACH LOAN)	8 = Buy food before harvest	No = 2		GO TO 9			
			9 = Others, specify	GO TO 7				MONTH	YEAR
1									
2									
3									
4									

### XVI 2. Lending

1. Has anybody in your household lent out money of goods that is not yet paid back? 1 = Yes 2 = No

	2	3	4	5	6
L	How much money have	Who are the	Is there a	What is the rate of interest?	When must the
О	household members len	borrowers?	rate of		debt be paid back?
a	to borrowers currently		interest		
n	not paid back?	Neighbour = 1	specified for		
	(IF THE LOAN IS IN	Private person = 2	this loan?	Interest rate	(IF NO TIME,
О	GOODS, INCLUDE	Organiation = 3		% per year	RECORD
r	THE VALUE OF				MONTH = "00"
d	THOSE GOODS)		1 = Yes		AND YEAR = "00")
e	(USE ONE LINE FOR		2 = No		
r	EACH LOAN)		GO TO 6		MONTH YEAR
1					
2					
3					
4					

#### Confidential

# **Expenditure and Consumption Survey 2007/2008**

## Diary DRAFT

Identifica	ation	
Province	_	
District	-	
Village		
Household No	_	
EA (Urban=1; Rural=2)		
Date 0f interview	-	
Respondent's name		
Interviewer's name		
Field supervisor;s name		
Office supervisor's name		

**NATIONAL STATISTICAL CENTRE** 

Diary Sheet for Household Transactions (all expenditures, all income, all consumption of own produced food, all own produced food given away)

	For household		For NSC	For household				Fo	or Enumerators			
Date	Item description	Unit of quan- tity	Code unit of quantity	Quan- tity	Value in KIP	Kind of transact  1 = Expenditur  2 = Own const  3 = Own produ  4 = Income in  (Circle code)	e in cast umption uced food	of own produ d given away	ced food	Bought where? (if expenditure) 1 = In Lao 2 = Abroad (Circle code)	Purpose: a = Agriculture h = Household b = Business  (Circle code)	Item code
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	. a hb.	
						1	2	3	4	12	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	12	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2		
						1	2	3	4	12	a h b	
						1	2	3	4	12	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	1 2	a h b	
						1	2	3	4	. 1 2		
						1	2	3	4	1	a hb. ·	
						1	2	3	4	1 2	a. h.b.	
						1	2	3	4	1 2	1	
						1	2	3	4		a h b	

## Household's Diary Sheet for Household Transactions. Examples

	For household		For NSC			For	household			For	Enumerators	
Day	Item description	of	Code unit of quantity	tity	<u>Value in KIP</u>	1 = Expe 2 = Own 3 = Own	enditure in cas consumption produced foc me in cash or	of own produ od given away		Bought where?		Item code
	Bought rice glutinous	kg		5	10.000	1	2	3	4	1	.∵a.∵.h.∵.b∵	11
	Fishing net			1	90.000	1	2	3	4	· · · · 1 · · · · · · · · · 2 · · ·	. a . h . b	466
	i Tarana da Maria da	bag		1	4.000	1	2	3	4	1	.∵a.∵.h.∵.b.	30
		bag		1	8.000	1	2	3	4	· · · · 1 · · · · · · · · · · · · · 2 · · ·	· a · · h · · · b ·	136
	· · · · · · · · · · · · · · · · · · ·	case		5	240.000	1	2	3	4	1	∵a.∵.h.∵.b.	551
	Jeans for youngest son				24.000	1	2	3	4	1 2	· · a · · · · h · · · · · b ·	180
	TV bought in Thailand				2.000.000	1	2	3	4	1 2	a h b	293
	Fish caught in Mekong for own use, clarify which	piece		3	45.000	1	2	3	4	· · · · 1 · · · · · · · · · · · · · · ·	a h b	145
	Fresh fish bought in market	kg		1	24.000	1	2	3	4	1 2	a h b	20
	Gift in cash to monks in vat				50.000	1	2	3	4	1 2	· · · a · · · · h · · · · · b ·	354
	Glutinous rice given away from own produce	bag		2	200.000	1	2	3	4	1	i a h b	156
	Ordinary rice received	kg		10	20.000	1	2	3	4	. 1 2	· · a · · · h · · · b ·	2.
	Remittances from uncle in Australia				450.000	1	2	3	4	1	i a i h i b	· : · · 812
	Rice seed, developed (ask for that)	kg		50	150.000	1	2	3	4	. 1 2	· a · · h · · b ·	452
	Carrots from own garden (estimate the value)	bundle		1	6.000	1	2	3	4	1	j. a h b .	134
	Malaria medicine				15.000	1	2	3	4	2.	· a · · h · · b ·	263
	One chicken bartered with 2 kg of rice	piece		1	4.000	1	2	3	4	1	j. a h b .	14
	Sold eggs, own produced, estimate the value	piece		5	4.000	1	2	3	4	2.	· a · · h · · b ·	414
	Bought meat, pork (ask to specify kind of meat)	kg		2	20.000	1	2	3	4	1	a h b	12
	Repair of tractor				450.000	1	2	3	4	1 2 .	·[·a[·ː·hː·ː·bː·	467
	Income from car repair				300.000	1	2	3	4	1	i a h h b	506
	Income from shop during week one				7.400.000	1	2	3	4	1	· a · · h · · · b ·	501
	Income from shop during week two				8.600.000	1	2	3	4	1 2	· a· · h· · b	. 501
	Income from shop during week three				5.800.000	1	2	3	4	[ · ] · ] · [ · ] · [ 2] · [	· a · h · b	501
	Income from shop during week four				9.600.000	1	2	3	4	1	.∵a h b	501
	Beer taken from own shop				45.000	1	2	3	4	2	· a · · h · · · b ·	507

Attachment 2

# DATA DICTIONARY OF LECS4 2007

(Provisional)

Original file: HhHouseholds

R data frame: HHB

No	Variable name	Description	Туре	Response categories/ Remarks
1	SerialNr	Serial number of household	С	
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)
4	Province	2-digit province code at the time of sample design	С	01-18
5	DistrictID	District identification number	С	Province+District No (4-digit)
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road
7	Hhnumber	2-digit household number within the village	С	
8	Interview_Month	Interview Month	С	1-12
9	P8	?	С	1 or 2, (Not in variable list or questionnaire)
10	P10Q1a_1	Built new or made extension: Residential building	С	1.Yes 2.No
11	P10Q1a_2	Built new or made extension: Agricultural building	С	1.Yes 2.No
12	P10Q1a_3	Built new or made extension: Business building	С	1.Yes 2.No
13	P11Q1S1	Household operated non-agricultural business	С	1.Yes 2.No
14	P12S1Q1	Owned or leased any agricultural land, forest or grazing land	С	1.Yes 2.No
15	P12S3Dry	Crop planted and harvested in last completed dry season	С	1.Yes 2.No
16	P12S3Wet	Crop planted and harvested in last completed wet season	С	1.Yes 2.No
17	P12S5Q1	Raised livestock	С	1.Yes 2.No
18	P12S6Q1	Raised poultry	С	1.Yes 2.No
19	P12S7Q1	Use any chemical fertilizers	С	1.Yes 2.No
20	P12S7Q2	Use any insecticides or pesticides	С	1.Yes 2.No
21	P12S8Q1	Have any fish culture or is engaged in fishing	С	1.Yes 2.No
22	P14S1	Purchased any durable goods and service listed in Section 1 of Part XIV during the last 12 months	С	1.Yes 2.No
23	P14S2	Bought any durable goods during the last 12 months for agriculture or businesses	С	1.Yes 2.No

24	P14S3	Sold any durable goods such as furniture, transport equipment, jewery, radio TV, etc. during the last 12 months	С	1.Yes 2.No
25	P14S4	Sold any semi-durable goods such as clothes, footwear, utensils, textiles, furnishing, tyres, etc. during the last 12 months	С	1.Yes 2.No
26	P14S5	Sold any durable goods during the last 12 months for agriculture or businesses	С	1.Yes 2.No
27	P15	Received any income, transfer or remittances in cash or in kind	С	1.Yes 2.No
28	P16S1Q1	Owe money or goods to anyone	С	1.Yes 2.No
29	P16S2Q1	Lent out money or goods that is not yet paid back	С	1.Yes 2.No
30	Male	Number of household members (male)	N	
31	Female	Number of household members (female)	N	
32	Total	Number of household members (total)	N	
33	Hhweight	Original weight variable	N	
	(The original variable	es as above.)		
34	Region		С	1 Vientiane M, 2 North, 3 Center, 4 South
35	New.Province	Revised	С	01 Vientiane C. 02 Phongsaly 03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack 17 Attapeu
36	IND.male	Household size from IND	N	
37	IND.female	Household size from IND	N	
38	IND.total	Household size from IND	N	
39	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhComposition R data frame: IND

No	Variable name	Description	Туре	Response categories/
		· ·		Remarks
1	SerialNr	Serial number of household	С	VillagalDullbrumbar
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)
4	Province	2-digit province code at the time of sample design	С	01-18
5	DistrictID	District identification number	С	Province+District No (4-digit)
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road
7	Hhnumber	2-digit household number within the village	С	
8	Interview_Month	Interview Month	С	1-12
9	PersID	Person identification number	С	HhID+PCode (11-digit)
10	PCode	2-digit person number within the household	С	
11	P1Q2	Relationship to head of household	С	1 Head of household 2 Spouse 3 Parent/ Parent in law 4 Son/ daughter 5 Son/ daughter in law 6 Brother/ sister 7 Brother/ sister in law 8 Other relatives 9 Non relative
12	P1Q3	Sex	С	1 Male 2 Female
13	P1Q4a	Day of birth	N	
14	P1Q4b	Month of birth	N	
15	P1Q4c	Year of birth	N	
16	P1Q5	Age	N	Completed age at last birthday.  If < 1 year, record 00
17	P1Q6	Marital status	С	1 Never married 2 Married 3 Divorced 3 Separated 4 Widowed For all persons younger than 10 years, record 1 directly.
18	P1Q7	Ethnic origin	С	Code list not available
19	Hhweight	Original weight variable	N	

	(The original variables	s as above.)		
20	Region		С	1 Vientiane M, 2 North, 3 Center, 4 South
21	New.Province	Revised	С	01 Vientiane C. 02 Phongsaly 03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack 17 Attapeu
22	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhEducation R data frame: EDU

	R data frame: EDU						
No	Variable name	Description	Туре	Response categories/ Remarks			
1	SerialNr	Serial number of household	С				
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)			
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)			
4	Province	2-digit province code at the time of sample design	С	01-18			
5	DistrictID	District identification number	С	Province+District No (4-digit)			
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road			
7	Hhnumber	2-digit household number within the village	С				
8	Interview_Month	Interview Month	С	1-12			
9	PersID	Person identification number	С	HhID+PCode (11-digit)			
10	PCode	2-digit person number within the household	С				
11	P3Q1	Reading letter	С	1 Yes, withour difficulty 2 Yes, but with difficulty 3 No			
12	P3Q2	Writing letter	С	1 Yes, withour difficulty 2 Yes, but with difficulty 3 No			
13	P3Q3	Ever been to school	С	1 Yes 2 No			
14	P3Q4	Main reason why never attended school	С	1 Too young 2 Too expensive 3 No interest 4 Had to work 5 School too far 6 No teachers/supplies 7 Illness 8 Language 9 Other, specify			
15	P3Q4Other	Other reason never attended school		Description in Lao			
16	P3Q5	Attended preschool before primary school	С	1 Yes 2 No			
17	P3Q6	Enrolled now	С	1 Yes 2 Yes, but on vacation 3 No			
18	P3Q7a	Level now or last year	С	LEVEL CLASS  0 Preprimary 0  1 Primary 1 - 5  2 Lower secondary 1 - 3			
19	P3Q7b	Class now or last year	С	3 Upper secondary 1 - 3 4 Vocational train. 1 - 3 5 University/institute 1 - 5			
20	P3Q8	Type of school attending/attended last school year	С	1 Public 2 Private 3 Other			
21	P3Q8Other	Type of school: Other		Description in Lao			

22	P3Q9	Why not enrolled in school now (For children aged 6-11)	С	1 Completed studies 2 Too old 3 Too expensive 4 No interest 5 Work 6 School too far 7 No teachers/supplies 7 Illness 8 Language 9 Other, specify
23	P3Q9Other	Why not enrolled in school now: Other		Description in Lao
24	P3Q10	Year at the beginning of Class 1 of Primary school (yyyy)	N	
25	P3Q11a	Highest level completed	С	LEVEL CLASS 0 Preprimary 0 1 Primary 1 - 5 2 Lower secondary 1 - 3
26	P3Q11b	Highest class completed	С	3 Upper secondary 1 - 3 4 Vocational train. 1 - 3 5 University/institute 1 - 5
27	P3Q12	Why not enrolled after Primary school (For those aged 12-24 and only completed Primary school)	С	1 Too young 2 Too expensive 3 No interest 4 Had to work 5 School too far 6 No teachers/supplies 7 Illness 8 Language 9 Other, specify
28	P3Q12Other	Why not enrolled after Primary school: Other		Description in Lao
	How much has your I	26 enrolled in school now or last school household spent on NAME's education lue of in-kind payments. (Amount in Kind	in this/t	the last school year?
29	P3Q14a	Tuition and other required fees	N	
30	P3Q14b	Parent association fees	N	
31	P3Q14c	Uniforms and other clothing	N	
32	P3Q14d	Textbooks	N	
33	P3Q14e	Other education materials (exercise books, pens, etc.)	N	
34	P3Q14f	Meals, transportation and or lodging	N	
35	P3Q14g	Other expenses (extra classes, optional fees)?	N	
36	P3Q14i (?)			
37	P3Q14h	Total spent	N	
38	P3Q15	Other person's payment for educational expenses?	С	1 Yes 2 No
39	P3Q16	How much money others paid for educational expenses (Amount in Kip)	N	

40	P3Q17	How far away from home to school attended most recently (Kilometer)	N	If less than 1 kilometer, put zero.		
41	P3Q18a	How long to go to school (Hours)	N			
42	P3Q18b	How long to go to school (Minutes)	N			
43	P3Q19	How to go to school	С	1 Walk 2 Bicycle 3 Motorcycle 4 Car 5 Tuc-tuc 6 Bus 7 Boat 8 Animal 9 Other, specify		
44	P3Q19Other			Description in Lao		
45	p3Q20	Have complete set of textbooks	С	1 Yes, complete 2 No, only some 3 No, none		
46	P3Q21	Share textbooks with other students	С	1 Shared 2 Exclusive use		
47	P3Q22	Hours of homework in a typical week (Hours)	N			
48	P3Q23	Currently attending school?	С	1 Yes 2 No		
49	P3Q24	Number of days school open in the past 7 days (Days)	N			
50	P3Q25	Number of days attended school in the past 7 days (Days)	N			
51	P3Q26	Reason if absent any days	С	1 Agricultural work 2 Work at house/home 3 Other work 4 Illness 5 Family illness/death 6 Other,specify		
52	P3Q26Other			Description in Lao		
53	Hhweight	Original weight variable	N			
	(The original variabl	es as above.)				
54	Region		С	1 Vientiane M, 2 North, 3 Center, 4 South		
55	New.Province	Revised	С	01 Vientiane C. 02 Phongsaly 03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack		

				17 Attapeu
56	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhIncome R data frame: INC

R data frame: INC						
No	Variable name	Description	Туре	Response categories/ Remarks		
1	PersID	Person identification number	С	HhID+PCode (11-digit)		
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)		
3	SerialNr	Serial number of household	С			
4	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)		
5	DistrictID	District identification number	С	Province+District No (4-digit)		
6	Province	2-digit province code at the time of sample design	С	01-18		
7	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road		
8	Interview_Month	Interview Month	С	1-12		
9	P1Q2	Relationship to head of household	С			
10	P1Q3	Sex	С			
11	P1Q5	Age	N			
12	P1Q6	Marital status	С			
13	P1Q7	Ethnic origin	С			
14	Hhweight	Original weight variable	N			
		Has anyone in your household during the last month received any income, transfer or remittance in cash or in kind?  (Amount in Kip)				
15	Incom800	Wages, salaries in cash	N			
16	Incom801	Social security	N			
17	Incom802	Wages, salaries in kind	N			
18	Incom803	Interest and royalties	N			
19	Incom804	Dividends	N			
20	Incom805	Other rent	N			
21	Incom806	Land rent	N			
22	Incom807	Pension and life insurance	N			
23	Incom808	Remittance/gifts in cash from Laos	N			
24	Incom809	Remittance/gifts in cash from abroad	N			
25	Incom810	Remittance/gifts in kind from Laos	N			
26	Incom811	Remittance/gifts in kind from abroad	N			
27	Incom812	Other current transfers Specify	N			
28	IncomeOth	Others, specify	С	25 unreadable description (maybe in Lao) and 4101 blank		
	(The original variables as above.)					
29	Region		С	1 Vientiane M, 2 North, 3 Center, 4 South		
30	New.Province	Revised	С	01 Vientiane C. 02 Phongsaly		

				03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack 17 Attapeu
31	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhDiarySheet

R data frame: DIA

No	Variable name	Description	Туре	Response categories/ Remarks
1	SerialNr	Serial number of household	С	
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)
4	Province	2-digit province code at the time of sample design	С	01-18
5	DistrictID	District identification number	С	Province+District No (4-digit)
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road
7	Hhnumber	2-digit household number within the village	С	
8	Interview_Month	Interview Month	С	1-12
9	DiaryID	Unique code for each transaction	С	
10	Page	Page number of the Diary within the household	N	
11	Serial_I	(?) unique code for household	С	
12	Unit	Unit of quantity	С	1 Kilogram 2 liter 3 meter 4 bundle 5 bag 6 piece/unit 7 basket 8 bottle 9 pack 10 paire 11 bunch 12 bowl 13 can 14 unit 15 unit 16 bun 17 other
13	Quantity	Quantity of transaction	N	
14	Kip	Value in Kip	N	

15	Kind	Kind of transaction	С	1 Expenditure in cash or in kind 2 Own consumption of own produced food 3 Own produced food given away 4 Income in cash or in kind
16	Produced	Bought where? (if expenditure)	С	1 In Lao 2 Abroad
17	Purpose	Purpose of transaction	С	1 Agriculture 2 Household 3 Business
18	ItemNo		С	
19	ItemID		С	
20	Item		С	
21	ItemGr		С	
22	Itemlev2		С	
23	Itemlev3		С	
24	ItemDescription		С	
25	Hhweight	Original weight variable	N	
26	Region		С	1 Vientiane M, 2 North, 3 Center, 4 South
27	New.Province	Revised	С	01 Vientiane C. 02 Phongsaly 03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack 17 Attapeu
28	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhDurables R data frame: DUR

	R data frame: DU		1	
No	Variable name	Description	Туре	Response categories/ Remarks
1	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)
2	SerialNr	Serial number of household	С	
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)
4	DistrictID	District identification number	С	Province+District No (4-digit)
5	Province	2-digit province code at the time of sample design	С	01-18
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road
7	Interview_Month	Interview Month	С	1-12
8	Hhweight	Original weight variable		
9	DurCode	Durable Code	C	1 Plots of land 2 Buildings business 3 Buildings agriculture 4 Vehicle (Car, Van) 5 Motor cycle 6 Bicycle 7 Tuk-tuk 8 Refrigerator/freezer 9 Sewing machine 10 Washing machine 11 Vacuum cleaner 12 Electric rice cooker 13 Steam rice cooker 14 Food processor 15 Two-wheeled tractor 16 Four-wheeled tractor 17 Agr. equipment 18 Tools small and large 19 Boat 20 Fishing net 21 Cart 22 Television 23 Radio/ VCD, etc 24 Telephone 25 Mobile phone 26 Camera 27 Satellite disc/connection 28 Computer 29 Air conditioner 30 Jewelry 31 Mosquito net 32 Other goods (Specify)
10	P8Q1a	Have access to but do not own: How many?	N	Range=0-30, NA
11	P8Q1b	Have access to and <i>own</i> : How many?	N	Range=1-220, NA
12	P8Q2	If to sell this/these (ITEM/S): how much? (Amount in Kip)	N	If you wanted to sell this/these (ITEM/S) that you own today, how much would you receive?
13	P80th			One value=32, Others=NA

	(The original varia	ables as above.)		
14	Region		С	1 Vientiane M, 2 North, 3 Center, 4 South
15	New.Province	Revised	С	01 Vientiane C. 02 Phongsaly 03 Luangnamtha 04 Oudomxay 05 Bokeo 06 Luangprabang 07 Huaphanh 08 Xayabury 09 Xiengkhuang 10 Vientiane 11 Borikhamxay 12 Khammuane 13 Savannakhet 14 Saravane 15 Sekong 16 Champasack 17 Attapeu
16	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhHousing R data frame: Housing

No	Variable name	Description	Туре	Response categories/ Remarks
1	SerialNr	Serial number of household	С	
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)
4	Province	2-digit province code at the time of sample design	С	01-18
5	DistrictID	District identification number	С	Province+District No (4-digit)
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road
7	Hhnumber	2-digit household number within the village	С	
8	Interview_Month	Interview Month	С	1-12
9	P9Q1	Tenure status of this household	С	<ol> <li>Owner/purchaser</li> <li>Tenant</li> <li>Other, specify</li> </ol>
10	P9Q1Oth		С	
11	P9Q2	If someone wanted to rent a house like this one, how much would she/he have to pay in rent for one year?	N	AMOUNT
12	P9Q3a	What is the major construction material external wall? (FIRST)	С	1.Brick 2.Concrete 3.Unbaked brick 4.Wood 5.Bamboo 6.Tin 7.Mud 8.Other, specify
13	P9Q3b	What is the major construction material external wall? (SECOND)	С	1.Brick 2.Concrete 3.Unbaked brick 4.Wood 5.Bamboo 6.Tin 7.Mud 8.Other, specify
14	P9Q3Oth		С	-
15	P9Q4	What is the major material of the roof?	С	1.Concrete 2.Wood 3.Metal sheets/zinks 4.Tile 5.Grass 6.Leaves 7.Other, specify
16	P9Q4Oth		С	
17	P9Q5	What is the primary material of the floor?	С	1.Marble/ceramic 2.Floor tile/cement 3.Concrete/brick 4.Wood 5.Banboo 6.Earth/clay 7.Other, specify
18	P9Q5Oth		С	
19	P9Q6a	How old is this dwelling?	N	YEARS
20	P9Q6b	How old is this dwelling?	N	MONTHS (If more than 3 years, do not require months)
21	P9Q7	What is the floor area of the house/ dwelling unit occupied by your household? (Do not count kitchen and balconys.)	N	SQUARE METER
22	P9Q7b	How many rooms are used by the household in this house/ dwelling unit? (Do not count kitchen.)	N	NUMBER
23	P9Q8	What is the main source of drinking water in the rainy season?	С	1.Piped water in/outside     2.Well/borehole protected     3.Well/borehole unprotected

				4.River, dam, lake etc. 5.Rain water from tank/jar 6.Other, specify
24	P9Q8Oth		С	oramer, speeny
25	P9Q9	What is the distance to the drinking water source in the rainy season?	N	METERS (If in/outside house or in yard near house = 0 meter.)
26	P9Q10	What is the main source of drinking water in the dry season?	С	1.Piped water in/outside 2.Well/borehole protected 3.Well/borehole unprotected 4.River, dam, lake etc. 5.Rain water from tank/jar 6.Other, specify
27	P9Q100th		С	
28	P9Q11	What is the distance to the drinking water source in the dry season?	N	METERS
29	P9Q12	What kind of latrine is mainly used?	С	1.Modern toilet 2.Normal toilet 3.Dry toilet 4.Other, specify 5.None
30	P9Q12Oth		С	
31	P9Q13	What kind of kitchen does this household mainly use?	С	1.Inside the house 2.Outside roofed 3.Outside unroofed 4.Other, specify
32	P9Q13Oth		С	
33	P9Q14	What is the household's main source of energy for cooking?	С	1.Electricity 2.Paraffin 3.Wood 4.Coal 5.Charcoal 6.Sawdust 7.Gas 8.Other, specify
34	P9Q14Oth		С	
35	P9Q15	What is the household's main source of energy for lighting?	С	1.Electricity from public network 2.Electricity from generator 3.Electricity from battery 4.Kerosene lamp 5.Candle 6.Other, specify
36	P9QOth		С	
37	Hhweight	Original weight variable	N	
38	WT	Weight for resampled data	N	Hhweight/0.8

Original file: HhPurchase1 R data frame: Purchase1

No	Variable name	Description	Туре	Response categories/ Remarks
1	SerialNr	Serial number of household	С	
2	HhID	Household identification number	С	VillageID+Hhnumber (9-digit)
3	VillageID	Village identification number	С	Province+DistrictID+Village No (7-digit)
4	Province	2-digit province code at the time of sample design	С	01-18
5	DistrictID	District identification number	С	Province+District No (4-digit)
6	VillageType	VillageType	С	1.Urban 2.Rural with road 3.Rural without road
7	Hhnumber	2-digit household number within the village	С	
8	Interview_Month	Interview Month	С	1-12
9	P14S1		С	1
10	ItemB	Item No.	С	201-356
11	Bought	Has anybody in the household during the last 12 months purchased any ()?	С	1.Yes 2.No
12	КірВ	Total amount in Kip during the last 12 months	N	TOTAL AMOUNT
13	ItemB2080th		С	
14	ItemB2370th		С	
15	ItemB272Oth		С	
16	ItemB3040th		С	
17	Hhweight	Original weight variable	N	
18	WT	Weight for resampled data	N	Hhweight/0.8

# Item codes list of expenditure and income (completed by the author)

ItemID	Item	ItemGr	Itemlev2	Itemlev3	ItemNo	ItemDescription Clutingua rice
A1	1	A	1	1	001	Glutinous rice
A2	2	A	1	1 2	002	Ordinary rice
A3	3	A	1	2	003	Maize grain Flour
A4 A5	5	A A	1	2	004	
A6	6	A	1	2	006	Salapau bread Other bread
A7	7	A	1	2	007	Dry noodles
A7 A8	8	A	1	2	008	Fresh rice noodles
A9	9	A	1	2	009	Other noodles
A10	10	A	1	2	010	Cakes and biscuits
A11	11	A	1	2	011	Other
A11	12	A	1	3	012	Pork
A13	13	A	1	3	013	Beef
A14	14	A	1	3	014	Chicken
A15	15	A	1	3	015	Duck, turkey, other bread birds
A16	16	A	1	3	016	Sausages
A17	17	A	1	3	017	Meat from hunting/trapping (wild animals and birds)
A18	18	A	1	3	018	Offal
A19	19	Α	1	3	019	Other meat
A20	20	A	1	4	020	Fresh fish
A21	21	A	1	4	021	Canned fish
A22	22	A	1	4	022	Frozen fish
A23	23	A	1	4	023	Dried fish and smoked fish
A24	24	Α	1	4	024	Prawns, crabs, squid, etc.
A25	25	A	1	4	025	Fermented fish
A26	26	Α	1	4	026	Preserved fish
A27	27	Α	1	4	027	Other
A28	28	Α	1	5	028	Condensed milk
A29	29	Α	1	5	029	Powdered milk
A30	30	Α	1	5	030	Fresh milk
A31	31	Α	1	5	031	Cheese, cream, yogurt
A32	32	Α	1	5	032	Eggs
A33	33	Α	1	5	033	Other
A34	34	Α	1	6	034	Lard/dipping (animal fat)
A35	35	Α	1	6	035	Vegetable oil
A36	36	Α	1	6	036	Other
A37	37	Α	1	7	037	Bananas
A38	38	Α	1	7	038	Papayas
A39	39	Α	1	7	039	Oranges
A40	40	Α	1	7	040	Pineapples
A41	41	Α	1	7	041	Lemon/lime
A42	42	Α	1	7	042	Longan
A43	43	Α	1	7	043	Young coconuts
A44	44	Α	1	7	044	Melon
A45	45	Α	1	7	045	Sepadila
A46	46	Α	1	7	046	Peaches
A47	47	Α	1	7	047	Gooseberry
A48	48	Α	1	7	048	Avocado
A49	49	Α	1	7	049	Custard apple
A50	50	Α	1	7	050	Guava
A51	51	Α	1	7	051	Tamarind
A52	52	Α	1	7	052	Jujube
A53	53	Α	1	7	053	Jackfruit
A54	54	Α	1	7	054	Preserved fruits
A55	55	Α	1	7	055	Other fruits
A56	56	Α	1	8	056	Water melon
A57	57	Α	1	8	057	Chilli
A58	58	Α	1	8	058	Cucumber
A59	59	Α	1	8	059	Eggplant
A60	60	Α	1	8	060	Wax gourd
A61	61	Α	1	8	061	Loofah
A62	62	Α	1	8	062	Pumpkin
A63	63	Α	1	8	063	Tomato
A64	64	Α	1	8	064	Other
A65 A66	65	A A	1	8	065 066	Cabbage Chinese cabbage

A67			, ,				
A69							
A71							
A71							
A72							
A73							
A75         75         A         1         8         075         Phartemopey           A76         6         A         1         8         077         Cartic           A77         77         A         1         8         077         Gartic           A79         79         A         1         8         079         Long boars           A80         80         A         1         8         099         Long boars           A81         81         A         1         8         099         Long boars           A82         82         A         1         8         080         Bamboo shots           A83         83         A         1         8         082         Green papper           A84         84         A         1         8         084         Other vogetables           A85         85         A         1         8         084         Morre vogetables           A86         86         A         1         8         086         Corpete           A87         87         A         1         8         086         Corpete           A88         88							
A76	A74	74	Α	1	8	074	
A77	A75	75	Α	1	8	075	Phartemopey
A78	A76	76	А	1	8	076	Chun chai
A79	A77	77	Α	1	8	077	Garlic
A80							Onion
A81							
A82							
A83         83         A         1         8         OB4         Other vegetables           A84         84         A         1         8         OB4         Other vegetables           A85         86         A         1         8         OB5         Mulpbeans           A87         87         A         1         8         OB6         Coxpea           A88         8         A         1         7         OB8         Decanuts           A89         89         A         1         8         OB9         Peanuts         ground (shelled)           A70         90         A         1         7         O90         Other           A71         91         A         1         8         O99         Decanuts         ground (shelled)           A70         90         A         1         7         O90         Other         Other           A71         91         A         1         8         O92         Sweet ploatoes           A73         3         A         1         8         O92         Sweet ploatoes           A73         7         A         1         8         O95							
A84         84         A         1         8         085         Mungbeans           A86         86         A         1         8         085         Mungbeans           A87         87         A         1         8         087         Other legumes           A88         8         A         1         7         088         Cacounts           A89         89         A         1         8         087         Other legumes           A90         90         A         1         7         090         Other           A90         90         A         1         7         090         Other           A91         91         A         1         8         091         Potatoes           A92         22         A         1         8         092         Sweet potatoes           A93         3         A         1         8         093         Cassava           A94         94         A         1         8         095         Chips and crisps           A96         6         A         1         8         095         Chips and crisps           A97         97	_						
A85         85         A         1         8         085         Mungbeans           A86         86         A         1         8         086         Coxpea           A87         87         A         1         8         087         Other legumes           A88         88         A         1         7         098         Coconuts           A89         9         A         1         7         090         Other           A90         90         A         1         7         090         Other           A91         91         A         1         8         091         Potatoes           A92         92         A         1         8         091         Potatoes           A93         3         A         1         8         094         Amman           A94         A         1         8         094         Amman         096         Other crost and tubers           A95         95         A         1         8         096         Other crost and tubers           A97         97         A         1         9         099         Honey           A100							
A86							-
A88         88         A         1         7         088         Coconuts           A99         89         A         1         8         089         Penanuts, ground (shelled)           A90         90         A         1         7         090         Other           A91         91         A         1         8         091         Potatoes           A92         92         A         1         8         093         Cassava           A94         94         A         1         8         094         Yam           A94         94         A         1         8         093         Cassava           A94         94         A         1         8         094         Yam           A95         95         A         1         8         096         Other roots and tubers           A97         97         A         1         9         097         Sugar           A98         A         1         9         098         Sweets         99           A100         100         A         1         9         100         Ice ream           A101         101 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>							-
A89         89         A         1         8         089         Peanuts, ground (shelled)           A90         90         A         1         7         700         Other           A91         91         A         1         8         091         Potatoes           A92         92         A         1         8         092         Sweet potatoes           A93         93         A         1         8         094         Yam           A94         94         A         1         8         095         Chips and crisps           A95         95         A         1         8         095         Chips and crisps           A96         96         A         1         8         095         Chips and crisps           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Sweets           A99         9         A         1         9         100         Icc cream           A101         101         A         1         10         103         Tea           A102         1	A87	87	А	1	8	087	
A90         90         A         1         7         090         Other           A91         91         A         1         8         092         Poster potatoes           A92         92         A         1         8         092         Sweet potatoes           A93         93         A         1         8         092         Sweet potatoes           A94         94         A         1         8         095         Chips and crisps           A96         96         A         1         8         095         Other roots and tubers           A97         97         A         1         9         099         Sweets           A99         9         A         1         9         099         Honey           A100         100         A         1         9         100         Icc cream           A101         101         A         1         9         101         Other           A102         102         A         1         10         Iob         Crifee           A103         103         A         1         10         Iob         Chocolate drink, e.g. Ovaltine	A88	88	Α	1	7	088	Coconuts
A91         91         A         1         8         091         Potatoes           A92         92         A         1         8         092         Sweet potatoes           A93         93         A         1         8         093         Cassava           A94         94         A         1         8         095         Chips and crisps           A96         96         A         1         8         095         Chips and crisps           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Sweets           A99         99         A         1         9         099         Honey           A100         100         A         1         9         100         Ibe cream           A101         101         A         1         9         100         Ibe cream           A101         101         A         1         9         100         Ibe cream           A101         101         A         1         10         103         Iba           A101         102	A89	89	А	1		089	Peanuts, ground (shelled)
A92         92         A         1         8         092         Sweet potatoes           A93         93         A         1         8         094         Yam           A94         94         A         1         8         094         Yam           A95         95         A         1         8         095         Chips and crisps           A96         96         A         1         8         096         Other roots and tubers           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Honey           A100         100         A         1         9         100         Icc cream           A101         101         A         1         9         100         Icc cream           A102         102         A         1         10         102         Ceffee           A103         103         A         1         10         105         Ceffee           A103         105         A         1         10         105         Ceffee           A103         105							
A93         93         A         1         8         094         Vam           A94         94         A         1         8         094         Vam           A95         95         A         1         8         096         Other roots and tubers           A96         96         A         1         8         096         Other roots and tubers           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Honey           A100         100         A         1         9         100         Icc cream           A100         100         A         1         9         100         Icc cream           A101         101         A         1         9         100         Icc cream           A101         101         A         1         10         Icc cream           A101         104         A         1         10         Icc cream           A103         103         A         1         10         Icc cream           A104         104         A         1         10 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
A94         94         A         1         8         094         Yam           A95         95         A         1         8         095         Chips and crisps           A96         96         A         1         8         096         Chips and crisps           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Honey           A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         100         Ice cream           A101         101         A         1         9         100         Ice cream           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         105         Coffee           A103         103         A         1         10         105         Coffee           A106         106         A         1         11         107         Ifsh/shrimp sauces and paste           A106							,
A95         95         A         1         8         095         Chips and crisps           A96         96         A         1         8         096         Other roots and tubers           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Honey           A100         100         A         1         9         0099         Honey           A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         100         Ice cream           A101         101         A         1         9         100         Ice cream           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         104         Chocolate drink, e.g. Ovaltine           A104         104         A         1         10         105         Other           A106         106         A         1         11         105         Solt           A107<							
A96         96         A         1         8         096         Other roots and tubers           A97         97         A         1         9         097         Sugar           A98         98         A         1         9         098         Sweets           A99         99         A         1         9         099         Honey           A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         100         Ice cream           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         103         Tea           A104         104         A         1         10         105         Other           A105         105         A         1         11         106         Salt           A107         107         A         1         11         107         Fish/shrimp sauces and paste           A108         108         A         1         11         107         Ice salt         11         107         <							
A97         97         A         1         9         097         Sugar           A98         98         A         1         9         099         Neets           A99         99         A         1         9         099         Honey           A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         101         Other           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         103         Tea           A104         104         A         1         10         105         Ther           A105         105         A         1         10         105         Intercept           A106         106         A         1         11         106         Salt           A107         107         A         1         11         108         Tomato sauce           A108         108         A         1         11         109         Soya           A110         110         A							· · · · · · · · · · · · · · · · · · ·
A98         98         A         1         9         098         Sweets           A99         99         A         1         9         099         Honey           A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         100         Other           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         104         Chocolate drink, e.g. Ovaltine           A104         104         A         1         10         104         Chocolate drink, e.g. Ovaltine           A105         105         A         1         10         104         Chocolate drink, e.g. Ovaltine           A106         106         A         1         11         106         Salt           A107         107         A         1         11         106         Salt           A109         109         A         1         11         109         Soya           A110         110         A         1         11         110         Spices and seasoning							
A99         99         A         1         9         099         Honey           A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         101         Other           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         103         Tea           A104         104         A         1         10         105         Other           A106         106         A         1         11         106         Salt           A107         107         A         1         11         107         Fish/shrimp sauces and paste           A108         108         A         1         11         107         Bish/shrimp sauces and paste           A109         109         A         1         11         107         Bish/shrimp sauces and paste           A110         110         A         1         11         107         Bispes and seasoning           A111         111         109         Soya         Soya         Air Intin Intin Intin Intin In							3
A100         100         A         1         9         100         Ice cream           A101         101         A         1         9         101         Other           A102         102         A         1         10         102         Coffee           A103         103         A         1         10         103         Tea           A104         104         A         1         10         105         Other           A105         105         A         1         10         105         Other           A106         106         A         1         11         106         Salt           A107         107         A         1         11         106         Salt           A107         107         A         1         11         108         Tomato sauce           A109         109         A         1         11         108         Soya           A110         110         A         1         11         110         Spices and seasoning           A111         111         A         1         11         111         Baking powder           A111         111 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
A102	A100	100	Α	1	9	100	
A103	A101	101	Α	1	9	101	Other
A104         104         A         1         10         104         Chocolate drink, e.g. Ovaltine           A105         105         A         1         10         105         Other           A106         106         A         1         11         106         Salt           A107         107         A         1         11         107         Fish/shrimp sauces and paste           A108         108         A         1         11         107         Fish/shrimp sauces and paste           A109         109         A         1         11         109         Soya           A110         110         A         1         11         110         Spices and seasoning           A111         111         A         1         11         111         Balicy powder           A111         111         A         1         11         112         Vinegar           A113         113         A         1         11         112         Vinegar           A113         113         A         1         11         112         Vinegar           A113         113         A         1         10         114 <td< td=""><td>A102</td><td>102</td><td>Α</td><td>1</td><td>10</td><td>102</td><td>Coffee</td></td<>	A102	102	Α	1	10	102	Coffee
A105							
A106         106         A         1         11         106         Salt           A107         107         A         1         11         107         Fish/shrimp sauces and paste           A108         108         A         1         11         108         Tomato sauce           A109         109         A         1         11         109         Soya           A110         110         A         1         11         110         Soyea           A111         111         A         1         11         110         Soyea           A111         111         A         1         11         110         Soyea           A111         111         A         1         11         112         Soyea           A111         111         A         1         11         111         Baking powder           A113         113         A         1         11         112         Vinegar           A114         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         115         Butled water							
A107         107         A         1         11         107         Fish/shrimp sauces and paste           A108         108         A         1         11         108         Tomato sauce           A109         109         A         1         11         109         Soya           A110         110         A         1         111         110         Spices and seasoning           A111         111         A         1         11         110         Spices and seasoning           A111         111         A         1         111         111         Balting powder           A112         112         A         1         11         112         Vinegar           A113         113         A         1         11         112         Vinegar           A114         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         114         Fruit juice, squashes           A115         116         A         1         10         116         Other, specify           A115         116         A         1         10         116							
A108         108         A         1         11         108         Tomato sauce           A109         109         A         1         11         109         Soya           A110         110         A         1         111         110         Spices and seasoning           A111         111         A         1         11         110         Spices and seasoning           A111         111         A         1         11         111         Baking powder           A112         112         A         1         11         112         Vinegar           A113         113         A         1         11         112         Vinegar           A114         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         114         Fruit juice, squashes           A116         116         A         1         10         115         Bottled water           A116         116         A         1         10         115         Bottled water           A117         117         B         11         33         117 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
A109         109         A         1         11         109         Soya           A110         110         A         1         11         110         Spices and seasoning           A111         111         A         1         11         111         Baking powder           A112         112         A         1         11         112 Vinegar           A113         113         A         1         11         112 Vinegar           A114         114         A         1         11         113 Other, specify           A114         114         A         1         10         114 Fruit juice, squashes           A115         115         A         1         10         115 Bottled water           A116         116         A         1         10         116 Other soft drinks (non-alcohol)           B117         117         B         11         33         117 Beer (bought in shops)           B118         118         B         11         33         117 Beer (bought in shops, etc.)           B119         119         B         11         33         119 Lao Lao (bought in shops, etc.)           B120         120         B							
A110         110         A         1         111         110         Spices and seasoning           A111         111         111         A         1         111         111         Baking powder           A112         112         A         1         11         112         Vinegar           A113         113         A         1         11         112         Vinegar           A114         114         A         1         11         113         Other, specify           A115         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         115         Bottled water           A116         116         A         1         10         115         Bottled water           A116         116         A         1         10         116         Other soft drinks (non-alcohol)           B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         119         Lao (bought in shops, etc.)           B120         120         B <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
A111         111         A         1         11         111         Baking powder           A112         112         A         1         11         112         Vinegar           A113         113         A         1         11         113         Other, specify           A114         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         115         Bottled water           A116         116         A         1         10         115         Other soft drinks (non-alcohol)           B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         119         Lao Lao (bought in shops, etc.)           B119         119         B         11         33         120         Lao Lao (taken at bars, etc.)           B120         120         B         11         33         121         Other alcohol (bought in shops, etc.)           B121         121         B         11         33         122         Other alcohol (bought in shops, etc.)           B122							
A113         113         A         1         11         113         Other, specify           A114         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         115         Bottled water           A116         116         A         1         10         116         Other soft drinks (non-alcohol)           B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         118         Beer (taken at bars, etc.)           B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         122         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B122         122         B         11         33         122         Other alcohol (tobught in shops, etc.)							
A114         114         A         1         10         114         Fruit juice, squashes           A115         115         A         1         10         115         Bottled water           A116         116         A         1         10         116         Other soft drinks (non-alcohol)           B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         118         Beer (taken at bars, etc.)           B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         122         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (bought in shops, etc	A112	112	А	1	11	112	Vinegar
A115         115         A         1         10         115         Bottled water           A116         116         A         1         10         116         Other soft drinks (non-alcohol)           B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         118         Beer (taken at bars, etc.)           B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         120         Lao Lao (taken at bars, etc.)           B122         122         B         11         33         120         Lao Lao (taken at bars, etc.)           B122         122         B         11         33         122         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         122         Other alcohol (taken	A113	113	Α	1	11	113	Other, specify
A116         116         A         1         10         116         Other soft drinks (non-alcohol)           B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         118         Beer (taken at bars, etc.)           B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         122         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         122         Other alcohol (taken at bars, etc.)           B125         125         B         11         33         124         Cigarettes           B124         124         B         11         33         125         Pipe tobac	A114	114	А	1	10	114	Fruit juice, squashes
B117         117         B         11         33         117         Beer (bought in shops)           B118         118         B         11         33         118         Beer (taken at bars, etc.)           B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         121         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         123         Tobacco for cigarettes           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         128         Ordinary rice           C128							
B118         118         B         11         33         118         Beer (taken at bars, etc.)           B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         121         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables							
B119         119         B         11         33         119         Lao Lao (bought in shops, etc.)           B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         121         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         122         Other alcohol (taken at bars, etc.)           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         124         Cigarettes           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         128         Ordinary rice							
B120         120         B         11         33         120         Lao Lao (taken at bars, etc.)           B121         121         B         11         33         121         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         123         Tobacco for cigarettes           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C							
B121         121         B         11         33         121         Other alcohol (bought in shops, etc.)           B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         123         Tobacco for cigarettes           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2							
B122         122         B         11         33         122         Other alcohol (taken at bars, etc.)           B123         123         B         11         33         123         Tobacco for cigarettes           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         134<							
B123         123         B         11         33         123         Tobacco for cigarettes           B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         <							
B124         124         B         11         33         124         Cigarettes           B125         125         B         11         33         125         Pipe tobacco           B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         136         C         2         18         135         Veg							
B126         126         B         11         33         126         Other smokables           C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown							Š
C127         127         C         2         13         127         Glutinous rice           C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown	B125	125	В	11	33	125	Pipe tobacco
C128         128         C         2         13         128         Ordinary rice           C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown	B126	126	В	11	33	126	Other smokables
C129         129         C         2         14         129         Maize           C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown		127		2	13	127	Glutinous rice
C130         130         C         2         14         130         Other grain crops           C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown					13		Ordinary rice
C131         131         C         2         18         131         Cassava           C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown							
C132         132         C         2         18         132         Sweet potatoes           C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown							
C133         133         C         2         18         133         Other roots and tubers           C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown							
C134         134         C         2         18         134         Vegetables, grown           C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown							
C135         135         C         2         18         135         Vegetables collected (growing naturally)           C136         136         C         2         17         136         Fruits, grown							
C136 136 C 2 17 136 Fruits, grown							
							3 9 9 9
	C137	137	С	2	17	137	Fruits collected (growing naturally)

	1	1	1			
C138	138	С	2	15	138	Poultry and poultry products
C139	139	С	2	15	139	Own raised pigs (whole or parts)
C140	140	С	2	15	140	Own raised cattle (whole or parts)
_						
C141	141	С	2	15	141	Own goats (whole or parts)
C142	142	С	2	15	142	Other livestock raised (rabbits,)
C143	143	С	2	15	143	Hunted or trapped animals
C144	144	С	2	16	144	Fish cultivated
C145	145	С	2	16	145	Fish, captured naturally grown
						. , , ,
C146	146	С	2	19	146	Coffee
C147	147	С	2	19	147	Tea
C148	148	С	2	17	148	Coconut
C149	149	С	2	19	149	Soybean
						-
C150	150	С	2	19	150	Cardamon
C151	151	С	2	19	151	Citronella
C152	152	С	2	19	152	Areca
C153	153	С	2	19	153	Ginger
C154	154	С	2	19	154	
						Other industrial crops
C155	155	С	2	19	155	Other own products, specify
D162	162	D	3	20	156	Jeans
D163	163	D	3	20	157	Other trousers
D164	164	D	3	20	158	Jackets
D165	165	D	3	20	159	Sportswear
D166	166	D	3	20	160	Suits
D167	167	D	3	20	161	T-shirts
D168	168	D	3	20	162	Shirts
D169	169	D	3	20	163	Underwear
D170	170	D	3	20	164	Others
D171	171	D	3	20	165	Lao skirt
D172	172	D	3	20	166	Other skirt
D173	173	D	3	20	167	
						Suits, dresses
D174	174	D	3	20	168	Blouse
D175	175	D	3	20	169	T-shirt
D176	176	D	3	20	170	Jeans
D177	177	D	3	20	171	Other trousers
D178	178	D	3	20	172	Others
D179	179	D	3	20	173	Shorts
D180	180	D	3	20	174	Trousers
D181	181	D	3	20	175	Skirt
D182	182	D	3	20	176	T-shirt
D183	183	D	3	20	177	Shirts
D184	184	D	3	20	178	Dresses
D185	185	D	3	20	179	Blouses
D186	186	D	3	20	180	Others
_						
D187	187	D	3	20	181	Tailoring charges
D188	188	D	3	20	182	Cloth, materials for tailoring
D189	189	D	3	20	183	Footwear
E190	190	Е	4	21	184	Gross rent of house or flat (furnished or unfurnished)
		E		97		
E191	191		20		185	Material for repair/maintenance of house
E192	192	E	20	97	186	Labour cost for repair/maintenance of house
E193	193	E	20	97	187	Material + labour if not possible to separate
E194	194	E	4	24	188	Water charges
E195	195	Е	4	24	189	Electricity
		-				i
	10/	-	А	2.4		Voracana
E196	196	E	4	24	190	Kerosene
E196 E197	196 197	E E	4	24 24		Kerosene Charcoal
					190	
E197 E198	197	E E	4	24	190 191	Charcoal Firewood (purchased)
E197 E198 E199	197 198 199	E E E	4 4 4	24 24 23	190 191 192 193	Charcoal Firewood (purchased) Firewood (own produced)
E197 E198 E199 E200	197 198 199 200	E E E	4 4 4 4	24 24 23 24	190 191 192 193 194	Charcoal Firewood (purchased) Firewood (own produced) Other
E197 E198 E199	197 198 199	E E E F	4 4 4 4 5	24 24 23	190 191 192 193	Charcoal Firewood (purchased) Firewood (own produced)
E197 E198 E199 E200	197 198 199 200	E E E	4 4 4 4	24 24 23 24	190 191 192 193 194	Charcoal Firewood (purchased) Firewood (own produced) Other
E197 E198 E199 E200 F201	197 198 199 200 201	E E E F	4 4 4 4 5	24 24 23 24 25	190 191 192 193 194 195	Charcoal Firewood (purchased) Firewood (own produced) Other Beds
E197 E198 E199 E200 F201 F202 F203	197 198 199 200 201 202 203	E E E F F	4 4 4 4 5 5 5	24 24 23 24 25 25 25	190 191 192 193 194 195 196 197	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard
E197 E198 E199 E200 F201 F202 F203 F204	197 198 199 200 201 202 203 204	E E E F F F F	4 4 4 5 5 5 5	24 24 23 24 25 25 25 25	190 191 192 193 194 195 196 197	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite
E197 E198 E199 E200 F201 F202 F203 F204 F205	197 198 199 200 201 202 203 204 205	E E E F F F	4 4 4 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite
E197 E198 E199 E200 F201 F202 F203 F204	197 198 199 200 201 202 203 204	E E E F F F F	4 4 4 5 5 5 5	24 24 23 24 25 25 25 25	190 191 192 193 194 195 196 197	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite
E197 E198 E199 E200 F201 F202 F203 F204 F205	197 198 199 200 201 202 203 204 205	E E E F F F	4 4 4 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207	197 198 199 200 201 202 203 204 205 206 207	E E E F F F F	4 4 4 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208	197 198 199 200 201 202 203 204 205 206 207 208	E E E F F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208 F209	197 198 199 200 201 202 203 204 205 206 207 208	E E E E F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201 202 203	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others Repair of furniture
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208	197 198 199 200 201 202 203 204 205 206 207 208	E E E F F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208 F209	197 198 199 200 201 202 203 204 205 206 207 208	E E E E F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201 202 203	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others Repair of furniture
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208 F209 F210	197 198 199 200 201 202 203 204 205 206 207 208 209 210	E E E F F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others Repair of furniture Mats and rugs Bed sheets
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208 F209 F210 F211 F212	197 198 199 200 201 202 203 204 205 206 207 208 209 210 211	E E E E F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others Repair of furniture Mats and rugs Bed sheets Blankets
E197 E198 E199 E200 F201 F202 F203 F204 F205 F206 F207 F208 F209 F210	197 198 199 200 201 202 203 204 205 206 207 208 209 210	E E E F F F F F F F F F F F F F F F F F	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	24 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	Charcoal Firewood (purchased) Firewood (own produced) Other Beds Tables, chairs sofas Cupboard Dining room suite Lounge suite Desks and sideboards Stools and benches Others Repair of furniture Mats and rugs Bed sheets

F215   215   F				1			
Fig. 12	F215	215	F	5	25	209	Table cloth, napkins/serviettes
Fig.   198	F216	216	F	5	25	210	Others
Fig.   1919	F217	217	F	5	25	211	Repair of textiles
Fig.   1919	F218	218	F	5	25		
							,
F221   221   F   5   25   25   215   Flowers, flower poils							
F224   223   F   5   25   25   217   .amps, pictures	F221	221	F	5	25	215	Flowers, flower pots
F226	F222	222	F	5	25	216	Repair of furnishings
F226   225	F223	223	F	5	25	217	Lamps, pictures
F226	F224	224	F	5	25	218	Others
F226	F225	225	F	5	25	219	Steam rice cooker
F221   227							
F229   229	<b>—</b>						
F229							
F230	F228	228			25	222	Rice basket
F231   231	F229	229	F	5	25	223	Bucket
F232   232   F   5   25   226   Iron (electric, non-electric)     F233   233   F   5   25   227   Air conditioner     F234   234   F   5   25   228   Electric fran     F235   235   F   5   25   229   Sewing machine     F236   236   F   5   25   230   Washing machine     F237   237   F   5   25   231   Other, specify     F238   238   F   5   25   231   Repair of household appliances     F239   239   F   5   25   232   Classware (glasses, glass bowls, etc.)     F240   240   F   5   25   233   Classware (glasses, glass bowls, etc.)     F241   241   F   5   25   235   Pales and cups     F242   242   F   5   25   238   Pales and cups     F243   243   F   5   25   238   Pales and cups     F244   244   F   5   25   238   Pales and cups     F245   246   F   5   25   239   Pales and cups     F246   246   F   5   25   239   Pales and cups     F247   247   F   5   25   239   Pales and cups     F248   248   F   5   25   239   Pales and cups     F249   249   F   5   25   240   Other tools     F240   240   F   5   25   241   Repair of utensils     F241   247   F   5   25   241   Repair of utensils     F242   249   F   5   25   241   Repair of utensils     F243   249   F   5   25   243   Candies     F250   250   F   5   25   244   Matches     F251   251   F   5   25   245   Mose and brushes     F252   252   F   5   25   248   Polish (urniture, floor, metal)     F253   253   F   5   25   25   25   26   Matches     F254   254   F   5   25   25   25   26   Matches     F255   256   F   5   25   25   25   Medicines     F260   260   F   5   25   25   26   Matches     F261   251   F   5   25   25   25   Matches     F262   262   F   5   25   25   26   Matches     F263   256   F   5   25   25   26   Matches     F264   264   F   5   25   25   26   Matches     F265   256   F   5   25   25   26   Matches     F266   266   6   6   6   26   26   26	F230	230	F	5	25	224	Stove with or without oven (gas or electric)
F234   234   F   5   25   227   Air conditioner     F234   234   F   5   25   228   Electric fan     F235   236   F   5   25   229   Sewing machine     F236   236   F   5   25   229   Sewing machine     F237   237   F   5   25   231   Other, specify     F237   237   F   5   25   231   Other, specify     F238   238   F   5   25   232   Cutlery (knives, spoors, forks, etc.)     F239   239   F   5   25   233   Cutlery (knives, spoors, forks, etc.)     F240   240   F   5   25   233   Cutlery (knives, spoors, forks, etc.)     F241   241   F   5   25   233   Classware (glasses, glass bowk, etc.)     F242   242   F   5   25   236   Fas set     F243   243   F   5   25   237   Colorer     F244   244   F   5   25   238   Other     F245   245   F   5   25   239   Tools for gardening     F246   246   F   5   25   239   Tools for gardening     F246   246   F   5   25   241   Repair of utensits     F247   247   F   5   25   242   Bulbs     F248   249   F   5   25   243   Candidus     F250   250   F   5   25   244   Torches     F251   251   251   251   261   Mojs and brushes     F252   252   F   5   25   248   Dother     F253   253   F   5   25   249   Shoe brush and polish     F256   256   F   5   25   258   248   Dother     F257   257   F   5   25   258   Domestic wages in road     F258   258   F   5   25   258   Domestic wages in road     F260   260   F   5   25   258   Domestic wages in road     F261   261   F   5   25   258   Domestic wages in road     F262   262   F   5   25   258   Domestic wages in road     F263   265   G   6   26   269   Payment for knoshold services     F264   264   G   6   26   269   Payment for knoshold services     F265   267   G   6   26   269   Payment for knoshold services     F266   267   G   6   26   269   Payment for knoshold services     F267   277   H   7   27   266   Others, specify     H277   277   H   7   27   271   Diesel oil     H278   282   H   7   27   277   Diesel oil     H282   282   H   7   27   277   Farse on boads     H283   283   H   7   27   277   Farse on boads     H284	F231	231	F	5	25	225	Refrigerator/deep freezer
F234         234         F         5         25         228         Electric fan           F236         236         F         5         25         229         Sowing machine           F237         236         F         5         25         230         Washing machine           F237         237         F         5         25         231         Other, specify           F238         238         F         5         25         231         Other, specify           F239         239         F         5         25         232         Repair of household appliances           F240         240         F         5         25         234         College of Noves, spoons, forks, etc.)           F241         241         F         5         25         235         Plates and Uses           F241         241         F         5         25         236         Plates and Uses           F242         242         F         5         25         238         Other           F244         244         F         5         25         239         Other           F244         244         F         5         25	F232	232	F	5	25	226	Iron (electric, non-electric)
F234         234         F         5         25         228         Electric fan           F236         236         F         5         25         229         Sowing machine           F237         236         F         5         25         230         Washing machine           F237         237         F         5         25         231         Other, specify           F238         238         F         5         25         231         Other, specify           F239         239         F         5         25         232         Repair of household appliances           F240         240         F         5         25         234         College of Noves, spoons, forks, etc.)           F241         241         F         5         25         235         Plates and Uses           F241         241         F         5         25         236         Plates and Uses           F242         242         F         5         25         238         Other           F244         244         F         5         25         239         Other           F244         244         F         5         25	F233	233	F	5	25	227	Air conditioner
F235   235	-						
F236							
F237							
F238         238         F         5         25         232         Repair of household appliances           F239         239         F         5         25         233         Cultery (knives, spoons, forks, etc.)           F241         240         F         5         25         234         Classware (glasses, glass bowls, etc.)           F241         241         F         5         25         235         Palase and cups           F242         242         F         5         25         237         Dinner set           F243         243         F         5         25         237         Dinner set           F244         244         F         5         25         237         Tools for gardening           F245         246         F         5         25         239         Tools for gardening           F240         246         F         5         25         240         Other tools           F247         247         F         5         25         241         Repair of utensits           F249         249         F         5         25         243         Candles           F250         250         F <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
F239							
F240         240         F         5         25         234         Glassware (glasses, glass bowls, etc.)           F241         241         F         5         25         235         Plates and cups           F242         242         F         5         25         237         Tons or the control of the con	F238	238	F	5	25	232	Repair of household appliances
F241         241         F         5         25         235         Plates and cups           F242         242         F         5         25         236         Tea set           F243         243         F         5         25         237         Dinner set           F244         244         F         5         25         238         Other           F245         245         F         5         25         240         Other tools           F247         247         F         5         25         240         Other tools           F248         248         F         5         25         240         Dibbs           F249         249         F         5         25         242         Bulbs           F250         250         F         5         25         244         More sand brushes           F251         251         F         5         25         244         More sand brushes           F251         251         F         5         25         244         More sand brushes           F251         251         F         5         25         247         Meedles and pins	F239	239	F	5	25	233	Cutlery (knives, spoons, forks, etc.)
F241	F240	240	F	5	25	234	Glassware (glasses, glass bowls, etc.)
F242	F241	241	F	5	25	235	Plates and cups
F243         243         F         5         25         237         Dinner set           F244         244         F         5         25         238         Other           F245         245         F         5         25         239         Tools for gardening           F246         246         F         5         25         240         Other tools           F247         247         F         5         25         241         Repair of utensils           F248         248         F         5         25         242         Bulbs           F250         250         F         5         25         243         Candles           F250         250         F         5         25         244         Torches           F251         F         5         25         244         Torches           F251         F         5         25         244         Morbas           F252         252         F         5         25         247         Needles and pins           F252         251         F         5         25         247         Needles and pins           F252         254							'
F244         244         F         5         25         238         Other           F245         246         F         5         25         239         Tools for gardening           F247         246         F         5         25         240         Other tools           F247         247         F         5         25         241         Repair of utensils           F248         248         F         5         25         242         Bulbs           F249         249         F         5         25         243         Candles           F250         250         F         5         25         244         Torches           F251         251         F         5         25         245         Mops and brushes           F253         253         F         5         25         246         Matches           F253         253         F         5         25         246         Matches           F253         253         F         5         25         249         Noe Drush and polish           F253         254         F         5         25         25         249         Shoe brush							
F245         245         F         5         25         239         Tools for gardening           F246         246         F         5         25         240         Other tools           F247         247         F         5         25         241         Bubs           F248         248         F         5         25         242         Bubs           F249         249         F         5         25         243         Candles           F250         250         F         5         25         244         Torches           F251         251         F         5         25         244         Matches           F252         252         F         5         25         248         Matches           F253         253         F         5         25         248         Molsh (furniture, floor, metal)           F255         252         F         5         25         248         Polish (furniture, floor, metal)           F255         255         F         5         25         249         Shoe brush and polish           F255         256         F         5         25         250         So	_						
F246         246         F         5         25         240         Other tools           F247         247         F         5         25         241         Repair of utensils           F248         248         F         5         25         242         Bulbs           F249         249         F         5         25         242         Bulbs           F250         250         F         5         25         244         Torches           F251         251         F         5         25         244         Morps and brushes           F252         252         F         5         25         244         Morps and brushes           F252         252         F         5         25         245         Morps and brushes           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         249         Noe brush and polish           F255         255         F         5         25         25         248         Polish (furniture, floor, metal)           F256         257         F         5         25							
F247         247         F         5         25         241         Repair of utensils           F248         248         F         5         25         242         Bulbs           F249         249         F         5         25         243         Candles           F250         250         F         5         25         244         Torches           F251         251         F         5         25         244         Mobps and brushes           F252         252         F         5         25         246         Matches           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         247         Needles and pins           F254         254         F         5         25         247         Needles and pins           F254         254         F         5         25         247         Needles and pins           F254         254         F         5         25         250         Soap laundry           F255         255         F         5         25         250         Soap laundry <td>F245</td> <td>245</td> <td>F</td> <td>5</td> <td>25</td> <td>239</td> <td>Tools for gardening</td>	F245	245	F	5	25	239	Tools for gardening
F248         248         F         5         25         242         Bulbs           F249         249         F         5         25         243         Candles           F250         250         F         5         25         244         Torches           F251         251         F         5         25         245         Mops and brushes           F252         252         F         5         25         246         Matches           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         248         Polish (furniture, floor, metal)           F255         254         F         5         25         249         Shoe brush and polish           F255         254         F         5         25         25         280         Sapa laundry           F256         256         F         5         25         251         Batteries           F257         257         F         5         25         251         Batteries           F259         259         F         5         25         252	F246	246	F	5	25	240	Other tools
F249	F247	247	F	5	25	241	Repair of utensils
F250         250         F         5         25         244         Torches           F251         251         F         5         25         245         Mops and brushes           F252         252         F         5         25         246         Matches           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         248         Polish (furniture, floor, metal)           F255         255         F         5         25         249         Shoe brush and polish           F256         256         F         5         25         250         Soap laundry           F256         256         F         5         25         251         Batteries           F257         257         F         5         25         251         Batteries           F258         258         F         5         25         251         Uhrer household goods           F259         259         F         5         25         253         Other household goods           F261         261         F         5         25         25	F248	248	F	5	25	242	Bulbs
F250         250         F         5         25         244         Torches           F251         251         F         5         25         245         Mops and brushes           F252         252         F         5         25         246         Matches           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         248         Polish (furniture, floor, metal)           F255         255         F         5         25         249         Shoe brush and polish           F256         256         F         5         25         250         Soap laundry           F256         256         F         5         25         251         Batteries           F257         257         F         5         25         251         Batteries           F258         258         F         5         25         251         Uhrer household goods           F259         259         F         5         25         253         Other household goods           F261         261         F         5         25         25	F249	249	F	5	25	243	Candles
F251         251         F         5         25         245         Mops and brushes           F252         252         F         5         25         246         Matches           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         248         Polish (furniture, floor, metal)           F255         255         F         5         25         249         Shoe brush and polish           F256         256         F         5         25         250         Soap laundry           F257         257         F         5         25         251         Batteries           F258         258         F         5         25         251         Batteries           F258         258         F         5         25         253         Other fousehold goods           F269         259         F         5         25         253         Other household goods           F260         260         F         5         25         255         Other household services           F261         261         F         5         25 <td><b>—</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	<b>—</b>						
F252         252         F         5         25         246         Matches           F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         248         Pollsh (furniture, floor, metal)           F255         255         F         5         25         249         Shoe brush and polish           F256         256         F         5         25         250         Soap laundry           F257         257         F         5         25         251         Batteries           F258         258         F         5         25         252         Hire of furniture and household equipment           F259         259         F         5         25         251         Batteries           F260         260         F         5         25         253         Other household goods           F261         261         F         5         25         253         Domestic wages in cash           F262         262         F         5         25         255         Other household services           G263         263         G <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
F253         253         F         5         25         247         Needles and pins           F254         254         F         5         25         248         Polish (furniture, floor, metal)           F255         255         F         5         25         249         Shoe brush and polish           F256         256         F         5         25         250         Soap laundry           F257         257         F         5         25         251         Batteries           F258         258         F         5         25         252         Hire of furniture and household equipment           F259         259         F         5         25         251         Batteries           F259         259         F         5         25         254         Domestic wages in kind           F260         260         F         5         25         255         Domestic wages in cash           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         255         Other household services           G263         263         G							
F254							Matches
F255         255         F         5         25         249         Shoe brush and polish           F256         256         F         5         25         250         Soap laundry           F257         257         F         5         25         251         Batteries           F258         258         F         5         25         252         Hire of furniture and household equipment           F259         259         F         5         25         253         Other household goods           F260         260         F         5         25         254         Domestic wages in kind           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         255         Obmestic wages in cash           F262         262         F         5         25         255         Obmestic wages in cash           F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           The common and common and common and common and c	F253	253	F	5	25	247	Needles and pins
F256   256   F   5   25   250   Soap laundry	F254	254	F	5	25	248	Polish (furniture, floor, metal)
F257         257         F         5         25         251         Batteries           F258         258         F         5         25         252         Hire of furniture and household equipment           F259         259         F         5         25         253         Other household goods           F260         260         F         5         25         254         Domestic wages in kind           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G264         264         G         6         26         259         Payment for hospital services medical aid, fees           G265         267         G         6         26         261         Sickness and accident insurance s	F255	255	F	5	25	249	Shoe brush and polish
F258         258         F         5         25         252         Hire of furniture and household equipment           F259         259         F         5         25         253         Other household goods           F260         260         F         5         25         254         Domestic wages in kind           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         259         Payment for hospital services medical aid, fees           G267         267         G         6         26         260         Non-hospital and paramedical services           G268         268         G         6         26         261         Sickn	F256	256	F	5	25	250	Soap laundry
F258         258         F         5         25         252         Hire of furniture and household equipment           F259         259         F         5         25         253         Other household goods           F260         260         F         5         25         254         Domestic wages in kind           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         259         Payment for hospital services medical aid, fees           G267         267         G         6         26         260         Non-hospital and paramedical services           G268         268         G         6         26         261         Sickn	F257	257	F	5	25	251	Batteries
F259         259         F         5         25         25         254         Domestic wages in kind           F260         260         F         5         25         254         Domestic wages in kind           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H270         267         H         7         27         263         Motor cars and vans							
F260         260         F         5         25         254         Domestic wages in kind           F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         255         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         259         Payment for hospital services medical aid, fees           G265         265         G         6         26         269         Payment for hospital services medical aid, fees           G266         266         G         6         26         269         Payment for hospital services medical aid, fees           G267         267         267         Color to the services         Medicines           G268         268         G         6         26         261         Other							1 1
F261         261         F         5         25         255         Domestic wages in cash           F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         261         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271							5
F262         262         F         5         25         256         Other household services           G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         261         Sickness and accident insurance services           H270         269         H         7         27         263         Motor cars and vans           H270         269         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271         271         H         7         27         266         Others, specify	<b>—</b>						3
G263         263         G         6         26         257         Medicines           G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271         271         H         7         27         266         Others, specify           H273         273         H         7         27         267         Tyres and tubes           H274         274	F261	261	F	5	25	255	Domestic wages in cash
G264         264         G         6         26         258         Therapeutic appliances and equipment           G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271         271         H         7         27         266         Others, specify           H273         273         H         7         27         267         Tyres and tubes           H274         274         H         7         27         268         Parts and accessories incl. car batteries <td< td=""><td>F262</td><td>262</td><td>F</td><td>5</td><td>25</td><td>256</td><td>Other household services</td></td<>	F262	262	F	5	25	256	Other household services
G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271         271         H         7         27         266         Others, specify           H272         272         H         7         27         266         Others, specify           H273         273         H         7         27         266         Parts and accessories incl. car batteries           H274         274         H         7         27         269         Repair charges           H275 <td< td=""><td>G263</td><td>263</td><td>G</td><td>6</td><td>26</td><td>257</td><td>Medicines</td></td<>	G263	263	G	6	26	257	Medicines
G265         265         G         6         26         259         Payment for hospital services medical aid, fees           G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271         271         H         7         27         266         Others, specify           H272         272         H         7         27         266         Others, specify           H273         273         H         7         27         266         Parts and accessories incl. car batteries           H274         274         H         7         27         269         Repair charges           H275 <td< td=""><td>G264</td><td>264</td><td>G</td><td>6</td><td>26</td><td>258</td><td>Therapeutic appliances and equipment</td></td<>	G264	264	G	6	26	258	Therapeutic appliances and equipment
G266         266         G         6         26         260         Non-hospital and paramedical services           G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H271         271         H         7         27         266         Others, specify           H272         272         H         7         27         266         Others, specify           H273         273         H         7         27         268         Parts and tubes           H274         274         H         7         27         268         Parts and tubes           H275         275         H         7         27         269         Repair charges           H276         276         H         7 <t< td=""><td><b>—</b></td><td>265</td><td>G</td><td>6</td><td>26</td><td>259</td><td></td></t<>	<b>—</b>	265	G	6	26	259	
G267         267         G         6         26         261         Sickness and accident insurance services           G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H272         272         H         7         27         266         Others, specify           H273         273         H         7         27         266         Others, specify           H274         274         H         7         27         266         Parts and accessories incl. car batteries           H275         275         H         7         27         268         Parts and accessories incl. car batteries           H276         276         H         7         27         269         Repair charges           H277         277         H         7         27         270         Gasoline, petrol           H277         277         H <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-						
G268         268         G         6         26         262         Other           H269         269         H         7         27         263         Motor cars and vans           H270         270         H         7         27         264         Motor cycles           H271         271         H         7         27         265         Bicycles           H272         272         H         7         27         266         Others, specify           H273         273         H         7         27         266         Others, specify           H274         274         H         7         27         266         Parts and accessories incl. car batteries           H275         275         H         7         27         269         Repair charges           H276         276         H         7         27         270         Gasoline, petrol           H277         277         H         7         27         271         Diesel oil           H278         278         H         7         27         272         Other oil and greases           H280         280         H         7         27         <							
H269   269							
H270   270   H   7   27   264   Motor cycles     H271   271   H   7   27   265   Bicycles     H272   272   H   7   27   266   Others, specify     H273   273   H   7   27   267   Tyres and tubes     H274   274   H   7   27   268   Parts and accessories incl. car batteries     H275   275   H   7   27   269   Repair charges     H276   276   H   7   27   270   Gasoline, petrol     H277   277   H   7   27   271   Diesel oil     H278   278   H   7   27   272   Other oil and greases     H279   279   H   7   27   273   Servicing     H280   280   H   7   27   275   Fares on buses (excl. school bus fares)     H281   281   H   7   27   276   Fares on taxis and tuc tuc     H283   283   H   7   27   278   Tickets on domestic airlines							
H271   271		269	Н			263	Motor cars and vans
H272   272   H	H270	270	Н	7	27	264	Motor cycles
H273   273   H   7   27   267   Tyres and tubes     H274   274   H   7   27   268   Parts and accessories incl. car batteries     H275   275   H   7   27   269   Repair charges     H276   276   H   7   27   270   Gasoline, petrol     H277   277   H   7   27   271   Diesel oil     H278   278   H   7   27   272   Other oil and greases     H279   279   H   7   27   273   Servicing     H280   280   H   7   27   274   Miscellaneous charges     H281   281   H   7   27   275   Fares on buses (excl. school bus fares)     H282   282   H   7   27   276   Fares on boats     H284   284   H   7   27   278   Tickets on domestic airlines	H271	271	Н	7	27	265	Bicycles
H273   273   H   7   27   267   Tyres and tubes     H274   274   H   7   27   268   Parts and accessories incl. car batteries     H275   275   H   7   27   269   Repair charges     H276   276   H   7   27   270   Gasoline, petrol     H277   277   H   7   27   271   Diesel oil     H278   278   H   7   27   272   Other oil and greases     H279   279   H   7   27   273   Servicing     H280   280   H   7   27   274   Miscellaneous charges     H281   281   H   7   27   275   Fares on buses (excl. school bus fares)     H282   282   H   7   27   276   Fares on boats     H284   284   H   7   27   278   Tickets on domestic airlines	H272	272	Н	7	27	266	Others, specify
H274   274   H   7   27   268   Parts and accessories incl. car batteries     H275   275   H   7   27   269   Repair charges     H276   276   H   7   27   270   Gasoline, petrol     H277   277   H   7   27   271   Diesel oil     H278   278   H   7   27   272   Other oil and greases     H279   279   H   7   27   273   Servicing     H280   280   H   7   27   274   Miscellaneous charges     H281   281   H   7   27   275   Fares on buses (excl. school bus fares)     H282   282   H   7   27   276   Fares on boats     H284   284   H   7   27   278   Tickets on domestic airlines							
H275         275         H         7         27         269         Repair charges           H276         276         H         7         27         270         Gasoline, petrol           H277         277         H         7         27         271         Diesel oil           H278         278         H         7         27         272         Other oil and greases           H279         279         H         7         27         273         Servicing           H280         280         H         7         27         274         Miscellaneous charges           H281         281         H         7         27         275         Fares on buses (excl. school bus fares)           H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines							
H276   276   H     7   27   270   Gasoline, petrol     H277   277   H     7   27   271   Diesel oil     H278   278   H     7   27   272   Other oil and greases     H279   279   H     7   27   273   Servicing     H280   280   H     7   27   274   Miscellaneous charges     H281   281   H     7   27   275   Fares on buses (excl. school bus fares)     H282   282   H     7   27   276   Fares on boats     H284   284   H     7   27   278   Tickets on domestic airlines							
H277   277   H   7   27   271   Diesel oil     H278   278   H   7   27   272   Other oil and greases     H279   279   H   7   27   273   Servicing     H280   280   H   7   27   274   Miscellaneous charges     H281   281   H   7   27   275   Fares on buses (excl. school bus fares)     H282   282   H   7   27   276   Fares on boats     H283   283   H   7   27   277   Fares on boats     H284   284   H   7   27   278   Tickets on domestic airlines							
H278         278         H         7         27         272         Other oil and greases           H279         279         H         7         27         273         Servicing           H280         280         H         7         27         274         Miscellaneous charges           H281         281         H         7         27         275         Fares on buses (excl. school bus fares)           H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines							
H279         279         H         7         27         273         Servicing           H280         280         H         7         27         274         Miscellaneous charges           H281         281         H         7         27         275         Fares on buses (excl. school bus fares)           H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines	H277	277	Н	7	27	271	Diesel oil
H280         280         H         7         27         274         Miscellaneous charges           H281         281         H         7         27         275         Fares on buses (excl. school bus fares)           H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines	H278	278	Н	7	27	272	Other oil and greases
H281         281         H         7         27         275         Fares on buses (excl. school bus fares)           H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines	H279	279	Н	7	27	273	Servicing
H281         281         H         7         27         275         Fares on buses (excl. school bus fares)           H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines	H280	280	Н	7	27	274	Miscellaneous charges
H282         282         H         7         27         276         Fares on taxis and tuc tuc           H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines							3
H283         283         H         7         27         277         Fares on boats           H284         284         H         7         27         278         Tickets on domestic airlines	<b>—</b>						
H284 284 H 7 27 278 Tickets on domestic airlines							
	<b>—</b>						
H285   285   H   7   27   279   Tickets on international airlines							
	H285	285	Н	7	27	279	Tickets on international airlines

H286	286	Н	7	27	280	Transport charges of goods
H287	287	Н	7	27	281	Other
H288	288	Н	7	28	282	Postal service charges
-						
H289	289	Н	7	28	283	Telephone charges (fixed lines)
H290	290	Н	7	28	284	Mobile phone charges
H291	291	Н	7	28	285	Telegraph and telex
1292	292	ı	10	31	286	Radio or radio cassettes, VCD-, DVD-players
1293	293	ı	10	31	287	Television set
1294	294	i	10	31	288	Parabola antenna
1295	295	I	10	31	289	Video recorder
1296	296	I	10	31	290	Cameras
1297	297	1	10	31	291	Musical instrument
1298	298	ı	10	31	292	Cellular phone, handsets
1299	299	ı	10	31	293	Telephone sets
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1300	300	I	10	31	294	Computers
1301	301	I	10	31	295	Repair of such items
1302	302	- 1	10	31	296	Film and develop a photograph
1303	303	ı	10	31	297	Other equipment
1304	304	ı	10	31	298	Parts and accessories of recreational goods
1305	305	i	10	31	299	Repair of recreational goods
_						
1306	306	I	10	31	300	Cinema/theatre tickets
1307	307	I	10	31	301	Lessons on sports and others
1308	308	- 1	10	31	302	Lottery
1309	309	I	10	31	303	Hire of video tapes
1310	310	i	10	31	304	Veterinary and other services for pets
						· · · · · · · · · · · · · · · · · · ·
1311	311	l i	10	31	305	Traditional ceremonies
1312	312	I	10	31	306	Other expenditure on recreation and cultural activities
1313	313	I	10	31	307	Books
1314	314	ı	10	31	308	Magazines, journals and newspaper
1315	315	ı	10	31	309	Pen and pencils
1316	316	i	10	31	310	
-						Other stationery
1317	317	I	10	32	311	Costs for packages tours
J318	318	J	8	29	312	Tuition fees (excl. of payments for food, beverage, shelter)
J319	319	J	8	29	313	Teachers association fee or levy
J320	320	J	8	20	314	School uniform (incl. shoes)
1221	221		0	20	215	School sports wear
J321	321	J	8	20	315	School sports wear
J322	322	J	8	29	316	Stationery for school
J322	322	J	8	29	316	Stationery for school
J322 J323	322 323	J	8	29 29	316 317	Stationery for school  Border fees
J322 J323 J324 J325	322 323 324 325	J J	8 8 8	29 29 29 29	316 317 318 319	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind
J322 J323 J324 J325 J326	322 323 324 325 326	] ] ] ]	8 8 8 8	29 29 29 29 29	316 317 318 319 320	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education
J322 J323 J324 J325 J326 K327	322 323 324 325 326 327	J J J K	8 8 8 8 8	29 29 29 29 29 29	316 317 318 319 320 321	Stationery for school  Border fees  Contribution to schools in cash Contributions to schools in kind Other expenditure on education  Catering, sit-down meals
J322 J323 J324 J325 J326 K327	322 323 324 325 326 327 328	J	8 8 8 8	29 29 29 29 29 29 12	316 317 318 319 320 321 322	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food
J322 J323 J324 J325 J326 K327	322 323 324 325 326 327	J J J K	8 8 8 8 8	29 29 29 29 29 29	316 317 318 319 320 321	Stationery for school  Border fees  Contribution to schools in cash Contributions to schools in kind Other expenditure on education  Catering, sit-down meals
J322 J323 J324 J325 J326 K327	322 323 324 325 326 327 328	J	8 8 8 8 1	29 29 29 29 29 29 12	316 317 318 319 320 321 322	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food
J322 J323 J324 J325 J326 K327 K328 K329	322 323 324 325 326 327 328 329	J J J K K K	8 8 8 8 1 1	29 29 29 29 29 29 12 12	316 317 318 319 320 321 322 323	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels
J322 J323 J324 J325 J326 K327 K328 K329 L330	322 323 324 325 326 327 328 329 330 331	J J J K K K L	8 8 8 8 1 1 1 9	29 29 29 29 29 12 12 12 30 30	316 317 318 319 320 321 322 323 324 325	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331	322 323 324 325 326 327 328 329 330 331 332	J J J J K K K L	8 8 8 8 1 1 1 9 9	29 29 29 29 29 12 12 12 30 30	316 317 318 319 320 321 322 323 324 325 326	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333	322 323 324 325 326 327 328 329 330 331 332 333	J J J K K K L L	8 8 8 8 1 1 1 9 9	29 29 29 29 29 12 12 12 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334	322 323 324 325 326 327 328 329 330 331 332 333 333	J J J K K K L L	8 8 8 8 1 1 1 9 9	29 29 29 29 29 12 12 12 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333	322 323 324 325 326 327 328 329 330 331 332 333	J J J K K K L L	8 8 8 8 1 1 1 9 9	29 29 29 29 29 12 12 12 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334	322 323 324 325 326 327 328 329 330 331 332 333 333	J J J K K K L L	8 8 8 8 1 1 1 9 9	29 29 29 29 29 12 12 12 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335	322 323 324 325 326 327 328 329 330 331 332 333 334 335	J J J K K K L L L	8 8 8 8 1 1 1 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336	J J J J K K K L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	J J J J K K K L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	J J J J K K K L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas  Other personal goods  Fees for legal services in cash
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas  Other personal goods  Fees for legal services in cash  Fees for legal services in kind
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas  Other personal goods  Fees for legal services in cash  Fees for legal services in kind  Interests
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas  Other personal goods  Fees for legal services in cash  Fees for legal services in kind
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas  Other personal goods  Fees for legal services in cash  Fees for legal services in kind  Interests
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L350	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344	Stationery for school  Border fees  Contribution to schools in cash  Contributions to schools in kind  Other expenditure on education  Catering, sit-down meals  Take away food  Expenditure in hotels  Services of barber shops/hair dressers  Services of beauty shops, massages, etc.  Toilet soap  Shampoo  Toilet paper  Baby diapers  Skin cream  Tooth brush  Tooth paste  Powder, perfume  Other toilet articles  Watches  Jewelry, rings, precious stones  Repair of such items  Travel goods  Umbrellas  Other personal goods  Fees for legal services in cash  Fees for legal services  Other financial services
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L350 L351	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345	Stationery for school Border fees Contribution to schools in cash Contributions to schools in kind Other expenditure on education Catering, sit-down meals Take away food Expenditure in hotels Services of barber shops/hair dressers Services of beauty shops, massages, etc. Toilet soap Shampoo Toilet paper Baby diapers Skin cream Tooth brush Tooth paste Powder, perfume Other toilet articles Watches Jewelry, rings, precious stones Repair of such items Travel goods Umbrellas Other personal goods Fees for legal services in cash Fees for legal services Membership fees Rice milling charges
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L350 L351 L352 L353	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 360 361 361 361 361 361 361 361 361	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347	Stationery for school Border fees Contribution to schools in cash Contributions to schools in kind Other expenditure on education Catering, sit-down meals Take away food Expenditure in hotels Services of barber shops/hair dressers Services of beauty shops, massages, etc. Toilet soap Shampoo Toilet paper Baby diapers Skin cream Tooth brush Tooth paste Powder, perfume Other toilet articles Watches Jewelry, rings, precious stones Repair of such items Travel goods Umbrellas Other personal goods Fees for legal services in cash Fees for legal services in kind Interests Other financial services Membership fees Rice milling charges Gifts and contribution to Buddhist temple in cash
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L350 L351 L352 L353 L354	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 361 361 361 361 361 361 361 36	J J J J K K K L L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348	Stationery for school Border fees Contribution to schools in cash Contributions to schools in kind Other expenditure on education Catering, sit-down meals Take away food Expenditure in hotels Services of barber shops/hair dressers Services of beauty shops, massages, etc. Toilet soap Shampoo Toilet paper Baby diapers Skin cream Tooth brush Tooth paste Powder, perfume Other toilet articles Watches Jewelry, rings, precious stones Repair of such items Travel goods Umbrellas Other personal goods Fees for legal services in cash Fees for legal services Membership fees Rice milling charges Gifts and contribution to Buddhist temple in cash Remittances given in cash to other households
J322 J323 J324 J325 J326 K327 K328 K329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L350 L351 L352 L353	322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 360 361 361 361 361 361 361 361 361	J J J J J K K K L L L L L L L L L L L L	8 8 8 8 1 1 1 1 9 9 9 9 9 9 9 9 9 9 9 9	29 29 29 29 29 12 12 12 30 30 30 30 30 30 30 30 30 30 30 30 30	316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347	Stationery for school Border fees Contribution to schools in cash Contributions to schools in kind Other expenditure on education Catering, sit-down meals Take away food Expenditure in hotels Services of barber shops/hair dressers Services of beauty shops, massages, etc. Toilet soap Shampoo Toilet paper Baby diapers Skin cream Tooth brush Tooth paste Powder, perfume Other toilet articles Watches Jewelry, rings, precious stones Repair of such items Travel goods Umbrellas Other personal goods Fees for legal services in cash Fees for legal services in kind Interests Other financial services Membership fees Rice milling charges Gifts and contribution to Buddhist temple in cash

M402	402	М	14	60	351	Ordinary rice
M403	403	М	14	60	352	Maize
M404	404	М	14	60	353	Other cereals
M405	405	М	14	60	354	Home produced crops (see list)
M406	406	М	14	60	355	Fodder
M407	407	М	14	60	356	Industrial crops
M408	408	М	14	60	357	Vegetables, legumes
M409	409	М	14	60	358	Roots and tubers
M410	410	М	14	60	359	Fruits
M411	411	M	14	60	360	Livestock
M412	412	M	14	60	361	Poultry
M413						
-	413	M	14	60	362	Milk products
M414	414	М	14	60	363	Eggs
M415	415	М	14	60	364	Wild animals
M416	416	М	14	60	365	Fish cultivated
M417	417	М	14	60	366	Fish naturally grown
M418	418	М	14	60	367	Wood, timber, firewood
M419	419	М	14	60	368	Other sold proucts
M420	420	М	14	60	369	Other receipts in cash
M421	421	М	14	60	370	Other receipts in kind
M451	451	М	15	61	371	Rice seed traditional
M452	452	М	15	61	372	Rice seed developed
M453	453	М	15	61	373	Other seeds
M454	454	M	15	61	374	Fodder
M455	455	M	15	61	375	Livestock
M456	456	M	15	61	376	Poultry
-			15			
M457	457	M		61	377	Animal feed
M458	458	M	15	61	378	Fertilizers
M459	459	М	15	61	379	Pesticides, herbicides
M460	460	М	15	61	380	Electricity
M461	461	М	15	61	381	Fuel
M462	462	M	15	61	382	Other transport costs venicies (tractors), et. motors or petrol engine motors, and
M463	463	М	15	61	383	cimilar larger capital goods
M464	464	М	15	61	384	Small equipment and tools in agriculture
M465	465	М	15	61	385	Small equipment and tools in forestry
M466	466	М	15	61	386	Small equipment and tools in fishing
M467	467	М	15	61	387	Repairs of machines, equipment
M468	468	М	15	61	388	Construction materials
M469	469	М	15	61	389	Wages and salaries in cash
M470	470	М	15	61	390	Wages and salaries in kind
M471	471	М	15	61	391	Other costs
N501	501	N	16	62	392	Resale of purchased goods (trade)
N502	502	N	16	62	393	Sale of free collected goods
N503	503	N	16	62	394	Sale of goods produced or processed (industry/handicraft)
N504	504	N	16	62	395	Income from transport services
N505	505	N	16	62	396	Income from real estate (rents)
N506 N507	506	N	16	62	397	Income from other services  Own consumption of products for sale
	507	N	16	62	398	Own consumption of products for sale
N508	508	N	16	62	399	Value of products given away as salaries in kind
N509	509	N	16	62	400	Value of products bartered away
N510	510	N	16	62	401	Charges received in cash for services rendered or work done
N511	511	N	16	62	402	Income from sale of capital goods
N512	512	N	16	62	403	Other business income, specify
O551	551	0	17	63	404	Goods bought for resale
O552	552	0	17	63	405	Raw materials for further processing
O553	553	0	17	63	406	Rent, lease hold or similar charges
O554	554	0	17	63	407	Fuel, electricity, gas, petrol, water
O555	555	0	17	63	408	machinery and transport equipment (venicies used in
O556	556	0	17	63	409	Small equipment and tools used in business operations
O557	557	0	17	63	410	Hire and repair of equipment
O558	558	0	17	63	411	Transport charges
0559	559	0	17	63	412	Repairs of buildings (bought repairs or materials bought)
O560	560	0	17	63	413	Goods given away
O561	561	0	17	63	414	Wages and salaries paid in cash
0562		0	17		414	
	562			63		Wages and salaries paid in kind
O563	563	0	17	63	416	Business taxes, licenses
0564	564	0	17	63	417	Accountant's fee and other service charges
O565	565	0	19	96	418	Interest paid on business loans
0566	566	0	17	63	419	Other business costs, specify
O601 O602	601	0	21 21	98 98	420 421	Purchase of land Purchase of second hand house

O603	603	0	21	98	422	building materials for construction/extension of residential
0604	604	0	21	98	423	Labour for construction of residential house
O605	605	0	21	98	424	Materials for construction/extension of agricultural buildings
0606	606	0	21	98	425	Labour for construction of agricultural buildings
0607	607	0	21	98	426	Materials for construction/extension of business buildings
0608	608	0	21	98	427	Labour for construction of business buildings
0609	609	0	21	98	428	Material+labour residential buildings of not possible to divide
0610	610	0	21	98	429	material+labour agricultural buildings of not possible to
0611	611	0	21	98	430	Material+labour business buildings of not possible to divide
P800	800	P	18	80	431	Wages, salaries in cash
P801	801	Р	18	80	432	Social security
P802	802	Р	18	80	433	Wages, salaries in kind
P803	803	P	18	81	434	Interest and royalties
P804	804	Р	18	81	435	Dividends
P805	805	P	18	81	436	Other rent
P806	806	Р	18	81	437	Land rent
P807	807	P	18	82	438	Pension and life insurance
P808	808	P	18	83	439	Remittance, gifts in cash for Laos
P809	809	P	18	84	440	Remittance, gifts in cash for abroad
P810	810	Р	18	85	441	Remittance, gifts in kind for Laos
P811	811	P	18	86	442	Remittance, gifts in kind for abroad
P812	812	Р	18	82	443	Other current tranfers Specify

# **Table: Groups of Diary Item codes**

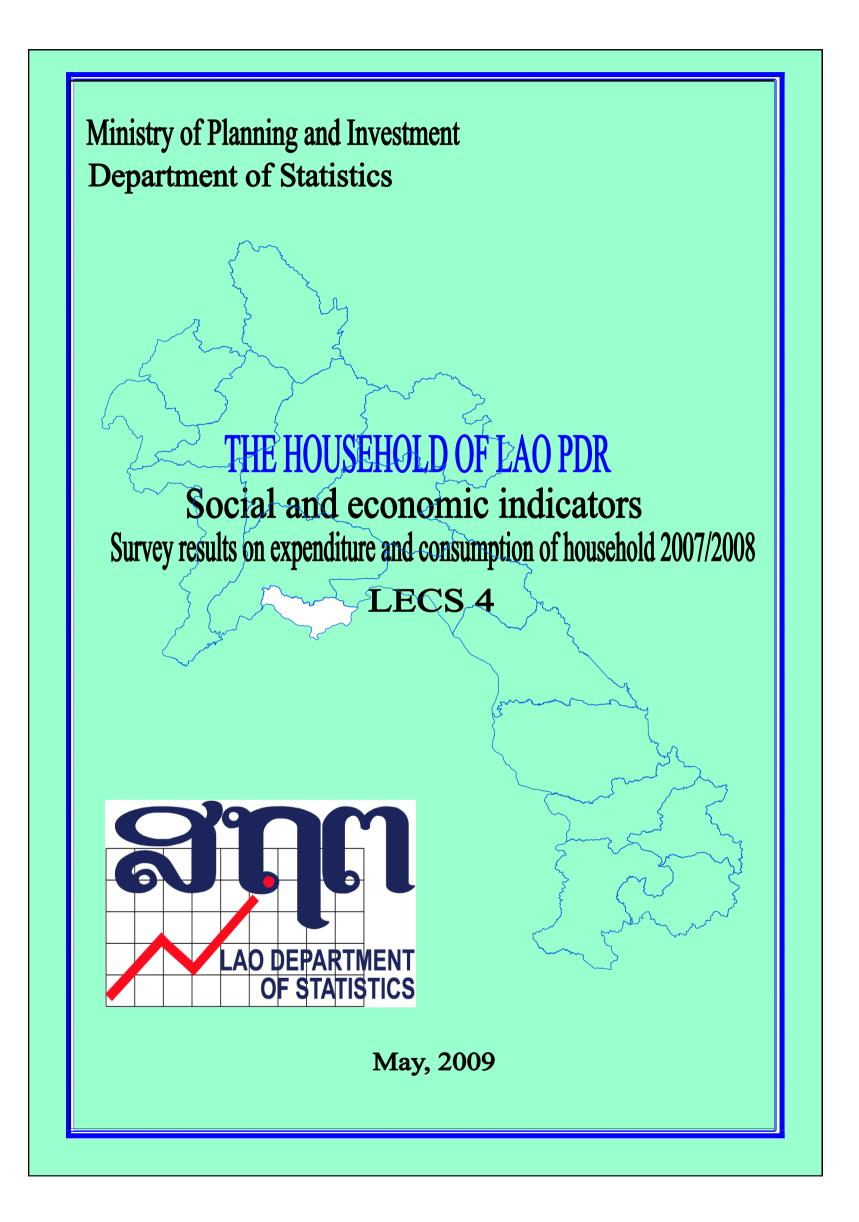
	Itemlev2		Itemlev3	
1	Food expenditure	1	Rice.	
		2	Other cereals and bread.	
		3	Meat.	
		4	Fish.	
		5	Milk, cheese and eggs.	
		6	Oils and fats.	
		7	Fruits.	
		8	Vegetables and potatoes.	
		9	Sugar and sweets.	
		10	Non-alcoholic beverages, coffee and tea.	
		11	Other food.	
		12	Meals.	
2	Consumption of own produced food	13	Own produced rice.	
		14	Own produced other grains.	
		15	Own produced meat.	
		16	Own produced fish.	
		17	Own produced fruits.	
		18	Own produced vegetables.	
		19 Other own produces.		
3	Clothing and footwear	20	Clothing and footwear.	
4	Housing	21	Rent	
		22	Imputed rent.	
		23	Firewood collected.	
		24	Water, electricity, other fuels	
5	Household utensils and operations	25	Household utensils and operations.	
6	Medical care	26	Medical care.	
7	Transport and communications	27 Transport.		
		28	28 Communications.	
8	Education.	29	Education.	
9	Personal care	30	Personal care.	
10	Recreation	31	Recreation.	
		32	Accommodation.	

11	Alcohol and tobacco.	33	Alcohol and tobacco.
12	Other	34	Miscellaneous goods and services.
		35	Remittances given away.
		36	Taxes
13	Sales of goods	50	Sales of goods
14	Agricultural income	60	Agricultural income
15	Agricultural cost	61	Agricultural cost
16	Business income	62	Business income
17	Business cost	63	Business cost
18	Income, remittances and transfers	80	Wages and salaries
		81	Property income
		82	Pensions and other transf.
		83	Remitt. in cash fr Laos
		84	Remitt. in cash fr abroad
		85	Remitt. in kind fr Laos
		86	Remitt. in kind fr abroad
19	Interests	96	Interests
20	Repair/mainten.of houses	97	Repair/mainten.of houses
21	Investments	98	Investments

	Itemcodes included in	the d	different groups of the 2002/03 LECS
	<b>Itemgroups</b>	Itemlev	Itemcode in LECS
Food expenditure	1 Rice.	$\frac{\omega}{1}$	1 2 1 or 2
r	Other cereals and bread.	2	
	Meat.	3	
	Fish.	4	
	Milk, cheese and eggs.	5	28 29 30 31 32 33 >=28 and <=33
	Oils and fats.	6	
	Fruits.	7	37 38 39 40 41 42 43 44 45 46
			47 $48$ $49$ $50$ $51$ $52$ $53$ $54$ $55$ $>=37$ and $<=55$
	Vegetables and potatoes.	8	56 57 58 59 60 61 62 63 64 65 >= 1 and <=116 or 328 or 329
			66 67 68 69 70 71 72 73 74 75
			76 77 78 79 80 81 82 83 84 85 86 87
			91 92 93 94 95 96
	Sugar and sweets.	9	
	Non-alcoholic beverages,	10	
	coffee and tea.		114 115 116 >=114 and <=116
	Other food.	11	88 89 90 >=88 and <=90 or 106 107 108 109 110 111 112 113 >=106 and <=113
	Meals.	12	
onsumption of own produced food	2 Own produced rice.	13	
	Own produced other grains.	14	129 130 158 129 or 130
	Own produced meat.	15	138 139 140 141 142 143 >=138 and <=143
	Own produced fish.	16	144 145 >=127 and <=155
	Own produced fruits.	17	136 137 136 or 137
	Own produced vegetables.	18	131 132 133 134 135 >=131 and 135
	Other own produces.	19	146 147 148 149 150 151 152 153 154 155 >=146 and <=155
Clothing and footwear	3 Clothing and footwear.	20	162 163 164 165 166 167 168 169 170 171
			172 173 174 175 176 177 178 179 180 181
			182 183 184 185 186 187 188 189
			321 322
ousing	4 Rent	21	190
	Imputed rent.	22	1901 From housing module
	Firewood collected.	23	199
	Water, electricity, other fuels	24	
ousehold utensils and operations	5 Household utensils	25	194 195 196 197 198 211 212 213 214 215 216 217
ousehold dichsus and operations		43	211 212 213 214 215 216 217 219 220 221 222 223 224 225 226 227 228 229
	and operations.		
			239 240 241 242 243 244 245 246 247 248 249 250
			251 252 253 254 255 256 257 258 259 260 261 262
			201 202 203 204 205 206 207 208 209 210 From part XIV
	1		218 div. by 12

	<b>Itemcodes included</b>	in the different groups of the 2002/03 LECS	
	Itemgroups	Itemcode in LECS	
	»   · · · · · · · · · · · · · · · · · ·	230 231 232 233 234 235 236 237 238	
Medical care	6 Medical care.	<b>26</b> 263 264 265 266 267 268	
Transport and communications	7 Transport.	<b>27</b> 273 274 275 276 277 278 279 280 281 282 283 286 287	
	<b>'</b>	269 270 271 272 284 285 From part XIV, div. by 12	
	Communications.	<b>28</b> 288 289 290 291	
Education.	8 Education.	<b>29</b> 319 320 323 324 325 326	
Personal care	9 Personal care.	<b>30</b> 331 332 333 334 335 336 337 338 339 340 341	
		345 346 347	
		342 343 344 From part XIV div. by 12	
Recreation	10 Recreation.	<b>31</b> 300 301 303 305	
		307 308 309 310 311 312 313 314 315 316 317	
		304 306 From part XIV	
		356 div. by 12	
		292 293 294 295 296 297 298 299	
	Accommodation.	<b>32</b> 330 318	
Alcohol and tobacco.	11 Alcohol and tobacco.	<b>33</b> 117 118 119 120 121 122 123 124 125 126	
Other	12 Miscellaneous goods	<b>34</b> 348 349	
	and services.	351 352 353 354 357	
	Remittances given away.	<b>35</b> 355	
	Taxes	36 ?? ??	
Sales of goods	13 Sales of goods	50 From sectioncode 3 or 4 in Purchsell. A "0" has been added	
		in the end of the itemid. Kip has been divided by 12	
Agricultural income	14 Agricultural income	<b>60</b> 401 402 403 404 405 406 407 408 409 410	
		411 412 413 414 415 416 417 418 419 420 421 422	
Agricultural cost	15 Agricultural cost	<b>61</b> 451 452 453 454 455 456 457 458 459 460	
		461 462 463 464 465 466 467 468 469 470 471 472	
Business income	16 Business income	<b>62</b> 501 502 503 504 505 506 507 508 508 509 510 511 512	
Business cost	17 Business cost	<b>63</b> 551 552 553 554 555 556 557 558 559 560	
	40 177	561 562 563 564 565 566	
Income, remitttances and transfers	Wages and salaries	<b>80</b> 800 801 802	
	Property income	<b>81</b> 803 804 805 806	010
	Pensions and other transf.		or 812
	Remitt. in cash fr Laos	83 808	>=800 and <=8
	Remitt. in cash fr abroad	<b>84</b> 809	
	Remitt. in kind fr Laos	<b>85</b> 810	
-	Remitt. in kind fr abroad	86 811	
Interests	19 Interests	96 350	
Repair/mainten.of houses	20 Repair/mainten.of houses	<b>97</b> 191 192 193	
Investments	21 Investments	<b>98</b> 601 602 603 604 605 606 607 608 609 610 611	
		DD0 D10 67 D10 0 D10 11 12	
		<b>DR?</b> P10q6-7, P10q9,P10q11-13 From part X	
	l	P10q18-20, P10q21,P10q23-25 div. by 12?	

	Itemcodes included in the different groups of the 2002/03 LECS			
Itemgroups				



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#### 1 SURVEY METHODOLOGY

#### 1.1 Scope and Purpose of the Survey

The fourth expenditure and consumption survey (LECS 4) in Lao PDR is a survey in terms of socio-economy at the household echelon. This survey is conducted in every 5 years. The present round of surveys started from 1992 and the main statistical collection unit is the household. This survey is a sample survey which is carried out in every province and district over the whole country. The survey was undertaken from April 2007 to March 2008 (for a period of 12 months), in order to be able to provide data on expenditure and consumption covering all seasons and relating to aspects of every area and region in the Lao PDR.

The purpose of the expenditure and consumption survey (LECS) is to estimate the expenditure and consumption of household as well as production, investment, accumulation and other socio-economic aspects of the households in the formal and informal sector of the economy.

The results of expenditure and consumption survey in Lao PDR will provide necessary data to be used for calculation of various indicators and are intended for socio-economic planning. It will also provide data for calculation of GDP, definition of poverty line, data on nutrition and other important information. The LECS surveys are the most important surveys in the statistical data collection system of Lao PDR.

The main objectives of this survey are:

- Estimation at macro level for national accounts, including private consumption, household investment, production and income from agriculture and household business;
- Structure of household consumption (weight system) for consumption price index calculation (CPI);
- Estimation on labor force;
- Nutrition statistic;
- Poverty statistics and statistics of income distribution.

The sample size of LECS 4 is composed of 8.304 household from 518 villages. The villages are the same villages as in the survey LECS 3. In every village 16 households were selected in the sample. The field work was conducted for a period of 12 months starting from April 1, 2007 to March 31, 2008. People undertaking the survey (enumerators) are always being on place in the village during the month the survey is undertaken in the respective village.

#### 1.2 Sample Design and Selection

## 1.2.1 First Step: Description of Sample Village

The survey design for the LECS 4 uses the same methodology and sampling technique as used in the LECS 3. The sample selection is conducted in two steps. The first step is selection of sample villages using the zoom selection methodology according to the proportion of the population (PPS). Village unit is distributed according to the following echelon: village classified by province, district, rural area with access to road and rural area without access to road. The number of sample villages in each province is in between 17 to 48 villages depending on the number of villages, and the number of households in every survey area (see Table i).

Table i: Number Sample for Survey

Target	LECS 1 (92/93)	LECS 2 (97/98)	LECS 3 (02/03)	LECS 4 (07/08)
Villages	147	450	540	518
Households	2 937	8 882	8 092	8 296

Comparing the last two surveys, LECS 3 and LECS 4, the number of sample villages is decreased from 540 to 518 villages. This is due to the situation of allocation and unification of small villages into larger villages, which in past years has appeared in every province in the whole country. In order to assure normal rule of distribution of sample, the number of sample households has been from 15 to 16 per village.

Each month the number of sample villages is almost the same, because the sample has been selected as zoom for every month.

### 1.2.2 Second Step: Selection of Sample Household

In the present expenditure and consumption survey half of the number of households are the same as households that were surveyed in the LECS 3, and the other half are new households that previously were not surveyed. The selection of households in the sample uses the zoom methodology on arbitrary and systematic basis. Selection of the 8 sample households from the survey of LECS 3 uses the zoom methodology on arbitrary basis by taking part in a lottery among LECS 3 households. New 8 sample household are selected among the other

households in the village using the same methodology. Together the number of sample households in one village is 16. The selection of sample household is based on the number of existing households in the village at the time of the conduction of the survey. If the village has 16 or less households all households are covered by the survey,

**Table ii: Sample allocation over survey months** <sup>1</sup>

	Month	Villages	Households	Persons
2007	April	45	752	4 364
	May	42	672	3 993
	June	43	688	3 907
	July	43	686	4 083
	August	43	688	3 872
	September	43	688	3 781
	October	42	672	3 797
	November	42	688	4 111
	December	44	688	3 979
2008	January	43	688	4 227
	February	43	682	3 938
	March	45	704	3 973
	Total	518	8 296	48 025

-

<sup>&</sup>lt;sup>1</sup> Remark: Number of village and household are actual sample in survey.

Table iii: Number of sample villages in each stratum

Code	Province	Urban villages	Rural villages with access to road	Rural villages without access to road	Total
01	Vientiane C.	33	15	0	48
02	Phongsaly	3	8	13	24
03	Luangnamtha	5	13	5	23
04	Oudomxay	5	13	3	21
05	Bokeo	4	15	5	24
06	Luangprabang	5	19	10	34
07	Huaphanh	5	27	2	34
08	Xayabury	10	24	1	35
09	Xiengkhuang	5	17	3	25
10	Vientiane	17	21	0	38
11	Borikhamxay	3	16	4	23
12	Khammuane	5	28	1	34
13	Savannakhet	10	36	2	48
14	Saravane	4	30	2	36
15	Sekong	5	8	4	17
16	Champasack	9	17	10	36
17	Attapeu	2	12	4	18
	Total	130	319	69	518

### 1.3 Methodology and Main Contents of the Survey

Ministry of Planning and Investment authorized the Department of Statistics to conduct the LECS survey, in cooperation with the division of planning and investment of each province.

In this survey, data on expenditure and income was collected from households. Data was collected during one month using the daily recording principle. All transactions were captured in a diary and classified by kind of consumption, or by result of agricultural production and business of the household. Data on purchase of goods with long life-time (durables) such as furniture, television, automobile, motorcycle and others were also recorded for the period of the past 12 months.

Data on time use was captured in the middle of the month for all household members aged 10 years and higher.

The LECS 4 survey covers five main topics:

- questions on expenditure and daily consumption of the household,
- questions on the situation of the household,
- questions on the time used of the household,
- questions on prices in the market and in the shops,
- questions concerning the village, for the chief of village.

The structure of the contents of the questionnaire is as followed:

Module	Contents	Data specified for:
Diary	All household transactions during sampled months. Transactions coded to consumption/expenditure, household business, agriculture and investment outlays	Household
Household	- Household composition	All household members
questionnaire	- Parents	Non-household member
	- Education	6 years and above
	- Labour force participation	10 years and above
	- Victimization	Household
	- Nutrition	All household members
	- Health check, measurements of heights and weights	Children 4 years and below
	- Possession of durables and assets values	Household
	- Housing conditions – household	Household
	- Construction activities – household	Household
	- Household business	By business
	- Agriculture – household	Household
	<ul> <li>- Health – evaluation of health, use of health services, health seeking behavior, health costs</li> <li>- Purchases and selling of durables during the last 12 months</li> </ul>	All household members, costs for household Household
	- Income and transfers – by all members of household	All household members
	- Borrowing and lending – by household	Household
Time use	Time spent recorded for a period of 24 hours in a sampled day for 22 activities	10 years and above
Prices	Prices for 92 basic goods and services recorded in nearest local market	
Village questionnaire	- demograph - general economic conditions - access to services - agriculture - prices	Village Data provided by village heads on situations in the village

### 1.4 Terms, Concepts and Definition of Words used in the Survey

<u>Household</u>: is a group of people making common arrangements, searching for foods, having a common house and conduct different daily activities in common. A normal household consists of people having a link together such as: husband, wife, children and father, mother. In some cases are also included people having no relative's link such as: coliving or employee or worker who lives together in the household having different activities in common.

<u>Household with one person</u>: is one person who lives alone in a house or in a part of a house, searching for food and other necessary goods for living life for himself without searching together with other people.

<u>Household with many people</u>: is a group with two peoples or more living together in a house or in a part of a house, together searching for food and other necessary goods for living life. Normally, the household like this is composed of: husband, wife, children, relatives, co-living people.

<u>Head of household</u>: the head of household plays an important role and gets the respect from the members of the household. In most case, she/he usually owns more income than the other members of the household and is also looking for the welfare of the household. The head of household may be male or female.

<u>Household expenditure</u>: includes purchase, or other exchange, of goods and services in the market. Consumption of the household is equal to the expenditure of the household plus the value of own produced goods. The difference between expenditure and consumption, is basically consumption of own produced goods, free collected firewood and the use of owner occupied houses.

#### CONSUMPTION = EXPENDITURE + VALUE OF OWN PRODUCED GOODS

The expenditure and consumption of different items are shown in values, and as percentage of total expenditure/consumption. The change in consumption between periods may have its cause from change of volumes (quantities) and the variation of price.

Quantities consumed: have been captured. However, quantities are not easy to add together as the unit of quantities varies a lot (kg, liter, bundle, etc). Consumption quantities (or eating quantities) are essential for nutrition analysis. Household food consumption is not exactly the same as "eating", but more or less the same for a period of a whole year. The amount of "eating" is measured with rice intake (in grams per persons) and intake of fish and vegetables. Changes in consumption volumes can also be obtained by deflating values with

proper price indices. Therefore, prices for basic goods and main services are collected in the survey.

<u>Household income</u>: is the sum of income from all sources that household members have. It contains wages and social benefits, pensions, dividends and royalties received, transfers from abroad in cash or kind, entrepreneurial income from household businesses and agriculture, fishery and forestry.

**Entrepreneurial income:** is defined as income less current operational costs. This income is supposed to cover owners' remunerations, payments for work done by other (non-paid) household members, financing of investments and profit.

<u>Household savings</u>: is defined as household total income less expenditure and less the value of own produced food.

<u>Household production</u>: is captured both in the diary and in other household survey modules but in different ways. The recording of transactions in the diary provides estimation of production values, the running costs and entrepreneurial income. The entrepreneurial income should be large enough (if profitable) to cover investments and remuneration for the owner and other unpaid household members, interest and repayments of loan taken for the operations and profit.

Production in agriculture is also captured in the household module in terms of farming area operated, main output planted, harvested and output, livestock by number and disposition of livestock, poultry, etc.

Information on household businesses is also found in the household module which also provides for classification according to activity.

<u>Household assets value</u>: this item is captured for the first time in the fourth Household expenditure and consumption survey. Households have provided data of the value of their land, buildings, and durables such as motor vehicles, etc. and the value of specific agriculture assets such as livestock.

**Person as an employee:** is a person who works for someone else outside the own household and receives salary for that. People working in own business or agriculture is self-employed and do not get a salary but take a share of the entrepreneurial income.

#### 1.5 Reliability of the Data

The data in this report are based on the findings from the survey. Therefore, the sampling errors are the main issue concerning reliability. Sampling errors have been calculated for some important variables based on the confidence of 95% ("margin of errors"). All confidence intervals are in absolute figures (number of digit). The household consumption is (2.170.7 thousand kips) and with a confidence interval of 5% it means that there is a 95% confidence that the true value lies between 2.158.3 kips and 2.183.0 kips.

Data quality is depending on sampling errors, data entry errors, coding errors and measurement errors. Although a lot of effort has been made to "clean" data from various errors, there may be still some left, but those will not influence the results more than marginally. When judging the quality, it has to be remembered that the survey in many aspects touches upon concepts of household economy that are difficult to assess, and not immediately clear. Therefore, data translation and data reading may be subject to some interpretation.

In some tables errors margins are presented in order for the reader be able to interpret data adequately.

Prior to the survey, training for data collectors (enumerator) and supervisors was organized in order to have a common understanding about the contents. The training was carried out in two steps:

- + Prior to the field survey, the training for the supervisor or the manager at province level was organized at the Department of Statistics for a period of 5 days. Participants from all 17 provinces attended the training.
- + Training for the field officers (enumerators) at the province level was organized for a period of 11 days. This training was set up at 4 places: first place in Xayabury for 8 northern provinces, second place in Vientiane Capital for 2 central part provinces, third place in Savannakhet for 3 central part provinces and fourth place in Champasack province for 4 southern provinces.

Data collection is carried out for each household during one month. A diary is used for daily recording of each transaction for expenditure and consumption. For other parts of the survey the enumerator makes interviews with members of the household. Manuals are available to give guidelines to enumerators and supervisors. Supervisors from Department of statistics and officers from planning and investment division of the province are constantly checking the field work.

After completing field data collection, the supervisor (central level) from the Department of Statistics monitors checks for missing data and data coincidence. An international coding system is used for systematic data entry into computer data bases in

order to assure data compliance and to make it convenient to summarize by for example: province or region, or by variable.

Data photo scanning system is a technique that partly has been used for data entry during this survey, in order to reduce errors due to manual data entry mistakes. This technique is convenient and timesaving both for data entry and for amendment. However, some errors may still remain, but it is considered being an acceptable level in term of statistical errors.

#### 2 Household in the LAO PDR

According to the fourth Household expenditure and consumption survey in 2007/2008, it can be noted that the number of households in Lao PDR is 985.000 and that the average household size is  $5.7~(\pm 0.03)$  persons/household. Compared to the third Household expenditure and consumption survey in 2002/2003 the household size has decreased by nearly 6.1%. This number indicates that the Lao households know about family planning in order to have birth spacing.

Table 2.1: Household size and number of households by provinces and regions in 2007/08

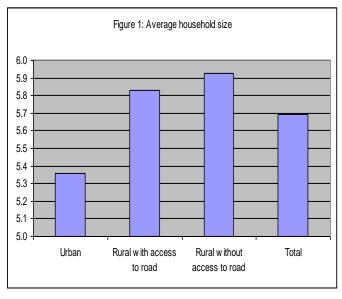
	Number of	Number of	Household	Confidence	Household	Confidence
	households	households	size	interval	size	interval
	2007/08	2002/03	LECS	(margin of	LECS	(margin of
	(1000	(1000	2007/08	error)	2002/03	error)
	households)	households)				
Lao PDR	985	867	5.7	± <b>0.0</b>	6.1	± 0.1
Urban	302	240	5.4	± 0.1	5.8	± 0.2
Rural	683	627	5.8	<u>+</u> 0.0	6.2	<u>+</u> 0.1
North	305	266	5.9	± 0.1	6.2	± 0.2
Phongsaly	29	25	6.0	± 0.3	6.5	± 0.4
Luangnamtha	28	23	5.9	± 0.2	6.0	± 0.3
Oudomxay	44	38	6.4	± 0.2	6.5	± 0.5
Bokeo	27	25	5.0	± 0.2	5.4	± 0.4
Luangprabang	69	61	5.9	<u>+</u> 0.1	6.3	± 0.4
Huaphanh	44	37	7.0	± 0.2	7.3	± 0.3
Xayaboury	64	58	5.3	± 0.2	5.6	± 0.3
Center	478	423	5.5	± <b>0.1</b>	6.0	± 0.1
Vientiane C.	125	111	5.2	± 0.1	5.7	± 0.2
Xiengkhuang	39	30	6.3	± 0.2	7.4	± 0.4
Vientiane P.	77	62	5.6	± 0.1	5.9	± 0.3
Borikhamxay	40	38	5.1	± 0.2	5.6	± 0.4
Khammuane	63	55	5.3	± 0.1	5.8	± 0.3
Savannakhet	134	122	5.8	± 0.1	6.3	± 0.2
South	201	178	5.7	± <b>0.1</b>	5.9	<u>+</u> 0.2
Saravane	58	51	6.1	± 0.2	6.0	± 0.3
Sekong	14	12	6.7	± 0.4	6.4	<u>+</u> 0.5
Champasack	109	97	5.5	± 0.1	5.9	± 0.2
Attapeu	20	17	5.5	± 0.3	5.9	± 0.4

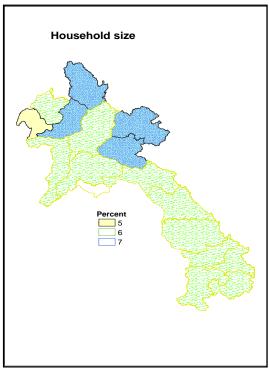
Normally, households in the rural areas are larger than households in urban areas. The average household size in the rural is 5,8 and in urban areas 5,4. If we look over the country, we can see that the northern region has the largest average household size of 5,9 persons/household. Huaphanh province has the largest average household size, 7,0, but the tendency, compared to the third Household expenditure and consumption survey, is decreasing. The same situation prevails for many provinces with the exception of Xekong and Saravanh provinces where the tendency is slightly increasing(see Table 2.1). Comparing urban and rural villages, the rural households without access to road has the largest average household size of 5,9, and rural villages without access to road in the northern region are having the largest household size of 6,2 persons/household (see Table 2.2).

Table 2.2: Average household size by type of area in 2007/08

	Urban	Rural with	Rural without	Total
		access to road	access to road	
Lao PDR	5.4	5.8	5.9	5.7
North	5.3	6.0	6.2	5.9
Center	5.4	5.6	6.1	5.5
South	5.3	6.0	5.4	5.7

Figure 1: Household size





A majority of households in Lao PDR, 69% of all Lao households, are situated in the rural areas. This indicates that the development of the country is still low. People are still depending on nature for their living life, and access to infrastructure services is still low. Comparing between regions in the country, it can be noted that the northern region has the

highest share of the population living in rural areas, namely 80%. Looking by province, however, it can be seen that Saravan province has the highest proportion of rural households, 91%, followed by Phongsaly with 88%, while Vientiane Capital has the lowest share of 35% (see Table 2.3). In all, the number of population living in the rural areas in Lao PDR is still high. Comparing to the third Household expenditure and consumption survey in 2002/2003, it can be seen that number of households living in the rural areas in Lao PDR has a tendency to decrease.

Table 2.3: Number of households by province and type of area in 2007/08, 1000 households

	Urban	Rural areas with access to road	Rural areas without access to	Total	% Rural areas
			road		
Lao PDR	302	590	93	985	69
North	62	196	48	305	80
Phongsaly	4	10	15	29	88
Luangnamtha	5	17	6	28	82
Oudomxay	10	31	3	44	78
Bokeo	4	20	3	27	87
Luangprabang	16	38	16	69	77
Huaphanh	5	37	2	44	89
Xayaboury	19	43	2	64	70
Center	199	268	11	478	58
Vientiane C.	81	44	0	125	35
Xiengkhuang	9	26	4	39	77
Vientiane P.	19	58	0	77	75
Borikhamxay	8	28	4	40	79
Khammuane	14	47	2	63	78
Savannakhet	68	65	2	134	50
South	41	126	34	201	79
Saravane	5	51	2	58	91
Sekong	3	8	3	14	77
Champasack	28	54	27	109	74
Attapeu	5	14	2	20	76

Table 2.4 shows the dependency ratio<sup>2</sup> and the average number of consumption units. In Lao PDR, the total dependency ratio is 0,7. In the urban and rural areas, it is 0,5 and 0,8 respectively. The region with the highest dependency ratio, is the southern region where it is  $0.8^3$ .

<sup>2</sup> The dependency ratio is the number of children below age 15 plus the number of people above 64 years of age divided by the number of persons in the household age 15-64. It indicates the burden of those of working age to be responsible for the children and aging population.

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<sup>&</sup>lt;sup>3</sup> Average number of consumption unit is calculated as 1 for the first adult in the household 0,9 for other adults, 0,4 for children below age 7 and 0,7 for children aged 7-15. The consumption unit approach reflects the fact that members of a household can share some expenses and small children needs less food than an adult or a teenager.

The lowest dependency ratio is found in the central region where it is 0,6.

Looking on the province level it is found that the dependency has slightly decreased in all provinces since 1997/1998, while the proportion of people in work has increased constantly.

The average consumption unit in Lao PDR is 4,7. In the urban areas, it is 4,7 and in the rural areas 4,8. Compared to the previous survey, it has slightly increased.

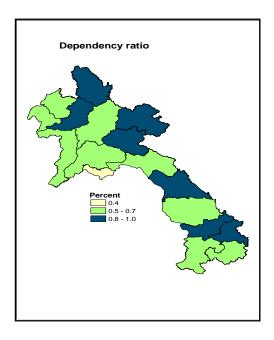


Table 2.4: Dependency rates and average number of consumption units, by province and region 2007/2008.

	Dependency ratio	Average no. of consumption unit	Dependency ratio	Average no. of consumption unit
	2007/08	2007/08	2002/03	2002/03
Lao PDR	0.7	4.7	0.8	4.5
Urban	0.5	4.7	0.6	4.5
Rural	0.8	4.8	0.9	4.6
North	0.7	4.8	0.9	4.6
Phongsaly	0.8	4.9	0.9	4.8
Luangnamtha	0.7	4.8	0.7	4.5
Oudomxay	0.8	5.1	0.9	4.8
Bokeo	0.7	4.2	0.8	4
Luangprabang	0.7	4.8	0.9	4.6
Huaphanh	0.9	5.6	1.1	5.3
Xayaboury	0.6	4.5	0.7	4.3
Center	0.6	4.7	0.7	4.6
Vientiane C.	0.4	4.6	0.5	4.5
Xiengkhuang	0.9	5.0	1.1	5.3
Vientiane P.	0.7	4.6	0.8	4.4
Borikhamxay	0.7	4.3	0.8	4.3
Khammuane	0.8	4.3	0.9	4.3
Savannakhet	0.7	4.9	0.8	4.7
South	0.8	4.7	0.9	4.4
Saravane	0.9	4.8	0.9	4.4
Sekong	1.0	5.3	1	4.6
Champasack	0.7	4.5	0.8	4.4
Attapeu	0.7	4.6	0.9	4.3

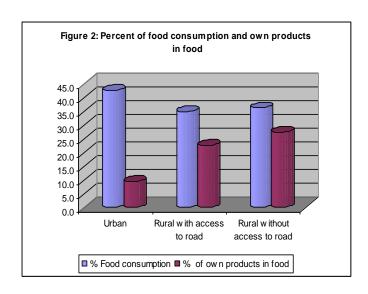
#### 3 CONSUMPTION AND RICE INTAKE OF HOUSEHOLD

#### 3.1 Consumption

Consumption is one important indicator to measure the welfare of the people. Especially for more developing countries, the consumption and the expenditure are considered as key factors for measurement and evaluation of the welfare, rather than using the revenue, because consumption does not vary so quickly. Normally, the volume of consumption and the volume of demand of the people do not change a lot. Price changes and changes in revenue are causes for the change.

The result of the fourth Household expenditure and consumption survey shows that in Lao PDR the average level of household consumption per month has increased from 1.09 million kips in 2002-03 to 2.17 million kips in 2007-08 or is augmented about 1.9 times. A high share of Lao households expenses goes to expenditure on foods which represents 22.7% of all consumption. The consumption of the own produced products represents 23.4%, while expenditure on communication, transport and telecommunication stand for 19.8% and living facilities stands for 12.6% of the consumption (see table 3.1).

Figure 2: Percentage of food consumption and own produced food



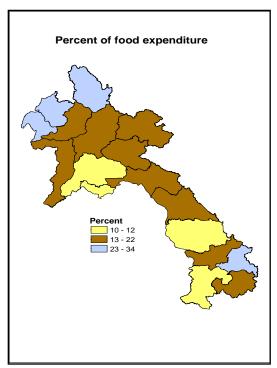


Table 3.1: Household consumption by group of goods and services. Monthly average consumption in thousand Kip.

Group of products and services	Monthly consum	Share of total (%)	
Food expenditure	492.5	( <u>+</u> 0.1)	22.7
Consumption of own produced food	507.0	( <u>+</u> 0.1)	23.4
Clothing and footwear	43.7	( <u>+</u> 0.3)	2.0
Housing	273.7	( <u>+</u> 0.2)	12.6
Household utensils and operations	93.3	( <u>+</u> 0.3)	4.3
Medical care	38.9	( <u>+</u> 0.6)	1.8
Transport and communications	429.9	( <u>+</u> 0.6)	19.8
Education	27.9	( <u>+</u> 0.8)	1.3
Personal care	56.3	( <u>+</u> 0.7)	2.6
Recreation	105.9	( <u>+</u> 0.5)	4.9
Alcohol and tobacco	49.2	( <u>+</u> 0.3)	2.3
Others	52.4	( <u>+</u> 0.5)	2.4
Total	2170.7	( <u>+</u> 5.0)	100.0

Table 3.2 shows changes in type of consumption of Lao people during the last 15 years starting from 1992-93 until 2007-08. In the 1990th, consumption of food was the dominating consumption item with a proportion of the total consumption of more than 60%. It can be noted that this expenditure is decreasing from 64.3% in 1992-93 to 46.1% in 2007-2008. At the same time, the consumption of own produced food is also decreasing, e.g. decrease from 38% in 1992-93 to 23.4% of total consumption in 2007-08. The expenditure ratio on foods, paid by cash, is still on the same level e.g. about 26% in the first three surveys and decreasing a little bit according to the result of the survey in 2007-08.

When the share of food consumption is decreasing, the share of consumption of other items is increased. Notable is that the consumption of transport and telecommunication services has highly increased, from 6% to almost 20%, during the 15 year period. In addition, the consumption of living facilities, especially construction and maintenance of the house has increased. This expenditure has an increasing proportion compared to the total consumption (7% in the 1990th and 12% in the 2000th).