Users' Manual for Handling Resampled Micro Data of Vietnamese Household Living Standard Survey (VHLSS)

VHLSS 2012

Version 1.0

2020
The Institute of Statistical Mathematics (ISM)
and
Statistical Information Institute for Consulting and Analysis (SINFONICA)

History of revision of the manual

☐.Version 1.0: Finalized in March 2020 based on the discussion during the Workshop in 2019.

☐ Provisional version in November 2019 for the Workshop in November 2019.

CONTENTS

VHLSS 2012

1. About this Manual

1. This manual was prepared for users to use the next 80% resampled micro data sets of Vietnamese Household Living Standard Survey (VHLSS) 2012.

CSV format

```
  [1] "hhexpe12_80.csv" "muc1a_80.csv"    "muc1b_80.csv"    "muc1c_80.csv"
  [5] "Muc2_80.csv"     "Muc3A_80.csv"    "Muc3B_80.csv"    "Muc4A_80.csv"
  [9] "Muc4A2_80.csv"   "Muc4B0_80.csv"   "Muc4B11_80.csv"  "Muc4B12_80.csv"
 [13] "Muc4B13_80.csv"  "Muc4B14_80.csv"  "Muc4B15_80.csv"  "Muc4B16_80.csv"
 [17] "Muc4B21_80.csv"  "Muc4B22_80.csv"  "Muc4B31_80.csv"  "Muc4B32_80.csv"
 [21] "Muc4B41_80.csv"  "Muc4B42_80.csv"  "Muc4B51_80.csv"  "Muc4B52_80.csv"
 [25] "Muc4C1_80.csv"   "Muc4C2_80.csv"   "Muc4D_80.csv"    "Muc5A1_80.csv"
 [29] "Muc5A2_80.csv"   "Muc5B1_80.csv"   "Muc5B2_80.csv"   "Muc5B3_80.csv"
 [33] "Muc6_80.csv"     "Muc6B_80.csv"    "Muc7_80.csv"     "Muc8_80.csv"
 [37] "Muc82_80.csv"    "ttchung_80.csv"
```

R format

```
  [1] "hhexpe12.80" "muc1a.80"    "muc1b.80"    "muc1c.80"    "Muc2.80"
  [6] "Muc3A.80"    "Muc3B.80"    "Muc4A.80"    "Muc4A2.80"   "Muc4B0.80"
 [11] "Muc4B11.80"  "Muc4B12.80"  "Muc4B13.80"  "Muc4B14.80"  "Muc4B15.80"
 [16] "Muc4B16.80"  "Muc4B21.80"  "Muc4B22.80"  "Muc4B31.80"  "Muc4B32.80"
 [21] "Muc4B41.80"  "Muc4B42.80"  "Muc4B51.80"  "Muc4B52.80"  "Muc4C1.80"
 [26] "Muc4C2.80"   "Muc4D.80"    "Muc5A1.80"   "Muc5A2.80"   "Muc5B1.80"
 [31] "Muc5B2.80"   "Muc5B3.80"   "Muc6.80"     "Muc6B.80"    "Muc7.80"
 [36] "Muc8.80"     "Muc82.80"    "ttchung.80"
```

2. The overall of VHLSS was described in the manual on “VHLSS – Overall and Survey Process”, separately.

3. The original micro data sets composed of all the samples were provided by NSO, Viet Nam based on the Charter for Experimental Laboratory for Research Purpose Statistical Use of Micro Data, and resampled at the rate of 80% by Sinfonica.

4. This manual was first compiled in Nobember 2019 by;

Hiroshige Furuta
Visiting Senior Research Fellow, Sinfonica

2. Outline of VHLSS 2012

The below table describes mainly on the income and expenditure survey.

Objectives of the survey	To evaluate living standards for policy-making and socio-economic development planning, in order to systematically monitor and supervise the living standards of different population groups in Viet Nam; to monitor and evaluate the implementation of the Comprehensive Poverty Reduction and Growth Strategy; and to contribute to the evaluation of achievement of the Millennium Development Goals (MDGs) and Vietnam's socio-economic development goals.
Topics covered by the survey	The income and expenditure survey covered the following topics; ● Some basic demographic characteristics related to living standards ● Education ● Health and health care ● Employment and income ● Expenditure ● Housing, electricity, water, sanitation facilities and durable goods ● Poverty reduction ● Participation in poverty reduction programs
Frequency of the survey	Every two years from 2002 to 2012
Survey period	● The survey was conducted in four periods in March, June, September and December. The period for collecting information in the locality is one month . ● The reference period of household income and expenditure was the last 12 months.
Coverage of the survey	● Geographically, the survey covered the whole country. Scope of the survey included all selected enumeration areas and communes in 63 provinces and cities under central management. ● The target population comprised the civilian, non-institutional population.
Sample design	● Two-stage stratified design Master sample based on 2009 Population and Housing Census Strata: province and urban/rural

	Step 1: 3,133 enumeration areas (883 in urban areas and 2,250 in rural areas) , of which 50% was chosen from these localities surveyed in 2010 and 50% Chosen from master frame. Step 2: Selected all 15 households (12 households survey income and 3 households survey income and expenditure) ● Sample size In total 46,995 households. 37,596 households were asked about income; 9,399 households were asked about income, expenditure and other issues. ● The income and expenditure survey was designed to assess living standards at national and regional level.
Data collection method	● Face-to-face interviews.
Data entry and data check	No description
Publication	"Data results of the Viet Nam Household Living Standards Survey 2012"

3. Data and metadata provided

[VHLSS 2012]

Note: The data set for 9,399 households asked about income, expenditure and other issues was provided by NSO.

◆ Household data files

File names in STATA format;			
[1] "hhexpe12.dta"	"muc1a.dta"	"muc1b.dta"	"muc1c.dta"
[5] "Muc2.dta"	"Muc3A.dta"	"Muc3B.dta"	"Muc4A.dta"
[9] "Muc4A2.dta"	"Muc4B0.dta"	"Muc4B11.dta"	"Muc4B12.dta"
[13] "Muc4B13.dta"	"Muc4B14.dta"	"Muc4B15.dta"	"Muc4B16.dta"
[17] "Muc4B21.dta"	"Muc4B22.dta"	"Muc4B31.dta"	"Muc4B32.dta"
[21] "Muc4B41.dta"	"Muc4B42.dta"	"Muc4B51.dta"	"Muc4B52.dta"
[25] "Muc4C1.dta"	"Muc4C2.dta"	"Muc4D.dta"	"Muc5A1.dta"
[29] "Muc5A2.dta"	"Muc5B1.dta"	"Muc5B2.dta"	"Muc5B3.dta"
[33] "Muc6.dta"	"Muc6B.dta"	"Muc7.dta"	"Muc8.dta"
[37] "Muc82.dta"	"ttchung.dta"	"wt2012new1.dta"	

◆ Questionnaire

Household Questionnaire for Income & Expenditure Survey in English	
[1] "Can_doi(tn-ct)-ENG.xls"	"Section01_1B_12.xls"
[3] "Section01B_4A2_1B_12.xlsx"	"Section02_1B_12.xls"
[5] "Section03_1B_12.xls"	"Section04_1B_12.xls"
[7] "Section05_1B_12.xls"	"Section06_1B_12.xls"
[9] "Section07_1B_12.xls"	"Section08_1B_12.xls"

Remarks: The file “Muc0x” corresponds to section 0x.
"Can_doi(tn-ct)-ENG.xls" includes some computing indicators from results of household interviews.

According to the Delegates from Vietnam, the questionnaires are the same between two surveys; 2010 and 2012.

◆ Codebook was not included in the metadata provided by NSO.

Codebook_2012.xls	NA

◆ Code of ethnicity, province, occupation and industry

The following lists of classification are available in the questionnaire.

- List of ethnicity code (at page 3 of the questionnaire)
- List of province code (page 4)
- List of occupation code (page 18)
- List of industry code (page 20-21)

◆ Survey results

Released publication of VHLSS 2012	"Data results of the Viet Nam Household Living Standards Survey 2012"
Content of the publication	· Some basic demographic characteristics related to living standards · Education · Labour - employment · Health and health care · Income · Consumption expenditure · Durable goods · Housing, electricity, access to safe drinking water, sanitary and internet · Participation in poverty alleviation programmes · Household businesses · Characteristics of commune 1 · Characteristics of commune 2 · Characteristics of commune 3
Note	The publication is available at GSO website. (See next page.)

◆ In addition to the above documents, "VHLSS 2012 Survey Plan" written in local language was provided upon request. It was translated into English using Google Translate and found to be useful document.

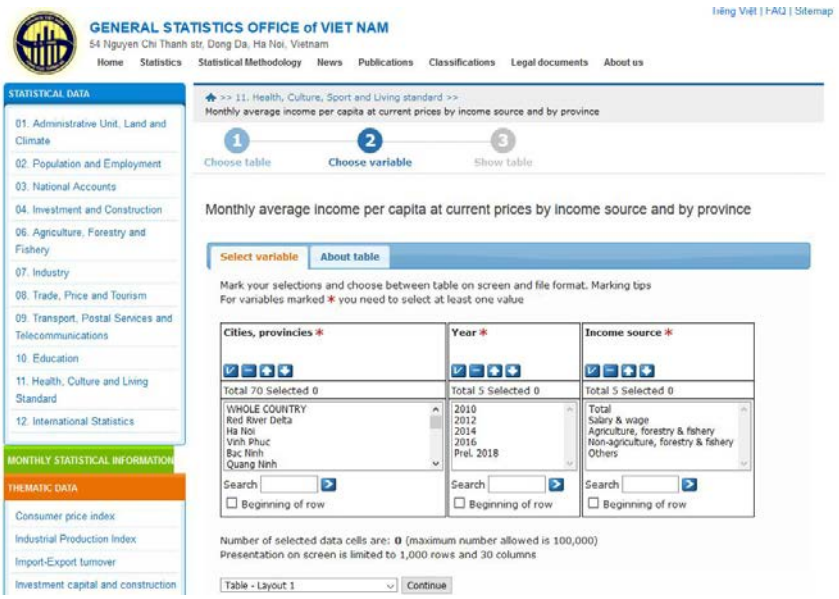
☐ **Homepage of General Statistics Office of Vietnam**

https://www.gso.gov.vn/default_en.aspx?tabid=515&idmid=5&ItemID=13971

Accessed on 02 November 2019

Publication of the result of VHLSS 2012 is available. It includes result of household income and expenditure, but not explains the outline of the survey.

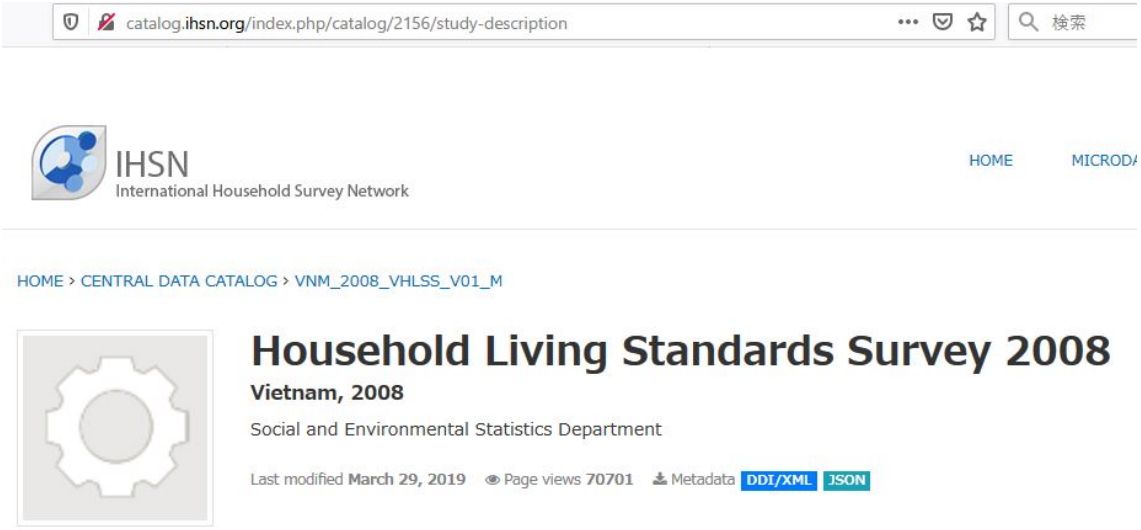
Data result of VHLSS 2012 are also available from the data base of GSO, as the next.



☐ **IHSN**

VHLSS 2012 is not available as of 02 November 2019.

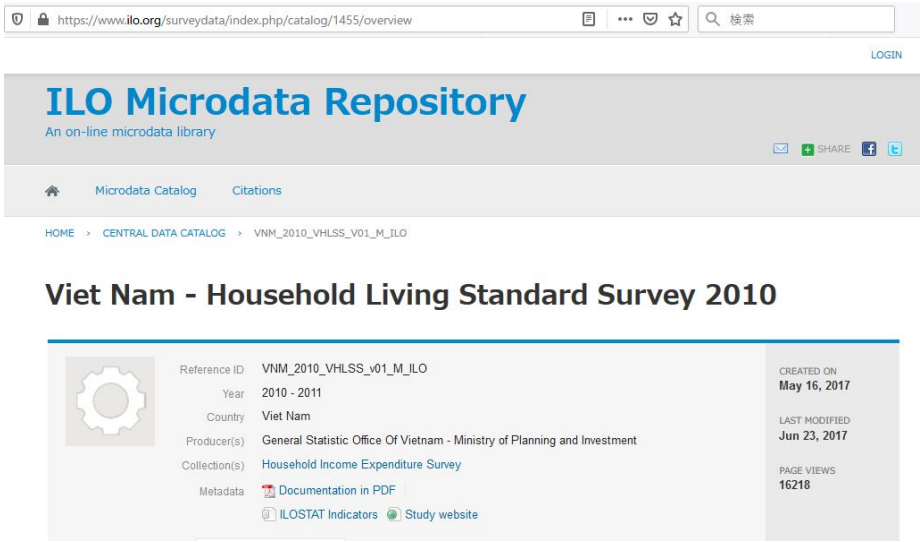
Available up to VHLSS 2008 data catalog.



☐ **ILO**

VHLSS 2012 is not available as of 02 November 2019.

Available up to VHLSS 2010 data catalog.



4. Data import

4.1 Import STATA data files into R

```
> file.names<-list.files()
> file.names
 [1] "hhexpe12.dta"   "muc1a.dta"      "muc1b.dta"      "muc1c.dta"
 [5] "Muc2.dta"       "Muc3A.dta"      "Muc3B.dta"      "Muc4A.dta"
 [9] "Muc4A2.dta"     "Muc4B0.dta"     "Muc4B11.dta"    "Muc4B12.dta"
[13] "Muc4B13.dta"    "Muc4B14.dta"    "Muc4B15.dta"    "Muc4B16.dta"
[17] "Muc4B21.dta"    "Muc4B22.dta"    "Muc4B31.dta"    "Muc4B32.dta"
[21] "Muc4B41.dta"    "Muc4B42.dta"    "Muc4B51.dta"    "Muc4B52.dta"
[25] "Muc4C1.dta"     "Muc4C2.dta"     "Muc4D.dta"      "Muc5A1.dta"
[29] "Muc5A2.dta"     "Muc5B1.dta"     "Muc5B2.dta"     "Muc5B3.dta"
[33] "Muc6.dta"       "Muc6B.dta"      "Muc7.dta"       "Muc8.dta"
[37] "Muc82.dta"      "ttchung.dta"    "wt2012new1.dta"

> library(foreign)
# Imported STATA files into R
> lss2012<-list()
> for(j in 1:39){
+ lss2012<-c(lss2012,list(read.dta(file.names[j],convert.factors=F)))
+ }
# 39 R data frames were stored in the list  “lss2012”.

# Made list of data file name, number of records and variables
> for(j in 1:39){
+ cat(file.names[j],": ",dim(lss2012[[j]]),"¥n")
+ }
hhexpe12.dta :  9399 273
muc1a.dta :  36655 18
muc1b.dta :  6325 62
muc1c.dta :  16776 15
Muc2.dta :  36655 34
Muc3A.dta :  18213 16
Muc3B.dta :  36655 15
Muc4A.dta :  36655 53
```

Muc4A2.dta : 36655 18
Muc4B0.dta : 11331 9
Muc4B11.dta : 9090 12
Muc4B12.dta : 11890 11
Muc4B13.dta : 2649 12
Muc4B14.dta : 6203 12
Muc4B15.dta : 6078 10
Muc4B16.dta : 46814 13
Muc4B21.dta : 11553 10
Muc4B22.dta : 7236 29
Muc4B31.dta : 162 9
Muc4B32.dta : 162 27
Muc4B41.dta : 3386 13
Muc4B42.dta : 2095 30
Muc4B51.dta : 2420 10
Muc4B52.dta : 1813 30
Muc4C1.dta : 3705 24
Muc4C2.dta : 3705 32
Muc4D.dta : 9399 25
Muc5A1.dta : 146205 11
Muc5A2.dta : 279872 15
Muc5B1.dta : 111751 10
Muc5B2.dta : 116435 8
Muc5B3.dta : 9399 14
Muc6.dta : 9399 42
Muc6B.dta : 116235 11
Muc7.dta : 9399 38
Muc8.dta : 9399 64
Muc82.dta : 1175 12
ttchung.dta : 9399 126
wt2012new1.dta : 3133 5

4.1.2 Generated list of the variable names, variable labels, and labels of response categories in each data frame

```
> var.names<-list()
> for(j in 1:39){
+ var.names<-c(var.names,list(attributes(lss2012[[j]])$var.labels))
+ }
> length(var.names)
[1] 39

> Rnames<-gsub(".dta","",file.names)
> Rnames
 [1] "hhexpe12"   "muc1a"      "muc1b"      "muc1c"      "Muc2"
 [6] "Muc3A"      "Muc3B"      "Muc4A"      "Muc4A2"     "Muc4B0"
[11] "Muc4B11"    "Muc4B12"    "Muc4B13"    "Muc4B14"    "Muc4B15"
[16] "Muc4B16"    "Muc4B21"    "Muc4B22"    "Muc4B31"    "Muc4B32"
[21] "Muc4B41"    "Muc4B42"    "Muc4B51"    "Muc4B52"    "Muc4C1"
[26] "Muc4C2"     "Muc4D"      "Muc5A1"     "Muc5A2"     "Muc5B1"
[31] "Muc5B2"     "Muc5B3"     "Muc6"       "Muc6B"      "Muc7"
[36] "Muc8"       "Muc82"      "ttchung"    "wt2012new1"
```

✓ Displayed the variable names, variable labels, and labels of response categories.

```
> for(n in 1:39){
+ df<-lss2012[[n]]
+ cat("¥n","### ",n,": ",Rnames[n]," ###########¥n")
+ cb<-vector(length=ncol(df),mode="list")
+ # cb: data frame of codebook
+ for(j in 1:length(cb)){
+ cb[[j]]$varname<-names(df)[j]
+ cb[[j]]$varlabel<-attributes(df)$var.labels[j]
+ cb[[j]]$vallabel<-(attributes(df)$label.table[attributes(df)$val.labels])[[j]]
+ } # end of for j
+ # print codebook
+ for(j in 1:length(cb)){
+ cat(format(j,width=2),format(cb[[j]]$varname,width=10),": ",
+     format(cb[[j]]$varlabel,width=30),"¥n")
+ if(length(cb[[j]])==3){  # including value labels
+   t<-cb[[j]]$vallabel
+   for(k in 1:length(t)){
```

```
+   cat(rep(" ",10),format(t[k],width=3),format(names(t)[k],width=30),"¥n")
+   } # end of for k
+ } # end of if
+ } # end of for j
+ } # end of for n


 ###  1 :  hhexpe12  ###########
 1 tinh       :  TﾘnH
 2 huyen      :  Huyﾖｎ
 3 xa         :  Xｷ
 4 diaban     :  ｱﾞａｂｵｎ
 5 hoso       :
 6 annualval1 :  (sum) annualval1
 7 foodnomnotobacco1 :  (sum) annualvalnotobacco1
 8 annualvalrice1 :  (sum) annualvalrice1
 9 annualvalnorice1 :  (sum) annualvalnorice1
10 annualvalnoricenotobac1 :  (sum) annualvalnoricenotobac1
11 foodnom2   :  nominal 'best' food expenditures
12 foodnomnotobacco2 :  (sum) annualvalnotobacco2
13 annualvalrice2 :  (sum) annualvalrice2
14 annualvalnorice2 :  (sum) annualvalnorice2
15 annualvalnoricenotobac2 :  (sum) annualvalnoricenotobac2
16 nonfdx     :  non-food purchases for 2012
17 nonfds     :  non-food home prod.& gifts for 2012
18 nonfdto    :  Total 'best' non-food for 2012
19 nonfdcompto :  Total 'comparable' non-food 2012 consumption
20 durbus_0   :  (sum) durbus_0
21 durbus_1   :  Durable gd use value-comparable with 93 and 98 VLSS
22 durbus_2   :  Durable gd use value-best for 2012 VHLSS
23 durbus_2_2000 :  (sum) durbus_2_2000
24 durbus_2_all :  (sum) durbus_2_all
25 educex_2   :  Educ. exp. 'best' for 2012 VHLSS survey
26 educex_1   :  Educ. expend. comparable to VLSS surveys
27 m3c13      :  13. Chi mua thu鐵
                     0 0
28 m3c14      :
                     0 0
29 m3c15      :  15. Trﾞ giｸ sｶn phﾈm
                     0 0
30 m3ct3      :  3CT3. C駭ｇｃｳu 11
31 hlthwel    :  (sum) hlthwel
32 hlthex_1   :  'Comparable' health exp
33 hlthex_2   :  'Best' health exp - no exclusion based on welfare
34 hlthwlf    :  'Best' health exp - only welfare-enhancing exp
35 waterexp   :  Water expenses
                    -1 NR
36 elecexp    :  Electricity expenses/year
                    -1 NR
37 garbexp    :  Waste displosal expenses
```

-1 NR
38 urban12 : Khu v☐
0 Rural
1 Urban
39 rentexpquestion :
-1 NR
40 reg8Paul :
1 Red River Delta
2 East Northern Mtns
3 West Northern Mtns
4 North Central Coast
5 South Central Coast
6 Central Highlands
7 Southeast
8 Mekong Delta
41 reg6 :
1 Red River Delta
2 Midlands and Northern Mountains
3 Northern and Coastal Central
4 Central Highlands
5 Southeast
6 Mekong Delta
42 rentexp2_1 : 'Best' imputed rent using reported housing value
43 ttnt :
44 ethnic : Dｳn t 墥
45 monthint : Thｸng ｮiﾒu tra
46 yearint :
47 hhsize : (sum) hhsize
48 majority :
49 wt9 :
50 hhszwt :
51 mcpir : mth rice price index Jan 10=1
52 mcpinrf : mth nonrice food price index Jan 10=1
53 mcpinf : mth nonfood price index Jan 10=1
54 rcpif : 'comparable' reg food price index
55 rcpinf : 'comparable' reg non-food price index
56 rcpifb : Best reg food price index
57 rcpinfb : Best reg non-food price index
58 pcfdxnomnotob1 :
59 pcfdxnom2 : per capita nominal 'best' food expenditure
60 pcfdxnomnotob2 :
61 foodreal1 :
62 pcfdxrl1 :
63 foodreal2 :
64 pcfdxrl2 :
65 test1 :
66 test2 :
67 nonfood1 : comparable nominal nonfood exp.
68 nonfood0 : All 'comparable-0' consumption besides food and rent
69 rentexp1 : 'Comparable' imputed rent using nonfood1

```
70 nonfood1rl :
71 pcnonfood1rl :
72 rentexp0   :  'Comparable' imputed rent using nonfood0
73 nonfd0rl   :
74 hhex1nom   :  comparable nominal total exp.
75 hhexp1rl   :
76 hhex0nom   :
77 hhexp0rl   :
78 pcex1nom   :  comparable nominal pc exp.
79 pcexp1rl   :
80 pcex0nom   :
81 pcexp0rl   :
82 quint12nom :  nominal 'comparable' quintile for 2012
83 quint12rl  :  real 'comparable' quintile for 2012
84 nonfood2_1 :  best for 2012 nominal nonfood exp. - using rentexp2_1
85 nonfood2rl_1 :  best for 2012 real nonfood exp. - using rentexp2_`i
86 pcnonfood2rl_1 :
87 hlthex_3   :
88 nonfood2_1ha :
89 nonfood2rl_1ha :
90 pcnonfood2rl_1ha :
91 hhex2nom_1 :  best for 2012 nominal total exp. - using rentexp2_1
92 hhex2nom_1ha :
93 hhexp2rl_1 :  best for 2012 real total exp. - using rentexp2_`i
94 hhexp2rl_1ha :
95 pcex2nom_1 :  best for 2012 nominal pc exp. - using rentexp2_`i
96 pcex2nom_1ha :
97 pcexp2rl_1 :  best for 2012 real per capita exp. - using rentexp2_`i
98 pcexp2rl_1ha :
99 test4      :
100 test5      :
101 check5     :
102 check6     :
103 quint12bnom_1 :  best nominal quintile for 2012 - using rentexp2_1
104 dec12bnom_1 :  best nominal decile for 2012 - using rentexp2_1
105 quint12bnom_1ha :
106 dec12bnom_1ha :
107 quint12brl_1 :  best real quintile for 2012 - using rentexp2_1
108 dec12brl_1 :  best real decile for 2012 - using rentexp2_1
109 quint12brl_1ha :
110 dec12brl_1ha :
111 quint12brl_1urb :  5 quantiles of pcexp2rl_1
112 dec12brl_1urb :  10 quantiles of pcexp2rl_1
113 quint12brl_1haurb :  5 quantiles of pcexp2rl_1ha
114 dec12brl_1haurb :  10 quantiles of pcexp2rl_1ha
115 quint12brl_1rur :  5 quantiles of pcexp2rl_1
116 dec12brl_1rur :  10 quantiles of pcexp2rl_1
117 quint12brl_1harur :  5 quantiles of pcexp2rl_1ha
118 dec12brl_1harur :  10 quantiles of pcexp2rl_1ha
119 fdshrex2nom_1 :
```

```
120 nonfdshrex2nom_1 :
121 durbusshrex2nom_1 :
122 educshrex2nom_1 :
123 hlthshrex2nom_1 :
124 watershrex2nom_1 :
125 garbshrex2nom_1 :
126 elecshrex2nom_1 :
127 rentshrex2nom_1 :
128 checkshr2nom_1 :
129 fdshrex2rl_1 :
130 nonfdshrex2rl_1 :
131 durbusshrex2rl_1 :
132 educshrex2rl_1 :
133 hlthshrex2rl_1 :
134 watershrex2rl_1 :
135 garbshrex2rl_1 :
136 elecshrex2rl_1 :
137 rentshrex2rl_1 :
138 checkshr2rl_1 :
139 nonfdto2rl :
140 durbus_2rl :
141 durbus_2rl10yr :
142 educex_2rl :
143 hlthex_2rl :
144 waterexp2rl :
145 garbexp2rl :
146 elecexp2rl :
147 rentexp2_1rl :
148 pcnonfdto2rl :
149 pcdurbus_2rl :
150 pceducex_2rl :
151 pchlthex_2rl :
152 pcwaterexp2rl :
153 pcgarbexp2rl :
154 pcelecexp2rl :
155 pcrentexp2_1rl :
156 pcfood2rl  :
157 pcnonfdto2nom :
158 pcdurbus_2nom :
159 pceducex_2nom :
160 pchlthex_2nom :
161 pcwaterexp2nom :
162 pcgarbexp2nom :
163 pcelecexp2nom :
164 pcrentexp2_1nom :
165 pcfood2nom :
166 fdshrex1nom :
167 nonfdshrex1nom :
168 durbusshrex1nom :
169 educshrex1nom :
```

```
170 hlthshrex1nom :
171 watershrex1nom :
172 garbshrex1nom :
173 elecshrex1nom :
174 rentshrex1nom :
175 checkshr1nom :
176 fdshrex1rl :
177 nonfdshrex1rl :
178 durbusshrex1rl :
179 educshrex1rl :
180 hlthshrex1rl :
181 watershrex1rl :
182 garbshrex1rl :
183 elecshrex1rl :
184 rentshrex1rl :
185 checkshr1rl :
186 nonfdto1rl :
187 durbus_1rl :
188 educex_1rl :
189 hlthex_1rl :
190 waterexp1rl :
191 garbexp1rl :
192 elecexp1rl :
193 rentexp1rl :
194 pcnonfdto1rl :
195 pcdurbus_1rl :
196 pceducex_1rl :
197 pchlthex_1rl :
198 pcwaterexp1rl :
199 pcgarbexp1rl :
200 pcelecexp1rl :
201 pcrentexp1rl :
202 pcfood1rl  :
203 pcnonfdto1nom :
204 pcdurbus_1nom :
205 pceducex_1nom :
206 pchlthex_1nom :
207 pcwaterexp1nom :
208 pcgarbexp1nom :
209 pcelecexp1nom :
210 pcrentexp1nom :
211 pcfood1nom :
212 foodrealspa1 :
213 pcfdxrlspa1 :
214 foodrealspa2 :
215 pcfdxrlspa2 :
216 nonfood1sparl :
217 hhexp1sparl :
218 pcexp1sparl :
219 nonfood2sparl_1 :
```

```
220 hhexp2spar|_1 :
221 pcexp2spar|_1 :
222 pcnonfdto2spar| :
223 pcdurbus_2spar| :
224 pceducex_2spar| :
225 pch|thex_2spar| :
226 pcwaterexp2spar| :
227 pcgarbexp2spar| :
228 pce|ecexp2spar| :
229 pcrentexp2_1spar| :
230 pcfood2spar| :
231 fdshrex2spar|_1 :
232 pcnonfdto1spar| :
233 pcdurbus_1spar| :
234 pceducex_1spar| :
235 pch|thex_1spar| :
236 pcwaterexp1spar| :
237 pcgarbexp1spar| :
238 pce|ecexp1spar| :
239 pcrentexp1spar| :
240 pcfood1spar| :
241 nonfood2spar|_1ha :
242 check7     :
243 hhexp2spar|_1ha :
244 pcexp2spar|_1ha :
245 fdshrex2spar|_1ha :
246 foodrea|tem1 :
247 pcfdxr|tem1 :
248 foodrea|tem2 :
249 pcfdxr|tem2 :
250 nonfood1temr| :
251 hhexp1temr| :
252 pcexp1temr| :
253 nonfood2temr|_1 :
254 hhexp2temr|_1 :
255 pcexp2temr|_1 :
256 pcnonfdto2temr| :
257 pcdurbus_2temr| :
258 pceducex_2temr| :
259 pch|thex_2temr| :
260 pcwaterexp2temr| :
261 pcgarbexp2temr| :
262 pce|ecexp2temr| :
263 pcrentexp2_1temr| :
264 pcfood2temr| :
265 pcnonfdto1temr| :
266 pcdurbus_1temr| :
267 pceducex_1temr| :
268 pch|thex_1temr| :
269 pcwaterexp1temr| :
```

270 pcgarbexp1temrl :
271 pcelecexp1temrl :
272 pcrentexp1temrl :
273 pcfood1temrl :

2 : muc1a
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 matv : ID code
7 m1ac2 : Sex
1 Male
2 Female
8 m1ac3 : Relationship
1 Household head
2 Wife/husband
3 Child
4 Father/mother
5 Paternal/maternal grandfather/grandmother
6 Paternal/maternal grandchild
7 Other relationships
9 m1ac4a : Month of birth
-2 KB
10 m1ac4b : Year of birth
11 m1ac5 : Age
12 m1ac6 : Marital status
1 Single
2 Married
3 Widowed
4 Divorced
5 Separated
13 m1ac7 : Number of months of staying in the household
-1 KXD
14 m1ac8 : Reason of not staying in the household for more than 6 months
1 student studies in the country
2 Cadre studies in the country
3 Medical treatment in the country/overseas
4 Newborn, newcomer
5 Hhold head working away
6 Others
15 m1ac9 : Place of household status registration
1 In resident area in com./ward
2 In other places in the province/city
3 In other province/city
4 Others
5 Never having registered household status
16 m1ac10 : Province of household status registration
-1 ***Undefined Label

```
                    4 ***Undefined Label
                    6 ***Undefined Label
                    8 ***Undefined Label
                   17 ***Undefined Label
                   22 ***Undefined Label
                   40 ***Undefined Label
                   42 ***Undefined Label
                   54 ***Undefined Label
                   56 ***Undefined Label
                   58 ***Undefined Label
                   60 ***Undefined Label
                   62 ***Undefined Label
                   64 ***Undefined Label
                   70 ***Undefined Label
                   72 ***Undefined Label
                   77 ***Undefined Label
                   89 ***Undefined Label
17 m1ac11n    :  Number of years of living in the province
                   -1 NR
18 m1ac11t    :  Number of months of living in the province
```

Remarks: Definition of child
The definition of child in VHLSS is different from that in population census. According to the Delegates from Vietnam, **the child in the relationship to the household head included biological child and son in law in VHLSS**. On the other, the child means biological child / natural child in the question on the relationship to the household head in Vietnam Population Census.

```
###  3 :  muc1b  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m1bma      :  ID code
 7 m1bc3      :  Sex
                    1 Male
                    2 Female
 8 m1bc4      :  Relationship
                    2 Wife/husband
                    3 Child
                    4 Father/mother
                    5 Paternal/maternal grandfather/grandmother
                    6 Paternal/maternal grandchild
                    7 Brother/sister
                    8 Brother/sister-in-law
                    9 Other relationships
 9 m1bc5      :  Year of birth
```

10 m1bc6 : The highest grade completed
11 m1bc7a : Qualification of universalized education and higher education
0 No qualification
1 Primary school
2 Lower secondary school
3 Upper secondary school
4 Elementary Vocational school
5 Middle-level vocational school
6 Professional vocational school
7 Vocational college
8 College
9 University
10 MA/MSc
11 PhD
12 Others
12 m1bc7b : Qualification of vocational education
0 Kh ォng
4 S ャ c ハ p ngh メ
5 Trung c ハ p ngh メ
6 TH CN
7 Cao ヨシ ng ngh メ
13 m1bc8 : Last year of study
-2 KB
-1 NR
9999 Dang di hoc
14 m1bc9 : First year of being far from household more than 6 months
-1 NR
15 m1bc10 : Main reason of leaving from household at the first time
1 For working
2 For study
3 For getting married
4 Household split
5 Devorcing/Separating
6 Go with family
7 Others
16 m1bc11 : Get job before leaving from household
1 Yes
2 No, still studying
3 No, not working
17 m1bc12am : Work description
18 m1bc12a : Occupation code
19 m1bc12bc : Name of office/organization
20 m1bc12bm : Description of main product
21 m1bc12b : Industry code
35 S カ n xu ハ t v オ ph ゥ n ph 鑲 ョ i ヨ n, kh ン ヨ鑼 ...
68 ***Undefined Label
84 ***Undefined Label
85 ***Undefined Label
99 ***Undefined Label
110 Trong trot

```
                  140 Chan nuoi
                  160 DV nong nghiep
                  170 San bat/danh bay/thuan duong
22 m1bc13     :  Destination
                    1 In the comm./ward
                    2 Other place in the province/city
                    3 Other pronvince/city
                    4 Abroad
23 m1bc14     :  Province/Country of destination
                   -1 NR
                    4 ***Undefined Label
                    6 ***Undefined Label
                    8 ***Undefined Label
                   17 ***Undefined Label
                   22 ***Undefined Label
                   40 ***Undefined Label
                   42 ***Undefined Label
                   54 ***Undefined Label
                   56 ***Undefined Label
                   58 ***Undefined Label
                   60 ***Undefined Label
                   62 ***Undefined Label
                   64 ***Undefined Label
                   70 ***Undefined Label
                   72 ***Undefined Label
                   77 ***Undefined Label
                   89 ***Undefined Label
                   99 Nuoc ngoai
24 m1bc15     :  Get job in new place
                    1 Co
                    2 Khong, dang di hoc
                    3 Khong, khong lam viec
25 m1bc16     :  Is it similar with the job before moving from household
                    1 Yes
                    2 No
26 m1bc17am   :  Work description
27 m1bc17a    :  Occupation code
28 m1bc17bc   :  Name of office/organization
29 m1bc17bm   :  Description of main product
30 m1bc17b    :  Industry code
                   35 Sカn xuハt vオ phゥn ph鑞 ョiヨn, khン ョ鑼 ...
                   68 ***Undefined Label
                   84 ***Undefined Label
                   85 ***Undefined Label
                   99 ***Undefined Label
                  110 Trong trot
                  140 Chan nuoi
                  160 DV nong nghiep
                  170 San bat/danh bay/thuan duong
31 m1bc18     :  Get job in 6 months after study finishing
```

```
                    1 Yes
                    2 No
                    3 Still studying
32 m1bc19     :  Year of starting work
                   -1 NR
33 m1bc20     :  Place of work
                    1 Trong Xa/Phuong
                    2 Noi khac trong Tinh/TP
                    3 Tinh/TP khac
                    4 Nuoc ngoai
34 m1bc21     :  Province/Country of work
                   -1 NR
                    4 ***Undefined Label
                    6 ***Undefined Label
                    8 ***Undefined Label
                   17 ***Undefined Label
                   22 ***Undefined Label
                   40 ***Undefined Label
                   42 ***Undefined Label
                   54 ***Undefined Label
                   56 ***Undefined Label
                   58 ***Undefined Label
                   60 ***Undefined Label
                   62 ***Undefined Label
                   64 ***Undefined Label
                   70 ***Undefined Label
                   72 ***Undefined Label
                   77 ***Undefined Label
                   89 ***Undefined Label
                   99 Nuoc ngoai
35 m1bc22     :  Similar or not with the job before moving
                    1 Yes
                    2 No
36 m1bc23am   :  Work description
37 m1bc23a    :  Occupation code
38 m1bc23bc   :  Name of office/organization
39 m1bc23bm   :  Description of main product
40 m1bc23b    :  Industry code
                   35 Sカn xuハt vオ phゥn ph鑞 ョiヨn, khン ョ鑼 ...
                   68 ***Undefined Label
                   84 ***Undefined Label
                   85 ***Undefined Label
                   99 ***Undefined Label
                  110 Trong trot
                  140 Chan nuoi
                  160 DV nong nghiep
                  170 San bat/danh bay/thuan duong
41 m1bc24     :  Still continuing this work
                    1 Yes
                    2 No
```

```
42 m1bc25     :  Get job in the last 6 months
                      1 Yes
                      2 No
43 m1bc26     :  Starting year of work
                     -1 NR
44 m1bc27     :  Current living place
                      1 Trong Xa/Phuong
                      2 Noi khac trong Tinh/TP
                      3 Tinh/TP khac
                      4 Nuoc ngoai
45 m1bc28     :  Working province
                     -1 NR
                      4 ***Undefined Label
                      6 ***Undefined Label
                      8 ***Undefined Label
                     17 ***Undefined Label
                     22 ***Undefined Label
                     40 ***Undefined Label
                     42 ***Undefined Label
                     54 ***Undefined Label
                     56 ***Undefined Label
                     58 ***Undefined Label
                     60 ***Undefined Label
                     62 ***Undefined Label
                     64 ***Undefined Label
                     70 ***Undefined Label
                     72 ***Undefined Label
                     77 ***Undefined Label
                     89 ***Undefined Label
                     99 Nuoc ngoai
46 m1bc29     :  Similar or not with work before moving from household
                      1 Yes
                      2 No
47 m1bc30am   :  Work description
48 m1bc30a    :  Occupation code
49 m1bc30bc   :  Name of office/organization
50 m1bc30bm   :  Description of main product
51 m1bc30b    :  Industry code
                     35 Sカn xuハt vオ phゥn ph鑞 ョiヨn, khン ョ鑼 ...
                     68 ***Undefined Label
                     84 ***Undefined Label
                     85 ***Undefined Label
                     99 ***Undefined Label
                    110 Trong trot
                    140 Chan nuoi
                    160 DV nong nghiep
                    170 San bat/danh bay/thuan duong
52 m1bc31     :  Current living place
                      1 In private house
                      2 Stay with friends/relatives
```

```
                    3 Stay with the employer
                    4 In residental quarter for employees
                    5 In renting house
                    6 others
53 m1bc32     :  Remittance and value of in-kind presents the household received
                   -1 NR
54 m1bc33a    :  Remittance and value of in-kind presents the household given
                   -1 NR
55 m1bc33b    :  Percentage of loan
                   -1 NR
56 m1bc34     :  Number of home visi
                   -1 NR
57 m1bc35     :  Intention of coming back home
                    1 Yes, in next year
                    2 Yes, but don't know when
                    3 No
                    4 Don't know
58 m1bc36     :  Maximum ammount of monney the emigrant can give the household
                   -1 NR
59 m1bc37     :  Maximum ammount of monney the household can give the emigrant
                   -1 NR
60 m1bc38     :  Register household status with the household
                    1 in the same household record book
                    2 In the same comm./ward
                    3 In the same district
                    4 Others
61 m1bc39     :  Province of household status registration
                   -1 NR
                    4 ***Undefined Label
                    6 ***Undefined Label
                    8 ***Undefined Label
                   17 ***Undefined Label
                   22 ***Undefined Label
                   40 ***Undefined Label
                   42 ***Undefined Label
                   54 ***Undefined Label
                   56 ***Undefined Label
                   58 ***Undefined Label
                   60 ***Undefined Label
                   62 ***Undefined Label
                   64 ***Undefined Label
                   70 ***Undefined Label
                   72 ***Undefined Label
                   77 ***Undefined Label
                   89 ***Undefined Label
                   99 Nuoc ngoai
62 m1bc40     :  Phone number

 ###  4 :  muc1c  ###########
 1 tinh       :  Province
```

```
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m1cc3      :  ID code in VHLSS2010
 7 m1cc4      :  Sex
                      1 Male
                      2 Female
 8 m1cc5      :  Age
 9 m1cc6      :  Being household member this year
                      1 Yes
                      2 No
10 m1cc7      :  ID code in Section 1A
11 m1cc8      :  Reason of not living in the household anymore
                      1 Moved, household split
                      2 Died
                      3 Others
12 m1cc9      :  Reason of moving out of the household
                      1 For work
                      2 Married
                      3 Household split
                      4 For study
                      5 Go with family
                      6 Others
13 m1cc10     :  Province of work
                     -1 NR
                      4 ***Undefined Label
                      6 ***Undefined Label
                      8 ***Undefined Label
                     17 ***Undefined Label
                     22 ***Undefined Label
                     40 ***Undefined Label
                     42 ***Undefined Label
                     54 ***Undefined Label
                     56 ***Undefined Label
                     58 ***Undefined Label
                     60 ***Undefined Label
                     62 ***Undefined Label
                     64 ***Undefined Label
                     70 ***Undefined Label
                     72 ***Undefined Label
                     77 ***Undefined Label
                     89 ***Undefined Label
                     99 Nuoc ngoai
14 m1cc11     :  Occupation code
                     -1 NR
15 ghep       :  Household member status between VHLSS 2010 and VHLSS 2012
                      0 Khong DT 2010
                      1 Co SL 2010
                      9 SL 2010 ko khop hoac ko tim thay
```

5 : Muc2
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 matv : Member code
7 m2c1 : Grade completed
8 m2c2a : The highest qualification - General education and college-level upwards
0 No qualification
1 Primary
2 Lower secondary
3 Higher secondary
4 Elementary vocational school
5 Middle-level vocational school
6 Professional school
7 Vocational college
8 College
9 University
10 MA/MSc
11 PhD
12 Others
9 m2c2b : The highest qualification - Vocational training
0 No qualification
1 Primary
2 Lower secondary
3 Higher secondary
4 Elementary vocational school
5 Middle-level vocational school
6 Professional school
7 Vocational college
8 College
9 University
10 MA/MSc
11 PhD
12 Others
10 m2c3 : Type of school
1 Public
2 Semi-public
3 Community-established
4 Private
5 Others
11 m2c4 : Go to school now?
1 Yes
2 On summer vacation
3 No
12 m2c5 : Attend school over the past 12 months?
1 Yes

2 No

13 m2c6 : Level of education
0 Nursery, kindergarten
1 Primary
2 Lower secondary
3 Higher secondary
4 Elementary vocational school
5 Middle-level vocational school
6 Professional school
7 Vocational college
8 College
9 University
10 MA/MSc
11 PhD
12 Others

14 m2c7 : Which grade is [name] attending?
-1 NR

15 m2c8 : Which school does [name] attend?
1 Public
2 Community-established
3 Private
4 Others

16 m2c9 : Reduction of or exemption from tuition fees or contributions to education?
1 Yes
2 No

17 m2c10a : Reasons for reduction/exemption from tuition fees?
1 Poor households
2 Ethnic minorities
3 Households of fallen combatants
4 War invalids, sick soldiers, or with revolutionary merits
5 Deep, remote, especially difficult areas
6 Families in difficult circumstances
7 Primary school students
8 School doesn't collect tuition fees
9 Others

18 m2c10b : Reasons for reduction/exemption from contribution?
1 Poor households
2 Ethnic minorities
3 Households of fallen combatants
4 War invalids, sick soldiers, or with revolutionary merits
5 Deep, remote, especially difficult areas
6 Families in difficult circumstances
7 Primary school students
8 School doesn't collect tuition fees
9 Others

19 m2c11a : Tuition fees?
-2 KB
0 0

20 m2c11b : Charge for not following a relevant reference system?

```
                    -2 KB
                     0 0
21 m2c11c     :  Contributions to school, class(construction fund,...)?
                    -2 KB
                     0 0
22 m2c11d     :  Parent fund, class fund?
                    -2 KB
                     0 0
23 m2c11e     :  Uniforms and costumes as stipulated?
                    -2 KB
                     0 0
24 m2c11f     :  Textbooks, reference books?
                    -2 KB
                     0 0
25 m2c11g     :  Other study instruments?
                    -2 KB
                     0 0
26 m2c11h     :  Coaching sessions for compulsory subjects in school?
                    -2 KB
                     0 0
27 m2c11i     :  Other education expenditures?
                    -2 KB
                     0 0
28 m2c11k     :  Total
                     0 0
29 m2c12      :  Funds received from organisations that provide aid in education over
the past 12
                     0 0
30 m2c13      :  Values of scholarships and rewards received over the last 12 months?
                     0 0
31 m2c14       :  Expenditures for other education and training over the past 12
months?
                     0 0
32 m2c15a     :  Toys bought in shops
                     1 Yes
                     2 No
33 m2c15b     :  Self-made toys
                     1 Yes
                     2 No
34 m2c16      :  How many books/cartoon stories does your HH have for children?
                    -1 NR

 ###  6 :  Muc3A  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 matv       :  Member code
 7 m3c2       :  Names of users of medical services over the last 12 months?
```

 8 m3c3a   : Sequence number
 9 m3c3b   : Medical establishment code
                       1 Village/hamlet clinics
                       2 Commune/ward clinics
                       3 Regional general clinics.
                       4 Urban/rural district hospitals
                       5 Provincial/city hospitals
                       6 Central hospitals
                       7 Other state-run hospitals
                       8 Private hospitals
                       9 Other hospitals
                      10 Private practice
                      11 Traditional herbal physicians
                      12 Individual medical services
                      13 Other medical establishments
10 m3c4   : Reasons for medical establishments visit?
                       1 Vaccination
                       2 Pregnancy checks, insertion of intrauterine devices, abortion,
birth delivery
                       3 Health checks and consultancy
                       4 Medical treatment
11 m3c5a   : Number of visits for health checks/non-resident treatment
                       0 0
12 m3c5b   : Costs for health checks/non-resident treatment
                       0 0
13 m3c6a   : Number of visits for resident treatment
                       0 0
14 m3c6b   : Costs of visits for resident treatment
                       0 0
15 m3c7   : Did the household afford the medical check/treatment?
                       1 Yes, it did
                       2 It had some but not enough
                       3 No
16 m3c8   : What to do if it did have some but not enough or didn't afford and
how much
                       0 0

 ### 7 : Muc3B ###########
 1 tinh   : Province
 2 huyen   : District
 3 xa   : Commune
 4 diaban   : Enumerator area
 5 hoso   : Household code
 6 matv   : ID code
 7 m3c9   : Health insurance card in the last 12 months
                       1 Yes
                       2 No
 8 m3c10a   : The first type
                       1 Booklet/card for children aged 6 or less
                       2 Health insurance card for the poor

```
                    3 Health insurance card for the near-poor
                    4 Free healthcare booklet/card/certificate
                    5 Health insurance card for policy beneficiaries
                    6 Other compulsory state-run health insurance card
                    7 Other compulsory non-state health insurance card
                    8 Voluntary health insurance card for students
                    9 Other voluntary health insurance card
                   10 Others
 9 m3c10b     :  The second type
                    1 Booklet/card for children aged 6 or less
                    2 Health insurance card for the poor
                    3 Health insurance card for the near-poor
                    4 Free healthcare booklet/card/certificate
                    5 Health insurance card for policy beneficiaries
                    6 Other compulsory state-run health insurance card
                    7 Other compulsory non-state health insurance card
                    8 Voluntary health insurance card for students
                    9 Other voluntary health insurance card
                   10 Others
10 m3c11      :  spent on health insurance
                   -1 NR
                    0 0
11 m3c12a     :  Out-service
                    1 Yes
                    2 No
12 m3c12b     :  In-service
                    1 Yes
                    2 No
13 m3c13      :  spent on purchasing medicines
                    0 0
14 m3c14      :  spent on purchasing medical facilities
                    0 0
15 m3c15      :  value of grants
                    0 0

 ###  8 :  Muc4A  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 matv       :  ID code
 7 m4ac1a     :  waged/salaried employment
                    1 Yes
                    2 No
 8 m4ac1b     :  Self-employment in agriculture, forestry, aquaculture
                    1 Yes
                    2 No
 9 m4ac1c     :  Self-engagement in production, business, services
                    1 Yes
```

```
                    2 No
10 m4ac2      :  Having job?
                    1 Yes
                    2 No
11 m4ac3a     :  Number of work days
                   -1 KXD
12 m4ac3m     :  Work description
13 m4ac3      :  Occupation code
14 m4ac4c     :  Names of employer
15 m4ac4m     :  Description of employer's main tasks/products
16 m4ac4      :  Industry code
                   35 Production and distribution of electricity, gas, hot water,
steam and air conditioners
                  110 Agriculture and related services: crop production
                  140 Agriculture and related services: husbandry
                  160 Agriculture and related services: agricultural services
17 m4ac5      :  Perform the job over the last 30 days
                    1 Yes
                    2 No
18 m4ac6      :  Number of work days for the last 30 days
                   -1 NR
19 m4ac7      :  Average work hours per work day
                   -1 NR
20 m4ac8a     :  8a.Economic types
                    1 Farming, forestry, aquaculture households / individuals
                    2 Independent production and business households
                    3 Collective
                    4 Private
                    5 State-run
                    6 Foreign-invested
21 m4ac8b     :  8b.Being a public employee, public or civil servant?
                    1 Yes
                    2 No
22 m4ac9      :  Receive salaries, wages for this job?
                    1 Yes
                    2 No
23 m4ac10     :  cash and kind received over the past 30 days?
                   -1 KXD
24 m4ac11     :  salaries/wages received over the past 12 months?
                   -1 KXD
25 m4ac12a    :  Cash and kind received on Festive occasions
                   -1 KXD
26 m4ac12b    :  Other ammounts
                   -1 KXD
27 m4ac13a    :  Signing a payroll book?
                    1 Yes
                    2 No
28 m4ac13b    :  Paid leave/holidays?
                    1 Yes
                    2 No
```

29 m4ac13c : Social insurance?
1 Yes
2 No
30 m4ac14 : Any other jobs?
1 Yes
2 No
31 m4ac15a : Number of work days over the past 12 months?
-1 KXD
32 m4ac15m : Work description
33 m4ac15 : Occupation code
34 m4ac16c : Names of employer
35 m4ac16m : Description of main tasks/products of employer
36 m4ac16 : Industry code
35 Production and distribution of electricity, gas, hot water, steam and air conditioners
110 Agriculture and related services: crop production
140 Agriculture and related services: husbandry
160 Agriculture and related services: agricultural services
37 m4ac17 : Perform the job over the last 30 days?
1 Yes
2 No
38 m4ac18 : Number of work days over the last 30 days
-1 NR
39 m4ac19 : Average work hours per work day
-1 NR
40 m4ac20 : For which organizations/individuals?
1 Farming, forestry, aquaculture households / individuals
2 Independent production and business households
3 Collective
4 Private
5 State-run
6 Foreign-invested
41 m4ac21 : Receive wage/salary?
1 Yes
2 No
42 m4ac22 : Wage/salary received in the past 1 months- second job
-1 KXD
43 m4ac23 : Wage/salary received in the past 12 months- second job
-1 KXD
44 m4ac24a : Cash and kind received on Festive occasions
-1 KXD
45 m4ac24b : Other incomes
-1 KXD
46 m4ac25 : Take any other waged/salaried job?
1 Yes
2 No
47 m4ac26 : Income from these job?
-1 KXD
48 m4ac27 : Receive unemployment benefits, one-off severance pays, pensions?
1 Yes

```
                    2 No
49 m4ac28a    :  unemployment allowance
                   -1 KXD
50 m4ac28b    :  one-off severance pay
                   -1 KXD
51 m4ac28c    :  standard pension at a stipulated age
                   -1 KXD
52 m4ac28d    :  premature pension
                   -1 KXD
53 m4ac28e    :  allowance for loss of working capacity
                   -1 KXD

 ###  9 :  Muc4A2  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 matv       :  ID code
 7 m4a2c1     :  Moving out of the household
                    1 Yes
                    2 No
 8 m4a2c2     :  The first year of moving out
                   -1 NR
 9 m4a2c3     :  Destination
                    1 Noi khac trong Xa/Phuong
                    2 Noi khac trong Tinh/TP
                    3 Tinh/TP khac
                    4 Nuoc ngoai
                    9 NR
10 m4a2c4     :  Province/country of destination
                   -1 NR
                    4 ***Undefined Label
                    6 ***Undefined Label
                    8 ***Undefined Label
                   17 ***Undefined Label
                   22 ***Undefined Label
                   40 ***Undefined Label
                   42 ***Undefined Label
                   54 ***Undefined Label
                   56 ***Undefined Label
                   58 ***Undefined Label
                   60 ***Undefined Label
                   62 ***Undefined Label
                   64 ***Undefined Label
                   70 ***Undefined Label
                   72 ***Undefined Label
                   77 ***Undefined Label
                   89 ***Undefined Label
                   99 Nuoc ngoai
```

```
11 m4a2c5     :  The most time-consuming job
                      1 The most time-consuming job
                      2 The second most time-consuming job
                      3 Others
                      4 No job
12 m4a2c6am   :  Work description
13 m4a2c6a    :  Occupation code
14 m4a2c6bc   :  Name of employer
15 m4a2c6bm   :  Description of main tasks/products of employer
16 m4a2c6b    :  Industry code
                     35 Sカn xuハt vオ phゥn ph鑲 ョiヨn, khン ョ鑼 ...
                     68 ***Undefined Label
                     84 ***Undefined Label
                     85 ***Undefined Label
                     99 ***Undefined Label
                    110 Trong trot
                    140 Chan nuoi
                    160 DV nong nghiep
                    170 San bat, danh bay
17 m4a2c7     :  Year of home coming back
                     -1 NR
                   9999 Chua tro lai ho
18 m4a2c8     :  Number of moves out
                     -1 NR

 ###  10 :  Muc4B0  ###########
 1 tinh       :  Tリnh
 2 huyen      :  Huyヨn
 3 xa         :  Xキ
 4 diaban     :  ァ a bオn
 5 hoso       :
 6 m4b0ma     :  Mキ loケi ョハt
 7 m4b0c3     :  3. T誅g diヨn tンch (m2)
                     -1 NR
 8 m4b0c4     :  4. Tiメn chi thuェ ョハt
                     -1 NR
 9 m4b0c5     :  5. Tiメn thu thuェ ョハt
                     -1 NR

 ###  11 :  Muc4B11  ###########
 1 tinh       :  Tリnh
 2 huyen      :  Huyヨn
 3 xa         :  Xキ
 4 diaban     :  ァ a bオn
 5 hoso       :
 6 m4b11ma    :
                      0 0
                      1 L□tホ ョオng xuゥn
                      2 L□tホ hフ thu
                      3
```

```
                    4 L □ t ホ ヨハ t n ュャ ng r ノ y
                    5 L □ t ホ c カ n ィ m
                    6 L □ n ュ p c カ n ィ m
                    7 L □ ヨィ c s カ n
 7 m4b11c3    :  3. Di ヨ n t ン ch gieo tr 蚣 g
                   -1 NR
 8 m4b11c4    :  4. Thu ho ケ ch bao nhi ェ u kg
                   -1 NR
 9 m4b11c5    :  5. Thu ho ケ ch b ゛ m ハ t do...
                   -1 NR
10 m4b11c6    :  6. B ク n/ヨ詈 bao nhi ェ u kg
                   -1 NR
11 m4b11c7    :
                   -1 NR
12 m4b11c8    :  8. Tr ゛ gi ク s カ n ph ネ m ヨキ thu ho ケ ch

 ###  12 :  Muc4B12  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4b12ma    :  Order number
                    8 Maize (corn)
                    9 Sweet potato
                   10 Cassava/manioc
                   11 Other staple food crops
                   12 Potato
                   13 Morning glory vegetable
                   14 Kohlrabi
                   15 Cabbage, cauliflower
                   16 Cruciferous vegetables
                   17 Edible beans
                   18 Tomato
                   19 Seasoning herb
                   20 Other edible vegetables, fruits and roots
                   21 Other annual crops (flowers, etc.)
 7 m4b12c3    :  Cultivated area
                   -1 NR
 8 m4b12c4    :  Output in KGs?
                   -1 NR
 9 m4b12c5    :  Amount put to sale and batter?
                   -1 NR
10 m4b12c6    :  total revenues from sale or barter?
                   -1 NR
11 m4b12c7    :  value of the output harvested

 ###  13 :  Muc4B13  ###########
 1 tinh       :  Province
 2 huyen      :  District
```

```
 3 xa          :  Commune
 4 diaban      :  Enumerator area
 5 hoso        :  Household code
 6 m4b13ma     :  Order number
                      22 Soya bean/soybean
                      23 Peanut/groundnut
                      24 Sesame
                      25 Sugarcane
                      26 Tobacco, rustic tobacco
                      27 Cotton
                      28 Jute, ramie (China grass)
                      29 Sedge
                      30 Other industrial annuals
                      31 Tea
                      32 Coffee
                      33 Rubber
                      34 Pepper
                      35 Coconut
                      36 Mulberry
                      37 Cashew
                      38 Other industrial perennials
 7 m4b13c3a    :  Quantity
                      -1 NR
 8 m4b13c3b    :  Code
                       1 M2
                       2 Unit
 9 m4b13c4     :  Output in KGs?
                      -1 NR
10 m4b13c5     :  Amount put to sale and batter?
                      -1 NR
11 m4b13c6     :  total revenues from sale or barter?
                      -1 NR
12 m4b13c7     :  value of the output harvested

 ###  14 :  Muc4B14  ###########
 1 tinh        :  Province
 2 huyen       :  District
 3 xa          :  Commune
 4 diaban      :  Enumerator area
 5 hoso        :  Household code
 6 m4b14ma     :  Order number
                      39 Citrus
                      40 Pineapple
                      41 Banana
                      42 Mango, horse mango
                      43 Indian jujube
                      44 Grape
                      45 Plum
                      46 Papaya
                      47 Longan, lychee, rambutan
```

```
                    48 Sapodilla
                    49 Sugar-apple, soursop
                    50 Jackfruit, durian
                    51 Mangosteen
                    52 Other fruit trees
                    53 Other perennials
                    54 Seedlings
 7 m4b14c3a   :  Quantity
                    -1 NR
 8 m4b14c3b   :  Code
                     1 M2
                     2 Unit
 9 m4b14c4    :  Output in KGs?
                    -1 NR
10 m4b14c5    :  Amount put to sale and batter?
                    -1 NR
11 m4b14c6    :  revenues from sale or barter?
                    -1 NR
12 m4b14c7    :  value of the output harvested

 ###  15 :  Muc4B15  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4b15ma    :  Code of crop by-products
                     1 Straw, thatch
                     2 Sweet potato leaves and stems
                     3 Cassava and maize stems
                     4 Stems of beans of all kinds
                     5 Sugarcane leaves and tops
                     6 Jute, ramie stems
                     7 Mulberry plant stems
                     8 Firewood
                     9 Other by products
                    10 Collected products
 7 m4b15c2    :  revenues from sale or barter?
                    -1 NR
 8 m4b15c3    :  Value of ammount used as animal feed
                    -1 NR
 9 m4b15c4    :  Value of ammount used for other purposes?
                    -1 NR
10 m4b15c5    :  Total value of by-products harvested

 ###  16 :  Muc4B16  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
```

```
 5 hoso       :  Household code
 6 m4b16ma    :  Order number
                      1 Seeds
                      2 Saplings
                      3 Chemical fertilizers
                      4 Organic fertilizers(seft-provided)
                      5 Organic fertilizers (bought)
                      6 pesticides
                      7 Herbicides
                      8 Small, non-durable tools
                     10 Small repairs, maintenance
                     11 Fixed asset depreciation
                     12 Land rental and procurement
                     13 Hire of assets, machines, vehicles and mechanical work; hire
of transport
                     14 Hire of ploughing cattle
                     15 Paying outsourced labour
                     16 Inner-field irrigation
                     17 Payment of interest on loans taken out for production
                     18 Other costs
                     91 Electricity
                     92 Coal
                     93 Coal briquette
                     94 Petrol
                     95 Kerosene
                     96 Mazut oil
                     97 Diesel oil
                     98 LPG
                     99 Natural gas
                    910 Firewood
                    911 Other energy and fuels
 7 m4b16c2a   :  Rice
                     -2 KB
 8 m4b16c2b   :  Staple food and other non-staple food crops
                     -2 KB
 9 m4b16c2c   :  Industrial crops
                     -2 KB
10 m4b16c2d   :  Fruit crops and other trees except forest trees
                     -2 KB
11 m4b16c2e   :  Total cost of cultivation
12 m4b16c2e1  :  State subsidy
                     -2 KB
13 m4b16c2e2  :  Other assistance
                     -2 KB

 ###  17 :  Muc4B21  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
```

5 hoso : Household code
6 m4b21ma : Order number
1 Live pig pork
2 Live buffalo and cow meat
3 Horses
4 Sheep, goats
5 Chickens
6 Ducks, thai ducks, geese
7 Other poultry
8 Pigs for breed
9 Buffaloes, oxen, cows for breed
10 Other cattle for breed
11 Other livestocks
12 Poultry eggs
13 Fresh milk
14 Silkworm cocoond
15 Bee's honey
16 Other livestock(non-slaughtered)
17 Other income from breeding
18 Livestock breeding by products
19 Hunting, trapping and domesticating forest animals and birds
7 m4b21c3 : Quantity obtained over the last 12 months?
-1 NR
8 m4b21c4a : Quantity of products sold/bartered/paid as wage/given away
-1 NR
9 m4b21c4b : Value of products sold/bartered/paid as wage/given away
-1 NR
10 m4b21c5 : Value of the output obtained over the last 12 months

18 : Muc4B22
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 m4b22ma : Order number
1 Pigs
2 Water buffalos, cows
3 Horses
4 Sheep, goats
5 Chickens
6 Ducks, Thai ducks, geese
7 Other poultry
8 Bees
9 Silkworms
10 Others
11 Hungtin trapping and domesticating forest animals and birds
7 m4b22c7 : Young animals, poultry, and livestock
-2 KB
8 m4b22c8 : feed

```
                    -2 KB
 9 m4b22c9     :  Medicine for cattle, poultry
                    -2 KB
10 m4b22c10a   :  Electricity
                    -2 KB
11 m4b22c10b   :  Coal
                    -2 KB
12 m4b22c10c   :  Coal/Briquette
                    -2 KB
13 m4b22c10d   :  Petrol
                    -2 KB
14 m4b22c10e   :  Kerosene
                    -2 KB
15 m4b22c10f   :  Mazut oil
                    -2 KB
16 m4b22c10g   :  Diesel oil
                    -2 KB
17 m4b22c10h   :  LPG
                    -2 KB
18 m4b22c10i   :  Natural gas
                    -2 KB
19 m4b22c10j   :  Firewood
                    -2 KB
20 m4b22c10k   :  Others
                    -2 KB
21 m4b22c11    :  Water
                    -2 KB
22 m4b22c12    :  Depreciation of fixed assets
                    -2 KB
23 m4b22c13    :  Land rental and procurement
                    -2 KB
24 m4b22c14    :  Hiring of machines , vehicles, slaughter, and transport
                    -2 KB
25 m4b22c15    :  Pay for outsourced labor
                    -2 KB
26 m4b22c16    :  Payment of interest on loans for husbandry
                    -2 KB
27 m4b22c17    :  Business taxes
                    -2 KB
28 m4b22c18    :  Other costs
                    -2 KB
29 m4b22c19    :  Total

 ###  19 :  Muc4B31  ###########
 1 tinh        :  Province
 2 huyen       :  District
 3 xa          :  Commune
 4 diaban      :  Enumerator area
 5 hoso        :  Household code
 6 m4b31ma     :  Order number
```

```
                    1 Ploughing and soil preparation
                    2 Irrigation
                    3 Pest prevention and control
                    4 Rice threshing, semi-processing
                    5 Other services
 7 m4b31c3    :  Number of months of activities
 8 m4b31c4    :  Average monthly income
 9 m4b31c5    :  Total revenue

 ###  20 :  Muc4B32  ###########
 1 tinh       :  TリnH
 2 huyen      :  HuyヨN
 3 xa         :  Xキ
 4 diaban     :  ァ゛a bオn
 5 hoso       :
 6 m4b32ma    :
                    0 0
                    1 Cオy x劦, lオm ヨハt
                    2 Tュ劦 tiェu nュ癢
                    3
                    4 Tu鑼 l口 sャ chュ SP
                    5 DV khク c
 7 m4b32c7    :  7. Chi NVLiヨu
                   -2 KB
 8 m4b32c8    :
                   -2 KB
 9 m4b32c9a   :  9A. Dien
                   -2 KB
10 m4b32c9b   :  9B. Than da
                   -2 KB
11 m4b32c9c   :  9c. Than banh,to ong
                   -2 KB
12 m4b32c9d   :  9d. Xang
                   -2 KB
13 m4b32c9e   :  9e. Dau hoa
                   -2 KB
14 m4b32c9f   :  9f. Dau mazut
                   -2 KB
15 m4b32c9g   :  9g.Dau diesel
                   -2 KB
16 m4b32c9h   :  9h.Ga hoa long
                   -2 KB
17 m4b32c9i   :  9i. Khi thien nhien
                   -2 KB
18 m4b32c9j   :  9j. Cui
                   -2 KB
19 m4b32c9k   :  9k. Nhien lieu khac
                   -2 KB
20 m4b32c10   :  10. Sua chua nho, bao duong
                   -2 KB
```

```
21 m4b32c11   :  11. Khハu hao TSCァ
                     -2 KB
22 m4b32c12   :
                     -2 KB
23 m4b32c13   :  13. Trカ cォng Lァ
                     -2 KB
24 m4b32c14   :  14. Trカ lキi tiメn vay
                     -2 KB
25 m4b32c15   :  15. Thuュ kinh doanh
                     -2 KB
26 m4b32c16   :  16. Chi phン khクc
                     -2 KB
27 m4b32c17   :  17. T誅g chi phン

 ###  21 :  Muc4B41  ###########
 1 tinh       :  Tリnh
 2 huyen      :  Huyヨn
 3 xa         :  Xキ
 4 diaban     :  ァ゛a bオn
 5 hoso       :
 6 m4b41ma    :
                      0 0
                      1
                      2 Quュ
                      3 H虔
                      4 Thォng
                      5 Cゥy cクnh kiュn
                      6
                      7 Tre, lu蚣g, n口
                      8
                      9 D口 nュ癨
                     10 Cゥy LN khクc
                     11 C口
                     12
                     13 Gi鈩g cゥy LN & SP nhu nhニt
                     14 DV LN khクc
 7 m4b41c3a   :
 8 m4b41c3b   :
                     -2 KB
 9 m4b41c3c   :
                     -2 KB
10 m4b41c3d   :
                     -2 KB
11 m4b41c3e   :  3e. ヨハt r口g khクc
                     -2 KB
12 m4b41c3f   :
                     -2 KB
13 m4b41c4    :  4. Bクn, ヨ詈

 ###  22 :  Muc4B42  ###########
```

```
 1 tinh       :  TリnH
 2 huyen      :  HuyヨN
 3 xa         :  Xキ
 4 diaban     :  ァ゛a bオn
 5 hoso       :
 6 m4b42ma    :
                      0 0
                      1 Hァ lゥm nghiヨp
                      2 DV lゥm nghiヨp
                      3
 7 m4b42c1    :  1. Hケt gi鈩g, cゥy gi鈩g
                    -2 KB
 8 m4b42c2    :  2. PhゥN b繊 cクc loケi
                    -2 KB
 9 m4b42c3    :
                    -2 KB
10 m4b42c4a   :  4A. Dien
                    -2 KB
11 m4b42c4b   :  4B. Than da
                    -2 KB
12 m4b42c4c   :  4C. Than banh/to ong
                    -2 KB
13 m4b42c4d   :  4D. Xang
                    -2 KB
14 m4b42c4e   :  4E. Dau hoa
                    -2 KB
15 m4b42c4f   :  4F. Dau mazut
                    -2 KB
16 m4b42c4g   :  4G. Dau diesel
                    -2 KB
17 m4b42c4h   :  4I. Ga hoa long
                    -2 KB
18 m4b42c4i   :  4J.Khi thien nhien
                    -2 KB
19 m4b42c4j   :  4J. cui
                    -2 KB
20 m4b42c4k   :  4K. Nhien lieu khac
                    -2 KB
21 m4b42c5    :
                    -2 KB
22 m4b42c6    :  6. Khハu hao TSCァ
                    -2 KB
23 m4b42c7    :  7. Thuェ vオ ヨハu thヌu
                    -2 KB
24 m4b42c8    :  8. Thuェ TS, MM,..
                    -2 KB
25 m4b42c9    :  9. Thuェ s□vヒt
                    -2 KB
26 m4b42c10   :  10. Trカ cォng Lァ
                    -2 KB
```

```
27 m4b42c11   :  11. Trカ lキi tiメn vay
                     -2 KB
28 m4b42c12   :  12. Thuュ kinh doanh
                     -2 KB
29 m4b42c13   :  13. Cクc khoカn chi khクc
                     -2 KB
30 m4b42c14   :  14. T誅g chi phン (1+...+13)

 ###  23 :  Muc4B51  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4b51ma    :  Order number
                     11 Fish
                     12 Shrimp
                     13 Shrimp and fish for breed
                     14 Other aquacultural products
                     21 Fish
                     22 Shrimp
                     23 Other aquacultural products
 7 m4b51c3    :  Total catch over the past 12 months?
 8 m4b51c4a   :  Quantity of sales, exchange, payment for labor, donation
                     -1 NR
 9 m4b51c4b   :  Value of sales, exchange, payment for labor, donation
                     -1 NR
10 m4b51c5    :  Total values of products gained

 ###  24 :  Muc4B52  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4b52ma    :  Order number
                      1 Aquaculture production
                      2 Aquaculture catch
                      3 Aquaculture services
 7 m4b52c6    :  aquacultural breeds
                     -2 KB
 8 m4b52c7    :  feeds
                     -2 KB
 9 m4b52c8    :  small instruments, cheap, low-quality goods
                     -2 KB
10 m4b52c9a   :  Electricity
                     -2 KB
11 m4b52c9b   :  Coal
                     -2 KB
12 m4b52c9c   :  Coal briquette
```

```
                    -2 KB
13 m4b52c9d   :  Petrol
                    -2 KB
14 m4b52c9e   :  Kerosene
                    -2 KB
15 m4b52c9f   :  Mazut (oil)
                    -2 KB
16 m4b52c9g   :  Diesel (oil)
                    -2 KB
17 m4b52c9h   :  LPG
                    -2 KB
18 m4b52c9i   :  Natural gas
                    -2 KB
19 m4b52c9j   :  Fuel-wood
                    -2 KB
20 m4b52c9k   :  Others
                    -2 KB
21 m4b52c10   :  Salt, ice water
                    -2 KB
22 m4b52c11   :  small repairs, maintenance
                    -2 KB
23 m4b52c12   :  Fixed assets depreciation
                    -2 KB
24 m4b52c13   :  land rental and auction
                    -2 KB
25 m4b52c14   :  Rent of assets and machines, rented means of transport
                    -2 KB
26 m4b52c15   :  Costs of outsourced labor
                    -2 KB
27 m4b52c16   :  Payment for loan interest
                    -2 KB
28 m4b52c17   :  Business taxes
                    -2 KB
29 m4b52c18   :  Other costs
                    -2 KB
30 m4b52c19   :  Total cost

 ###  25 :  Muc4C1  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4c1ma     :  Order of sectoral activities
 7 m4c1c2     :  Industry code
                    35 ***Undefined Label
                    68 ***Undefined Label
                    84 ***Undefined Label
                    85 ***Undefined Label
                    99 ***Undefined Label
```

```
 8 m4c1c3     :  Number of months of activity over the past 12 months
 9 m4c1c4     :  HH's member possess this entire acitivity?
                      1 Yes
                      2 No
10 m4c1c5     :  Number of households possessed this acitivity
11 m4c1c6     :  The percentage of income received from this activity
12 m4c1c7     :  registered for business?
                      1 Yes, by type of enterprise
                      2 Yes, by type of individual household business
                      3 No
13 m4c1c8     :  The products are for selling/bartering/supplying services?
                      1 Yes
                      2 No
14 m4c1stt    :  Order number
15 m4c1c9     :  average revenue per month
                     -1 NR
16 m4c1c10    :  revenue over the past 12 months
17 m4c1c11    :  goods and services exchange?
                      1 Yes
                      2 No
18 m4c1c12    :  The value of exchanged goods and services
                     -1 NR
19 m4c1c13    :  Any product used or consumed by the household?
                      1 Yes
                      2 No
20 m4c1c14    :  value of products used or consumed?
                     -1 NR
21 m4c1c15    :  Any by-products used or sold by the household?
                      1 Yes
                      2 No
22 m4c1c16    :  value of by-products used or sold
                     -1 NR
23 m4c1c17    :  Total revenues
24 m4c1c18    :  Total revenues divided by HH

 ###  26 :  Muc4C2  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4c2ma     :  Order of activities
 7 m4c2c19    :  Main and minor materials
                     -1 NR
 8 m4c2c20    :  Small, cheap, undurable tools
                     -1 NR
 9 m4c2c21a   :  Electricity
                     -1 NR
10 m4c2c21b   :  Coal
                     -1 NR
```

```
11 m4c2c21c   :  Coal briquette
                     -1 NR
12 m4c2c21d   :  Petrol
                     -1 NR
13 m4c2c21e   :  Kerosene
                     -1 NR
14 m4c2c21f   :  Mazut (oil)
                     -1 NR
15 m4c2c21g   :  Diesel (oil)
                     -1 NR
16 m4c2c21h   :  LPG
                     -1 NR
17 m4c2c21i   :  Natural gas
                     -1 NR
18 m4c2c21j   :  Firewood
                     -1 NR
19 m4c2c21k   :  Others
                     -1 NR
20 m4c2c22    :  Water
                     -1 NR
21 m4c2stt    :  Order number
22 m4c2c23    :  Minor repair, maintenance
                     -1 NR
23 m4c2c24    :  Depreciation of fixed assets
                     -1 NR
24 m4c2c25    :  Rent of land, workshops, shops, machines and other means of production
                     -1 NR
25 m4c2c26    :  Transport (rents and charges)
                     -1 NR
26 m4c2c27    :  Costs of labour
                     -1 NR
27 m4c2c28    :  Loan interests
                     -1 NR
28 m4c2c29    :  Taxes, fees and charges regarded as taxes
                     -1 NR
29 m4c2c30    :  Costs of treatment of sewage and solid waste
                     -1 NR
30 m4c2c31    :  Other costs
                     -1 NR
31 m4c2c32    :  Total costs
32 m4c2c33    :  Total costs divided by household(s)

 ###  27 :  Muc4D  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m4dc2_01   :  Oversea remittance received in both cash and kinds
 7 m4dc2_02   :  Cash and kind (value) for domestic use sent as a gift... residing and
```

working ov
 8 m4dc2_03   : Gift of housing
 9 m4dc2_04   : Gift of automobile(s) for domestic use
10 m4dc2_05   : Other gifts of assets for domestic use
11 m4dc2_06   : Domestic remittance recieved in both cash and kind
12 m4dc2_07   : Cash and kind (value) for domestic use sent as a gift or... who work as seasonal
13 m4dc2_08   : Gift of housing
14 m4dc2_09   : Gift of automobile(s) for domestic use
15 m4dc2_10   : Other gifts of assets for domestic use
16 m4dc2_11   : Wedding cash
17 m4dc2_12   : Funeral cash tributes
18 m4dc2_13   : Social benefits for war invalids, families of fallen combatants...
19 m4dc2_14   : Social benefits for beneficiary households of social policies
20 m4dc2_15   : Assistance to overcome natural disasters and fire
21 m4dc2_16   : From types of insurance
22 m4dc2_17   : Withdrawal from saving, stocks, obtaining debts
23 m4dc2_18   : Revenues from renting out workshop floors, machines, assets, facilities
24 m4dc2_19   : Revenues as donations from organizations, humanitarian aid, associations and uni
25 m4dc2_20   : Others

 ### 28 : Muc5A1 ###########
 1 tinh   : Province
 2 huyen   : District
 3 xa   : Commune
 4 diaban   : Enumerator area
 5 hoso   : Household code
 6 m5a1ma   : Code
                  101 Fragrant, specialty rice
                  102 Sticky rice
                  110 Pork
                  111 Beef
                  112 Buffalo's meat
                  113 Chicken
                  114 Duck and other poultry meat
                  115 Other meat
                  116 Processed meat
                  118 Fresh fish, shrimp
                  120 Other seafoods
                  121 Eggs of Chicken or duck
                  124 Beans of all kinds
                  134 Fruit
                  139 Sugar, molassess
                  140 Cakees, candy, jam
                  144 Alcohol
                  145 Beer
                  148 Coffee
                  150 Dried tea

```
                    151 Cigarettes, tobacco
                    153 Outdoors eating
                    154 Other things
 7 m5a1ma1     :  1. Ma so trong do
                      1 1
                      2 2
 8 m5a1c2a     :  Quantity of purchase or exchange
                     -1 NR
 9 m5a1c2b     :  Value of purchase or exchange
                     -1 NR
10 m5a1c3a     :  Quantity of Self-subsidy, gift, donation
                     -1 NR
11 m5a1c3b     :  Value of Self-subsidy, gift, donation
                     -1 NR

 ###  29 :  Muc5A2  ###########
 1 tinh        :  Province
 2 huyen       :  District
 3 xa          :  Commune
 4 diaban      :  Enumerator area
 5 hoso        :  Household code
 6 m5a2ma      :  Code
                    101 Plain rice
                    102 Sticky rice
                    103 Maize
                    104 Cassaca
                    105 Various types of potatoes
                    106 Wheat grains,bread,wheat
                    107 Noodle, pho noodle, instant rice soup
                    108 Rice noodle
                    109 Vermicelli
                    110 Pork
                    111 Beef
                    112 Buffalo's meat
                    113 Chicken
                    114 Duck and other poultry meat
                    115 Other meat
                    116 Processed meat
                    117 Lard,cooking oil
                    118 Fresh fish, shrimp
                    119 Dried and processed fish shrimp
                    120 Other aquatic producs and seafoods
                    121 Chicken or duck eggs
                    122 Tofu
                    123 Peanuts, seasame seeds
                    124 beans
                    125 Various kinds of fresh pea
                    126 Water morning glory
                    127 Kohirabi
                    128 cabbage
```

```
                    129 tomatoes
                    130 Other vegetables
                    131 Oranges
                    132 Bananas
                    133 Mangoes
                    134 Other fruits
                    135 Fish sauce and dipping sauce
                    136 Salt
                    137 Spices, powdered soup
                    138 Glutamale
                    139 Sugar, molasses
                    140 Cakes, candied fruits, sweets
                    141 Condensed milk, powdered milk
                    142 Ice creams, yoghurt
                    143 fresh milk
                    144 Alcohol
                    145 Beer
                    146 bottle,canned,boxed beverages
                    147 Instant coffee
                    148 Powdered coffee
                    149 Instant tea powder
                    150 Other dried coffee
                    151 Cigarettes, tobacco
                    152 Betel leaf, areca nut, lime
                    153 Outdoors meals
                    154 Others
 7 m5a2ma1    :  1. Ma so trong do
                     1 1
                     2 2
                     3 3
 8 m5a2c2a    :  Consumed quantity
 9 m5a2c2b    :  Consumed value
10 m5a2c3a    :  Consumed quantity  of purchase or exchange
                    -1 NR
11 m5a2c3b    :  Consumed value  of purchase or exchange
                    -1 NR
12 m5a2c4a    :  Consumed quantity of self-subsidy
                    -1 NR
13 m5a2c4b    :  Consumed value of self-subsidy
                    -1 NR
14 m5a2c5a    :  Consumed quantity of gift, donation, present
                    -1 NR
15 m5a2c5b    :  Consumed value of gift, donation, present
                    -1 NR

 ###  30 :  Muc5B1  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
```

5 hoso : Household code
6 m5b1ma : Code
201 Pocket money for children
202 Coal
203 Coal briquette
204 Petroleum
205 Kerosene
206 Mazut oil
207 Diesel oil
208 LPG
209 Natural gas
210 Firewood,husk,sawdust
211 Farm by-products
212 Other type of fuel
213 Deposit fees for vehicles
214 Matches,candles,fire stones,lighters
215 Soap/detergent,softening solution
216 Dish washing,floor-cleaning liquid
217 Shampoo, conditioning
218 Bath soap,shower gel
219 Skin-nourishing cream,powder and lipsticks
220 Toothpaste, tooth brushes
221 Toilet paper, razorblades
222 Book, newspaper, magazines
223 Books,newspapers for children
224 Fresh flowers
225 Lottery tickets
226 Items for workship
227 Haircut, hairdressing
228 Other daily expenditures
7 m5b1c2 : Consumed quantity
8 m5b1c3 : Consumed quantity of purchase or exchange
-1 NR
9 m5b1c4 : Consumed quantity of self-subsidy
-1 NR
10 m5b1c5 : Consumed quantity of gift, donation, present
-1 NR

31 : Muc5B2
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 m5b2ma : which is the Items HH has consumed for last 12 months?
7 m5b2c2 : Consumed value of purchase or exchange
-1 NR
8 m5b2c3 : Consumed quantity of self-subsidy, gift, donation, present
-1 NR

```
 ###  32 :  Muc5B3  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m5b3c2_1   :  Fees and charges on administrative and legal services for daily-life
requirement
 7 m5b3c2_2   :  Fund contributions
 8 m5b3c2_3   :  Cash contributions in lieu of public labor and other obligations
 9 m5b3c2_4   :  Taxes of various kinds
10 m5b3c2_5   :  Engagement and wedding parties of the household
11 m5b3c2_6   :  Funeral and death anniversaries over the past 12 months
12 m5b3c2_7   :  Organization of parties and entertaining activities
13  m5b3c2_8     :   Gift,  donation,  assistance,  tributes,  contributions  to  death
anniversaries
14 m5b3c2_9   :  Other expenditures

 ###  33 :  Muc6  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m6ma_01    :  Automobile
 7 m6ma_02    :  Motorbike
 8 m6ma_03    :  Bicycle
 9 m6ma_04    :  Ship,boat,junk,outer part with a motor
10 m6ma_05    :  Ship,boat,junk,outer part without a motor
11 m6ma_06    :  Other means of travel
12 m6ma_07    :  Pumping machine
13 m6ma_08    :  Electricity generator
14 m6ma_09    :  Printer
15 m6ma_10    :  Fax machine
16 m6ma_11    :  Landline telephone
17 m6ma_12    :  Mobile telephone
18 m6ma_13    :  Sewing machine
19 m6ma_14    :  Video player,DVD player,digital player,satellite antenna
20 m6ma_15    :  Color TV
21 m6ma_16    :  Black and white TV
22 m6ma_17    :  Music rack
23 m6ma_18    :  Radio/radio-cassette player
24 m6ma_19    :  Disk player
25 m6ma_20    :  Computer
26 m6ma_21    :  Camera,video recorder
27 m6ma_22    :  Refrigerator
28 m6ma_23    :  Air conditioner
29 m6ma_24    :  Washing machine, drying machine
30 m6ma_25    :  Electric fan
31 m6ma_26    :  water heater
```

32 m6ma_27 : GAs cooker,magnetic cooker
33 m6ma_28 : Electric cooker,electric rice cooker,pressure cooker
34 m6ma_29 : Trolleys
35 m6ma_30 : Cupboard,cabinet,wardrobe
36 m6ma_31 : Bed
37 m6ma_32 : Desk,chair,long bench,dressing table
38 m6ma_33 : Vacuum cleaner,dehumidifier,water filter
39 m6ma_34 : Microwave oven,banking oven
40 m6ma_35 : Juice extractor,citrus juicer
41 m6ma_36 : Piano,keyboard
42 m6ma_37 : Others

34 : Muc6B
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 m6c2 : Code
7 m6c3 : Quantity
-1 NR
8 m6c4t : Month of purchase or receive or self-produce
-1 NR
9 m6c4n : Year of purchase or receive or self-produce
-1 NR
10 m6c5 : The value at purchase reception,self-production
11 m6c6 : Remaining value in current price
-1 NR

35 : Muc7
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 m7c1 : Number of houses/flats
7 m7c2 : Total residential area
-1 NR
8 m7c3 : Flat or house
1 Nhオ chung cɪ
2 Nhオ riɪng
9 m7c4a : The main material as poles(or pillars,or carrying walls) of the house
1 Reinforcement concrete
2 Bricks/stones
3 Iron/steel/good wood
4 Poor-quality wood/bamboo
5 Others
10 m7c4b : The main material as roofing of the house
1 Reinforcement concrete
2 Tiles (cement, terracotta)

3 Roof slabs (cement, metal)
4 Leave/straw/rolled roofing
5 Others

11 m7c4c : The main meterial as walls or surounding of the house
1 Reinforcement concrete
2 Bricks/stones
3 Wood/metal
4 Calcareous soil/straw
5 Bamboo partitions/hardboards
6 Others

12 m7c4d : Type of house
1 Kind of villa
2 self-contained permanent house
3 not-self-contained permanent house
4 Semi-permanent house
5 Temporary and other house

13 m7c5 : In which year the household started staying in the house
1 Before 1975
2 1975 to 1999
3 from 2000

14 m7c6 : Ownership of the house
1 Private house of the household
2 Rented/borrowed from the State
3 Rented/borrowed from private individual
4 House of Collective
5 House of religious organization
6 House built by the State and People
7 Not determined yet

15 m7c7 : Does your household pay rents?
1 Yes
2 No

16 m7c8 : Payment on rents?
-1 NR

17 m7c9 : duration of existing rental contract?
-1 NR

18 m7c10 : Cost of the whole accomodation in current price?
-1 NR

19 m7c10a : Cost of the land
-1 NR

20 m7c11 : house is built by the household?
1 Yes
2 No

21 m7c12 : Year of house completion

22 m7c13 : Expenditure on house building
-1 NR

23 m7c14 : Repair and maintainance expenditure
-1 NR

24 m7c15 : Does HH have any other land plots or houses/flats?
1 Yes
2 No

25 m7c16 : Does HH receive rents from those residential land lots or house
1 Yes
2 No
26 m7c17 : Cash and kind received from leasing residential land and house
27 m7c18 : The main drinking water supply of HH
1 tap wate reaching the house
2 Public tap water
3 drilled wells
4 protected dug well
5 unprotected dug well
6 Protected stream water
7 Unprotected stream water
8 Bought water
9 Rain water
10 Others
28 m7c19a : Do HH treat driking water by boiling
1 Yes
2 No
29 m7c19b : Do HH treat driking water by a filter or chemicals
1 Yes
2 No
30 m7c20 : Money HH spent on water for driking and other
-1 NR
31 m7c21 : Type of toilet
1 spetic/semi-spetic tank
2 suilabh
3 double spetic tank
4 fishing bridge
5 Others
6 None
32 m7c22 : Main source of lighting?
1 National-grid electricity
2 battery lamp, resin torch
3 gas, oil, kerosene lamps
4 others
33 m7c23 : For last month,How much money has HH spent on eclectricity?
-1 NR
34 m7c23k : For last month,how many KWs has HH consumed?
-1 NR
35 m7c24 : Money paid for electricity in the past 12 months
-1 NR
36 m7c25 : How has HH disposed garbage?
1 Somebody else collects it
2 Dumping into ponds, lakes, rivers, streams
3 Dumping in a nearby site
4 Landfill burial
5 Burning
6 Others
37 m7c26 : Money paid for daily-life waste collection
-1 NR

38 m7c27 : Total expenditure of housing, electricity, warter and waste

36 : Muc8
1 tinh : Province
2 huyen : District
3 xa : Commune
4 diaban : Enumerator area
5 hoso : Household code
6 m8c106 : household classified as poor in 2006?
1
2 Kh≠ng
7 m8c107 : household classified as poor in 2007?
1 Yes
2 No
8 m8c108 : household classified as poor in 2008?
1 Yes
2 No
9 m8c109 : household classified as poor in 2009?
1 Yes
2 No
10 m8c110 : household classified as poor in 2010?
1 Yes
2 No
11 m8c111 : household classified as poor in 2011?
1 Yes
2 No
12 m8c112 : household classified as poor in 2012?
1 Yes
2 No
13 m8c1a : Number of months of not eating enough 2 meals per day
1 Yes
2 No
14 m8c21_01 : Support in purchasing health insurance cards 2011
1 Yes
2 No
3 Doesnt know
15 m8c21_02 : Reduction of and exemption from costs of medical checks/treament 2011
1 Yes
2 No
3 Doesnt know
16 m8c21_03 : reduction of and exemption from tuition fees for the poor 2011
1 Yes
2 No
3 Doesnt know
17 m8c21_04 : Policy-based scholarships 2011
1 Yes
2 No
3 Doesnt know
18 m8c21_05 : Vocational training for the poor and low-income earners 2011
19 m8c21_06 : Support in housing and residential land for poor households 2011

1 Yes
2 No
3 Doesnt know

20 m8c21_07 : Support in cleaning/improving daily-life water supplies for poor households 2011
1 Yes
2 No
3 Doesnt know

21 m8c21_08 : Providing productive land for poor ethnic minorities households 2011
1 Yes
2 No
3 Doesnt know

22 m8c21_09 : Extension services in agriculture, forestry and fisheries 2011
1 Yes
2 No
3 Doesnt know

23 m8c21_10 : Support in migrating abroad for employment 2011
1 Yes
2 No
3 Doesnt know

24 m8c21_11 : Food aid 2011
1 Yes
2 No
3 Doesnt know

25 m8c21_12 : Subsidized petroleum/kerosene for fishing boat(s)/vessel(s) 2011
1 Yes
2 No
3 Doesnt know

26 m8c21_13 : hardship allowance
1 Yes
2 No
3 Doesnt know

27 m8c21_14 : Preferential credit for the poor 2011
1 Yes
2 No
3 Doesnt know

28 m8c21_15 : Support in machinery, production inputs 2011
1 Yes
2 No
3 Doesnt know

29 m8c21_16 : others 2011
1 Yes
2 No
3 Doesnt know

30 m8c22_01 : Support in purchasing health insurance cards 2012
1 Yes
2 No
3 Doesnt know

31 m8c22_02 : Reduction of and exemption from costs of medical checks/treament for the poor 20

1 Yes
2 No
3 Doesnt know

32 m8c22_03 : reduction of and exemption from tuition fees for the poor 2012
1 Yes
2 No
3 Doesnt know

33 m8c22_04 : Policy-based scholarships 2012
1 Yes
2 No
3 Doesnt know

34 m8c22_05 : Vocational training for the poor and low-income earners 2012

35 m8c22_06 : Support in housing and residential land for poor households 2012
1 Yes
2 No
3 Doesnt know

36 m8c22_07 : Support in cleaning/improving daily-life water supplies for poor households 2012
1 Yes
2 No
3 Doesnt know

37 m8c22_08 : Providing productive land for poor ethnic minorities households 2012
1 Yes
2 No
3 Doesnt know

38 m8c22_09 : Extension services in agriculture, forestry and fisheries 2012
1 Yes
2 No
3 Doesnt know

39 m8c22_10 : Support in migrating abroad for employment 2012
1 Yes
2 No
3 Doesnt know

40 m8c22_11 : Food aid 2012
1 Yes
2 No
3 Doesnt know

41 m8c22_12 : Subsidized petroleum/kerosene for fishing boat(s)/vessel(s) 2012
1 Yes
2 No
3 Doesnt know

42 m8c22_13 : Hardship allowance
1 Yes
2 No
3 Doesnt know

43 m8c22_14 : Preferential credit for the poor 2012
1 Yes
2 No
3 Doesnt know

44 m8c22_15 : Support in machinery, production inputs 2012

1 Yes
2 No
3 Doesnt know

45 m8c22_16 : others 2012
1 Yes
2 No
3 Doesnt know

46 m8c2a : Number of months of vocational training provided
-1 NR

47 m8c2b : The total area that HH has ben provided
-1 NR

48 m8c2aa : electricity fee allowance
-1 NR

49 m8c2ab : unexpected food aid
-1 NR

50 m8c2ac : allowance for low-wage officials
-1 NR

51 m8c2ad : allowance for people with meritorious services to the revolution
-1 NR

52 m8c2ae : allowance for the poor
-1 NR

53 m8c2af : Other allowances
-1 NR

54 m8c3 : Borrowed from or remained to preferential credit schemes
1 yes
2 no

55 m8c9 : Have the living conditions in your household improved, compared with 2008?
1 Yes, substantially
2 Yes, slightly
3 The same as before
4 Worsened
5 don't know

56 m8c10a : The first reason why it is 'the same as before'/'worsened'
1 Increased production costs in agriculture, forestry and fisheries
2 Low selling prices of agricultural, forestry and fisheries products
3 Cattle and poultry suffer from epidemics or death
4 Droughts, floods, pests, and harvest loss affect agricultural, forestry and fisheries production
5 Household member(s) is sick or dies
6 High prices of food, foodstuff, and other consumer goods
7 Low incomes
8 Job loss or underemployment
9 Conflicts or other problems among family members/friends/neighbors
10 Decreased arable land/water surface for aquaculture production
11 Unfortunate events
12 others

57 m8c10b : The second reason
1 Increased production costs in agriculture, forestry and fisheries
2 Low selling prices of agricultural, forestry and fisheries products
3 Cattle and poultry suffer from epidemics or death
4 Droughts, floods, pests, and harvest loss affect agricultural, forestry and fisheries production
5 Household member(s) is sick or dies
6 High prices of food, foodstuff, and other consumer goods
7 Low incomes
8 Job loss or underemployment
9 Conflicts or other problems among family members/friends/neighbors
10 Decreased arable land/water surface for aquaculture production
11 Unfortunate events
12 others
58 m8c10c : The third reason
1 Increased production costs in agriculture, forestry and fisheries
2 Low selling prices of agricultural, forestry and fisheries products
3 Cattle and poultry suffer from epidemics or death
4 Droughts, floods, pests, and harvest loss affect agricultural, forestry and fisheries production
5 Household member(s) is sick or dies
6 High prices of food, foodstuff, and other consumer goods
7 Low incomes
8 Job loss or underemployment
9 Conflicts or other problems among family members/friends/neighbors
10 Decreased arable land/water surface for aquaculture production
11 Unfortunate events
12 others
59 m8c11a : consumption of food over the last 30 days
1 insufficient
2 sufficient
3 more than sufficient
4 No comment
60 m8c11b : consumption of foodstuff over the last 30 days
1 insufficient
2 sufficient
3 more than sufficient
4 No comment
61 m8c12a : comsumption of electricity over the last 30 days
1 insufficient
2 sufficient
3 more than sufficient
4 No comment
62 m8c12b : comsumption of water over the last 30 days

```
                    1 insufficient
                    2 sufficient
                    3 more than sufficient
                    4 No comment
63 m8c12c     :  comsumption of housing over the last 30 days
                    1 insufficient
                    2 sufficient
                    3 more than sufficient
                    4 No comment
64 m8c13      :  comsumption of clothing and footwear over the last 30 days
                    1 insufficient
                    2 sufficient
                    3 more than sufficient
                    4 No comment

 ###  37 :  Muc82  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 m8ma       :  Order number
 7 m8c4       :  m8c4
                    0 NA
                    1 Ng ヮ n h オ ng CSXH
                    2
                    3
                    4
                    5 Kh ク c
 8 m8c5       :  Value of the loan
                   -1 NR
 9 m8c6a      :  interest rate
                   -1 NR
10 m8c6b      :  Time unit
                    1 Month
                    2 Quarter
                    3 6 months
                    4 year
11 m8c7       :  costs to get this loan
                   -1 NR
12 m8c8       :  the balance of this loan
                   -1 NR

 ###  38 :  ttchung  ###########
 1 tinh       :  Province
 2 huyen      :  District
 3 xa         :  Commune
 4 diaban     :  Enumerator area
 5 hoso       :  Household code
 6 tsphieu    :  Total of questionnaires
```

```
 7 ttnt       :  Urban/Rural
                      1 Urban
                      2 Rural
 8 dantoc     :  Household head's ethnicity
 9 phdich     :  Interpretation
                      1 Yes
                      2 No
10 dtv        :  Surveyor's ID code
11 dt         :  Team leader' ID code
12 ngaydt     :  Date of survey
13 thangdt    :  Month of survey
14 namdt      :  Year of survey
15 tsnguoi    :  Hosehold size
16 ky         :  period of survey
17 m1b1       :  1. Is there any member moved out of the household
                      1 Yes
                      2 No
18 tsmuc1b    :  Total number of member moved out of the household
19 m2act      :  2CT. Total of Q11k And Q14 - Income & Expenditure
20 m2atn      :  2TN. Total of Q12 And Q13 - Income & Expenditure
21 m2btn      :  2TN. Total of Q12 and Q13 - Income
22 m3c1       :  1. Has anyone visited medical establishments for check-ups and
treatment?
                      1 Yes
                      2 No
23 m3ct1      :  3CT1. Total of Q5
24 m3ct2      :  3CT2. Total of Q6
25 m3ct3      :  3CT3. Total of Q11
26 m3tn       :  3TN. Total of Q15
27 m3ct       :  3CT. Expenditure on healthcare
28 m4atn1     :  4ATN1. Total of Q11
29 m4atn2     :  4ATN2. Total of Q12a and of Q12b
30 m4atn3     :  4ATN3. Total of Q23
31 m4atn4     :  4ATN4. Total of Q24a and of Q24b
32 m4atn5     :  4ATN5. Total of Q26
33 m4atn6     :  4ATN6. Total of Q(28a+b+c+d+e)
34 m4atn      :  4ATN. Income from salary, wage, pension and allowance
35 m4b0c1     :  1.Has the household used or managed farm land, forestry land or
aquaculture surf
                      1 Yes
                      2 No
36 m4b0tn     :  4B0TN. Total of Q5
37 m4b1a      :  1a.Has your family harvested any products from cultivation?
                      1 Yes
                      2 No
38 m4b1b      :  1b.Are there any impacts of natural disasters, diseases, etc. which
have caused
                      1 Yes
                      2 No
39 m4b11t     :  4B11T. Total of Q8
```

40 m4b12t : 4B12T. Total of Q7
41 m4b13t : 4B13T. Total of Q7
42 m4b14t : 4B14T. Total of Q7
43 m4b15t : 4B15T. Total of Q5
44 m4b1t : 4B1T.Total income
45 m4b1c : 4B1C. Total of Q2e
46 m4b21a : 4B21A.Has your family raised or possessed animals, poultry and livestock?
1 Yes
2 No
47 m4b21b : 4B21B.Have natural disasters and epidemics... damaged production?
1 Yes
2 No
48 m4b21t : 4B21T.Total of Q5 from line 1 to line 18
49 m4b21c : M4B21C.Total cost of husbandry
50 m4b22t : 4B22T.Total of Q5, line 19
51 m4b22c : M4B21C.Cost of husbandry Q18, line 11
52 m4b31a : 1a.Has any household member provide agricultural services?
1 Yes
2 No
53 m4b31b :
1 Yes
2 No
54 m4b3t : 4B3T.Total of Q5
55 m4b3c : 4B3C.Total of Q17
56 m4b41a : 1a.has your household earned revenues from forestry?
1 Yes
2 No
57 m4b41b :
1 Yes
2 No
58 m4b4t : 4B4T.Total of Q3f
59 m4b4c : 4B4C.Total of Q14
60 m4b5c1a : 1a.has any one from the household earned revenues from aquaculture services?
1 Yes
2 No
61 m4b5c1b :
1 Yes
2 No
62 m4b5t : 4B5T.Total of Q5
63 m4b5c : 4B5C.Total of Q19
64 m4c1 : 1.Has any activities of production and business, non-agricultural, forestry?
1 Yes
2 No
65 m4ctt : 4CTT.Total revenue of households(Total of Q17)
66 m4ct : 4CT.Total revenue of households divide to household (Total of Q18)
67 m4cct : 4CCT.Total cost of households(Total of Q32)
68 m4cc : 4CC.Total cost of households divide to household (Total of Q33)

69 m4dtn : 4D2T.Total of Q2
70 m5a1ct : 5A1CT.Total of Q4 and Q5
71 m5a1c4 : 4.Total of Q2B
72 m5a1c5 : 5.Total of Q3B
73 m5a2ct : 5A2CT. Total of Q2B
74 m5a2c6 : 6.Total of Q3B
75 m5a2c7 : 7.Total of Q4B
76 m5a2c8 : 8.Total of Q5B
77 m5b1ct : 5B1CT. Total of Q6 and Q7
78 m5b1c6 : 6. Total of Q3
79 m5b1c7 : 7. Total of Q4
80 m5b1c8 : 8. Total of Q5
81 m5b2ct : 5B2CT. Total of Q4 and 5
82 m5b2c4 : 4.Total of Q2
83 m5b2c5 : 5.Total of Q3
84 m5b3ct : 5B3CT. Total of Q2
85 m6c7 : 7. Total of Q5
86 thunhap : III. Total Income
87 thubq : IV. Average Income per capita per month
88 tongthu_01 : Total of household revenue
89 tongthu_02 : Income from subsidies,scholarship
90 tongthu_03 : Income from health subsidies
91 tongthu_04 : Income from wage
92 tongthu_05 : Revenue from renting out agricultural and forestry land and water surface
93 tongthu_06 : Revenue from crop
94 tongthu_07 : Revenue from husbandry
95 tongthu_08 : Revenue from hunting, trapping and domestication
96 tongthu_09 : Revenue from agricultural services
97 tongthu_10 : Revenue from forestry
98 tongthu_11 : Revenue from aquaculture
99 tongthu_12 : Other income
100 tongthu_13 : Other revenues included in incomes
101 tongthu_14 : Revenues from renting out house(s) and residential land
102 chisxkd_1 : Expenditure on business
103 chisxkd_2 : Expenditure on crops
104 chisxkd_3 : Expenditure on livestock
105 chisxkd_4 : Expenditure on hunting, trapping..
106 chisxkd_5 : Expenditure on agricultural services
107 chisxkd_6 : Expenditure on forestry
108 chisxkd_7 : Expenditure on aquaculture
109 chisxkd_8 : Expenditure on non-farm business
110 chikhac_1 : Expenditure on education
111 chikhac_2 : Expenditure on health
112 chikhac_3 : Expenditure on foods and drinks during holidays
113 chikhac_4 : Daily expenditure on foods and drinks
114 chikhac_5 : Daily expenditure on non-food
115 chikhac_6 : Yearly Non-food expenditure
116 chikhac_7 : Other expenditure considered as consumption
117 chikhac_8 : Expenditures on durables over the past 12 month

118 chikhac_9 : Recurrent expenditures on housing, electricity, water,and daily life waste
119 m1c1 : did this household participate in the vhlss 2010?
1 Yes
2 No
120 tinh2010 : Province in VHLSS2010
121 huyen2010 : District in VHLSS2010
122 xa2010 : Commune in VHLSS2010
123 diaban2010 : Enumerator area in VHLSS2010
124 hoso2010 : Household code in VHLSS2010
125 ttnt2010 : Urban/rural in VHLSS2010
126 ghepho : Merged with VHLSS2010
0 Khong dieu tra 2006
1 Co dieu tra 2006, co tim thay
9 Co dieu tra 2006, khong tim thay

39 : wt2012new1
1 tinh : Tﾘnh
2 huyen : Huyﾖn
3 xa : Xｷ
4 diaban : ｱﾞa bｵn
5 wt9 :

4.2 Summary of data files

The data files of VHLSS 2012 are summarized as the next.

No	Filenames	No. of variables	No. of records	Unit of records	Section	Main contents
1	hhexp12	9,399	273	hh	Summary	
2	muc1A	36,655	18	ind	1A List of household members	
3	muc1B	6,325	62	ind	1B	Former members
4	muc1C	16,776	15	ind	1C	Member in 2010 VHLSS
5	muc2	36,655	34	ind	2 Education	
6	muc3A	18,213	16	ind	3 Healthcare	
7	muc3B	36,555	15	ind	3 Healthcare	
8	muc4A	36,655	53	ind	4A Employment	
9	muc4A2	36,655	18	ind	4A2 Migration history	
10	muc4B0	11,331	9	hh	4B0 Farm land, forestry and aquaculture water surface	
11	muc4B11	9,090	12	hh	4B11 Rice	
12	muc4B12	11,890	11	hh	4B12 Staple crops	
13	muc4B13	2,649	12	hh	4B13 Industrial crops	
14	muc4B14	6,203	12	hh	4B14 Fruit trees	
15	muc4B15	6,078	10	hh	4B15 Crop by-products	
16	muc4B16	46,814	13	hh	Costs of cultivation	
17	muc4B21	11,553	10	hh	4B21 Animal husbandry	
18	muc4B22	7,236	29	hh	4B22 Costs of husbandry	
19	muc4B31	162	9	hh	4B31 Revenues from agricultural services	
20	muc4B32	162	27	hh	4B32 Costs of agricultural services	

21	muc4B41	3,386	13	hh	4B41 Forestry revenues	
22	muc4B42	2,095	30	hh	4B42 Costs of forestry	
23	muc4B51	2420	10	hh	4B51 Revenues from aquaculture	
24	muc4B52	1,813	30	hh	4B52 Costs of aquaculture	
25	muc4C1	3,705	24	hh	4C1 Revenues from business	
26	muc4C2	3,705	32	hh	4C2 Costs of business	
27	muc4D	9,399	25	hh	4D Other revenues	???
28	muc5A1	146,205	11	hh	5A1 Festival food	
29	muc5A2	279,872	15	hh	5A2 Recurrent food	
30	muc5B1	111,751	10	hh	5B1 Daily expenditures	
31	muc5B2	116,435	8	hh	5B2 Annual consumption	
32	muc5B3	9,399	14	hh	5B3 Other costs as expenditures	
33	muc6	9,399	42	hh	6 Durables	
34	muc6B	116,235	11	hh	6 Durables (cont'd)	
35	muc7	9,399	38	hh	7 Housing	
36	muc8	9,399	64	hh	8 Aid schemes	???
37	muc82	1,175	12	hh	8 Aid schemes	
38	ttchung	9,399	126	hh	Summary	
39	wt2012new1	3,133	5	diaban	Weights	

4.3 Weight data

The file “wt2012new1.dta” is weight data by diaban (enumeration area). The number of record is 3,133, the same as the number of unique diaban codes in data files. The variables are tinh (province), huyen (district), xa (commune), diaban (enumeration area) and wt9. Hereinafter it is called as weight2012.

✓ The Delegates from Vietnam confirmed that the weight was defined by xa (commune) and diaban (cluster/enumeration area).

Remarks: In VHLSS 2006, weight data were given by xa (commune).
The structure of weight data is the same as that of VHLSS 2010, and the the number of records is 3,133, the same as VHLSS 2010.

```
> d<-lss2012[[39]]
> dim(d)
[1] 3133    5
> head(d)
  tinh huyen xa diaban  wt9
1    1     1  4      8 2108
2    1     1  7     22 4417
3    1     1 16      3 4824
4    1     1 22     19 4570
5    1     1 28     25 3860
6    1     1 34     25 4423

> t<-sapply(d,range)
> rownames(t)<-c("Min","Max")
> t
    tinh huyen    xa diaban   wt9
Min    1     1     4      1   344
Max   96   973 32248    101 21374
```

✓ Defined the variable of commune identifier “xaid” in weight2012;

```
> wt<-d
```

```
> wt["xaid"]<-as.character(as.integer(wt$xa)+(10^5)*as.integer(wt$huyen)+
+ (10^8)*as.integer(wt$tinh))
> head(wt)
  tinh huyen xa diaban  wt9      xaid
1    1     1  4       8 2108 100100004
2    1     1  7      22 4417 100100007
3    1     1 16       3 4824 100100016
4    1     1 22      19 4570 100100022
5    1     1 28      25 3860 100100028
6    1     1 34      25 4423 100100034
> length(unique(wt$xaid))
[1] 3133

# There is no duplicated xaid.
> wt$xaid[duplicated(wt$xaid)==T]
character(0)
```

4.4 Defining identifiers in data files and appending weight to data files

Three kind of identifier was generated as in the next table;

- eaid for weight data file.
- eaid and ID for household-level data files.
- eaid, ID and PID for individual-level data files including the variable “matv” of member code.

Variable	Description	Length	Type	Identifier		
				EA	Household	Person
tinh	province	2	Numeric	eaid	ID	PID
huyen	district	3	Numeric			
xa	commune	5	Numeric			
diaban	enumeration area	2	Numeric			
hoso	household code	2	Numeric			
matv	member code	2	Numeric			

eaid = diaban + (10^2)*xa + (10^7)*huyen + (10^10)*tinh

ID = hoso + (10^2)*diaban + (10^4)*xa + (10^9)*huyen + (10^12)*tinh
= hoso + (10^2)*eaid

PID = matv +(10^2) hoso + (10^4)*diaban + (10^6)*xa + (10^11)*huyen + (10^14)*tinh
= matv +(10^2) *ID

Note: The above identifier were generated as character, because eaid is 12 digits.

```
> wt$eaid<-paste(formatC(wt$tinh,width=2, flag="0"),
+ formatC(wt$huyen,width=3,flag="0"),
+ formatC(wt$xa,width=5,flag="0",format="d"),
+ formatC(wt$diaban,width=2,flag="0"),sep="")
> head(wt)
  tinh huyen xa diaban  wt9      xaid         eaid
1    1     1  4      8 2108 100100004 010010000408
2    1     1  7     22 4417 100100007 010010000722
3    1     1 16      3 4824 100100016 010010001603
4    1     1 22     19 4570 100100022 010010002219
5    1     1 28     25 3860 100100028 010010002825
```

```
6    1     1 34     25 4423 100100034 010010003425
> lss2012[[39]]<-wt
> wt.old<-wt
> wt<-wt[,c(7,5)]
> colnames(wt)<-c("eaid","wt")
> head(wt)
          eaid   wt
1 010010000408 2108
2 010010000722 4417
3 010010001603 4824
4 010010002219 4570
5 010010002825 3860
6 010010003425 4423
> dim(wt)
[1] 3133    2
> str(wt)
'data.frame':   3133 obs. of  2 variables:
 $ eaid: chr  "010010000408" "010010000722" "010010001603" "010010002219" ...
 $ wt  : num  2108 4417 4824 4570 3860 ...
```

✓ Generated the variables of identifier eaid and ID in all data files, and appended weight to all data files.

```
> lss2012.old<-lss2012
> for(j in 1:38){
+ d<-lss2012[[j]]
+ d$eaid<-paste(formatC(d$tinh,width=2, flag="0"),
+ formatC(d$huyen,width=3,flag="0"),
+ formatC(d$xa,width=5,flag="0",format="d"),
+ formatC(d$diaban,width=2,flag="0"),sep="")
+ d$ID<-paste("ID",d$eaid,format(d$hoso,width=2,flag="0"),sep="")
+ d<-merge(d,wt,by="eaid",all.x=T)
+ n<-ncol(d)
+ d<-d[,c(2:n,1)]
+ lss2012[[j]]<-d
+ }

> dim(lss2012[[1]])
[1] 9399  276
> length(unique(lss2012[[1]]$eaid))
[1] 3133

# Example
> head(lss2012[[37]])
  tinh huyen    xa diaban hoso m8ma m8c4  m8c5 m8c6a m8c6b m8c7  m8c8
1    1   272  9748     10   14    1    1 16000  0.65     1    0 16312
2    1   275  9910      3   14    1    1 20000  0.60     1    0 20000
3    1   277 10090      7   13    1    1  8000  0.30     1    0  8000
4    2    26   730      6   14    1    1  8000  0.65     1    0  8000
5    2    26   730      6   15    1    1  5000  0.00    NA    0  5000
6    2    26   730      6   19    1    1  6000  0.65     1    0  6000
                ID   wt         eaid
1 ID01272097481014 4519 012720974810
2 ID01275099100314 4704 012750991003
3 ID01277100900713 4692 012771009007
4 ID02026007300614 1823 020260073006
```

```
5 ID02026007300615 1823 020260073006
6 ID02026007300619 1823 020260073006
```

✓ Generated the individual identifier PID in individual-level data files including the variable of "matv".

```
# Numbers of individual-level data files including the variable of "matv"
> ind.files<-c(2,5:9)

> for(j in ind.files){
+ d<-lss2012[[j]]
+ d$PID<-paste("P",d$ID,formatC(d$matv,width=2,flag="0"),sep="")
+ lss2012[[j]]<-d
+ }

# Example of results
> head(lss2012[[2]][,c(1:7,19:22)])
  tinh huyen xa diaban hoso matv m1ac2              ID   wt         eaid
1    1     1  4      8   13    1     1 ID01001000040813 2108 010010000408
2    1     1  4      8   13    2     2 ID01001000040813 2108 010010000408
3    1     1  4      8   13    3     1 ID01001000040813 2108 010010000408
4    1     1  4      8   15    1     1 ID01001000040815 2108 010010000408
5    1     1  4      8   15    2     2 ID01001000040815 2108 010010000408
6    1     1  4      8   15    3     2 ID01001000040815 2108 010010000408
                  PID
1 PID0100100004081301
2 PID0100100004081302
3 PID0100100004081303
4 PID0100100004081501
5 PID0100100004081502
6 PID0100100004081503

# Number of records and variables in data files

> Rnames<-sub(".dta","",file.names)
> for(j in 1:39){
```

```
+ cat(format(Rnames[j],width=11),": ",format(nrow(lss2012[[j]]),width=6),",",
+ format(ncol(lss2012[[j]]),width=3),"¥n")
+ }
hhexpe12     :    9399 , 276
muc1a        :   36655 ,  22
muc1b        :    6325 ,  65
muc1c        :   16776 ,  18
Muc2         :   36655 ,  38
Muc3A        :   18213 ,  20
Muc3B        :   36655 ,  19
Muc4A        :   36655 ,  57
Muc4A2       :   36655 ,  22
Muc4B0       :   11331 ,  12
Muc4B11      :    9090 ,  15
Muc4B12      :   11890 ,  14
Muc4B13      :    2649 ,  15
Muc4B14      :    6203 ,  15
Muc4B15      :    6078 ,  13
Muc4B16      :   46814 ,  16
Muc4B21      :   11553 ,  13
Muc4B22      :    7236 ,  32
Muc4B31      :     162 ,  12
Muc4B32      :     162 ,  30
Muc4B41      :    3386 ,  16
Muc4B42      :    2095 ,  33
Muc4B51      :    2420 ,  13
Muc4B52      :    1813 ,  33
Muc4C1       :    3705 ,  27
Muc4C2       :    3705 ,  35
Muc4D        :    9399 ,  28
Muc5A1       :  146205 ,  14
Muc5A2       :  279872 ,  18
Muc5B1       :  111751 ,  13
Muc5B2       :  116435 ,  11
Muc5B3       :    9399 ,  17
Muc6         :    9399 ,  45
```

```
Muc6B       :  116235 ,  14
Muc7        :    9399 ,  41
Muc8        :    9399 ,  67
Muc82       :    1175 ,  15
ttchung     :    9399 , 129
wt2012new1  :    3133 ,   5
```

4.5 Basic statistics

Item	Value	R scripts	Survey report
Un-weighted number of household	9,399	> d<-lss2012[[38]] # ttchung > nrow(d) [1] 9399	
Weighted number of household	23,221,218	> sum(d$wt) [1] 23221218	
Un-weighted number of household members	36,655	> sum(d$tsnguoi) # hhsize [1] 36655	
Weighted number of household members	89,267,456	> sum(d$tsnguoi*d$wt) [1] 89267456	
Household size	3.84	> sum(d$tsnguoi*d$wt)/sum(d$wt) [1] 3.844219	3.85 (Table 1.1)
Monthly total consumption per capita (1000 VND)	1,605.0	# See the below variable names > d$exp<-rowSums(d[,c(110:112,115:118)])+ + d[,113]*11.5 + d[,114]*12 > sum(d$exp*d$wt)/sum(d$tsnguoi*d$wt)/12 [1] 1604.966	1,603 (Table 6.1)
Monthly income per capita (1000 VND)	2139.0	# 86 thunhap : Yearly household income # 15 tsnguoi : household size > sum(d$thunhap*d$wt)/sum(d$tsnguoi*d$wt)/12 [1] 2139.041	1,999.8 *(Table 5.1)

Note: Income in the survey report

The number of 2.139 (1000 VND) is generated from 9.400 households, and the number of 1.999,8 (1000 VND) in Table 5.1 is generated from 47.000 households in total. It is the mean of whole samples.

(Ref. 38 ttchung)

110 chikhac_1 : Expenditure on education
111 chikhac_2 : Expenditure on health
112 chikhac_3 : Expenditure on foods and drinks during holidays
113 chikhac_4 : Daily expenditure on foods and drinks
114 chikhac_5 : Daily expenditure on non-food
115 chikhac_6 : Yearly Non-food expenditure
116 chikhac_7 : Other expenditure considered as consumption

117 chikhac_8 : Expenditures on durables over the past 12 month
118 chikhac_9 : Recurrent expenditures on housing, electricity, water, and daily life waste

86 thunhap : Yearly household income
87 thubq : Monthly income per capita

15 tsnguoi : household size

4.6 Sample allocation

✓ The number of province in data set is 63.

```
> d<-lss2012[[1]]    # hhexpe12
> length(unique(d$tinh))
[1] 63
```

Number of sample household by province

```
> table(d$tinh)
  1   2   4   6   8  10  11  12  14  15  17  19  20  22  24  25  26  27  30  31
420 105 102 102 114 102 102 102 126 114 114 147 108 147 168 156 135 138 183 186
 33  34  35  36  37  38  40  42  44  45  46  48  49  51  52  54  56  58  60  62
147 189 123 195 129 246 225 150 120 102 135 123 159 147 162 123 138 102 135 102
 64  66  67  68  70  72  74  75  77  79  80  82  83  84  86  87  89  91  92  93
141 165 102 141 120 135 177 207 132 351 156 171 153 129 135 168 186 162 138 111
 94  95  96
144 114 138
```

✓ The Delegates from Vietnam confirmed that the region was grouped into six in the same way of VHLSS 2012.

✓ The variable of reg6 in hhexp10 represents six region codes. The next table shows the number of sample household by province and region, which is consistent with the province code list at page 4 of the questionnaire;

Relationship between provinces and six regions

```
> table(d$tinh, d$reg6)

     1   2   3   4   5   6
 1 420   0   0   0   0   0
 2   0 105   0   0   0   0
 4   0 102   0   0   0   0
 6   0 102   0   0   0   0
 8   0 114   0   0   0   0
10   0 102   0   0   0   0
11   0 102   0   0   0   0
12   0 102   0   0   0   0
14   0 126   0   0   0   0
15   0 114   0   0   0   0
17   0 114   0   0   0   0
19   0 147   0   0   0   0
20   0 108   0   0   0   0
22 147   0   0   0   0   0
24   0 168   0   0   0   0
```

```
  25   0 156   0   0   0   0
  26 135   0   0   0   0   0
  27 138   0   0   0   0   0
  30 183   0   0   0   0   0
  31 186   0   0   0   0   0
  33 147   0   0   0   0   0
  34 189   0   0   0   0   0
  35 123   0   0   0   0   0
  36 195   0   0   0   0   0
  37 129   0   0   0   0   0
  38   0   0 246   0   0   0
  40   0   0 225   0   0   0
  42   0   0 150   0   0   0
  44   0   0 120   0   0   0
  45   0   0 102   0   0   0
  46   0   0 135   0   0   0
  48   0   0 123   0   0   0
  49   0   0 159   0   0   0
  51   0   0 147   0   0   0
  52   0   0 162   0   0   0
  54   0   0 123   0   0   0
  56   0   0 138   0   0   0
  58   0   0 102   0   0   0
  60   0   0 135   0   0   0
  62   0   0   0 102   0   0
  64   0   0   0 141   0   0
  66   0   0   0 165   0   0
  67   0   0   0 102   0   0
  68   0   0   0 141   0   0
  70   0   0   0   0 120   0
  72   0   0   0   0 135   0
  74   0   0   0   0 177   0
  75   0   0   0   0 207   0
  77   0   0   0   0 132   0
  79   0   0   0   0 351   0
  80   0   0   0   0   0 156
  82   0   0   0   0   0 171
  83   0   0   0   0   0 153
  84   0   0   0   0   0 129
  86   0   0   0   0   0 135
  87   0   0   0   0   0 168
  89   0   0   0   0   0 186
  91   0   0   0   0   0 162
  92   0   0   0   0   0 138
  93   0   0   0   0   0 111
  94   0   0   0   0   0 144
  95   0   0   0   0   0 114
  96   0   0   0   0   0 138

> t<-table(d$reg6)
> region.name<-c("Red River Delta","Midlands and Northern Mountains",
+ "Northern and Coastal Central","Central Highlands",
+ "Southeastern","Mekong Delta")
```

```
> names(t)<-region.name
> t
                Red River Delta Midlands and Northern Mountains
                           1992                            1662
   Northern and Coastal Central                Central Highlands
                           2067                             651
                    Southeastern                    Mekong Delta
                           1122                            1905
```

Number of sample by region and urban/rural

```
> t<-addmargins(table(d$reg6,d$urban12))
> rownames(t)<-c(region.name,"Viet Nam")
> colnames(t)<-c("Rural","Urban","Total")
> t
```

	Rural	Urban	Total
Red River Delta	1425	567	1992
Midlands and Northern Mountains	1326	336	1662
Northern and Coastal Central	1476	591	2067
Central Highlands	453	198	651
Southeastern	567	555	1122
Mekong Delta	1449	456	1905
Viet Nam	6696	2703	9399

✓ According to the survey plan, the survey was conducted in four periods in March, June, September and December.

```
> table(d$monthint)
   1    3    4    5    6    7    8    9   10   11   12
   3  763 1568   35 2301   40    5 2307   35   32 2310
```

Number of sample by region, urban/rural and survey month

```
> t<-table(d$reg6,d$monthint,d$urban12)
> dimnames(t)<-list(region.name,c(1,3:12), c("Rural","Urban"))
> t
```

, , Rural

	1	3	4	5	6	7	8	9	10	11	12
Red River Delta	1	164	206	3	336	8	0	329	4	2	372
Midlands and Northern Mountains	0	162	168	0	330	6	0	332	10	0	318
Northern and Coastal Central	0	91	268	10	371	7	4	363	2	1	359
Central Highlands	0	16	96	2	99	0	0	116	1	0	123
Southeastern	2	33	103	3	140	0	0	139	2	0	145
Mekong Delta	0	99	282	6	354	3	1	355	1	18	330

, , Urban

	1	3	4	5	6	7	8	9	10	11	12
Red River Delta	0	39	81	0	162	3	0	161	5	0	116
Midlands and Northern Mountains	0	42	24	6	75	0	0	84	3	0	102
Northern and Coastal Central	0	39	123	0	137	10	0	135	3	0	144
Central Highlands	0	2	55	0	59	1	0	41	1	0	39
Southeastern	0	43	93	5	139	2	0	135	3	2	133
Mekong Delta	0	33	69	0	99	0	0	117	0	9	129

4.7 Sample design

```
> d<-lss2012[[1]]  # hhexpe12
> nrow(d)
[1] 9399
> head(d[,c(1:5,38,41,45,274:276)])
  tinh huyen xa diaban hoso urban12 reg6 monthint              ID   wt        eaid
1    1     1  4      8   13       1    1        9 ID01001000040813 2108 010010000408
2    1     1  4      8   15       1    1        9 ID01001000040815 2108 010010000408
3    1     1  4      8   19       1    1        9 ID01001000040819 2108 010010000408
4    1     1  7     22   13       1    1       12 ID01001000072213 4417 010010000722
5    1     1  7     22   15       1    1       12 ID01001000072215 4417 010010000722
6    1     1  7     22   19       1    1       12 ID01001000072219 4417 010010000722
```

✓ The household code “hoso” is from 13 to 29.

```
> table(d$hoso)
  13   14   15   19   20   21   24   25   29
2900 2871 2827  502  288    2    6    2    1
```

hhs: Number of sample households within eaid is always equal to three.

```
> hhs<-tapply(d$ID,d$eaid,length)
> dim(hhs)
[1] 3133
# Frequency of hhs
> table(hhs)
hhs
   3
3133
```

✓ The number of unique value of weight is 1,834.

```
> length(unique(d$wt))
[1] 1834
```

✓ The weight is unique within the enumeration area.

```
> wts<-tapply(d$wt,d$eaid,function(x) length(unique(x)))
> table(wts)
wts
   1
3133
```

5. Data Check

5.1 Structure of each data file

```
# Displayed the names and types of variables


Note: ID, PID, aeid, wt are excluded in the followings.


> length(lss2012)
[1] 39
> Rnames<-sub(".dta","",file.names)
> for(j in 1:39){
+ cat("##",j,"#### ",Rnames[j]," ##########¥n")
+ print(str(lss2012[[j]]))
+ cat("¥n¥n")
+ }

## 1 ####  hhexpe12  ##########
'data.frame':   9399 obs. of  273 variables:
 $ tinh                    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen                   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa                      : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban                  : int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso                    : int  13 15 19 13 15 19 13 14 15 13 ...
 $ annualval1              : num  86542 149548 142975 67776 80024 ...
 $ foodnomnotobacco1       : num  86542 149548 142975 65977 79924 ...
 $ annualvalrice1          : num  2943 6713 4507 4889 5947 ...
 $ annualvalnorice1        : num  83599 142835 138468 62887 74077 ...
 $ annualvalnoricenotobac1: num  83599 142835 138468 61088 73977 ...
 $ foodnom2                : num  85752 149241 142611 67558 79677 ...
 $ foodnomnotobacco2       : num  85752 149241 142611 65753 79577 ...
 $ annualvalrice2          : num  2953 6735 4522 4905 5966 ...
 $ annualvalnorice2        : num  82799 142506 138089 62653 73711 ...
 $ annualvalnoricenotobac2: num  82799 142506 138089 60848 73611 ...
 $ nonfdx                  : num  19483 39650 72822 50596 74876 ...
 $ nonfds                  : num  0 0 0 0 0 0 0 0 0 0 ...
 $ nonfdto                 : num  19483 39650 72822 50596 74876 ...
 $ nonfdcompto             : num  19483 39150 72822 47596 70376 ...
 $ durbus_0                : num  5592 137760 20274 24467 18287 ...
 $ durbus_1                : num  3594 93300 14035 17347 11467 ...
 $ durbus_2                : num  6997 150821 28155 28390 22335 ...
 $ durbus_2_2000           : num  7271 150821 28155 29485 22421 ...
 $ durbus_2_all            : num  7271 150821 28155 29939 22832 ...
 $ educex_2                : num  0 1910 2685 5950 0 ...
 $ educex_1                : num  0 1910 2685 5950 0 ...
 $ m3c13                   : int  24000 500 1500 350 200 300 300 1200 1200 400 ...
 $ m3c14                   : int  0 0 0 50 50 100 0 100 500 100 ...
 $ m3c15                   : int  0 0 0 0 0 0 0 0 0 6000 ...
 $ m3ct3                   : int  0 0 246 265 1134 265 240 1360 1080 200 ...
 $ hlthwel                 : num  300 3300 350 0 0 0 0 1000 0 1950 ...
```

```
$ hlthex_1              : num  24300 3800 1850 400 250 400 300 2300 1700 6950 ...
$ hlthex_2              : num  24300 3800 2096 665 1384 ...
$ hlthwlf               : num  300 3300 596 265 1134 ...
$ waterexp              : int  1200 2400 2500 1440 1200 600 600 720 1200 1500 ...
$ elecexp               : int  6500 18000 18500 7200 6600 3000 9600 6000 7000 5000 ...
$ garbexp               : int  108 180 150 108 144 72 144 144 180 180 ...
$ urban12               : int  1 1 1 1 1 1 1 1 1 1 ...
$ rentexpquestion       : num  NA NA NA NA NA NA NA NA NA NA ...
$ reg8Paul              : num  1 1 1 1 1 1 1 1 1 1 ...
$ reg6                  : num  1 1 1 1 1 1 1 1 1 1 ...
$ rentexp2_1            : num  288000 576000 720000 115200 172800 ...
$ ttnt                  : num  1 1 1 1 1 1 1 1 1 1 ...
$ ethnic                : int  1 1 1 1 1 1 1 1 1 1 ...
$ monthint              : int  9 9 9 12 12 12 3 3 3 6 ...
$ yearint               : num  2012 2012 2012 2012 2012 ...
$ hhsize                : num  3 5 5 3 4 2 4 4 5 6 ...
$ majority              : num  1 1 1 1 1 1 1 1 1 1 ...
$ wt9                   : num  2108 2108 2108 4417 4417 ...
$ hhszwt                : num  6324 10540 10540 13251 17668 ...
$ mcpir                 : num  0.995 0.995 0.995 1 1 ...
$ mcpinrf               : num  0.995 0.995 0.995 1 1 ...
$ mcpinf                : num  1.05 1.05 1.05 1.06 1.06 ...
$ rcpif                 : num  1.11 1.11 1.11 1.11 1.11 ...
$ rcpinf                : num  1.09 1.09 1.09 1.09 1.09 ...
$ rcpifb                : num  1.26 1.26 1.26 1.26 1.26 ...
$ rcpinfb               : num  1.26 1.26 1.26 1.26 1.26 ...
$ pcfdxnomnotob1        : num  28847 29910 28595 21992 19981 ...
$ pcfdxnom2             : num  28584 29848 28522 22519 19919 ...
$ pcfdxnomnotob2        : num  28584 29848 28522 21918 19894 ...
$ foodreal1             : num  78113 134982 129049 59260 71787 ...
$ pcfdxrl1              : num  26038 26996 25810 19753 17947 ...
$ foodreal2             : num  68122 118557 113290 53406 62986 ...
$ pcfdxrl2              : num  22707 23711 22658 17802 15747 ...
$ test1                 : num  86542 149548 142975 67776 80024 ...
$ test2                 : num  85752 149241 142611 67558 79677 ...
$ nonfood1              : num  66994 192711 136626 97169 109305 ...
$ nonfood0              : num  69420 246685 144200 105813 117585 ...
$ rentexp1              : num  11809 33970 24084 17129 19268 ...
$ nonfood1rl            : num  59037 169823 120400 84501 95054 ...
$ pcnonfood1rl          : num  19679 33965 24080 28167 23763 ...
$ rentexp0              : num  12237 43485 25419 18652 20727 ...
$ nonfd0rl              : num  61175 217388 127074 92017 102254 ...
$ hhex1nom              : num  153536 342258 279601 163147 189228 ...
$ hhexp1rl              : num  137150 304805 249449 143761 166841 ...
$ hhex0nom              : num  155962 396233 287175 171790 197509 ...
$ hhexp0rl              : num  139288 352369 256123 151278 174041 ...
$ pcex1nom              : num  51179 68452 55920 54382 47307 ...
$ pcexp1rl              : num  45717 60961 49890 47920 41710 ...
$ pcex0nom              : num  51987 79247 57435 57263 49377 ...
$ pcexp0rl              : num  46429 70474 51225 50426 43510 ...
$ quint12nom            : num  5 5 5 5 5 5 5 5 5 5 ...
$ quint12rl             : num  5 5 5 5 5 5 5 5 5 5 ...
$ nonfood2_1            : num  346588 792761 846908 209549 279339 ...
$ nonfood2rl_1          : num  262108 599527 640476 156384 208466 ...
$ pcnonfood2rl_1        : num  87369 119905 128095 52128 52117 ...
$ hlthex_3              : num  24300 3800 2096 665 1384 ...
```

```
 $ nonfood2_1ha          : num  346588 792761 846908 209549 279339 ...
 $ nonfood2rl_1ha        : num  262108 599527 640476 156384 208466 ...
 $ pcnonfood2rl_1ha      : num  87369 119905 128095 52128 52117 ...
 $ hhex2nom_1            : num  432340 942002 989519 277107 359015 ...
 $ hhex2nom_1ha          : num  432340 942002 989519 277107 359015 ...
 $ hhexp2rl_1            : num  330229 718084 753766 209790 271453 ...
 $ hhexp2rl_1ha          : num  330229 718084 753766 209790 271453 ...
 $ pcex2nom_1            : num  144113 188400 197904 92369 89754 ...
 $ pcex2nom_1ha          : num  144113 188400 197904 92369 89754 ...
 $ pcexp2rl_1            : num  110076 143617 150753 69930 67863 ...
 $ pcexp2rl_1ha          : num  110076 143617 150753 69930 67863 ...
 $ test4                 : num  262108 599527 640476 156384 208466 ...
  [list output truncated]
 - attr(*, "datalabel")= chr "Household expenditures: 2012 VHLSS"
 - attr(*, "time.stamp")= chr "19 Jun 2013 20:37"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 255 255 255 255 255 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Tﾘnh" "Huyﾖn" "Xｷ" "ｱﾞa bｵn" ...
 - attr(*, "expansion.fields")=List of 2
  ..$ : chr  "_dta" "__xi__Vars__Prefix__" "_I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I
_I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I _I"
  ..$ : chr  "_dta" "__xi__Vars__To__Drop__" "_Idwater_2 _Idwater_3 _Idwater_4 _Idwater_5
_Idwater_6 _Idwater_7 _Idwater_8 _Idwater_9 _Idwater_10 _Itoilet_2 "| __truncated__
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 10
  ..$ urban      : Named int  0 1
  .. ..- attr(*, "names")= chr  "Rural" "Urban"
  ..$ region6    : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "Red River Delta" "Midlands and Northern Mountains" "Northern
and Coastal Central" "Central Highlands" ...
  ..$ region8Paul: Named int  1 2 3 4 5 6 7 8
  .. ..- attr(*, "names")= chr  "Red River Delta" "East Northern Mtns" "West Northern Mtns"
"North Central Coast" ...
  ..$ M7C8       : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M3C15      : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C14      : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C13      : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M7C26      : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C24      : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C20      : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 2 ####  muc1a  ##########
'data.frame':   36655 obs. of  18 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa     : int  4 4 4 4 4 4 4 4 4 4 ...
```

```
 $ diaban : int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso   : int  13 13 13 15 15 15 15 15 19 19 ...
 $ matv   : int  1 2 3 1 2 3 4 5 1 2 ...
 $ m1ac2  : int  1 2 1 1 2 2 2 2 2 1 ...
 $ m1ac3  : int  1 2 3 1 2 3 3 4 1 3 ...
 $ m1ac4a : int  11 2 3 6 11 1 7 8 4 1 ...
 $ m1ac4b : int  1934 1942 1978 1979 1981 2008 2010 1954 1953 1984 ...
 $ m1ac5  : int  77 70 34 33 30 4 2 58 59 28 ...
 $ m1ac6  : int  2 2 1 2 2 NA NA 2 4 2 ...
 $ m1ac7  : int  12 12 12 12 12 12 12 12 12 12 ...
 $ m1ac8  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m1ac9  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m1ac10 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m1ac11n: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m1ac11t: int  NA NA NA NA NA NA NA NA NA NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:55"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 251 251 252 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 9
  ..$ m1ac9  : Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "In resident area in com./ward" "In other places in the
province/city" "In other province/city" "Others" ...
  ..$ m1ac8  : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "student studies in the country" "Cadre studies in the
country" "Medical treatment in the country/overseas" "Newborn, newcomer" ...
  ..$ m1ac6  : Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "Single" "Married" "Widowed" "Divorced" ...
  ..$ m1ac3  : Named int  1 2 3 4 5 6 7
  .. ..- attr(*, "names")= chr  "Household head" "Wife/husband" "Child" "Father/mother" ...
  ..$ m1ac2  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Male" "Female"
  ..$ M1AC11N: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1AC10 : Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "***Undefined Label" "***Undefined Label" "***Undefined Label"
"***Undefined Label" ...
  ..$ M1AC7  : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M1AC4A : Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 3 ####  muc1b  ##########
'data.frame':   6325 obs. of  62 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  1 1 1 2 4 4 4 4 4 4 ...
 $ xa      : int  4 7 28 40 118 118 124 124 124 124 ...
 $ diaban  : int  8 22 25 16 39 39 22 22 22 22 ...
 $ hoso    : int  15 13 20 13 13 15 15 15 19 19 ...
 $ m1bma   : int  1 1 1 1 1 1 1 2 1 2 ...
 $ m1bc3   : int  1 2 2 1 2 2 1 2 2 1 ...
```

```
$ m1bc4   : int  4 3 3 3 3 3 3 3 3 3 ...
$ m1bc5   : int  1949 1986 1984 1985 1987 1954 1962 1968 1965 1969 ...
$ m1bc6   : chr  "12" "12" "12" "12" ...
$ m1bc7a  : int  9 9 9 3 9 3 9 8 3 3 ...
$ m1bc7b  : int  0 0 0 0 0 0 0 0 0 4 ...
$ m1bc8   : int  -2 9999 -2 2003 2011 1972 1984 1987 1982 1995 ...
$ m1bc9   : int  1960 2011 2012 2011 2011 1982 1988 1989 1987 1994 ...
$ m1bc10  : int  1 3 3 3 3 3 3 3 3 3 ...
$ m1bc11  : int  1 3 1 1 1 1 1 1 1 3 ...
$ m1bc12am: chr  "KD" "" "Giクo viェn" "Bクn hオng" ...
$ m1bc12a : int  52 NA 23 52 24 92 26 33 75 NA ...
$ m1bc12bc: chr  "H¥xe9" "" "ァケi h臘 qu鐵 gia HN" "H¥xe9 CT" ...
$ m1bc12bm: chr  "KD" "" "Giクo d口" "Bクn buォn quヌn クo" ...
$ m1bc12b : int  47 NA 85 46 46 110 90 52 16 NA ...
$ m1bc13  : int  4 2 3 2 2 1 1 1 1 1 ...
$ m1bc14  : int  -1 NA 34 NA NA NA NA NA NA NA ...
$ m1bc15  : int  3 3 1 1 1 1 1 1 1 2 ...
$ m1bc16  : int  NA NA 1 1 1 1 1 1 1 NA ...
$ m1bc17am: chr  "" "" "" "" ...
$ m1bc17a : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc17bc: chr  "" "" "" "" ...
$ m1bc17bm: chr  "" "" "" "" ...
$ m1bc17b : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc18  : int  NA NA NA NA NA NA NA NA NA 2 ...
$ m1bc19  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc20  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc21  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc22  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc23am: chr  "" "" "" "" ...
$ m1bc23a : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc23bc: chr  "" "" "" "" ...
$ m1bc23bm: chr  "" "" "" "" ...
$ m1bc23b : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc24  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m1bc25  : int  1 2 1 1 1 1 1 1 2 1 ...
$ m1bc26  : int  1967 NA 2007 2004 2011 2005 1987 2008 NA 1997 ...
$ m1bc27  : int  4 NA 1 2 2 1 1 1 NA 1 ...
$ m1bc28  : int  -1 NA NA NA NA NA NA NA NA NA ...
$ m1bc29  : int  1 NA 1 1 1 2 1 2 NA 2 ...
$ m1bc30am: chr  "" "" "" "" ...
$ m1bc30a : int  NA NA NA NA NA 43 NA 33 NA 83 ...
$ m1bc30bc: chr  "" "" "" "" ...
$ m1bc30bm: chr  "" "" "" "" ...
$ m1bc30b : int  NA NA NA NA NA 30 NA 16 NA 49 ...
$ m1bc31  : int  NA NA NA NA NA 1 NA 6 NA 1 ...
$ m1bc32  : num  110000 3000 5000 5000 2000 22000 7000 3000 3000 6000 ...
$ m1bc33a : num  0 0 15000 2000 1000 0 0 0 0 0 ...
$ m1bc33b : int  0 0 0 0 0 0 0 0 0 0 ...
$ m1bc34  : int  1 2 365 8 50 365 36 40 30 144 ...
$ m1bc35  : int  2 3 4 2 3 3 3 3 3 3 ...
$ m1bc36  : num  150000 10000 30000 150000 50000 200000 40000 20000 10000 30000 ...
$ m1bc37  : num  100000 20000 50000 120000 100000 20000 10000 8000 10000 10000 ...
$ m1bc38  : int  1 4 1 1 4 2 2 2 2 2 ...
$ m1bc39  : int  NA 1 NA NA 1 NA NA NA NA NA ...
$ m1bc40  : chr  "" "O" "" "" ...
- attr(*, "datalabel")= chr ""
```

```
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:55"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 251 252 2 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 37
  ..$ m1bc38 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "in the same household record book" "In the same comm./ward"
"In the same district" "Others"
  ..$ m1bc35 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "Yes, in next year" "Yes, but don't know when" "No" "Don't
know"
  ..$ m1bc31 : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "In private house" "Stay with friends/relatives" "Stay with
the employer" "In residental quarter for employees" ...
  ..$ m1bc29 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1bc25 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1bc24 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1bc22 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1bc18 : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Still studying"
  ..$ m1bc16 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1bc13 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "In the comm./ward" "Other place in the province/city" "Other
pronvince/city" "Abroad"
  ..$ m1bc11 : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No, still studying" "No, not working"
  ..$ m1bc10 : Named int  1 2 3 4 5 6 7
  .. ..- attr(*, "names")= chr  "For working" "For study" "For getting married" "Household
split" ...
  ..$ m1bc7a : Named int  0 1 2 3 4 5 6 7 8 9 ...
  .. ..- attr(*, "names")= chr  "No qualification" "Primary school" "Lower secondary school"
"Upper secondary school" ...
  ..$ m1bc4  : Named int  2 3 4 5 6 7 8 9
  .. ..- attr(*, "names")= chr  "Wife/husband" "Child" "Father/mother" "Paternal/maternal
grandfather/grandmother" ...
  ..$ m1bc3  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Male" "Female"
  ..$ M1BC39 : Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "NR" "***Undefined Label" "***Undefined Label" "***Undefined
Label" ...
  ..$ M1BC37 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC36 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC34 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC33B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC33A: Named int -1
```

```
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC32 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC30B: Named int  35 68 84 85 99 110 140 160 170
  .. ..- attr(*, "names")= chr  "Sカn xuハt vオ phゥn ph鑲 ヨiヨn, khン ヨ鑼 ..." "***Undefined
Label" "***Undefined Label" "***Undefined Label" ...
  ..$ M1BC28 : Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "NR" "***Undefined Label" "***Undefined Label" "***Undefined
Label" ...
  ..$ M1BC27 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "Trong Xa/Phuong" "Noi khac trong Tinh/TP" "Tinh/TP khac"
"Nuoc ngoai"
  ..$ M1BC26 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC23B: Named int  35 68 84 85 99 110 140 160 170
  .. ..- attr(*, "names")= chr  "Sカn xuハt vオ phゥn ph鑲 ヨiヨn, khン ヨ鑼 ..." "***Undefined
Label" "***Undefined Label" "***Undefined Label" ...
  ..$ M1BC21 : Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "NR" "***Undefined Label" "***Undefined Label" "***Undefined
Label" ...
  ..$ M1BC20 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "Trong Xa/Phuong" "Noi khac trong Tinh/TP" "Tinh/TP khac"
"Nuoc ngoai"
  ..$ M1BC19 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC17B: Named int  35 68 84 85 99 110 140 160 170
  .. ..- attr(*, "names")= chr  "Sカn xuハt vオ phゥn ph鑲 ヨiヨn, khン ヨ鑼 ..." "***Undefined
Label" "***Undefined Label" "***Undefined Label" ...
  ..$ M1BC15 : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Co" "Khong, dang di hoc" "Khong, khong lam viec"
  ..$ M1BC14 : Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "NR" "***Undefined Label" "***Undefined Label" "***Undefined
Label" ...
  ..$ M1BC12B: Named int  35 68 84 85 99 110 140 160 170
  .. ..- attr(*, "names")= chr  "Sカn xuハt vオ phゥn ph鑲 ヨiヨn, khン ヨ鑼 ..." "***Undefined
Label" "***Undefined Label" "***Undefined Label" ...
  ..$ M1BC9  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1BC8  : Named int  -2 -1 9999
  .. ..- attr(*, "names")= chr  "KB" "NR" "Dang di hoc"
  ..$ M1BC7B : Named int  0 4 5 6 7
  .. ..- attr(*, "names")= chr  "Khオng" "Sヤ cハp nghメ" "Trung cハp nghメ" "TH CN" ...
NULL


## 4 ####  muc1c  ##########
'data.frame':   16776 obs. of  15 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  7 7 7 7 7 7 7 7 22 22 ...
 $ diaban: int  22 22 22 22 22 22 22 22 19 19 ...
 $ hoso  : int  13 13 13 13 15 15 15 15 13 13 ...
 $ m1cc3 : int  1 2 3 4 1 2 3 4 1 2 ...
 $ m1cc4 : int  1 2 2 2 2 1 2 2 2 1 ...
 $ m1cc5 : int  54 53 23 19 53 58 24 21 69 36 ...
 $ m1cc6 : int  1 1 2 1 1 1 1 1 1 1 ...
```

```
 $ m1cc7 : int  1 2 NA 3 1 2 3 4 1 2 ...
 $ m1cc8 : int  NA NA 1 NA NA NA NA NA NA NA ...
 $ m1cc9 : int  NA NA 2 NA NA NA NA NA NA NA ...
 $ m1cc10: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m1cc11: int  NA NA NA NA NA NA NA NA NA NA ...
 $ ghep  : int  1 1 0 1 1 1 1 1 1 1 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 252 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 7
  ..$ m1cc9 : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "For work" "Married" "Household split" "For study" ...
  ..$ m1cc8 : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Moved, household split" "Died" "Others"
  ..$ m1cc6 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1cc4 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Male" "Female"
  ..$ GHEP  : Named int  0 1 9
  .. ..- attr(*, "names")= chr  "Khong DT 2010" "Co SL 2010" "SL 2010 ko khop hoac ko tim
thay"
  ..$ M1CC11: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M1CC10: Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "NR" "***Undefined Label" "***Undefined Label" "***Undefined
Label" ...
NULL


## 5 ####  Muc2  ##########
'data.frame':   36655 obs. of  34 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban: int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso  : int  13 13 13 15 15 15 15 15 19 19 ...
 $ matv  : int  1 2 3 1 2 3 4 5 1 2 ...
 $ m2c1  : chr  "9" "12" "12" "12" ...
 $ m2c2a : int  2 9 3 9 9 0 NA 9 9 3 ...
 $ m2c2b : int  0 0 0 0 0 0 NA 0 0 0 ...
 $ m2c3  : int  1 1 1 1 1 1 NA 1 1 1 ...
 $ m2c4  : int  3 3 3 3 3 1 NA 3 3 3 ...
 $ m2c5  : int  2 2 2 2 2 NA NA 2 2 2 ...
 $ m2c6  : int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c7  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m2c8  : int  NA NA NA NA NA 1 NA NA NA NA ...
 $ m2c9  : int  NA NA NA NA NA 2 NA NA NA NA ...
 $ m2c10a: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m2c10b: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m2c11a: int  NA NA NA NA NA 960 NA NA NA NA ...
 $ m2c11b: int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c11c: int  NA NA NA NA NA 0 NA NA NA NA ...
```

```
 $ m2c11d: int  NA NA NA NA NA 200 NA NA NA NA ...
 $ m2c11e: int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c11f: int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c11g: int  NA NA NA NA NA 250 NA NA NA NA ...
 $ m2c11h: int  NA NA NA NA NA 500 NA NA NA NA ...
 $ m2c11i: int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c11k: int  NA NA NA NA NA 1910 NA NA NA NA ...
 $ m2c12 : int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c13 : int  NA NA NA NA NA 0 NA NA NA NA ...
 $ m2c14 : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m2c15a: int  NA NA NA NA NA 1 1 NA NA NA ...
 $ m2c15b: int  NA NA NA NA NA 2 2 NA NA NA ...
 $ m2c16 : int  NA NA NA 10 NA NA NA NA 10 NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 2 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 27
  ..$ m2c15b : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m2c15a : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m2c10b : Named int  1 2 3 4 5 6 7 8 9
  .. ..- attr(*, "names")= chr  "Poor households" "Ethnic minorities" "Households of fallen
combatants" "War invalids, sick soldiers,  or with revolutionary merits" ...
  ..$ m2c10a : Named int  1 2 3 4 5 6 7 8 9
  .. ..- attr(*, "names")= chr  "Poor households" "Ethnic minorities" "Households of fallen
combatants" "War invalids, sick soldiers,  or with revolutionary merits" ...
  ..$ m2c9   : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m2c8   : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "Public" "Community-established" "Private" "Others"
  ..$ m2c6   : Named int  0 1 2 3 4 5 6 7 8 9 ...
  .. ..- attr(*, "names")= chr  "Nursery, kindergarten" "Primary" "Lower secondary" "Higher
secondary" ...
  ..$ m2c5   : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m2c4   : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "On summer vacation" "No"
  ..$ m2c3   : Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "Public" "Semi-public" "Community-established" "Private" ...
  ..$ m2c2b  : Named int  0 1 2 3 4 5 6 7 8 9 ...
  .. ..- attr(*, "names")= chr  "No qualification" "Primary" "Lower secondary" "Higher
secondary" ...
  ..$ m2c2a  : Named int  0 1 2 3 4 5 6 7 8 9 ...
  .. ..- attr(*, "names")= chr  "No qualification" "Primary" "Lower secondary" "Higher
secondary" ...
  ..$ M2AC11A: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11B: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11C: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
```

```
  ..$ M2AC11D: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11E: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11F: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11G: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11H: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11I: Named int  -2 0
  .. ..- attr(*, "names")= chr  "KB" "0"
  ..$ M2AC11K: Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M2AC12 : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M2AC13 : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M2AC14 : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M2AC16 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M2AC7  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 6 ####  Muc3A  ##########
'data.frame':   18213 obs. of  16 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 4 4 4 4 4 16 22 ...
 $ diaban: int  8 8 8 8 8 8 8 8 3 19 ...
 $ hoso  : int  13 13 15 15 15 19 19 19 14 13 ...
 $ matv  : int  1 2 3 4 5 1 4 5 1 1 ...
 $ m3c2  : chr  "hiュu" "Hカo" "Chゥu" "Nguyヨt" ...
 $ m3c3a : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m3c3b : int  4 4 8 8 8 6 8 8 10 6 ...
 $ m3c4  : int  3 3 3 3 3 3 3 3 3 3 ...
 $ m3c5a : int  2 4 2 3 4 2 3 3 3 3 ...
 $ m3c5b : int  100 200 500 800 2000 150 100 100 1000 1050 ...
 $ m3c6a : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m3c6b : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m3c7  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m3c8  : int  NA NA NA NA NA NA NA NA NA NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 8 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 8
  ..$ m3c7 : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes, it did" "It had some but not enough" "No"
  ..$ m3c4 : Named int  1 2 3 4
```

```
  .. ..- attr(*, "names")= chr  "Vaccination" "Pregnancy checks, insertion of intrauterine
devices, abortion, birth delivery" "Health checks and consultancy" "Medical treatment"
  ..$ m3c3b: Named int  1 2 3 4 5 6 7 8 9 10 ...
  .. ..- attr(*, "names")= chr  "Village/hamlet clinics" "Commune/ward clinics" "Regional
general clinics." "Urban/rural district hospitals" ...
  ..$ M3C8 : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C6B: Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C6A: Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C5B: Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C5A: Named int 0
  .. ..- attr(*, "names")= chr "0"
NULL


## 7 ####  Muc3B  ##########
'data.frame':   36655 obs. of  15 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban: int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso  : int  13 13 13 15 15 15 15 15 19 19 ...
 $ matv  : int  1 2 3 1 2 3 4 5 1 2 ...
 $ m3c9  : int  1 1 2 1 1 1 1 2 1 2 ...
 $ m3c10a: int  6 6 NA 7 6 1 1 NA 6 NA ...
 $ m3c10b: int  0 0 NA 0 0 0 0 NA 0 NA ...
 $ m3c11 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m3c12a: int  1 1 NA 2 2 1 1 NA 1 NA ...
 $ m3c12b: int  2 2 NA 2 2 2 2 NA 2 NA ...
 $ m3c13 : int  24000 NA NA 500 NA NA NA NA 1500 NA ...
 $ m3c14 : int  0 NA NA 0 NA NA NA NA 0 NA ...
 $ m3c15 : int  0 NA NA 0 NA NA NA NA 0 NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 251 251 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 8
  ..$ m3c12b: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m3c12a: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m3c10 : Named int  1 2 3 4 5 6 7 8 9 10
  .. ..- attr(*, "names")= chr  "Booklet/card for children aged 6 or less" "Health insurance
card for the poor" "Health insurance card for the near-poor" "Free healthcare
booklet/card/certificate" ...
  ..$ m3c9  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ M3C11 : Named int  -1 0
  .. ..- attr(*, "names")= chr  "NR" "0"
  ..$ M3C13 : Named int 0
```

```
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C14 : Named int 0
  .. ..- attr(*, "names")= chr "0"
  ..$ M3C15 : Named int 0
  .. ..- attr(*, "names")= chr "0"
NULL


## 8 ####  Muc4A  ##########
'data.frame':   36655 obs. of  53 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa     : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban : int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso   : int  13 13 13 15 15 15 15 15 19 19 ...
 $ matv   : int  1 2 3 1 2 3 4 5 1 2 ...
 $ m4ac1a : int  2 2 1 1 1 NA NA 2 2 2 ...
 $ m4ac1b : int  2 2 2 2 2 NA NA 2 2 2 ...
 $ m4ac1c : int  2 2 2 2 2 NA NA 2 2 1 ...
 $ m4ac2  : int  2 2 1 1 1 NA NA 2 2 1 ...
 $ m4ac3a : int  NA NA 320 320 312 NA NA NA NA 360 ...
 $ m4ac3m : chr  "" "" "L才m mノu" "Ph¥xe3 giクm ョ鐵" ...
 $ m4ac3  : int  NA NA 74 19 24 NA NA NA NA 52 ...
 $ m4ac4c : chr  "" "" "CT mニt tr 麒 v才ng" "Cォng tyⅠセp mクy" ...
 $ m4ac4m : chr  "" "" "Quカng cクo" "nhヒn thヌu d¥xf9 クn" ...
 $ m4ac4  : int  NA NA 73 43 84 NA NA NA NA 56 ...
 $ m4ac5  : int  NA NA 1 1 1 NA NA NA NA 1 ...
 $ m4ac6  : int  NA NA 26 26 22 NA NA NA NA 30 ...
 $ m4ac7  : int  NA NA 8 8 8 NA NA NA NA 8 ...
 $ m4ac8a : int  NA NA 4 4 5 NA NA NA NA 2 ...
 $ m4ac8b : int  NA NA NA NA 1 NA NA NA NA NA ...
 $ m4ac9  : int  NA NA 1 1 1 NA NA NA NA 2 ...
 $ m4ac10 : int  NA NA 3489 10747 8598 NA NA NA NA NA ...
 $ m4ac11 : num  NA NA 41873 128965 103172 ...
 $ m4ac12a: int  NA NA 4985 10747 5374 NA NA NA NA NA ...
 $ m4ac12b: int  NA NA 5982 26868 12896 NA NA NA NA NA ...
 $ m4ac13a: int  NA NA 1 1 1 NA NA NA NA NA ...
 $ m4ac13b: int  NA NA 1 1 1 NA NA NA NA NA ...
 $ m4ac13c: int  NA NA 2 1 1 NA NA NA NA NA ...
 $ m4ac14 : int  NA NA 2 2 2 NA NA NA NA 2 ...
 $ m4ac15a: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac15m: chr  "" "" "" "" ...
 $ m4ac15 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac16c: chr  "" "" "" "" ...
 $ m4ac16m: chr  "" "" "" "" ...
 $ m4ac16 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac17 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac18 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac19 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac20 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac21 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac22 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac23 : num  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac24a: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac24b: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac25 : int  NA NA NA NA NA NA NA NA NA NA ...
```

```
 $ m4ac26 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4ac27 : int  1 1 2 2 2 NA NA 2 1 2 ...
 $ m4ac28a: int  0 0 NA NA NA NA NA NA 0 NA ...
 $ m4ac28b: int  0 0 NA NA NA NA NA NA 0 NA ...
 $ m4ac28c: int  29909 22731 NA NA NA NA NA NA 42000 NA ...
 $ m4ac28d: int  0 0 NA NA NA NA NA NA 0 NA ...
 $ m4ac28e: int  0 0 NA NA NA NA NA NA 0 NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 39
  ..$ m4ac27 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac25 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac21 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac20 : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "Farming, forestry, aquaculture households / individuals"
"Independent production and business households" "Collective" "Private" ...
  ..$ m4ac17 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac16 : Named int  35 110 140 160
  .. ..- attr(*, "names")= chr  "Production and distribution of electricity, gas, hot water,
steam and air conditioners" "Agriculture and related services: crop production" "Agriculture
and related services: husbandry" "Agriculture and related services: agricultural services"
  ..$ m4ac14 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac13c: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac13b: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac13a: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac9  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac8b : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac8a : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "Farming, forestry, aquaculture households / individuals"
"Independent production and business households" "Collective" "Private" ...
  ..$ m4ac5  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac4  : Named int  35 110 140 160
  .. ..- attr(*, "names")= chr  "Production and distribution of electricity, gas, hot water,
steam and air conditioners" "Agriculture and related services: crop production" "Agriculture
and related services: husbandry" "Agriculture and related services: agricultural services"
  ..$ m4ac2  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac1c : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac1b : Named int  1 2
```

```
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4ac1a : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ M4AC28E: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC28D: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC28C: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC28B: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC28A: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC26 : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC24B: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC24A: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC23 : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC22 : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC19 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4AC18 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4AC15A: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC12B: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC12A: Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC11 : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC10 : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
  ..$ M4AC7  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4AC6  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4AC3A : Named int -1
  .. ..- attr(*, "names")= chr "KXD"
NULL


## 9 ####  Muc4A2  ##########
'data.frame':   36655 obs. of  18 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa      : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban  : int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso    : int  13 13 13 15 15 15 15 15 19 19 ...
 $ matv    : int  1 2 3 1 2 3 4 5 1 2 ...
 $ m4a2c1  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4a2c2  : int  NA NA NA NA NA NA NA NA NA NA ...
```

```
 $ m4a2c3  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4a2c4  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4a2c5  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4a2c6am: chr  "" "" "" "" ...
 $ m4a2c6a : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4a2c6bc: chr  "" "" "" "" ...
 $ m4a2c6bm: chr  "" "" "" "" ...
 $ m4a2c6b : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4a2c7  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4a2c8  : int  NA NA NA NA NA NA NA NA NA NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 252 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 8
  ..$ m4a2c5 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "The most time-consuming job" "The second most time-consuming
job" "Others" "No job"
  ..$ m4a2c1 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ M4A2C8 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4A2C7 : Named int  -1 9999
  .. ..- attr(*, "names")= chr  "NR" "Chua tro lai ho"
  ..$ M4A2C6B: Named int  35 68 84 85 99 110 140 160 170
  .. ..- attr(*, "names")= chr  "Sカn xuハt vオ phゥn ph鑞 ョiヨn, khン ョ鑞 ..." "***Undefined
Label" "***Undefined Label" "***Undefined Label" ...
  ..$ M4A2C4 : Named int  -1 4 6 8 17 22 40 42 54 56 ...
  .. ..- attr(*, "names")= chr  "NR" "***Undefined Label" "***Undefined Label" "***Undefined
Label" ...
  ..$ M4A2C3 : Named int  1 2 3 4 9
  .. ..- attr(*, "names")= chr  "Noi khac trong Xa/Phuong" "Noi khac trong Tinh/TP" "Tinh/TP
khac" "Nuoc ngoai" ...
  ..$ M4A2C2 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 10 ####  Muc4B0  ##########
'data.frame':   11331 obs. of  9 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  3 4 4 8 16 16 16 16 16 16 ...
 $ xa    : int  91 148 148 328 382 382 382 397 397 397 ...
 $ diaban: int  6 6 6 16 10 10 10 6 6 6 ...
 $ hoso  : int  14 14 15 14 13 14 15 13 13 20 ...
 $ m4b0ma: int  1 1 1 1 1 1 1 1 5 1 ...
 $ m4b0c3: int  900 2000 1260 250 3528 540 2520 1440 240 1440 ...
 $ m4b0c4: num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b0c5: num  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "31 Oct 2013 11:01"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 255 255
```

```
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Tﾘnh" "Huyﾖn" "Xｷ" "ｱﾞa bｵn" ...
 - attr(*, "version")= int 8
 - attr(*, "label.table")=List of 3
  ..$ M4B0C5: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B0C4: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B0C3: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 11 ####  Muc4B11  ##########
'data.frame':   9090 obs. of  12 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  16 16 16 16 16 16 16 16 16 16 ...
 $ xa     : int  382 382 382 382 382 382 397 397 397 397 ...
 $ diaban : int  10 10 10 10 10 10 6 6 6 6 ...
 $ hoso   : int  13 13 14 14 15 15 13 13 20 20 ...
 $ m4b11ma: int  1 3 1 3 1 3 1 3 1 3 ...
 $ m4b11c3: int  3528 3528 540 540 2520 2520 1440 1440 1440 1440 ...
 $ m4b11c4: int  1620 1520 250 230 1260 1190 720 664 690 620 ...
 $ m4b11c5: int  0 0 0 0 0 0 30 20 0 0 ...
 $ m4b11c6: int  0 0 0 0 700 700 0 0 0 0 ...
 $ m4b11c7: int  NA NA NA NA 4200 4550 NA NA NA NA ...
 $ m4b11c8: int  9720 9880 1612 1607 7560 7735 4968 4766 4968 4588 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "31 Oct 2013 11:01"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Tﾘnh" "Huyﾖn" "Xｷ" "ｱﾞa bｵn" ...
 - attr(*, "version")= int 8
 - attr(*, "label.table")=List of 6
  ..$ M4B11C7: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B11C6: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B11C5: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B11C4: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B11C3: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B11MA: Named int  0 1 2 3 4 5 6 7
  .. ..- attr(*, "names")= chr  "0" "L□tﾎ ﾖｵng xuｳn" "L□tﾎ hﾌ thu" "L□tﾎ m¥xefa/thu ﾖ
ｵng" ...
NULL


## 12 ####  Muc4B12  ##########
'data.frame':   11890 obs. of  11 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  3 4 4 4 4 4 8 16 16 16 ...
 $ xa     : int  91 148 148 148 148 148 328 382 382 382 ...
```

```
 $ diaban : int  6 6 6 6 6 6 16 10 10 10 ...
 $ hoso   : int  14 15 15 15 15 15 14 13 13 15 ...
 $ m4b12ma: int  21 13 14 15 16 17 16 8 20 8 ...
 $ m4b12c3: int  900 720 360 360 1800 180 250 1440 360 720 ...
 $ m4b12c4: int  NA 3600 650 1100 3000 450 5200 1400 NA 290 ...
 $ m4b12c5: int  NA 3550 620 1070 2990 430 5000 1400 NA 290 ...
 $ m4b12c6: int  79764 24775 7418 8534 29810 3430 31000 10000 4000 1740 ...
 $ m4b12c7: int  79764 25124 7777 8774 29910 3589 33000 10000 4000 1740 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:58"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 5
  ..$ m4b12ma: Named int  8 9 10 11 12 13 14 15 16 17 ...
  .. ..- attr(*, "names")= chr  "Maize (corn)" "Sweet potato" "Cassava/manioc" "Other staple
food crops" ...
  ..$ M4B12C3: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B12C4: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B12C5: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B12C6: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 13 ####  Muc4B13  ##########
'data.frame':   2649 obs. of  12 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  16 16 16 16 268 269 269 271 271 272 ...
 $ xa      : int  406 406 406 448 9562 9604 9604 9658 9673 9733 ...
 $ diaban  : int  19 19 19 12 26 5 5 6 4 6 ...
 $ hoso    : int  13 14 15 13 13 13 14 13 15 13 ...
 $ m4b13ma : int  23 23 23 23 23 23 23 23 23 22 ...
 $ m4b13c3a: int  720 268 552 720 1020 600 300 2160 360 360 ...
 $ m4b13c3b: int  1 1 1 1 1 1 1 1 1 1 ...
 $ m4b13c4 : int  120 44 75 105 400 30 60 620 75 50 ...
 $ m4b13c5 : int  100 0 0 65 400 30 0 600 60 50 ...
 $ m4b13c6 : int  1600 NA NA 1040 7500 536 NA 12000 1290 700 ...
 $ m4b13c7 : int  1920 696 1200 1680 7500 536 535 12600 1612 700 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:58"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 251 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 6
  ..$ m4b13c3b: Named int  1 2
  .. ..- attr(*, "names")= chr  "M2" "Unit"
  ..$ m4b13ma : Named int  22 23 24 25 26 27 28 29 30 31 ...
  .. ..- attr(*, "names")= chr  "Soya bean/soybean" "Peanut/groundnut" "Sesame"
```

```
"Sugarcane" ...
  ..$ M4B13C3A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B13C4 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B13C5 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B13C6 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 14 ####  Muc4B14  ##########
'data.frame':   6203 obs. of  12 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  16 16 16 16 16 16 17 18 18 19 ...
 $ xa      : int  397 406 406 406 448 448 499 574 574 607 ...
 $ diaban  : int  6 19 19 19 12 12 9 2 2 32 ...
 $ hoso    : int  20 15 15 15 14 14 14 14 15 20 ...
 $ m4b14ma : int  42 39 41 42 47 53 41 52 52 39 ...
 $ m4b14c3a: int  4 1 3 1 1 1 360 720 1260 100 ...
 $ m4b14c3b: int  2 2 2 2 2 2 1 1 1 1 ...
 $ m4b14c4 : int  15 20 10 20 20 NA 120 NA NA 300 ...
 $ m4b14c5 : int  0 0 0 0 0 NA 80 NA NA 280 ...
 $ m4b14c6 : int  NA NA NA NA NA 0 714 27917 48847 17280 ...
 $ m4b14c7 : int  450 180 40 200 600 50 1071 27917 48847 18000 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:57"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 251 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 6
  ..$ m4b14c3b: Named int  1 2
  .. ..- attr(*, "names")= chr  "M2" "Unit"
  ..$ m4b14ma : Named int  39 40 41 42 43 44 45 46 47 48 ...
  .. ..- attr(*, "names")= chr  "Citrus" "Pineapple" "Banana" "Mango, horse mango" ...
  ..$ M4B14C3A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B14C4 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B14C5 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B14C6 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 15 ####  Muc4B15  ##########
'data.frame':   6078 obs. of  10 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  16 16 16 16 16 16 16 16 16 16 ...
 $ xa     : int  382 382 397 406 406 406 406 406 418 418 ...
 $ diaban : int  10 10 6 19 19 19 19 19 8 8 ...
 $ hoso   : int  13 15 20 13 13 14 15 15 14 19 ...
```

```
 $ m4b15ma: int  1 1 1 1 4 1 1 3 1 1 ...
 $ m4b15c2: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b15c3: int  500 400 120 0 0 299 380 40 102 240 ...
 $ m4b15c4: int  480 0 120 180 100 50 170 60 0 0 ...
 $ m4b15c5: int  980 400 240 180 100 349 550 100 102 240 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:57"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 4
  ..$ m4b15ma: Named int  1 2 3 4 5 6 7 8 9 10
  .. ..- attr(*, "names")= chr  "Straw, thatch" "Sweet potato leaves and stems" "Cassava and
maize stems" "Stems of beans of all kinds" ...
  ..$ M4B15C2: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B15C3: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B15C4: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 16 ####  Muc4B16  ##########
'data.frame':   46814 obs. of  13 variables:
 $ tinh     : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen    : int  3 3 3 3 3 3 3 3 3 4 ...
 $ xa       : int  91 91 91 91 91 91 91 91 91 148 ...
 $ diaban   : int  6 6 6 6 6 6 6 6 6 6 ...
 $ hoso     : int  14 14 14 14 14 14 14 14 14 15 ...
 $ m4b16ma  : int  3 5 6 7 8 91 94 15 18 1 ...
 $ m4b16c2a : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b16c2b : int  3988 2991 2792 997 299 598 997 4985 349 259 ...
 $ m4b16c2c : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b16c2d : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b16c2e : int  3988 2991 2792 997 299 598 997 4985 349 259 ...
 $ m4b16c2e1: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b16c2e2: int  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:57"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 252 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 7
  ..$ m4b16ma  : Named int  1 2 3 4 5 6 7 8 10 11 ...
  .. ..- attr(*, "names")= chr  "Seeds" "Saplings" "Chemical fertilizers" "Organic
fertilizers(seft-provided)" ...
  ..$ M4B16C2A : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B16C2B : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B16C2C : Named int -2
```

```
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B16C2D : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B16C2E1: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B16C2E2: Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 17 ####  Muc4B21  ##########
'data.frame':   11553 obs. of  10 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  16 16 16 16 16 16 16 16 16 16 ...
 $ xa      : int  382 382 382 382 382 397 397 406 406 406 ...
 $ diaban  : int  10 10 10 10 10 6 6 19 19 19 ...
 $ hoso    : int  13 13 13 13 13 20 20 13 13 13 ...
 $ m4b21ma : int  1 6 7 12 18 5 18 2 8 18 ...
 $ m4b21c3 : int  1000 40 30 250 NA 20 NA 141 22 NA ...
 $ m4b21c4a: int  1000 0 0 0 NA 0 NA 141 22 NA ...
 $ m4b21c4b: int  58000 NA NA NA 0 NA 0 6500 25740 0 ...
 $ m4b21c5 : int  58000 3200 1350 500 3532 1760 680 6500 25740 300 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:57"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 4
  ..$ m4b21ma : Named int  1 2 3 4 5 6 7 8 9 10 ...
  .. ..- attr(*, "names")= chr  "Live pig pork" "Live buffalo and cow meat" "Horses" "Sheep,
goats" ...
  ..$ M4B21C3 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B21C4A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B21C4B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 18 ####  Muc4B22  ##########
'data.frame':   7236 obs. of  29 variables:
 $ tinh     : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen    : int  16 16 16 16 16 16 16 16 16 16 ...
 $ xa       : int  382 382 382 397 406 406 406 406 406 418 ...
 $ diaban   : int  10 10 10 6 19 19 19 19 19 8 ...
 $ hoso     : int  13 13 13 20 13 13 14 15 15 13 ...
 $ m4b22ma  : int  1 5 6 5 1 2 5 1 5 5 ...
 $ m4b22c7  : int  0 0 0 200 0 3000 179 0 120 200 ...
 $ m4b22c8  : int  33280 200 300 300 12100 1300 628 6000 800 250 ...
 $ m4b22c9  : int  1000 0 0 0 110 10 45 50 0 50 ...
 $ m4b22c10a: int  0 0 0 0 64 0 20 20 0 0 ...
 $ m4b22c10b: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b22c10c: int  0 0 0 0 0 0 0 200 0 0 ...
```

```
$ m4b22c10d: int  0 0 0 0 20 0 10 0 0 0 ...
$ m4b22c10e: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c10f: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c10g: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c10h: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c10i: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c10j: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c10k: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c11 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c12 : int  0 0 0 0 2100 300 319 20 10 0 ...
$ m4b22c13 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c14 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c15 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c16 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c17 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c18 : int  0 0 0 0 200 50 30 50 0 0 ...
$ m4b22c19 : int  34280 200 300 500 14594 4660 1231 6340 930 500 ...
- attr(*, "datalabel")= chr ""
- attr(*, "time.stamp")= chr "10 Nov 2014 15:56"
- attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
- attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
- attr(*, "val.labels")= chr  "" "" "" "" ...
- attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
- attr(*, "version")= int 12
- attr(*, "label.table")=List of 23
 ..$ m4b22ma  : Named int  1 2 3 4 5 6 7 8 9 10 ...
 .. ..- attr(*, "names")= chr  "Pigs" "Water buffalos, cows" "Horses" "Sheep, goats" ...
 ..$ M4B22C11 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C12 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C13 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C14 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C15 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C16 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C17 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C18 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C7  : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C8  : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C9  : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C10A: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C10B: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C10C: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B22C10D: Named int -2
```

```
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10E: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10F: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10G: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10H: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10I: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10J: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B22C10K: Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 19 ####  Muc4B31  ##########
'data.frame':   162 obs. of  9 variables:
 $ tinh   : int  1 1 4 6 6 6 6 6 8 8 ...
 $ huyen  : int  271 281 44 65 65 65 65 65 73 74 ...
 $ xa     : int  9658 10387 1372 2113 2131 2131 2131 2131 2347 2425 ...
 $ diaban : int  6 4 4 2 5 5 5 5 1 5 ...
 $ hoso   : int  15 14 13 13 13 13 13 13 14 14 ...
 $ m4b31ma: int  5 4 1 2 1 2 3 4 1 1 ...
 $ m4b31c3: num  12 2 1 2 2 1 2 2 3 1.5 ...
 $ m4b31c4: num  7500 23000 1000 731 1496 ...
 $ m4b31c5: num  90000 46000 1000 1462 2992 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 15:59"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 254 255 255
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 1
  ..$ m4b31ma: Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "Ploughing and soil preparation" "Irrigation" "Pest prevention
and control" "Rice threshing, semi-processing" ...
NULL


## 20 ####  Muc4B32  ##########
'data.frame':   162 obs. of  27 variables:
 $ tinh    : int  1 1 4 6 6 6 6 6 8 8 ...
 $ huyen   : int  271 281 44 65 65 65 65 65 73 74 ...
 $ xa      : int  9658 10387 1372 2113 2131 2131 2131 2131 2347 2425 ...
 $ diaban  : int  6 4 4 2 5 5 5 5 1 5 ...
 $ hoso    : int  15 14 13 13 13 13 13 13 14 14 ...
 $ m4b32ma : int  5 4 1 2 1 2 3 4 1 1 ...
 $ m4b32c7 : int  800 0 0 40 319 0 50 0 0 0 ...
 $ m4b32c8 : int  300 2000 150 48 150 80 46 239 0 0 ...
 $ m4b32c9a: int  350 0 0 0 0 0 0 13 0 0 ...
 $ m4b32c9b: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c9c: int  0 0 0 0 0 0 0 0 0 0 ...
```

```
 $ m4b32c9d: int  0 0 0 0 57 10 26 8 0 0 ...
 $ m4b32c9e: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c9f: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c9g: int  0 12000 360 0 0 0 0 0 338 1994 ...
 $ m4b32c9h: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c9i: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c9j: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c9k: int  0 0 0 0 0 0 0 32 0 0 ...
 $ m4b32c10: int  1200 5000 0 22 71 0 20 42 1000 499 ...
 $ m4b32c11: int  400 3000 100 0 18 0 5 14 105 499 ...
 $ m4b32c12: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c13: int  0 6000 0 0 0 0 0 0 0 0 ...
 $ m4b32c14: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c15: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b32c16: int  35000 0 0 31 13 6 24 37 0 0 ...
 $ m4b32c17: int  38050 28000 610 141 627 96 171 385 1443 2991 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "31 Oct 2013 11:01"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Tリnh" "Huyヨn" "Xキ" "ｱﾞa bオn" ...
 - attr(*, "version")= int 8
 - attr(*, "label.table")=List of 21
  ..$ M4B32C10: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C11: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C12: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C13: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C14: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C15: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C16: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32MA : Named int  0 1 2 3 4 5
  .. ..- attr(*, "names")= chr  "O" "Cオy x劦, lオm ヨハt" "Tュ劦 tiɪu nュ癨" "Phﾟng tr¥xf5 s
ゥu bヨnh" ...
  ..$ M4B32C7 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C8 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9A: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9B: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9C: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9D: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9E: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9F: Named int -2
```

```
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9G: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9H: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9I: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9J: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B32C9K: Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 21 ####  Muc4B41  ##########
'data.frame':   3386 obs. of  13 variables:
 $ tinh    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ huyen   : int  26 26 26 26 26 26 26 26 26 26 ...
 $ xa      : int  730 730 730 730 730 730 739 739 739 739 ...
 $ diaban  : int  6 6 6 6 6 6 5 5 5 5 ...
 $ hoso    : int  14 14 15 15 19 19 13 13 14 14 ...
 $ m4b41ma : int  11 14 11 14 11 14 11 14 11 14 ...
 $ m4b41c3a: int  3687 220 3240 220 2650 220 0 0 0 0 ...
 $ m4b41c3b: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b41c3c: int  0 0 0 0 0 0 0 438 0 438 ...
 $ m4b41c3d: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b41c3e: int  0 0 0 0 2000 0 2380 0 4250 0 ...
 $ m4b41c3f: int  3687 220 3240 220 4650 220 2380 438 4250 438 ...
 $ m4b41c4 : int  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "31 Oct 2013 11:01"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Tﾘnh" "Huyﾖn" "Xｷ" "ｧ a bｵn" ...
 - attr(*, "version")= int 8
 - attr(*, "label.table")=List of 6
  ..$ M4B41MA : Named int  0 1 2 3 4 5 6 7 8 9 ...
  .. ..- attr(*, "names")= chr  "0" "Trﾈu, s¥xeb" "Quｭ" "H虔" ...
  ..$ M4B41C3B: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B41C3C: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B41C3D: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B41C3E: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B41C3F: Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 22 ####  Muc4B42  ##########
'data.frame':   2095 obs. of  30 variables:
 $ tinh    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ huyen   : int  26 26 26 26 26 26 26 26 26 26 ...
```

```
$ xa      : int  730 730 730 730 730 730 739 739 739 739 ...
$ diaban  : int  6 6 6 6 6 6 5 5 5 5 ...
$ hoso    : int  14 14 15 15 19 19 13 13 14 14 ...
$ m4b42ma : int  1 2 1 2 1 2 1 2 1 2 ...
$ m4b42c1 : int  0 NA 0 NA 0 NA 0 NA 0 NA ...
$ m4b42c2 : int  0 NA 0 NA 0 NA 0 NA 0 NA ...
$ m4b42c3 : int  130 50 100 65 160 60 145 80 190 185 ...
$ m4b42c4a: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4b: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4c: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4d: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4e: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4f: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4g: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4h: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4i: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4j: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c4k: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c5 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c6 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c7 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c8 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c9 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c10: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c11: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c12: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c13: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4b42c14: int  130 50 100 65 160 60 145 80 190 185 ...
- attr(*, "datalabel")= chr ""
- attr(*, "time.stamp")= chr "31 Oct 2013 11:01"
- attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
- attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
- attr(*, "val.labels")= chr  "" "" "" "" ...
- attr(*, "var.labels")= chr  "TỊnh" "Huyện" "Xã" "ấp a bản" ...
- attr(*, "version")= int 8
- attr(*, "label.table")=List of 24
 ..$ M4B42C5 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C6 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C7 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C8 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C9 : Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C10: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C11: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C12: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42C13: Named int -2
 .. ..- attr(*, "names")= chr "KB"
 ..$ M4B42MA : Named int  0 1 2 3
 .. ..- attr(*, "names")= chr  "0" "Hải lưu nghiệp" "DV lưu nghiệp" "Sản bệt, thuỷn dụ
```

```
¥xecng chim th¥xf3"
  ..$ M4B42C1 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C2 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C3 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4A: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4B: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4C: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4D: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4E: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4F: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4G: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4H: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4I: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4J: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B42C4K: Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 23 ####  Muc4B51  ##########
'data.frame':   2420 obs. of  10 variables:
 $ tinh    : int  1 1 1 1 2 2 2 2 2 2 ...
 $ huyen   : int  271 281 281 281 27 30 30 30 30 30 ...
 $ xa      : int  9673 10387 10387 10408 817 925 955 955 955 970 ...
 $ diaban  : int  4 4 4 2 6 6 2 2 2 7 ...
 $ hoso    : int  14 14 15 15 14 14 13 14 15 13 ...
 $ m4b51ma : int  11 11 11 11 21 11 23 11 11 11 ...
 $ m4b51c3 : int  2000 1680 4200 450 12 60 NA 14 16 147 ...
 $ m4b51c4a: int  1800 1680 4150 420 12 40 NA 0 5 108 ...
 $ m4b51c4b: int  80754 42000 85091 13050 900 2200 359 NA 299 5385 ...
 $ m4b51c5 : int  89726 42000 86161 13950 900 3200 359 837 365 6941 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:03"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 3
  ..$ m4b51ma : Named int  11 12 13 14 21 22 23
  .. ..- attr(*, "names")= chr  "Fish" "Shrimp" "Shrimp and fish for breed" "Other
aquacultural products" ...
  ..$ M4B51C4B: Named int -1
```

```
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4B51C4A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 24 ####  Muc4B52  ##########
'data.frame':   1813 obs. of  30 variables:
 $ tinh    : int  1 1 1 1 1 2 2 2 2 2 ...
 $ huyen   : int  271 271 281 281 281 27 30 30 30 30 ...
 $ xa      : int  9673 9673 10387 10387 10408 817 925 955 955 955 ...
 $ diaban  : int  4 4 4 4 2 6 6 2 2 2 ...
 $ hoso    : int  14 14 14 15 15 14 14 13 14 15 ...
 $ m4b52ma : int  1 2 1 1 1 2 1 2 1 1 ...
 $ m4b52c6 : int  26918 0 12000 28988 4050 0 600 0 120 40 ...
 $ m4b52c7 : int  14954 0 10000 22120 4130 0 500 0 0 15 ...
 $ m4b52c8 : int  0 0 0 357 150 120 50 74 90 70 ...
 $ m4b52c9a: int  0 498 3000 1338 0 0 0 0 0 0 ...
 $ m4b52c9b: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9c: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9d: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9e: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9f: int  0 2991 0 0 0 0 0 0 0 0 ...
 $ m4b52c9g: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9h: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9i: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9j: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c9k: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c10: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c11: int  997 0 200 1338 0 30 0 0 130 0 ...
 $ m4b52c12: int  498 0 0 0 0 0 0 0 22 25 ...
 $ m4b52c13: int  0 0 0 2676 0 0 0 0 0 0 ...
 $ m4b52c14: int  0 798 0 714 0 0 0 0 0 0 ...
 $ m4b52c15: int  0 598 1000 892 0 0 0 0 0 0 ...
 $ m4b52c16: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c17: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b52c18: int  299 0 0 1784 450 0 50 0 0 0 ...
 $ m4b52c19: int  43667 4885 26200 60206 8780 150 1200 74 361 150 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:03"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 24
  ..$ m4b52ma : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Aquaculture production" "Aquaculture catch" "Aquaculture
services"
  ..$ M4B52C18: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C17: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C16: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C15: Named int -2
```

```
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C14: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C13: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C12: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C11: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C10: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9K: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9J: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9I: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9H: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9G: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9F: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9E: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9D: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9C: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9B: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C9A: Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C8 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C7 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
  ..$ M4B52C6 : Named int -2
  .. ..- attr(*, "names")= chr "KB"
NULL


## 25 ####  Muc4C1  ##########
'data.frame':   3705 obs. of  24 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  1 1 1 1 1 1 1 2 2 2 ...
 $ xa     : int  4 16 16 16 16 34 34 40 40 55 ...
 $ diaban : int  8 3 3 3 3 25 25 16 16 11 ...
 $ hoso   : int  19 13 13 14 15 13 13 13 13 13 ...
 $ m4c1ma : int  1 1 2 1 1 1 2 1 2 1 ...
 $ m4c1c2 : int  56 56 96 46 47 56 96 47 14 47 ...
 $ m4c1c3 : num  12 12 12 12 12 12 12 12 12 12 ...
 $ m4c1c4 : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m4c1c5 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4c1c6 : int  100 100 100 100 100 100 100 100 100 100 ...
 $ m4c1c7 : int  2 3 3 2 2 3 3 2 2 2 ...
```

```
 $ m4c1c8 : int  1 1 1 NA NA 1 1 NA 1 NA ...
 $ m4c1stt: int  1 1 2 1 1 1 2 1 2 1 ...
 $ m4c1c9 : int  23000 37611 9134 21494 16120 3988 2991 4298 13970 40836 ...
 $ m4c1c10: num  276000 451330 109609 257924 193445 ...
 $ m4c1c11: int  2 2 2 NA NA 2 2 NA 2 NA ...
 $ m4c1c12: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4c1c13: int  1 1 1 NA NA 2 2 NA 2 NA ...
 $ m4c1c14: int  500 12895 6448 NA NA NA NA NA NA NA ...
 $ m4c1c15: int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4c1c16: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m4c1c17: num  276500 464225 116056 257924 193445 ...
 $ m4c1c18: num  276500 464225 116056 257924 193445 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:03"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 254 251 252 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 11
  ..$ m4c1c15: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4c1c13: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4c1c11: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4c1c8 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4c1c7 : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes, by type of enterprise" "Yes, by type of individual
household business" "No"
  ..$ m4c1c4 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ M4C1C16: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C1C14: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C1C12: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C1C9 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C1C2 : Named int  35 68 84 85 99
  .. ..- attr(*, "names")= chr  "***Undefined Label" "***Undefined Label" "***Undefined Label"
"***Undefined Label" ...
NULL


## 26 ####  Muc4C2  ##########
'data.frame':   3705 obs. of  32 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  1 1 1 1 1 1 1 2 2 2 ...
 $ xa      : int  4 16 16 16 16 34 34 40 40 55 ...
 $ diaban  : int  8 3 3 3 3 25 25 16 16 11 ...
 $ hoso    : int  19 13 13 14 15 13 13 13 13 13 ...
 $ m4c2ma  : int  1 1 2 1 1 1 2 1 2 1 ...
 $ m4c2c19 : int  180000 322378 25790 0 0 11615 0 0 3224 0 ...
```

```
$ m4c2c20 : int  200 3869 645 537 1075 498 0 1096 1612 12896 ...
$ m4c2c21a: int  600 1290 6448 2579 2579 678 847 1504 1290 2579 ...
$ m4c2c21b: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21c: int  9000 11606 0 0 0 917 0 0 0 0 ...
$ m4c2c21d: int  0 0 0 3224 2579 0 0 0 2579 0 ...
$ m4c2c21e: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21f: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21g: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21h: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21i: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21j: int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c21k: int  100 0 0 3224 0 0 0 0 0 8597 ...
$ m4c2c22 : int  250 645 1934 645 645 399 0 0 0 774 ...
$ m4c2stt : int  1 1 2 1 1 1 2 1 2 1 ...
$ m4c2c23 : int  0 0 0 2149 1612 0 1994 0 537 0 ...
$ m4c2c24 : int  0 0 0 0 0 0 3141 0 0 0 ...
$ m4c2c25 : int  25000 0 0 25792 51585 0 0 0 8597 193433 ...
$ m4c2c26 : int  0 0 0 0 0 0 0 0 0 16119 ...
$ m4c2c27 : int  0 0 0 0 32241 0 0 0 0 154747 ...
$ m4c2c28 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c29 : int  750 0 0 3224 1075 0 0 1075 0 4943 ...
$ m4c2c30 : int  0 0 0 0 0 0 0 0 0 0 ...
$ m4c2c31 : int  0 0 0 2149 0 847 0 537 1290 537 ...
$ m4c2c32 : int  215900 339787 34817 43525 93391 14955 5982 4212 19128 394626 ...
$ m4c2c33 : int  215900 339787 34817 43525 93391 14955 5982 4212 19128 394626 ...
- attr(*, "datalabel")= chr ""
- attr(*, "time.stamp")= chr "10 Nov 2014 16:02"
- attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
- attr(*, "types")= int  251 252 253 252 251 251 253 253 253 253 ...
- attr(*, "val.labels")= chr  "" "" "" "" ...
- attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
- attr(*, "version")= int 12
- attr(*, "label.table")=List of 23
 ..$ M4C2C31 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C30 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C29 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C28 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C27 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C26 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C25 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C24 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C23 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C22 : Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C21K: Named int -1
 .. ..- attr(*, "names")= chr "NR"
 ..$ M4C2C21J: Named int -1
```

```
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21I: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21H: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21G: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21F: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21E: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21D: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21C: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C21A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C20 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M4C2C19 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 27 ####  Muc4D  ##########
'data.frame':   9399 obs. of  25 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa      : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban  : int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso    : int  13 15 19 13 15 19 13 14 15 13 ...
 $ m4dc2_01: int  0 118218 0 0 0 0 0 0 0 32239 ...
 $ m4dc2_02: int  0 118218 0 0 0 0 0 0 0 0 ...
 $ m4dc2_03: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_04: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_05: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_06: int  1994 21494 10000 4299 1612 4985 10746 10747 16120 10746 ...
 $ m4dc2_07: int  0 21494 10000 0 0 0 0 0 0 0 ...
 $ m4dc2_08: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_09: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_10: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_11: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_12: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_13: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_14: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_15: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_16: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_17: int  22930 6448 0 21496 15905 5982 0 0 32241 15475 ...
 $ m4dc2_18: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_19: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4dc2_20: int  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:02"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
```

```
 - attr(*, "types")= int  251 252 253 252 251 253 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
NULL


## 28 ####  Muc5A1  ##########
'data.frame':   146205 obs. of  11 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa     : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban : int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso   : int  13 13 13 13 13 13 13 13 13 13 ...
 $ m5a1ma : int  101 102 110 111 113 116 118 118 118 121 ...
 $ m5a1ma1: int  NA NA NA NA NA NA NA 1 2 NA ...
 $ m5a1c2a: num  6 1 5 0.5 4 NA 2 1 1 10 ...
 $ m5a1c2b: num  120 25 450 110 600 100 550 300 250 37 ...
 $ m5a1c3a: num  0 0 0 0 0 NA 0 0 0 0 ...
 $ m5a1c3b: num  NA NA NA NA NA 0 NA NA NA NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:02"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 252 251 254 255 254 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 6
  ..$ m5a1ma : Named int  101 102 110 111 112 113 114 115 116 118 ...
  .. ..- attr(*, "names")= chr  "Fragrant, specialty rice" "Sticky rice" "Pork" "Beef" ...
  ..$ M5A1MA1: Named int  1 2
  .. ..- attr(*, "names")= chr  "1" "2"
  ..$ M5A1C2A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A1C2B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A1C3A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A1C3B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 29 ####  Muc5A2  ##########
'data.frame':   279872 obs. of  15 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa     : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban : int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso   : int  13 13 13 13 13 13 13 13 13 13 ...
 $ m5a2ma : int  101 101 106 107 108 110 111 113 117 117 ...
 $ m5a2ma1: int  NA 2 NA NA NA NA NA NA NA 2 ...
 $ m5a2c2a: num  15 15 1 1 1 1.5 1 2 0.5 0.5 ...
 $ m5a2c2b: num  240 240 30 45 15 150 200 200 18 18 ...
 $ m5a2c3a: num  15 15 1 1 1 1.5 1 2 0.5 0.5 ...
 $ m5a2c3b: num  240 240 30 45 15 150 200 200 18 18 ...
```

```
 $ m5a2c4a: num  0 0 0 0 0 0 0 0 0 0 ...
 $ m5a2c4b: num  NA NA NA NA NA NA NA NA NA NA ...
 $ m5a2c5a: num  0 0 0 0 0 0 0 0 0 0 ...
 $ m5a2c5b: num  NA NA NA NA NA NA NA NA NA NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:02"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 252 251 254 255 254 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 8
  ..$ m5a2ma : Named int  101 102 103 104 105 106 107 108 109 110 ...
  .. ..- attr(*, "names")= chr  "Plain rice" "Sticky rice" "Maize" "Cassaca" ...
  ..$ M5A2MA1: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "1" "2" "3"
  ..$ M5A2C3A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A2C3B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A2C4A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A2C4B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A2C5A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5A2C5B: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 30 ####  Muc5B1  ##########
'data.frame':   111751 obs. of  10 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban: int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso  : int  13 13 13 13 13 13 13 13 13 13 ...
 $ m5b1ma: int  203 204 208 215 216 217 218 220 221 222 ...
 $ m5b1c2: int  150 500 150 60 30 100 50 25 30 90 ...
 $ m5b1c3: int  150 500 150 60 30 100 50 25 30 90 ...
 $ m5b1c4: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m5b1c5: int  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:02"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 252 253 253 253 253
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 4
  ..$ m5b1ma: Named int  201 202 203 204 205 206 207 208 209 210 ...
  .. ..- attr(*, "names")= chr  "Pocket money for children" "Coal" "Coal briquette"
"Petroleum" ...
  ..$ M5B1C3: Named int -1
  .. ..- attr(*, "names")= chr "NR"
```

```
  ..$ M5B1C4: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5B1C5: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 31 ####  Muc5B2  ##########
'data.frame':   116435 obs. of  8 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban: int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso  : int  13 13 13 13 13 13 13 13 15 15 ...
 $ m5b2ma: int  302 308 309 310 311 312 319 328 302 304 ...
 $ m5b2c2: int  600 1000 100 70 120 150 250 1200 3000 60 ...
 $ m5b2c3: int  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:03"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 252 253 253
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 2
  ..$ M5B2C2: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M5B2C3: Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 32 ####  Muc5B3  ##########
'data.frame':   9399 obs. of  14 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa      : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban  : int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso    : int  13 15 19 13 15 19 13 14 15 13 ...
 $ m5b3c2_1: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m5b3c2_2: int  120 150 350 100 100 100 200 100 150 700 ...
 $ m5b3c2_3: int  0 100 0 0 0 0 0 0 0 0 ...
 $ m5b3c2_4: int  0 0 0 0 0 0 0 220 300 0 ...
 $ m5b3c2_5: int  0 0 0 0 0 0 0 0 0 0 ...
 $ m5b3c2_6: int  0 500 0 3000 4500 1000 0 0 0 3000 ...
 $ m5b3c2_7: int  0 0 2000 2000 2000 0 3000 1000 1500 2000 ...
 $ m5b3c2_8: int  3000 6000 3500 3000 3500 3000 0 3000 4000 6000 ...
 $ m5b3c2_9: int  0 0 0 0 0 0 0 0 0 0 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 253 253 253 253 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
NULL
```

```
## 33 ####  Muc6  ##########
'data.frame':   9399 obs. of  42 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa     : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban : int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso   : int  13 15 19 13 15 19 13 14 15 13 ...
 $ m6ma_01: int  2 1 2 2 2 2 2 2 2 2 ...
 $ m6ma_02: int  7 2 7 3 3 7 7 3 3 7 ...
 $ m6ma_03: int  11 7 11 7 7 9 12 7 7 11 ...
 $ m6ma_04: int  12 11 12 11 11 11 14 11 9 12 ...
 $ m6ma_05: int  15 12 14 12 12 12 15 12 11 14 ...
 $ m6ma_06: int  22 14 15 14 15 14 17 14 12 15 ...
 $ m6ma_07: int  23 15 20 15 20 15 20 15 14 17 ...
 $ m6ma_08: int  25 17 21 17 22 17 22 20 15 20 ...
 $ m6ma_09: int  26 20 22 20 23 21 23 22 20 21 ...
 $ m6ma_10: int  27 21 23 22 24 22 24 23 21 22 ...
 $ m6ma_11: int  28 22 24 23 25 23 25 24 22 23 ...
 $ m6ma_12: int  30 23 25 24 26 24 26 25 23 24 ...
 $ m6ma_13: int  31 24 26 25 27 25 27 26 24 25 ...
 $ m6ma_14: int  32 25 27 26 31 26 28 27 25 26 ...
 $ m6ma_15: int  0 26 28 27 32 27 31 28 26 27 ...
 $ m6ma_16: int  NA 27 29 28 35 28 0 30 27 28 ...
 $ m6ma_17: int  NA 28 30 30 0 30 NA 31 28 30 ...
 $ m6ma_18: int  NA 30 31 31 NA 32 NA 32 30 31 ...
 $ m6ma_19: int  NA 31 32 32 NA 33 NA 34 31 32 ...
 $ m6ma_20: int  NA 32 33 33 NA 34 NA 35 32 34 ...
 $ m6ma_21: int  NA 33 34 34 NA 35 NA 0 33 35 ...
 $ m6ma_22: int  NA 34 35 35 NA 36 NA NA 34 0 ...
 $ m6ma_23: int  NA 35 0 0 NA 0 NA NA 35 NA ...
 $ m6ma_24: int  NA 0 NA NA NA NA NA NA 0 NA ...
 $ m6ma_25: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_26: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_27: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_28: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_29: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_30: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_31: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_32: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_33: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_34: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_35: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_36: int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6ma_37: int  NA NA NA NA NA NA NA NA NA NA ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
NULL
```

```
## 34 ####  Muc6B  ##########
'data.frame':   116235 obs. of  11 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 4 4 4 4 4 4 4 ...
 $ diaban: int  8 8 8 8 8 8 8 8 8 8 ...
 $ hoso  : int  13 13 13 13 13 13 13 13 13 13 ...
 $ m6c2  : int  2 7 11 12 15 22 23 25 26 27 ...
 $ m6c3  : int  2 1 1 2 1 1 1 3 1 1 ...
 $ m6c4t : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m6c4n : int  2009 2005 2008 2010 2008 2006 2009 2008 2009 2010 ...
 $ m6c5  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m6c6  : int  10000 200 150 2000 500 700 2000 300 750 500 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 252 251 252 253 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 4
  ..$ M6C3 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M6C4T: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M6C4N: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M6C6 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 35 ####  Muc7  ##########
'data.frame':   9399 obs. of  38 variables:
 $ tinh  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa    : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban: int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso  : int  13 15 19 13 15 19 13 14 15 13 ...
 $ m7c1  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c2  : int  50 70 100 170 160 26 70 54 130 180 ...
 $ m7c3  : int  2 2 2 2 2 2 1 2 2 2 ...
 $ m7c4a : int  2 1 1 1 1 1 1 1 1 1 ...
 $ m7c4b : int  2 1 1 1 1 1 1 1 1 1 ...
 $ m7c4c : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m7c4d : int  4 2 2 2 2 2 2 2 2 2 ...
 $ m7c5  : int  1 2 2 2 2 3 3 3 3 2 ...
 $ m7c6  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c7  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m7c8  : num  NA NA NA NA NA NA NA NA NA NA ...
 $ m7c9  : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m7c10 : num  1.0e+07 2.0e+07 2.5e+07 4.0e+06 6.0e+06 1.5e+06 2.5e+06 2.5e+06 4.0e+06
5.0e+06 ...
 $ m7c10a: int  9500000 18000000 23000000 3500000 5000000 1300000 NA 2200000 3500000
4500000 ...
 $ m7c11 : int  2 2 2 1 1 2 2 1 1 1 ...
```

```
 $ m7c12 : int  NA NA NA 1991 1998 NA NA 2002 2005 1992 ...
 $ m7c13 : num  NA NA NA 350000 300000 NA NA 250000 500000 350000 ...
 $ m7c14 : num  0 50000 80000 0 0 0 0 0 0 0 ...
 $ m7c15 : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m7c16 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m7c17 : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m7c18 : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c19a: int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c19b: int  2 2 2 2 2 2 2 2 1 2 ...
 $ m7c20 : int  1200 2400 2500 1440 1200 600 600 720 1200 1500 ...
 $ m7c21 : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c22 : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c23 : int  500 1500 1500 500 400 200 500 500 600 500 ...
 $ m7c23k: int  389 1168 1168 290 270 150 300 333 400 280 ...
 $ m7c24 : int  6500 18000 18500 7200 6600 3000 9600 6000 7000 5000 ...
 $ m7c25 : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m7c26 : int  108 180 150 108 144 72 144 144 180 180 ...
 $ m7c27 : num  7808 70580 101150 8748 7944 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 253 251 251 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 29
  ..$ m7c25 : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "Somebody else collects it" "Dumping into ponds, lakes,
rivers, streams" "Dumping in a nearby site" "Landfill burial" ...
  ..$ m7c22 : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "National-grid electricity" "battery lamp, resin torch" "gas,
oil, kerosene lamps" "others"
  ..$ m7c21 : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "spetic/semi-spetic tank" "suilabh" "double spetic tank"
"fishing bridge" ...
  ..$ m7c19b: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m7c19a: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m7c18 : Named int  1 2 3 4 5 6 7 8 9 10
  .. ..- attr(*, "names")= chr  "tap wate reaching the house" "Public tap water" "drilled
wells" "protected dug well" ...
  ..$ m7c16 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m7c15 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m7c11 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m7c7  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m7c6  : Named int  1 2 3 4 5 6 7
  .. ..- attr(*, "names")= chr  "Private house of the household" "Rented/borrowed from the
State" "Rented/borrowed from private individual" "House of Collective" ...
  ..$ m7c5  : Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Before 1975" "1975 to 1999" "from 2000"
  ..$ m7c4d : Named int  1 2 3 4 5
```

```
  .. ..- attr(*, "names")= chr  "Kind of villa" "self-contained permanent house" "not-self-
contained permanent house" "Semi-permanent house" ...
  ..$ m7c4c : Named int  1 2 3 4 5 6
  .. ..- attr(*, "names")= chr  "Reinforcement concrete" "Bricks/stones" "Wood/metal"
"Calcareous soil/straw" ...
  ..$ m7c4b : Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "Reinforcement concrete" "Tiles (cement, terracotta)" "Roof
slabs (cement, metal)" "Leave/straw/rolled roofing" ...
  ..$ m7c4a : Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "Reinforcement concrete" "Bricks/stones" "Iron/steel/good
wood" "Poor-quality wood/bamboo" ...
  ..$ M7C2  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C3  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Nhｵ chung cｰ" "Nhｵ riｴng"
  ..$ M7C8  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C9  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C10 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C10A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C13 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C14 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C20 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C23 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C23K: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C24 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M7C26 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 36 ####  Muc8  ##########
'data.frame':   9399 obs. of  64 variables:
 $ tinh    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa      : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban  : int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso    : int  13 15 19 13 15 19 13 14 15 13 ...
 $ m8c106  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c107  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c108  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c109  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c110  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c111  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c112  : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m8c1a   : int  NA NA NA NA NA NA NA NA NA NA ...
 $ m8c21_01: int  2 2 2 2 2 2 2 2 2 2 ...
```

```
$ m8c21_02: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_03: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_04: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_05: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_06: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_07: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_08: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_09: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_10: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_11: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_12: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_13: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_14: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_15: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c21_16: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_01: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_02: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_03: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_04: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_05: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_06: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_07: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_08: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_09: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_10: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_11: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_12: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_13: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_14: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_15: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c22_16: int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c2a   : int  NA NA NA NA NA NA NA NA NA NA ...
$ m8c2b   : int  NA NA NA NA NA NA NA NA NA NA ...
$ m8c2aa  : int  0 0 0 0 0 0 0 0 0 0 ...
$ m8c2ab  : int  0 0 0 0 0 0 0 0 0 0 ...
$ m8c2ac  : int  0 0 0 0 0 0 0 0 0 0 ...
$ m8c2ad  : int  0 0 0 0 0 0 0 0 0 0 ...
$ m8c2ae  : int  0 0 0 0 0 0 0 0 0 0 ...
$ m8c2af  : int  0 0 0 0 0 0 0 0 0 0 ...
$ m8c3    : int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c9    : int  1 2 2 2 2 2 2 2 2 2 ...
$ m8c10a  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m8c10b  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m8c10c  : int  NA NA NA NA NA NA NA NA NA NA ...
$ m8c11a  : int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c11b  : int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c12a  : int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c12b  : int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c12c  : int  2 2 2 2 2 2 2 2 2 2 ...
$ m8c13   : int  2 2 2 2 2 2 2 2 2 2 ...
- attr(*, "datalabel")= chr ""
- attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
- attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
- attr(*, "types")= int  251 252 253 252 251 251 251 251 251 251 ...
- attr(*, "val.labels")= chr  "" "" "" "" ...
- attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
```

```
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 57
  ..$ m8c13   : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "insufficient" "sufficient" "more than sufficient" "No
comment"
  ..$ m8c12c  : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "insufficient" "sufficient" "more than sufficient" "No
comment"
  ..$ m8c12b  : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "insufficient" "sufficient" "more than sufficient" "No
comment"
  ..$ m8c12a  : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "insufficient" "sufficient" "more than sufficient" "No
comment"
  ..$ m8c11b  : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "insufficient" "sufficient" "more than sufficient" "No
comment"
  ..$ m8c11a  : Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "insufficient" "sufficient" "more than sufficient" "No
comment"
  ..$ m8c10c  : Named int  1 2 3 4 5 6 7 8 9 10 ...
  .. ..- attr(*, "names")= chr  "Increased production costs in agriculture, forestry and
fisheries" "Low selling prices of agricultural, forestry and fisheries products" "Cattle and
poultry suffer from epidemics or death" "Droughts, floods, pests, and harvest loss affect
agricultural, forestry and fisheries production" ...
  ..$ m8c10b  : Named int  1 2 3 4 5 6 7 8 9 10 ...
  .. ..- attr(*, "names")= chr  "Increased production costs in agriculture, forestry and
fisheries" "Low selling prices of agricultural, forestry and fisheries products" "Cattle and
poultry suffer from epidemics or death" "Droughts, floods, pests, and harvest loss affect
agricultural, forestry and fisheries production" ...
  ..$ m8c10a  : Named int  1 2 3 4 5 6 7 8 9 10 ...
  .. ..- attr(*, "names")= chr  "Increased production costs in agriculture, forestry and
fisheries" "Low selling prices of agricultural, forestry and fisheries products" "Cattle and
poultry suffer from epidemics or death" "Droughts, floods, pests, and harvest loss affect
agricultural, forestry and fisheries production" ...
  ..$ m8c9    : Named int  1 2 3 4 5
  .. ..- attr(*, "names")= chr  "Yes, substantially" "Yes, slightly" "The same as before"
"Worsened" ...
  ..$ m8c3    : Named int  1 2
  .. ..- attr(*, "names")= chr  "yes" "no"
  ..$ m8c22_16: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_15: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_14: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_13: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_12: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_11: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_10: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
  ..$ m8c22_09: Named int  1 2 3
  .. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
```

```
..$ m8c22_08: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c22_07: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c22_06: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c22_04: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c22_03: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c22_02: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c22_01: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_16: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_15: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_14: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_13: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_12: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_11: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_10: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_09: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_08: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_07: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_06: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_04: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_03: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_02: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c21_01: Named int  1 2 3
.. ..- attr(*, "names")= chr  "Yes" "No" "Doesnt know"
..$ m8c112  : Named int  1 2
.. ..- attr(*, "names")= chr  "Yes" "No"
..$ m8c111  : Named int  1 2
.. ..- attr(*, "names")= chr  "Yes" "No"
..$ m8c110  : Named int  1 2
.. ..- attr(*, "names")= chr  "Yes" "No"
..$ m8c109  : Named int  1 2
.. ..- attr(*, "names")= chr  "Yes" "No"
..$ m8c108  : Named int  1 2
.. ..- attr(*, "names")= chr  "Yes" "No"
..$ m8c107  : Named int  1 2
.. ..- attr(*, "names")= chr  "Yes" "No"
```

```
  ..$ m8c1a   : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ M8C106  : Named int  1 2
  .. ..- attr(*, "names")= chr  "C¥xe3" "Khォng"
  ..$ M8C2A   : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2B   : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2AA  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2AB  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2AC  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2AD  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2AE  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C2AF  : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 37 ####  Muc82  ##########
'data.frame':   1175 obs. of  12 variables:
 $ tinh  : int  1 1 1 2 2 2 2 2 2 2 ...
 $ huyen : int  272 275 277 26 26 26 26 26 26 26 ...
 $ xa    : int  9748 9910 10090 730 730 730 730 739 760 760 ...
 $ diaban: int  10 3 7 6 6 6 6 5 7 7 ...
 $ hoso  : int  14 14 13 14 15 19 19 13 13 14 ...
 $ m8ma  : int  1 1 1 1 1 1 2 1 1 1 ...
 $ m8c4  : int  1 1 1 1 1 1 1 1 1 1 ...
 $ m8c5  : int  16000 20000 8000 8000 5000 6000 5000 5000 8000 13000 ...
 $ m8c6a : num  0.65 0.6 0.3 0.65 0 ...
 $ m8c6b : int  1 1 1 1 NA 1 NA 4 NA 1 ...
 $ m8c7  : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m8c8  : int  16312 20000 8000 8000 5000 6000 5000 5000 8000 13000 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 251 251 251 253 254 251 ...
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 6
  ..$ m8c6b: Named int  1 2 3 4
  .. ..- attr(*, "names")= chr  "Month" "Quarter" "6 months" "year"
  ..$ M8C4 : Named int  0 1 2 3 4 5
  .. ..- attr(*, "names")= chr  "NA" "Ngゥn hォng CSXH" "Qu¥xfc h¥xe7 tr¥xee viヨc lォm"
"Qu¥xfc giカm nghフo" ...
  ..$ M8C5 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C6A: Named int -1
  .. ..- attr(*, "names")= chr "NR"
  ..$ M8C7 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
```

```
  ..$ M8C8 : Named int -1
  .. ..- attr(*, "names")= chr "NR"
NULL


## 38 ####  ttchung  ##########
'data.frame':   9399 obs. of  126 variables:
 $ tinh      : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen     : int  1 1 1 1 1 1 1 1 1 1 ...
 $ xa        : int  4 4 4 7 7 7 16 16 16 22 ...
 $ diaban    : int  8 8 8 22 22 22 3 3 3 19 ...
 $ hoso      : int  13 15 19 13 15 19 13 14 15 13 ...
 $ tsphieu   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ ttnt      : int  1 1 1 1 1 1 1 1 1 1 ...
 $ dantoc    : int  1 1 1 1 1 1 1 1 1 1 ...
 $ phdich    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ dtv       : int  2 2 2 3 3 3 1 1 1 1 ...
 $ dt        : int  5 5 5 2 2 2 3 3 3 5 ...
 $ ngaydt    : int  28 28 28 24 26 27 22 28 30 7 ...
 $ thangdt   : int  9 9 9 12 12 12 3 3 3 6 ...
 $ namdt     : int  2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 ...
 $ tsnguoi   : int  3 5 5 3 4 2 4 4 5 6 ...
 $ ky        : int  3 3 3 4 4 4 1 1 1 2 ...
 $ m1b1      : int  2 1 2 1 2 2 2 2 2 2 ...
 $ tsmuc1b   : int  NA 1 NA 1 NA NA NA NA NA NA ...
 $ m2act     : num  0 1910 2685 5950 0 ...
 $ m2atn     : num  0 0 0 0 0 ...
 $ m2btn     : num  NA NA NA NA NA NA NA NA NA NA ...
 $ m3c1      : int  1 1 1 2 2 2 2 1 2 1 ...
 $ m3ct1     : int  300 3300 350 0 0 0 0 1000 0 1950 ...
 $ m3ct2     : int  0 0 0 0 0 0 0 0 0 4500 ...
 $ m3ct3     : int  0 0 246 265 1134 265 240 1360 1080 200 ...
 $ m3tn      : int  0 0 0 0 0 0 0 0 0 6448 ...
 $ m3ct      : num  24300 3800 2096 665 1384 ...
 $ m4atn1    : num  41873 232137 0 0 154752 ...
 $ m4atn2    : num  10967 55885 0 0 51584 ...
 $ m4atn3    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4atn4    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4atn5    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4atn6    : num  52640 0 42000 154768 29661 ...
 $ m4atn     : num  105480 288021 42000 154768 235997 ...
 $ m4b0c1    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4b0tn    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b1a     : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4b1b     : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4b11t    : int  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b12t    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b13t    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b14t    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b15t    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b1t     : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b1c     : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b21a    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4b21b    : int  2 2 2 2 2 2 2 2 2 2 ...
 $ m4b21t    : num  0 0 0 0 0 0 0 0 0 0 ...
 $ m4b21c    : num  0 0 0 0 0 0 0 0 0 0 ...
```

```
$ m4b22t    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b22c    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b31a    : int  2 2 2 2 2 2 2 2 2 2 ...
$ m4b31b    : int  2 2 2 2 2 2 2 2 2 2 ...
$ m4b3t     : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b3c     : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b41a    : int  2 2 2 2 2 2 2 2 2 2 ...
$ m4b41b    : int  2 2 2 2 2 2 2 2 2 2 ...
$ m4b4t     : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b4c     : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b5c1a   : int  2 2 2 2 2 2 2 2 2 2 ...
$ m4b5c1b   : int  2 2 2 2 2 2 2 2 2 2 ...
$ m4b5t     : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4b5c     : num  0 0 0 0 0 0 0 0 0 0 ...
$ m4c1      : int  2 2 1 2 2 2 1 1 1 2 ...
$ m4ctt     : num  0 0 276500 0 0 ...
$ m4ct      : num  0 0 276500 0 0 ...
$ m4cct     : num  0 0 215900 0 0 ...
$ m4cc      : num  0 0 215900 0 0 ...
$ m4dtn     : num  24924 146160 10000 25795 17517 ...
$ m5a1ct    : num  3513 4161 3650 5314 5323 ...
$ m5a1c4    : num  3513 4161 3650 5314 5323 ...
$ m5a1c5    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m5a2ct    : num  7029 12400 11877 5320 6355 ...
$ m5a2c6    : num  7029 12400 11877 5320 6355 ...
$ m5a2c7    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m5a2c8    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m5b1ct    : num  1335 1920 2410 2435 2735 ...
$ m5b1c6    : num  1335 1920 2410 2435 2735 ...
$ m5b1c7    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m5b1c8    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m5b2ct    : num  3490 21290 46000 18970 38000 ...
$ m5b2c4    : num  3490 21290 46000 18970 38000 ...
$ m5b2c5    : num  0 0 0 0 0 0 0 0 0 0 ...
$ m5b3ct    : num  3120 6750 5850 8100 10100 4100 3200 4320 5950 11700 ...
$ m6c7      : int  0 18000 0 0 0 0 35000 0 0 3000 ...
$ thunhap   : num  130404 434181 112600 180563 253515 ...
$ thubq     : num  3622 7236 1877 5016 5282 ...
$ tongthu_01: num  130404 434181 328500 180563 253515 ...
$ tongthu_02: num  0 0 0 0 0 ...
$ tongthu_03: num  0 0 0 0 0 ...
$ tongthu_04: num  105480 288021 42000 154768 235997 ...
$ tongthu_05: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_06: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_07: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_08: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_09: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_10: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_11: num  0 0 0 0 0 0 0 0 0 0 ...
$ tongthu_12: num  0 0 276500 0 0 ...
 [list output truncated]
- attr(*, "datalabel")= chr ""
- attr(*, "time.stamp")= chr "10 Nov 2014 16:04"
- attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
- attr(*, "types")= int  251 252 253 252 251 251 251 251 251 251 ...
- attr(*, "val.labels")= chr  "" "" "" "" ...
```

```
 - attr(*, "var.labels")= chr  "Province" "District" "Commune" "Enumerator area" ...
 - attr(*, "version")= int 12
 - attr(*, "label.table")=List of 18
  ..$ m1c1    : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4c1    : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b5c1b: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b5c1a: Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b41b : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b41a : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b31b : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b31a : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b21b : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b21a : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b1b  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b1a  : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m4b0c1 : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m3c1    : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ m1b1    : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ phdich : Named int  1 2
  .. ..- attr(*, "names")= chr  "Yes" "No"
  ..$ ttnt    : Named int  1 2
  .. ..- attr(*, "names")= chr  "Urban" "Rural"
  ..$ GHEPHO : Named int  0 1 9
  .. ..- attr(*, "names")= chr  "Khong dieu tra 2006" "Co dieu tra 2006, co tim thay" "Co dieu
tra 2006, khong tim thay"
NULL


## 39 ####  wt2012new1  ##########
'data.frame':   3133 obs. of  5 variables:
 $ tinh   : int  1 1 1 1 1 1 1 1 1 1 ...
 $ huyen : int  1 1 1 1 1 1 2 2 2 2 ...
 $ xa     : int  4 7 16 22 28 34 40 55 67 79 ...
 $ diaban: int  8 22 3 19 25 25 16 11 16 11 ...
 $ wt9    : num  2108 4417 4824 4570 3860 ...
 - attr(*, "datalabel")= chr ""
 - attr(*, "time.stamp")= chr "20 Jan 2014 09:57"
 - attr(*, "formats")= chr  "%8.0g" "%8.0g" "%12.0g" "%8.0g" ...
 - attr(*, "types")= int  251 252 253 252 254
 - attr(*, "val.labels")= chr  "" "" "" "" ...
 - attr(*, "var.labels")= chr  "Tﾘnh" "Huyｮn" "Xｷ" "ｱﾞa bｵn" ...
```

```
 - attr(*, "version")= int 8
NULL
```

5.2 Summary of each variable

```
> for(j in 1:39){
+ cat("##",j,"#### ",Rnames[j]," #########¥n")
+ print(summary(lss2012[[j]]))
+ cat("¥n¥n")
+ }


## 1 ####  hhexpe12  #########
      tinh           huyen            xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

   annualval1     foodnomnotobacco1 annualvalrice1  annualvalnorice1
 Min.   :   110   Min.   :   110    Min.   :    0   Min.   :   110
 1st Qu.: 20948   1st Qu.: 20312    1st Qu.: 3337   1st Qu.: 15849
 Median : 30999   Median : 30265    Median : 4869   Median : 25316
 Mean   : 36538   Mean   : 35772    Mean   : 5321   Mean   : 31216
 3rd Qu.: 46079   3rd Qu.: 45076    3rd Qu.: 6856   3rd Qu.: 40118
 Max.   :368530   Max.   :368510    Max.   :31581   Max.   :366006

 annualvalnoricenotobac1    foodnom2      foodnomnotobacco2 annualvalrice2
 Min.   :   110          Min.   :   110   Min.   :   110    Min.   :    0
 1st Qu.: 15370          1st Qu.: 20803   1st Qu.: 20204    1st Qu.: 3348
 Median : 24559          Median : 30809   Median : 30086    Median : 4883
 Mean   : 30451          Mean   : 36367   Mean   : 35600    Mean   : 5339
 3rd Qu.: 39113          3rd Qu.: 45858   3rd Qu.: 44810    3rd Qu.: 6879
 Max.   :365986          Max.   :369607   Max.   :369587    Max.   :31690

 annualvalnorice2 annualvalnoricenotobac2     nonfdx           nonfds
 Min.   :   110   Min.   :   110          Min.   :     0   Min.   :    0.0
 1st Qu.: 15687   1st Qu.: 15222          1st Qu.:  6436   1st Qu.:    0.0
 Median : 25158   Median : 24361          Median : 11635   Median :  180.0
 Mean   : 31028   Mean   : 30261          Mean   : 15470   Mean   :  895.9
 3rd Qu.: 39880   3rd Qu.: 38825          3rd Qu.: 19466   3rd Qu.: 1216.7
 Max.   :367075   Max.   :367055          Max.   :502482   Max.   :60000.0

    nonfdto          nonfdcompto        durbus_0         durbus_1
 Min.   :   249.7   Min.   :    60   Min.   :     0   Min.   :     0
 1st Qu.:  7517.3   1st Qu.:  6186   1st Qu.:  2140   1st Qu.:  1372
 Median : 12509.2   Median : 11198   Median :  4732   Median :  2995
 Mean   : 16365.5   Mean   : 14971   Mean   :  8637   Mean   :  5610
 3rd Qu.: 20240.8   3rd Qu.: 18777   3rd Qu.:  9424   3rd Qu.:  6017
 Max.   :502482.0   Max.   :501482   Max.   :469477   Max.   :317130

    durbus_2       durbus_2_2000     durbus_2_all       educex_2
 Min.   :     0   Min.   :     0   Min.   :     0   Min.   :     0
 1st Qu.:  2072   1st Qu.:  2297   1st Qu.:  2492   1st Qu.:     0
 Median :  4770   Median :  5104   Median :  5415   Median :   865
 Mean   :  9022   Mean   :  9432   Mean   :  9789   Mean   :  3937
```

```
3rd Qu.:  9895   3rd Qu.: 10371   3rd Qu.: 10883   3rd Qu.:   3770
Max.   :491130   Max.   :491130   Max.   :494396   Max.   :1000000

   educex_1           m3c13            m3c14            m3c15
Min.   :      0   Min.   :    0.0   Min.   :   0.00   Min.   :     0.0
1st Qu.:      0   1st Qu.:  100.0   1st Qu.:   0.00   1st Qu.:     0.0
Median :    849   Median :  250.0   Median :   0.00   Median :     0.0
Mean   :   3790   Mean   :  580.7   Mean   :  49.38   Mean   :   785.6
3rd Qu.:   3611   3rd Qu.:  500.0   3rd Qu.:  35.00   3rd Qu.:   300.0
Max.   :1000000   Max.   :37300.0   Max.   :4500.00   Max.   :200000.0

    m3ct3            hlthwel          hlthex_1         hlthex_2
Min.   :    0.0   Min.   :    0.0   Min.   :    0   Min.   :    0
1st Qu.:    0.0   1st Qu.:    0.0   1st Qu.:  300   1st Qu.:  445
Median :    0.0   Median :    0.0   Median :  860   Median : 1150
Mean   :  249.6   Mean   :  211.6   Mean   : 3323   Mean   : 3573
3rd Qu.:  405.0   3rd Qu.:    0.0   3rd Qu.: 2832   3rd Qu.: 3200
Max.   :10500.0   Max.   :35000.0   Max.   :207420   Max.   :207420

   hlthwlf          waterexp         elecexp         garbexp
Min.   :    0.0   Min.   :   0.0   Min.   :    0   Min.   :   0.00
1st Qu.:    0.0   1st Qu.:   0.0   1st Qu.:  600   1st Qu.:   0.00
Median :  125.0   Median :   0.0   Median : 1236   Median :   0.00
Mean   :  461.3   Mean   : 240.4   Mean   : 1754   Mean   :  52.56
3rd Qu.:  528.0   3rd Qu.: 330.0   3rd Qu.: 2300   3rd Qu.:  96.00
Max.   :35000.0   Max.   :7200.0   Max.   :36000   Max.   :2400.00

   urban12       rentexpquestion    reg8Paul          reg6
Min.   :0.0000   Min.   :    0   Min.   :1.000   Min.   :1.000
1st Qu.:0.0000   1st Qu.: 3900   1st Qu.:2.000   1st Qu.:2.000
Median :0.0000   Median : 6000   Median :5.000   Median :3.000
Mean   :0.2876   Mean   : 8591   Mean   :4.547   Mean   :3.315
3rd Qu.:1.0000   3rd Qu.: 9600   3rd Qu.:7.000   3rd Qu.:5.000
Max.   :1.0000   Max.   :54000   Max.   :8.000   Max.   :6.000
                 NA's   :9195
  rentexp2_1          ttnt           ethnic          monthint         yearint
Min.   :     0   Min.   :1.000   Min.   : 1.00   Min.   : 1.000   Min.   :2012
1st Qu.:  2880   1st Qu.:1.000   1st Qu.: 1.00   1st Qu.: 5.000   1st Qu.:2012
Median :  7200   Median :2.000   Median : 1.00   Median : 7.000   Median :2012
Mean   : 16690   Mean   :1.712   Mean   : 2.28   Mean   : 7.666   Mean   :2012
3rd Qu.: 17280   3rd Qu.:2.000   3rd Qu.: 1.00   3rd Qu.:10.000   3rd Qu.:2012
Max.   :725760   Max.   :2.000   Max.   :51.00   Max.   :12.000   Max.   :2012

    hhsize          majority           wt9            hhszwt          mcpir
Min.   : 1.0   Min.   :0.0000   Min.   :  344   Min.   :  464   Min.   :0.9943
1st Qu.: 3.0   1st Qu.:1.0000   1st Qu.: 1827   1st Qu.: 5638   1st Qu.:0.9961
Median : 4.0   Median :1.0000   Median : 2296   Median : 8484   Median :1.0000
Mean   : 3.9   Mean   :0.8305   Mean   : 2471   Mean   : 9498   Mean   :1.0007
3rd Qu.: 5.0   3rd Qu.:1.0000   3rd Qu.: 2868   3rd Qu.:11976   3rd Qu.:1.0031
Max.   :15.0   Max.   :1.0000   Max.   :21374   Max.   :85496   Max.   :1.0126

   mcpinrf          mcpinf          rcpif           rcpinf
Min.   :0.9943   Min.   :1.000   Min.   :0.9181   Min.   :0.9377
1st Qu.:0.9961   1st Qu.:1.025   1st Qu.:0.9467   1st Qu.:0.9541
Median :1.0000   Median :1.031   Median :0.9713   Median :0.9755
Mean   :1.0007   Mean   :1.039   Mean   :0.9960   Mean   :0.9950
```

```
3rd Qu.:1.0031   3rd Qu.:1.052   3rd Qu.:1.0180   3rd Qu.:1.0248
Max.   :1.0126   Max.   :1.059   Max.   :1.1605   Max.   :1.1607

    rcpifb          rcpinfb       pcfdxnomnotob1    pcfdxnom2
Min.   :0.8890   Min.   :0.8890   Min.   :   55   Min.   :   55
1st Qu.:0.8990   1st Qu.:0.8990   1st Qu.: 5764   1st Qu.: 5866
Median :0.9830   Median :0.9830   Median : 8268   Median : 8408
Mean   :0.9922   Mean   :0.9922   Mean   : 9705   Mean   : 9863
3rd Qu.:1.0030   3rd Qu.:1.0030   3rd Qu.:11831   3rd Qu.:12043
Max.   :1.2650   Max.   :1.2650   Max.   :92395   Max.   :92402

pcfdxnomnotob2    foodreal1          pcfdxrl1          foodreal2
Min.   :   55   Min.   :    94.4   Min.   :   47.18   Min.   :    89.7
1st Qu.: 5733   1st Qu.: 20772.9   1st Qu.: 5919.80   1st Qu.: 21269.3
Median : 8220   Median : 30600.1   Median : 8372.76   Median : 31389.2
Mean   : 9658   Mean   : 35569.7   Mean   : 9634.56   Mean   : 36386.9
3rd Qu.:11790   3rd Qu.: 44520.1   3rd Qu.:11795.02   3rd Qu.: 45529.9
Max.   :92397   Max.   :365589.9   Max.   :91397.48   Max.   :376003.3

   pcfdxrl2           test1           test2          nonfood1
Min.   :   44.84   Min.   :   110   Min.   :   110   Min.   :   168.8
1st Qu.: 6062.50   1st Qu.: 20948   1st Qu.: 20803   1st Qu.:  13101.6
Median : 8567.53   Median : 30999   Median : 30809   Median :  24548.4
Mean   : 9843.49   Mean   : 36538   Mean   : 36367   Mean   :  34526.1
3rd Qu.:12109.55   3rd Qu.: 46079   3rd Qu.: 45858   3rd Qu.:  42829.5
Max.   :94000.82   Max.   :368530   Max.   :369607   Max.   :1620197.2

   nonfood0           rentexp1          nonfood1rl         pcnonfood1rl
Min.   :   172.8   Min.   :    17.82   Min.   :   166.2   Min.   :   166.2
1st Qu.:  14249.0   1st Qu.:  1442.18   1st Qu.:  12904.8   1st Qu.:  3777.3
Median :  26774.9   Median :  2858.39   Median :  23959.6   Median :  6515.7
Mean   :  38044.7   Mean   :  4784.60   Mean   :  32786.4   Mean   :  8893.7
3rd Qu.:  46763.6   3rd Qu.:  5663.18   3rd Qu.:  40972.1   3rd Qu.: 10827.7
Max.   :1648577.8   Max.   :285603.16   Max.   :1501127.2   Max.   :500375.8

   rentexp0           nonfd0rl           hhex1nom          hhexp1rl
Min.   :    18.24   Min.   :    170.1   Min.   :   1952   Min.   :   1968
1st Qu.:  1567.86   1st Qu.:  14097.4   1st Qu.:  35330   1st Qu.:  35370
Median :  3126.39   Median :  26123.3   Median :  56206   Median :  55951
Mean   :  5276.60   Mean   :  36125.3   Mean   :  70298   Mean   :  68356
3rd Qu.:  6164.06   3rd Qu.:  44763.3   3rd Qu.:  88188   3rd Qu.:  86043
Max.   :290605.97   Max.   :1527422.0   Max.   :1780378   Max.   :1661735

   hhex0nom          hhexp0rl          pcex1nom         pcexp1rl
Min.   :   1958   Min.   :   1974   Min.   :  1693   Min.   :  1659
1st Qu.:  36658   1st Qu.:  36841   1st Qu.: 10075   1st Qu.: 10189
Median :  58415   Median :  58188   Median : 15489   Median : 15375
Mean   :  73817   Mean   :  71695   Mean   : 19088   Mean   : 18528
3rd Qu.:  92200   3rd Qu.:  89794   3rd Qu.: 23193   3rd Qu.: 22483
Max.   :1808758   Max.   :1688029   Max.   :593459   Max.   :553912

   pcex0nom         pcexp0rl        quint12nom      quint12rl
Min.   :  1755   Min.   :  1674   Min.   :1.000   Min.   :1.000
1st Qu.: 10412   1st Qu.: 10533   1st Qu.:2.000   1st Qu.:2.000
Median : 16060   Median : 15974   Median :3.000   Median :3.000
Mean   : 20038   Mean   : 19429   Mean   :3.002   Mean   :3.008
```

```
3rd Qu.: 24265   3rd Qu.: 23497   3rd Qu.:4.000   3rd Qu.:4.000
Max.   :602919   Max.   :562676   Max.   :5.000   Max.   :5.000

  nonfood2_1        nonfood2rl_1       pcnonfood2rl_1       hlthex_3
Min.   :    537.7   Min.   :    506.1   Min.   :   480.4   Min.   :     0
1st Qu.:  19142.6   1st Qu.:  19110.9   1st Qu.:  5522.6   1st Qu.:   443
Median :  34783.4   Median :  34648.4   Median :  9577.7   Median :  1140
Mean   :  51635.3   Mean   :  48524.0   Mean   : 13507.3   Mean   :  2567
3rd Qu.:  60548.2   3rd Qu.:  58423.3   3rd Qu.: 15974.2   3rd Qu.:  2960
Max.   :1552058.5   Max.   :1579605.8   Max.   :526535.2   Max.   :124000

 nonfood2_1ha       nonfood2rl_1ha      pcnonfood2rl_1ha     hhex2nom_1
Min.   :    537.7   Min.   :    506.1   Min.   :   435.5   Min.   :   3306
1st Qu.:  18515.9   1st Qu.:  18624.5   1st Qu.:  5364.4   1st Qu.:  42365
Median :  33940.0   Median :  33762.3   Median :  9308.3   Median :  67172
Mean   :  50629.1   Mean   :  47525.3   Mean   : 13190.9   Mean   :  88002
3rd Qu.:  59322.5   3rd Qu.:  57207.8   3rd Qu.: 15652.6   3rd Qu.: 107198
Max.   :1552058.5   Max.   :1579605.8   Max.   :526535.2   Max.   :1712367

 hhex2nom_1ha       hhexp2rl_1        hhexp2rl_1ha       pcex2nom_1
Min.   :   3306   Min.   :   3647   Min.   :   3647   Min.   :  2024
1st Qu.:  41794   1st Qu.:  42958   1st Qu.:  42311   1st Qu.: 11935
Median :  66252   Median :  68127   Median :  67015   Median : 18659
Mean   :  86996   Mean   :  84911   Mean   :  83912   Mean   : 24272
3rd Qu.: 105905   3rd Qu.: 104815   3rd Qu.: 103545   3rd Qu.: 28879
Max.   :1712367   Max.   :1752465   Max.   :1752465   Max.   :570789

 pcex2nom_1ha       pcexp2rl_1       pcexp2rl_1ha        test4
Min.   :  2024   Min.   :  2067   Min.   :  2067   Min.   :    506.1
1st Qu.: 11762   1st Qu.: 12291   1st Qu.: 12100   1st Qu.:  18228.1
Median : 18375   Median : 18795   Median : 18547   Median :  33084.0
Mean   : 23953   Mean   : 23351   Mean   : 23034   Mean   :  46877.0
3rd Qu.: 28437   3rd Qu.: 28078   3rd Qu.: 27682   3rd Qu.:  56271.7
Max.   :570789   Max.   :584155   Max.   :584155   Max.   :1579605.8

    test5              check5             check6        quint12bnom_1
Min.   :    537.7   Min.   :-28481.5   Min.   :-37661   Min.   :1.000
1st Qu.:  18146.8   1st Qu.:     0.0   1st Qu.:     0   1st Qu.:2.000
Median :  33319.3   Median :     0.0   Median :     0   Median :3.000
Mean   :  49962.1   Mean   :  -648.3   Mean   :  -667   Mean   :3.001
3rd Qu.:  58502.1   3rd Qu.:     0.0   3rd Qu.:     0   3rd Qu.:4.000
Max.   :1552058.5   Max.   :     0.0   Max.   :     0   Max.   :5.000

 dec12bnom_1    quint12bnom_1ha dec12bnom_1ha    quint12brl_1     dec12brl_1
Min.   : 1.0   Min.   :1.000   Min.   : 1.00   Min.   :1.000   Min.   : 1.000
1st Qu.: 3.0   1st Qu.:2.000   1st Qu.: 3.00   1st Qu.:2.000   1st Qu.: 3.000
Median : 6.0   Median :3.000   Median : 6.00   Median :3.000   Median : 6.000
Mean   : 5.5   Mean   :2.997   Mean   : 5.49   Mean   :3.014   Mean   : 5.528
3rd Qu.: 8.0   3rd Qu.:4.000   3rd Qu.: 8.00   3rd Qu.:4.000   3rd Qu.: 8.000
Max.   :10.0   Max.   :5.000   Max.   :10.00   Max.   :5.000   Max.   :10.000

quint12brl_1ha   dec12brl_1ha    quint12brl_1urb dec12brl_1urb
Min.   :1.000   Min.   : 1.000   Min.   :1.000   Min.   : 1.000
1st Qu.:2.000   1st Qu.: 3.000   1st Qu.:2.000   1st Qu.: 3.000
Median :3.000   Median : 6.000   Median :3.000   Median : 6.000
Mean   :3.009   Mean   : 5.516   Mean   :3.021   Mean   : 5.549
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3rd Qu.:4.000   3rd Qu.: 8.000   3rd Qu.:4.000   3rd Qu.: 8.000
Max.   :5.000   Max.   :10.000   Max.   :5.000   Max.   :10.000
                                 NA's   :6696    NA's   :6696
quint12brl_1haurb dec12brl_1haurb  quint12brl_1rur dec12brl_1rur
Min.   :1.000     Min.   : 1.000   Min.   :1.000   Min.   : 1.000
1st Qu.:2.000     1st Qu.: 3.000   1st Qu.:2.000   1st Qu.: 3.000
Median :3.000     Median : 6.000   Median :3.000   Median : 6.000
Mean   :3.018     Mean   : 5.539   Mean   :3.023   Mean   : 5.548
3rd Qu.:4.000     3rd Qu.: 8.000   3rd Qu.:4.000   3rd Qu.: 8.000
Max.   :5.000     Max.   :10.000   Max.   :5.000   Max.   :10.000
NA's   :6696      NA's   :6696     NA's   :2703    NA's   :2703
quint12brl_1harur dec12brl_1harur  fdshrex2nom_1     nonfdshrex2nom_1
Min.   :1.000     Min.   : 1.000   Min.   :0.01106   Min.   :0.01302
1st Qu.:2.000     1st Qu.: 3.000   1st Qu.:0.37723   1st Qu.:0.14132
Median :3.000     Median : 6.000   Median :0.47211   Median :0.18561
Mean   :3.016     Mean   : 5.535   Mean   :0.47062   Mean   :0.19284
3rd Qu.:4.000     3rd Qu.: 8.000   3rd Qu.:0.56683   3rd Qu.:0.23458
Max.   :5.000     Max.   :10.000   Max.   :0.90988   Max.   :0.75106
NA's   :2703      NA's   :2703
durbusshrex2nom_1 educshrex2nom_1   hlthshrex2nom_1    watershrex2nom_1
Min.   :0.00000   Min.   :0.00000   Min.   :0.000000   Min.   :0.000000
1st Qu.:0.03938   1st Qu.:0.00000   1st Qu.:0.006856   1st Qu.:0.000000
Median :0.06958   Median :0.01386   Median :0.016710   Median :0.000000
Mean   :0.08355   Mean   :0.03527   Mean   :0.041868   Mean   :0.002329
3rd Qu.:0.11153   3rd Qu.:0.04571   3rd Qu.:0.042857   3rd Qu.:0.003529
Max.   :0.72735   Max.   :0.79139   Max.   :0.850455   Max.   :0.062945

garbshrex2nom_1     elecshrex2nom_1   rentshrex2nom_1   checkshr2nom_1
Min.   :0.0000000   Min.   :0.00000   Min.   :0.00000   Min.   :1
1st Qu.:0.0000000   1st Qu.:0.01213   1st Qu.:0.06127   1st Qu.:1
Median :0.0000000   Median :0.01821   Median :0.11400   Median :1
Mean   :0.0005448   Mean   :0.02022   Mean   :0.15276   Mean   :1
3rd Qu.:0.0008392   3rd Qu.:0.02606   3rd Qu.:0.20550   3rd Qu.:1
Max.   :0.0362835   Max.   :0.13800   Max.   :0.94280   Max.   :1

 fdshrex2rl_1     nonfdshrex2rl_1   durbusshrex2rl_1  educshrex2rl_1
Min.   :0.01132   Min.   :0.01301   Min.   :0.00000   Min.   :0.00000
1st Qu.:0.38637   1st Qu.:0.13853   1st Qu.:0.03858   1st Qu.:0.00000
Median :0.48169   Median :0.18228   Median :0.06846   Median :0.01362
Mean   :0.47920   Mean   :0.18947   Mean   :0.08221   Mean   :0.03471
3rd Qu.:0.57571   3rd Qu.:0.23065   3rd Qu.:0.10957   3rd Qu.:0.04481
Max.   :0.91383   Max.   :0.74826   Max.   :0.72243   Max.   :0.78655

hlthshrex2rl_1     watershrex2rl_1    garbshrex2rl_1      elecshrex2rl_1
Min.   :0.000000   Min.   :0.000000   Min.   :0.0000000   Min.   :0.00000
1st Qu.:0.006756   1st Qu.:0.000000   1st Qu.:0.0000000   1st Qu.:0.01190
Median :0.016398   Median :0.000000   Median :0.0000000   Median :0.01789
Mean   :0.041222   Mean   :0.002290   Mean   :0.0005362   Mean   :0.01987
3rd Qu.:0.042157   3rd Qu.:0.003477   3rd Qu.:0.0008270   3rd Qu.:0.02565
Max.   :0.844849   Max.   :0.062276   Max.   :0.0357664   Max.   :0.13500

rentshrex2rl_1    checkshr2rl_1   nonfdto2rl       durbus_2rl
Min.   :0.00000   Min.   :1     Min.   :   235   Min.   :    0
1st Qu.:0.05983   1st Qu.:1     1st Qu.:  7420   1st Qu.:  2471
Median :0.11197   Median :1     Median : 12267   Median :  5317
Mean   :0.15050   Mean   :1     Mean   : 15640   Mean   :  9279
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3rd Qu.:0.20270   3rd Qu.:1      3rd Qu.: 19521   3rd Qu.: 10535
Max.   :0.94212   Max.   :1      Max.   :402786   Max.   :412479

durbus_2rl10yr      educex_2rl          hlthex_2rl         waterexp2rl
Min.   :     0   Min.   :      0.0   Min.   :     0.0   Min.   :   0.0
1st Qu.:  2036   1st Qu.:      0.0   1st Qu.:   430.4   1st Qu.:   0.0
Median :  4637   Median :    872.6   Median :  1131.7   Median :   0.0
Mean   :  8558   Mean   :   3733.7   Mean   :  3469.6   Mean   : 219.1
3rd Qu.:  9534   3rd Qu.:   3632.5   3rd Qu.:  3115.7   3rd Qu.: 318.6
Max.   :431263   Max.   :1017748.8   Max.   :213744.4   Max.   :5754.4

  garbexp2rl        elecexp2rl     rentexp2_1rl     pcnonfdto2rl
Min.   :   0.00   Min.   :    0   Min.   :     0   Min.   :  218.2
1st Qu.:   0.00   1st Qu.:  633   1st Qu.:  3065   1st Qu.: 2123.7
Median :   0.00   Median : 1234   Median :  7121   Median : 3287.5
Mean   :  47.61   Mean   : 1655   Mean   : 15232   Mean   : 4254.0
3rd Qu.:  90.84   3rd Qu.: 2195   3rd Qu.: 16176   3rd Qu.: 5125.2
Max.   :2567.18   Max.   :28772   Max.   :784880   Max.   :119971.8

 pcdurbus_2rl       pceducex_2rl       pchlthex_2rl     pcwaterexp2rl
Min.   :     0.0   Min.   :     0.0   Min.   :    0.0   Min.   :   0.00
1st Qu.:   575.8   1st Qu.:     0.0   1st Qu.:  125.1   1st Qu.:   0.00
Median :  1251.6   Median :   202.3   Median :  313.3   Median :   0.00
Mean   :  2302.7   Mean   :   913.8   Mean   : 1007.1   Mean   :  62.06
3rd Qu.:  2569.5   3rd Qu.:   877.9   3rd Qu.:  837.7   3rd Qu.:  89.19
Max.   :164420.0   Max.   :339249.6   Max.   :71248.1   Max.   :1774.28

 pcgarbexp2rl     pcelecexp2rl    pcrentexp2_1rl       pcfood2rl
Min.   :  0.00   Min.   :   0.0   Min.   :     0.0   Min.   :   44.84
1st Qu.:  0.00   1st Qu.: 182.4   1st Qu.:   845.3   1st Qu.: 6062.50
Median :  0.00   Median : 350.0   Median :  2037.1   Median : 8567.53
Mean   : 14.23   Mean   : 463.1   Mean   :  4490.2   Mean   : 9843.49
3rd Qu.: 23.40   3rd Qu.: 595.6   3rd Qu.:  4679.3   3rd Qu.:12109.55
Max.   :641.80   Max.   :8526.9   Max.   :392440.0   Max.   :94000.82

pcnonfdto2nom      pcdurbus_2nom      pceducex_2nom      pchlthex_2nom
Min.   :   202.8   Min.   :     0.0   Min.   :     0.0   Min.   :    0.0
1st Qu.:  2113.2   1st Qu.:   581.1   1st Qu.:     0.0   1st Qu.:  125.9
Median :  3345.7   Median :  1271.0   Median :   198.3   Median :  320.0
Mean   :  4466.0   Mean   :  2442.1   Mean   :   966.8   Mean   : 1039.1
3rd Qu.:  5337.2   3rd Qu.:  2685.5   3rd Qu.:   909.2   3rd Qu.:  852.1
Max.   :158639.8   Max.   :177025.0   Max.   :333333.3   Max.   :67093.3

pcwaterexp2nom    pcgarbexp2nom    pcelecexp2nom    pcrentexp2_1nom
Min.   :   0.00   Min.   :  0.00   Min.   :   0.0   Min.   :     0
1st Qu.:   0.00   1st Qu.:  0.00   1st Qu.: 180.0   1st Qu.:   864
Median :   0.00   Median :  0.00   Median : 360.0   Median :  2052
Mean   :  68.31   Mean   : 15.74   Mean   : 491.6   Mean   :  4919
3rd Qu.:  90.00   3rd Qu.: 24.00   3rd Qu.: 612.2   3rd Qu.:  4896
Max.   :2220.00   Max.   :800.00   Max.   :9600.0   Max.   :362880

  pcfood2nom      fdshrex1nom      nonfdshrex1nom     durbusshrex1nom
Min.   :   55   Min.   :0.02778   Min.   :0.004158   Min.   :0.00000
1st Qu.: 5866   1st Qu.:0.47338   1st Qu.:0.150899   1st Qu.:0.03163
Median : 8408   Median :0.55961   Median :0.197216   Median :0.05413
Mean   : 9863   Mean   :0.55814   Mean   :0.203998   Mean   :0.06580
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3rd Qu.:12043   3rd Qu.:0.64683   3rd Qu.:0.249086   3rd Qu.:0.08485
Max.   :92402   Max.   :0.95933   Max.   :0.701484   Max.   :0.72411

educshrex1nom     hlthshrex1nom     watershrex1nom     garbshrex1nom
Min.   :0.00000   Min.   :0.00000   Min.   :0.000000   Min.   :0.000000
1st Qu.:0.00000   1st Qu.:0.00566   1st Qu.:0.000000   1st Qu.:0.000000
Median :0.01623   Median :0.01614   Median :0.000000   Median :0.000000
Mean   :0.04041   Mean   :0.04585   Mean   :0.002979   Mean   :0.000723
3rd Qu.:0.05424   3rd Qu.:0.04754   3rd Qu.:0.004563   3rd Qu.:0.001103
Max.   :0.75833   Max.   :0.79190   Max.   :0.071081   Max.   :0.042915

elecshrex1nom     rentshrex1nom       checkshr1nom   fdshrex1rl
Min.   :0.00000   Min.   :0.004293   Min.   :1      Min.   :0.02843
1st Qu.:0.01451   1st Qu.:0.038666   1st Qu.:1      1st Qu.:0.48276
Median :0.02239   Median :0.050515   Median :1      Median :0.56869
Mean   :0.02533   Mean   :0.056767   Mean   :1      Mean   :0.56651
3rd Qu.:0.03255   3rd Qu.:0.070978   3rd Qu.:1      3rd Qu.:0.65545
Max.   :0.25763   Max.   :0.171379   Max.   :1      Max.   :0.96185

nonfdshrex1rl      durbusshrex1rl     educshrex1rl      hlthshrex1rl
Min.   :0.004141   Min.   :0.00000   Min.   :0.00000   Min.   :0.00000
1st Qu.:0.147709   1st Qu.:0.03097   1st Qu.:0.00000   1st Qu.:0.00555
Median :0.193170   Median :0.05310   Median :0.01580   Median :0.01580
Mean   :0.200017   Mean   :0.06455   Mean   :0.03969   Mean   :0.04503
3rd Qu.:0.244152   3rd Qu.:0.08298   3rd Qu.:0.05306   3rd Qu.:0.04656
Max.   :0.697690   Max.   :0.72153   Max.   :0.76066   Max.   :0.78853

watershrex1rl       garbshrex1rl        elecshrex1rl      rentshrex1rl
Min.   :0.000000   Min.   :0.0000000   Min.   :0.00000   Min.   :0.004027
1st Qu.:0.000000   1st Qu.:0.0000000   1st Qu.:0.01423   1st Qu.:0.037772
Median :0.000000   Median :0.0000000   Median :0.02192   Median :0.049416
Mean   :0.002920   Mean   :0.0007096   Mean   :0.02482   Mean   :0.055745
3rd Qu.:0.004477   3rd Qu.:0.0010860   3rd Qu.:0.03188   3rd Qu.:0.070012
Max.   :0.070216   Max.   :0.0427376   Max.   :0.25746   Max.   :0.171264

 checkshr1rl   nonfdto1rl          durbus_1rl        educex_1rl
Min.   :1     Min.   :    58.8   Min.   :     0   Min.   :     0.0
1st Qu.:1     1st Qu.:  6103.4   1st Qu.:  1354   1st Qu.:     0.0
Median :1     Median : 10885.4   Median :  2928   Median :   831.6
Mean   :1     Mean   : 14250.1   Mean   :  5329   Mean   :  3598.1
3rd Qu.:1     3rd Qu.: 17868.6   3rd Qu.:  5802   3rd Qu.:  3464.4
Max.   :1     Max.   :422875.3   Max.   :281404   Max.   :926508.9

  hlthex_1rl         waterexp1rl        garbexp1rl         elecexp1rl
Min.   :     0.0   Min.   :   0.0   Min.   :   0.00   Min.   :    0
1st Qu.:   290.5   1st Qu.:   0.0   1st Qu.:   0.00   1st Qu.:  614
Median :   839.3   Median :   0.0   Median :   0.00   Median : 1216
Mean   :  3198.3   Mean   : 220.1   Mean   :  48.49   Mean   : 1658
3rd Qu.:  2742.7   3rd Qu.: 305.2   3rd Qu.:  93.83   3rd Qu.: 2174
Max.   :200741.1   Max.   :6053.5   Max.   :2461.22   Max.   :30267

  rentexp1rl          pcnonfdto1rl        pcdurbus_1rl       pceducex_1rl
Min.   :    17.55   Min.   :    58.84   Min.   :     0.0   Min.   :     0.0
1st Qu.:  1437.15   1st Qu.:  1752.49   1st Qu.:   378.9   1st Qu.:     0.0
Median :  2796.52   Median :  2890.67   Median :   796.1   Median :   191.8
Mean   :  4484.27   Mean   :  3858.91   Mean   :  1455.9   Mean   :   879.5
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3rd Qu.:  5377.78   3rd Qu.:  4695.99   3rd Qu.:  1584.8   3rd Qu.:   836.0
Max.   :264613.88   Max.   :135690.22   Max.   :103736.1   Max.   :308836.3

 pchlthex_1rl      pcwaterexp1rl      pcgarbexp1rl     pcelecexp1rl
Min.   :    0.00   Min.   :   0.00   Min.   :  0.00   Min.   :   0.0
1st Qu.:   81.73   1st Qu.:   0.00   1st Qu.:  0.00   1st Qu.: 179.7
Median :  237.17   Median :   0.00   Median :  0.00   Median : 348.2
Mean   :  937.02   Mean   :  62.43   Mean   : 14.50   Mean   : 464.2
3rd Qu.:  739.56   3rd Qu.:  86.02   3rd Qu.: 24.01   3rd Qu.: 598.0
Max.   :65616.90   Max.   :1866.49   Max.   :650.69   Max.   :8071.3

 pcrentexp1rl       pcfood1rl        pcnonfdto1nom    pcdurbus_1nom
Min.   :   17.55   Min.   :   47.18   Min.   :    60   Min.   :     0.0
1st Qu.:  418.82   1st Qu.: 5919.80   1st Qu.:  1767   1st Qu.:   387.3
Median :  760.84   Median : 8372.76   Median :  2986   Median :   817.7
Mean   : 1221.22   Mean   : 9634.56   Mean   :  4063   Mean   :  1534.9
3rd Qu.: 1453.52   3rd Qu.:11795.02   3rd Qu.:  4922   3rd Qu.:  1650.3
Max.   :88204.62   Max.   :91397.48   Max.   :153977   Max.   :116174.4

pceducex_1nom      pchlthex_1nom      pcwaterexp1nom    pcgarbexp1nom
Min.   :     0.0   Min.   :    0.00   Min.   :   0.00   Min.   :  0.00
1st Qu.:     0.0   1st Qu.:   83.33   1st Qu.:   0.00   1st Qu.:  0.00
Median :   193.0   Median :  246.67   Median :   0.00   Median :  0.00
Mean   :   928.7   Mean   :  974.09   Mean   :  68.31   Mean   : 15.74
3rd Qu.:   867.2   3rd Qu.:  763.90   3rd Qu.:  90.00   3rd Qu.: 24.00
Max.   :333333.3   Max.   :66673.34   Max.   :2220.00   Max.   :800.00

pcelecexp1nom    pcrentexp1nom       pcfood1nom     foodrealspa1
Min.   :   0.0   Min.   :   17.82   Min.   :   55   Min.   :    94.8
1st Qu.: 180.0   1st Qu.:  418.76   1st Qu.: 5764   1st Qu.: 20778.7
Median : 360.0   Median :  773.01   Median : 8268   Median : 30635.0
Mean   : 491.6   Mean   : 1305.42   Mean   : 9705   Mean   : 35594.0
3rd Qu.: 612.2   3rd Qu.: 1536.32   3rd Qu.:11831   3rd Qu.: 44593.9
Max.   :9600.0   Max.   :95201.05   Max.   :92395   Max.   :365585.8

 pcfdxrlspa1       foodrealspa2       pcfdxrlspa2       nonfood1sparl
Min.   :   47.39   Min.   :    90.1   Min.   :   45.05   Min.   :    176.1
1st Qu.: 5921.29   1st Qu.: 21295.2   1st Qu.: 6064.59   1st Qu.:  13439.4
Median : 8377.46   Median : 31378.5   Median : 8566.77   Median :  24887.9
Mean   : 9641.09   Mean   : 36411.7   Mean   : 9850.17   Mean   :  34068.6
3rd Qu.:11805.50   3rd Qu.: 45613.7   3rd Qu.:12127.18   3rd Qu.:  42517.6
Max.   :91396.45   Max.   :375999.0   Max.   :93999.75   Max.   :1585966.2

 hhexp1sparl       pcexp1sparl     nonfood2sparl_1     hhexp2sparl_1
Min.   :   2006   Min.   :  1706   Min.   :    536.1   Min.   :   3719
1st Qu.:  35966   1st Qu.: 10367   1st Qu.:  19877.6   1st Qu.:  43708
Median :  56889   Median : 15635   Median :  35927.5   Median :  69456
Mean   :  69663   Mean   : 18883   Mean   :  50421.1   Mean   :  86833
3rd Qu.:  87544   3rd Qu.: 22881   3rd Qu.:  60720.8   3rd Qu.: 107254
Max.   :1746123   Max.   :582041   Max.   :1668880.1   Max.   :1841255

pcexp2sparl_1    pcnonfdto2sparl    pcdurbus_2sparl  pceducex_2sparl
Min.   :  2097   Min.   :   228.1   Min.   :     0   Min.   :     0.0
1st Qu.: 12520   1st Qu.:  2204.9   1st Qu.:   600   1st Qu.:     0.0
Median : 19171   Median :  3414.4   Median :  1299   Median :   209.4
Mean   : 23885   Mean   :  4419.5   Mean   :  2392   Mean   :   950.4
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3rd Qu.: 28753   3rd Qu.:  5324.9   3rd Qu.:  2680   3rd Qu.:   910.5
Max.   :613752   Max.   :125407.0   Max.   :171869   Max.   :358422.9

pchlthex_2sparl   pcwaterexp2sparl  pcgarbexp2sparl  pcelecexp2sparl
Min.   :    0.0   Min.   :   0.00   Min.   :  0.00   Min.   :   0.0
1st Qu.:  129.9   1st Qu.:   0.00   1st Qu.:  0.00   1st Qu.: 189.1
Median :  325.5   Median :   0.00   Median :  0.00   Median : 361.5
Mean   : 1046.7   Mean   :  64.53   Mean   : 14.79   Mean   : 481.4
3rd Qu.:  870.5   3rd Qu.:  91.65   3rd Qu.: 24.42   3rd Qu.: 614.3
Max.   :75470.6   Max.   :1818.18   Max.   :657.68   Max.   :9032.3

pcrentexp2_1sparl  pcfood2sparl      fdshrex2sparl_1   pcnonfdto1sparl
Min.   :     0     Min.   :   45.05   Min.   :0.01106   Min.   :    61.51
1st Qu.:   881     1st Qu.: 6064.59   1st Qu.:0.37723   1st Qu.:  1820.95
Median :  2136     Median : 8566.77   Median :0.47211   Median :  2999.45
Mean   :  4665     Mean   : 9850.17   Mean   :0.47062   Mean   :  4009.25
3rd Qu.:  4859     3rd Qu.:12127.18   3rd Qu.:0.56683   3rd Qu.:  4877.37
Max.   :403649     Max.   :93999.75   Max.   :0.90988   Max.   :141837.53

pcdurbus_1sparl    pceducex_1sparl    pchlthex_1sparl    pcwaterexp1sparl
Min.   :    0.0   Min.   :     0.0   Min.   :    0.00   Min.   :   0.00
1st Qu.:  392.7   1st Qu.:     0.0   1st Qu.:   85.31   1st Qu.:   0.00
Median :  824.5   Median :   198.5   Median :  246.04   Median :   0.00
Mean   : 1512.4   Mean   :   914.7   Mean   :  973.84   Mean   :  64.92
3rd Qu.: 1647.1   3rd Qu.:   871.6   3rd Qu.:  775.64   3rd Qu.:  89.87
Max.   :108435.8  Max.   :326290.8   Max.   :69505.61   Max.   :1912.67

pcgarbexp1sparl  pcelecexp1sparl  pcrentexp1sparl     pcfood1sparl
Min.   :  0.00   Min.   :   0.0   Min.   :   18.59   Min.   :   47.39
1st Qu.:  0.00   1st Qu.: 186.7   1st Qu.:  435.01   1st Qu.: 5921.29
Median :  0.00   Median : 360.9   Median :  790.21   Median : 8377.46
Mean   : 15.07   Mean   : 482.6   Mean   : 1269.13   Mean   : 9641.09
3rd Qu.: 24.60   3rd Qu.: 620.3   3rd Qu.: 1514.02   3rd Qu.:11805.50
Max.   :689.25   Max.   :8290.4   Max.   :93189.68   Max.   :91396.45

nonfood2sparl_1ha       check7           hhexp2sparl_1ha   pcexp2sparl_1ha
Min.   :    536.1   Min.   :-5.385e-02   Min.   :   3719   Min.   :  2097
1st Qu.:  19370.2   1st Qu.:-7.089e-04   1st Qu.:  43094   1st Qu.: 12332
Median :  35107.8   Median : 8.840e-06   Median :  68559   Median : 18937
Mean   :  49382.9   Mean   : 1.180e-05   Mean   :  85795   Mean   : 23556
3rd Qu.:  59578.2   3rd Qu.: 7.562e-04   3rd Qu.: 105796   3rd Qu.: 28270
Max.   :1668880.1   Max.   : 4.583e-02   Max.   :1841255   Max.   :613752

fdshrex2sparl_1ha  foodrealtem1       pcfdxrltem1        foodrealtem2
Min.   :0.01106   Min.   :   109.5   Min.   :   54.75   Min.   :   109.5
1st Qu.:0.38365   1st Qu.: 20316.2   1st Qu.: 5764.29   1st Qu.: 20815.1
Median :0.47783   Median : 30249.7   Median : 8259.06   Median : 30774.8
Mean   :0.47620   Mean   : 35748.0   Mean   : 9698.83   Mean   : 36342.5
3rd Qu.:0.57140   3rd Qu.: 44995.2   3rd Qu.:11822.38   3rd Qu.: 45736.4
Max.   :0.90988   Max.   :368513.8   Max.   :92320.42   Max.   :369611.2

 pcfdxrltem2       nonfood1temrl        hhexp1temrl       pcexp1temrl
Min.   :   54.75   Min.   :    159.4   Min.   :   1915   Min.   :  1673
1st Qu.: 5861.20   1st Qu.:  12615.8   1st Qu.:  34821   1st Qu.:  9911
Median : 8401.29   Median :  23623.7   Median :  55156   Median : 15222
Mean   : 9856.72   Mean   :  33226.3   Mean   :  68974   Mean   : 18727
```

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 3rd Qu.:12022.45   3rd Qu.:  41291.7   3rd Qu.:  86668   3rd Qu.: 22755
 Max.   :92402.80   Max.   :1533527.1   Max.   :1694158   Max.   :564719

 nonfood2temr|_1     hhexp2temr|_1     pcexp2temr|_1    pcnonfdto2temr|
 Min.   :   507.6   Min.   :   3242   Min.   :  1994   Min.   :   194
 1st Qu.:  18367.1   1st Qu.:  41593   1st Qu.: 11707   1st Qu.:  2040
 Median :  33507.0   Median :  65898   Median : 18268   Median :  3220
 Mean   :  49692.0   Mean   :  86035   Mean   : 23724   Mean   :  4299
 3rd Qu.:  58379.7   3rd Qu.: 104752   3rd Qu.: 28258   3rd Qu.:  5134
 Max.   :1469033.2   Max.   :1629793   Max.   :543264   Max.   :151764

 pcdurbus_2temr|    pceducex_2temr|    pch|thex_2temr|   pcwaterexp2temr|
 Min.   :     0.0   Min.   :     0.0   Min.   :    0.0   Min.   :   0.00
 1st Qu.:   560.7   1st Qu.:     0.0   1st Qu.:  122.0   1st Qu.:   0.00
 Median :  1220.2   Median :   190.9   Median :  308.9   Median :   0.00
 Mean   :  2350.7   Mean   :   929.6   Mean   :  999.7   Mean   :  65.69
 3rd Qu.:  2580.1   3rd Qu.:   877.3   3rd Qu.:  824.9   3rd Qu.:  87.50
 Max.   :169352.7   Max.   :315502.1   Max.   :63339.6   Max.   :2166.40

 pcgarbexp2temr|  pcelecexp2temr|  pcrentexp2_1temr|   pcfood2temr|
 Min.   :  0.00   Min.   :   0.0   Min.   :     0.0   Min.   :   54.75
 1st Qu.:  0.00   1st Qu.: 175.0   1st Qu.:   826.6   1st Qu.: 5861.20
 Median :  0.00   Median : 341.5   Median :  1973.2   Median : 8401.29
 Mean   : 15.15   Mean   : 472.9   Mean   :  4734.7   Mean   : 9856.72
 3rd Qu.: 23.42   3rd Qu.: 588.3   3rd Qu.:  4698.0   3rd Qu.:12022.45
 Max.   :755.24   Max.   :9368.2   Max.   :352803.5   Max.   :92402.80

 pcnonfdto1temr|    pcdurbus_1temr|    pceducex_1temr|    pch|thex_1temr|
 Min.   :    57.4   Min.   :     0.0   Min.   :     0.0   Min.   :    0.00
 1st Qu.:  1705.2   1st Qu.:   371.5   1st Qu.:     0.0   1st Qu.:   81.02
 Median :  2864.7   Median :   788.4   Median :   187.0   Median :  236.01
 Mean   :  3910.9   Mean   :  1477.5   Mean   :   893.0   Mean   :  937.28
 3rd Qu.:  4725.8   3rd Qu.:  1594.0   3rd Qu.:   834.4   3rd Qu.:  736.01
 Max.   :147303.9   Max.   :111139.4   Max.   :315502.1   Max.   :62943.09

 pcwaterexp1temr|  pcgarbexp1temr|  pcelecexp1temr|  pcrentexp1temr|
 Min.   :   0.00   Min.   :  0.00   Min.   :   0.0   Min.   :   16.82
 1st Qu.:   0.00   1st Qu.:  0.00   1st Qu.: 175.0   1st Qu.:  403.52
 Median :   0.00   Median :  0.00   Median : 341.5   Median :  744.05
 Mean   :  65.69   Mean   : 15.15   Mean   : 472.9   Mean   : 1256.12
 3rd Qu.:  87.50   3rd Qu.: 23.42   3rd Qu.: 588.3   3rd Qu.: 1478.76
 Max.   :2166.40   Max.   :755.24   Max.   :9368.2   Max.   :90108.41

  pcfood1temr|           ID                  wt            eaid
 Min.   :   54.75   Length:9399        Min.   :  344   Length:9399
 1st Qu.: 5764.29   Class :character   1st Qu.: 1827   Class :character
 Median : 8259.06   Mode  :character   Median : 2296   Mode  :character
 Mean   : 9698.83                      Mean   : 2471
 3rd Qu.:11822.38                      3rd Qu.: 2868
 Max.   :92320.42                      Max.   :21374



## 2 ####  muc1a  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
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 1st Qu.:26.00   1st Qu.:259.0   1st Qu.: 9265   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :495.0   Median :20290   Median :  8.00   Median :14.00
 Mean   :49.62   Mean   :500.3   Mean   :18196   Mean   : 10.86   Mean   :14.43
 3rd Qu.:77.00   3rd Qu.:748.0   3rd Qu.:26569   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

      matv            m1ac2           m1ac3           m1ac4a          m1ac4b
 Min.   : 1.000   Min.   :1.000   Min.   :1.000   Min.   :-2.000   Min.   :1910
 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.:1.000   1st Qu.: 3.000   1st Qu.:1964
 Median : 3.000   Median :2.000   Median :3.000   Median : 6.000   Median :1982
 Mean   : 2.764   Mean   :1.508   Mean   :2.605   Mean   : 6.181   Mean   :1979
 3rd Qu.: 4.000   3rd Qu.:2.000   3rd Qu.:3.000   3rd Qu.: 9.000   3rd Qu.:1997
 Max.   :15.000   Max.   :2.000   Max.   :9.000   Max.   :12.000   Max.   :2012

     m1ac5           m1ac6           m1ac7           m1ac8           m1ac9
 Min.   :  0.00   Min.   :1.000   Min.   : 0.00   Min.   :1.00    Min.   :1.000
 1st Qu.: 15.00   1st Qu.:1.000   1st Qu.:12.00   1st Qu.:1.00    1st Qu.:1.000
 Median : 30.00   Median :2.000   Median :12.00   Median :1.00    Median :1.000
 Mean   : 32.23   Mean   :1.825   Mean   :11.46   Mean   :2.47    Mean   :1.042
 3rd Qu.: 47.00   3rd Qu.:2.000   3rd Qu.:12.00   3rd Qu.:4.00    3rd Qu.:1.000
 Max.   :102.00   Max.   :5.000   Max.   :12.00   Max.   :6.00    Max.   :5.000
                  NA's   :7581                    NA's   :35051
    m1ac10          m1ac11n         m1ac11t           ID
 Min.   :-1.00   Min.   :-1.00   Min.   : 0.00   Length:36655
 1st Qu.:40.00   1st Qu.: 2.00   1st Qu.: 2.00   Class :character
 Median :72.00   Median : 4.00   Median : 3.00   Mode  :character
 Mean   :62.88   Mean   : 5.98   Mean   : 4.15
 3rd Qu.:89.00   3rd Qu.: 8.00   3rd Qu.: 6.00
 Max.   :96.00   Max.   :96.00   Max.   :11.00
 NA's   :36185   NA's   :36166   NA's   :36168
      wt              eaid              PID
 Min.   :  344   Length:36655       Length:36655
 1st Qu.: 1803   Class :character   Class :character
 Median : 2272   Mode  :character   Mode  :character
 Mean   : 2435
 3rd Qu.: 2810
 Max.   :21374



## 3 ####  muc1b  #########
      tinh            huyen             xa            diaban          hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:30.00   1st Qu.:294.0   1st Qu.:10825   1st Qu.:  4.00   1st Qu.:13.00
 Median :46.00   Median :474.0   Median :19780   Median :  8.00   Median :14.00
 Mean   :50.07   Mean   :504.9   Mean   :18472   Mean   : 10.17   Mean   :14.38
 3rd Qu.:75.00   3rd Qu.:736.0   3rd Qu.:26311   3rd Qu.: 14.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32233   Max.   :100.00   Max.   :24.00

     m1bma           m1bc3           m1bc4           m1bc5
 Min.   : 1.000   Min.   :1.000   Min.   :2.000   Min.   :1908
 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.:3.000   1st Qu.:1975
 Median : 2.000   Median :2.000   Median :3.000   Median :1982
 Mean   : 2.097   Mean   :1.543   Mean   :3.418   Mean   :1981
 3rd Qu.: 3.000   3rd Qu.:2.000   3rd Qu.:3.000   3rd Qu.:1987
 Max.   :12.000   Max.   :2.000   Max.   :9.000   Max.   :2012
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   m1bc6              m1bc7a           m1bc7b           m1bc8
Length:6325        Min.   :-1.000   Min.   :0.0000   Min.   :  -2
Class :character   1st Qu.: 1.000   1st Qu.:0.0000   1st Qu.:1987
Mode  :character   Median : 2.000   Median :0.0000   Median :1997
                   Mean   : 2.739   Mean   :0.6687   Mean   :1993
                   3rd Qu.: 3.000   3rd Qu.:0.0000   3rd Qu.:2005
                   Max.   :12.000   Max.   :7.0000   Max.   :9999
                   NA's   :342      NA's   :342      NA's   :342
    m1bc9          m1bc10          m1bc11        m1bc12am            m1bc12a
Min.   :  -1   Min.   :1.000   Min.   :1.000   Length:6325        Min.   : 1.0
1st Qu.:2000   1st Qu.:1.000   1st Qu.:1.000   Class :character   1st Qu.:63.0
Median :2006   Median :3.000   Median :1.000   Mode  :character   Median :92.0
Mean   :1998   Mean   :2.725   Mean   :1.429                      Mean   :77.5
3rd Qu.:2010   3rd Qu.:3.000   3rd Qu.:2.000                      3rd Qu.:92.0
Max.   :2012   Max.   :7.000   Max.   :3.000                      Max.   :96.0
NA's   :196    NA's   :196     NA's   :196                        NA's   :2017
  m1bc12bc           m1bc12bm           m1bc12b           m1bc13
Length:6325        Length:6325        Min.   :  2.00   Min.   :1.000
Class :character   Class :character   1st Qu.: 46.00   1st Qu.:1.000
Mode  :character   Mode  :character   Median :110.00   Median :2.000
                                      Mean   : 81.78   Mean   :2.036
                                      3rd Qu.:110.00   3rd Qu.:3.000
                                      Max.   :160.00   Max.   :4.000
                                      NA's   :2017     NA's   :196
    m1bc14          m1bc15          m1bc16        m1bc17am
Min.   :-1.00   Min.   :1.000   Min.   :1.000   Length:6325
1st Qu.:37.00   1st Qu.:1.000   1st Qu.:1.000   Class :character
Median :75.00   Median :1.000   Median :1.000   Mode  :character
Mean   :60.75   Mean   :1.287   Mean   :1.362
3rd Qu.:79.00   3rd Qu.:1.000   3rd Qu.:2.000
Max.   :99.00   Max.   :3.000   Max.   :2.000
NA's   :3983    NA's   :196     NA's   :1392
   m1bc17a          m1bc17bc           m1bc17bm           m1bc17b
Min.   : 1.00   Length:6325        Length:6325        Min.   :  2.00
1st Qu.:52.00   Class :character   Class :character   1st Qu.: 16.00
Median :75.00   Mode  :character   Mode  :character   Median : 45.00
Mean   :67.27                                         Mean   : 47.57
3rd Qu.:83.00                                         3rd Qu.: 67.25
Max.   :96.00                                         Max.   :160.00
NA's   :4539                                          NA's   :4539
    m1bc18          m1bc19          m1bc20          m1bc21          m1bc22
Min.   :1.000   Min.   :  -1   Min.   :1.000   Min.   : 1.00   Min.   :1.000
1st Qu.:1.000   1st Qu.:2002   1st Qu.:2.000   1st Qu.:22.50   1st Qu.:2.000
Median :1.000   Median :2007   Median :3.000   Median :74.00   Median :2.000
Mean   :1.639   Mean   :1999   Mean   :2.567   Mean   :54.15   Mean   :1.939
3rd Qu.:2.000   3rd Qu.:2010   3rd Qu.:3.000   3rd Qu.:79.00   3rd Qu.:2.000
Max.   :3.000   Max.   :2012   Max.   :4.000   Max.   :99.00   Max.   :2.000
NA's   :5690    NA's   :5981   NA's   :5981    NA's   :6111    NA's   :5981
  m1bc23am           m1bc23a          m1bc23bc           m1bc23bm
Length:6325        Min.   : 1.00   Length:6325        Length:6325
Class :character   1st Qu.:24.00   Class :character   Class :character
Mode  :character   Median :34.00   Mode  :character   Mode  :character
                   Mean   :42.66
                   3rd Qu.:71.00
                   Max.   :95.00
```

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                  NA's   :6002
   m1bc23b           m1bc24          m1bc25          m1bc26          m1bc27
Min.   :  2.00   Min.   :1.000   Min.   :1.000   Min.   :  -1   Min.   :1.00
1st Qu.: 36.00   1st Qu.:1.000   1st Qu.:1.000   1st Qu.:2000   1st Qu.:1.00
Median : 60.00   Median :1.000   Median :1.000   Median :2006   Median :2.00
Mean   : 58.18   Mean   :1.173   Mean   :1.103   Mean   :1997   Mean   :2.01
3rd Qu.: 84.00   3rd Qu.:1.000   3rd Qu.:1.000   3rd Qu.:2009   3rd Qu.:3.00
Max.   :140.00   Max.   :2.000   Max.   :2.000   Max.   :2012   Max.   :4.00
NA's   :6002     NA's   :6002    NA's   :578     NA's   :1173   NA's   :906
    m1bc28          m1bc29        m1bc30am          m1bc30a
Min.   :-1.00   Min.   :1.000   Length:6325        Min.   : 1.00
1st Qu.:38.00   1st Qu.:1.000   Class :character   1st Qu.:52.00
Median :75.00   Median :1.000   Mode  :character   Median :72.00
Mean   :60.86   Mean   :1.409                      Mean   :63.72
3rd Qu.:79.00   3rd Qu.:2.000                      3rd Qu.:81.00
Max.   :99.00   Max.   :2.000                      Max.   :96.00
NA's   :4312    NA's   :906                        NA's   :4111
  m1bc30bc          m1bc30bm           m1bc30b          m1bc31
Length:6325        Length:6325        Min.   :  2.00   Min.   :1.000
Class :character   Class :character   1st Qu.: 22.00   1st Qu.:1.000
Mode  :character   Mode  :character   Median : 47.00   Median :2.000
                                      Mean   : 49.75   Mean   :2.832
                                      3rd Qu.: 81.00   3rd Qu.:5.000
                                      Max.   :160.00   Max.   :6.000
                                      NA's   :4111     NA's   :4111
    m1bc32          m1bc33a          m1bc33b           m1bc34
Min.   :    -1   Min.   :    -1   Min.   : -1.0000   Min.   : -1.00
1st Qu.:     0   1st Qu.:     0   1st Qu.:  0.0000   1st Qu.:  3.00
Median :  1000   Median :     0   Median :  0.0000   Median : 15.00
Mean   :  4724   Mean   :  1287   Mean   :  0.8001   Mean   : 89.16
3rd Qu.:  3000   3rd Qu.:   300   3rd Qu.:  0.0000   3rd Qu.:124.00
Max.   :340000   Max.   :400000   Max.   :100.0000   Max.   :365.00
NA's   :196      NA's   :196      NA's   :196        NA's   :196
    m1bc35          m1bc36           m1bc37           m1bc38
Min.   :1.000   Min.   :    -1   Min.   :    -1   Min.   :1.00
1st Qu.:3.000   1st Qu.:  1000   1st Qu.:     0   1st Qu.:1.00
Median :3.000   Median :  4000   Median :  2000   Median :2.00
Mean   :2.923   Mean   : 10166   Mean   :  9402   Mean   :2.23
3rd Qu.:3.000   3rd Qu.: 10000   3rd Qu.: 10000   3rd Qu.:3.00
Max.   :9.000   Max.   :1500000  Max.   :1200000  Max.   :4.00
NA's   :196     NA's   :196      NA's   :196      NA's   :196
    m1bc39          m1bc40              ID                wt
Min.   :-1.00   Length:6325        Length:6325        Min.   :  375
1st Qu.:31.00   Class :character   Class :character   1st Qu.: 1952
Median :66.00   Mode  :character   Mode  :character   Median : 2346
Mean   :56.03                                         Mean   : 2447
3rd Qu.:79.00                                         3rd Qu.: 2830
Max.   :99.00                                         Max.   :21374
NA's   :5052
    eaid
Length:6325
Class :character
Mode  :character
```

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## 4 ####  muc1c  #########
      tinh          huyen             xa            diaban          hoso
 Min.   : 1.0   Min.   :  1.0   Min.   :    7   Min.   : 1.0   Min.   :13.00
 1st Qu.:25.0   1st Qu.:252.0   1st Qu.: 9043   1st Qu.: 4.0   1st Qu.:13.00
 Median :48.0   Median :492.0   Median :20236   Median : 8.0   Median :14.00
 Mean   :48.8   Mean   :492.7   Mean   :17953   Mean   :10.4   Mean   :14.17
 3rd Qu.:75.0   3rd Qu.:737.0   3rd Qu.:26311   3rd Qu.:14.0   3rd Qu.:15.00
 Max.   :96.0   Max.   :973.0   Max.   :32242   Max.   :91.0   Max.   :20.00

     m1cc3           m1cc4           m1cc5           m1cc6
 Min.   : 1.000   Min.   :1.000   Min.   :  0.00   Min.   :1.000
 1st Qu.: 2.000   1st Qu.:1.000   1st Qu.: 15.00   1st Qu.:1.000
 Median : 3.000   Median :2.000   Median : 28.00   Median :1.000
 Mean   : 2.818   Mean   :1.507   Mean   : 31.28   Mean   :1.086
 3rd Qu.: 4.000   3rd Qu.:2.000   3rd Qu.: 46.00   3rd Qu.:1.000
 Max.   :15.000   Max.   :2.000   Max.   :102.00   Max.   :2.000
 NA's   :24       NA's   :24      NA's   :24       NA's   :24
     m1cc7           m1cc8           m1cc9           m1cc10          m1cc11
 Min.   : 1.000   Min.   :1.000   Min.   :1.000   Min.   :-1.00   Min.   :-1.00
 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.:2.000   1st Qu.:36.00   1st Qu.:41.00
 Median : 2.000   Median :1.000   Median :3.000   Median :74.00   Median :71.00
 Mean   : 2.658   Mean   :1.248   Mean   :2.725   Mean   :58.65   Mean   :59.36
 3rd Qu.: 4.000   3rd Qu.:1.000   3rd Qu.:3.000   3rd Qu.:79.00   3rd Qu.:81.00
 Max.   :12.000   Max.   :3.000   Max.   :6.000   Max.   :99.00   Max.   :96.00
 NA's   :1472     NA's   :15328   NA's   :15588   NA's   :16523   NA's   :16523
      ghep            ID                wt            eaid
 Min.   :0.000   Length:16776       Min.   :  499   Length:16776
 1st Qu.:1.000   Class :character   1st Qu.: 1844   Class :character
 Median :1.000   Mode  :character   Median : 2304   Mode  :character
 Mean   :0.937                      Mean   : 2450
 3rd Qu.:1.000                      3rd Qu.: 2819
 Max.   :9.000                      Max.   :13597
 NA's   :24


## 5 ####  Muc2  #########
      tinh          huyen             xa            diaban          hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:259.0   1st Qu.: 9265   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :495.0   Median :20290   Median :  8.00   Median :14.00
 Mean   :49.62   Mean   :500.3   Mean   :18196   Mean   : 10.86   Mean   :14.43
 3rd Qu.:77.00   3rd Qu.:748.0   3rd Qu.:26569   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

      matv            m2c1              m2c2a           m2c2b
 Min.   : 1.000   Length:36655       Min.   : 0.000   Min.   :0.000
 1st Qu.: 1.000   Class :character   1st Qu.: 0.000   1st Qu.:0.000
 Median : 3.000   Mode  :character   Median : 1.000   Median :0.000
 Mean   : 2.764                      Mean   : 1.796   Mean   :0.402
 3rd Qu.: 4.000                      3rd Qu.: 2.000   3rd Qu.:0.000
 Max.   :15.000                      Max.   :12.000   Max.   :7.000
                                     NA's   :4176     NA's   :4176
      m2c3            m2c4             m2c5            m2c6
```

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Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    : 0.000
1st Qu.:1.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 1.000
Median :1.000   Median :3.000   Median :2.000   Median : 2.000
Mean   :1.035   Mean   :2.489   Mean   :1.986   Mean   : 2.676
3rd Qu.:1.000   3rd Qu.:3.000   3rd Qu.:2.000   3rd Qu.: 3.000
Max.    :5.000   Max.    :3.000   Max.    :2.000   Max.    :12.000
NA's   :4176    NA's   :4176    NA's   :13398   NA's   :27098
     m2c7            m2c8            m2c9           m2c10a          m2c10b
Min.    : 1.000   Min.    :1.00    Min.    :1.000   Min.    :0.00    Min.    :0.00
1st Qu.: 3.000   1st Qu.:1.00    1st Qu.:1.000   1st Qu.:5.00    1st Qu.:0.00
Median : 6.000   Median :1.00    Median :2.000   Median :7.00    Median :0.00
Mean   : 6.168   Mean   :1.08    Mean   :1.513   Mean   :5.51    Mean   :0.76
3rd Qu.: 9.000   3rd Qu.:1.00    3rd Qu.:2.000   3rd Qu.:7.00    3rd Qu.:1.00
Max.    :12.000   Max.    :9.00    Max.    :2.000   Max.    :9.00    Max.    :9.00
NA's   :29978   NA's   :27098   NA's   :27098   NA's   :31996   NA's   :31996
    m2c11a          m2c11b          m2c11c          m2c11d
Min.    :    -2   Min.    :  -2.000   Min.    :  -2.0   Min.    :  -2.0
1st Qu.:     0   1st Qu.:   0.000   1st Qu.:   0.0   1st Qu.:   0.0
Median :     0   Median :   0.000   Median :  50.0   Median :  50.0
Mean   :  1078   Mean   :   6.387   Mean   : 157.7   Mean   : 122.3
3rd Qu.:   600   3rd Qu.:   0.000   3rd Qu.: 200.0   3rd Qu.: 150.0
Max.    :250000   Max.    :4000.000   Max.    :7000.0   Max.    :5200.0
NA's   :27098   NA's   :27098   NA's   :27098   NA's   :27098
    m2c11e          m2c11f          m2c11g          m2c11h
Min.    :  -2.0   Min.    :   -2.0   Min.    :   -2.0   Min.    :   -2.0
1st Qu.:   0.0   1st Qu.:    0.0   1st Qu.:   70.0   1st Qu.:    0.0
Median : 140.0   Median :  160.0   Median :  150.0   Median :    0.0
Mean   : 180.4   Mean   :  232.2   Mean   :  199.5   Mean   :  420.5
3rd Qu.: 250.0   3rd Qu.:  300.0   3rd Qu.:  250.0   3rd Qu.:  300.0
Max.    :4286.0   Max.    :10000.0   Max.    :15000.0   Max.    :19000.0
NA's   :27098   NA's   :27098   NA's   :27098   NA's   :27098
    m2c11i          m2c11k          m2c12          m2c13
Min.    :   -2.0   Min.    :      0   Min.    :    0.0   Min.    :     0.0
1st Qu.:    0.0   1st Qu.:    680   1st Qu.:    0.0   1st Qu.:     0.0
Median :  100.0   Median :   1500   Median :    0.0   Median :     0.0
Mean   :  860.5   Mean   :   3724   Mean   :  158.1   Mean   :    98.7
3rd Qu.:  330.0   3rd Qu.:   3794   3rd Qu.:    0.0   3rd Qu.:     0.0
Max.    :100000.0   Max.    :1000000   Max.    :67323.0   Max.    :492614.0
NA's   :27098   NA's   :27098   NA's   :27098   NA's   :27098
    m2c14           m2c15a          m2c15b          m2c16
Min.    :    0.00   Min.    :1.00    Min.    :1.00    Min.    : 0.000
1st Qu.:    0.00   1st Qu.:1.00    1st Qu.:2.00    1st Qu.: 0.000
Median :    0.00   Median :1.00    Median :2.00    Median : 0.000
Mean   :   37.85   Mean   :1.31    Mean   :1.84    Mean   : 3.035
3rd Qu.:    0.00   3rd Qu.:2.00    3rd Qu.:2.00    3rd Qu.: 6.000
Max.    :48000.00   Max.    :2.00    Max.    :2.00    Max.    :10.000
                   NA's   :33860   NA's   :33860   NA's   :30511
     ID                  wt           eaid               PID
Length:36655       Min.    :  344   Length:36655       Length:36655
Class :character   1st Qu.: 1803   Class :character   Class :character
Mode  :character   Median : 2272   Mode  :character   Mode  :character
                   Mean   : 2435
                   3rd Qu.: 2810
                   Max.    :21374
```

```
## 6 ####  Muc3A  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:31.00   1st Qu.:311.0   1st Qu.:11506   1st Qu.:  5.00   1st Qu.:13.00
 Median :58.00   Median :582.0   Median :22759   Median :  9.00   Median :14.00
 Mean   :54.69   Mean   :548.9   Mean   :19866   Mean   : 11.38   Mean   :14.44
 3rd Qu.:82.00   3rd Qu.:815.0   3rd Qu.:28285   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :25.00

      matv            m3c2               m3c3a           m3c3b
 Min.   : 1.000   Length:18213       Min.   :1.000   Min.   : 1.000
 1st Qu.: 1.000   Class :character   1st Qu.:1.000   1st Qu.: 3.000
 Median : 2.000   Mode  :character   Median :1.000   Median : 5.000
 Mean   : 2.568                      Mean   :1.247   Mean   : 5.752
 3rd Qu.: 4.000                      3rd Qu.:1.000   3rd Qu.:10.000
 Max.   :12.000                      Max.   :6.000   Max.   :13.000

      m3c4           m3c5a            m3c5b              m3c6a
 Min.   :1.000   Min.   : 0.000   Min.   :     0.0   Min.   : 0.0000
 1st Qu.:3.000   1st Qu.: 1.000   1st Qu.:    50.0   1st Qu.: 0.0000
 Median :4.000   Median : 2.000   Median :   180.0   Median : 0.0000
 Mean   :3.559   Mean   : 2.495   Mean   :   737.4   Mean   : 0.2175
 3rd Qu.:4.000   3rd Qu.: 3.000   3rd Qu.:   500.0   3rd Qu.: 0.0000
 Max.   :4.000   Max.   :80.000   Max.   :125000.0   Max.   :24.0000
                                  NA's   :2091
     m3c6b            m3c7            m3c8             ID
 Min.   :     0   Min.   :1.000   Min.   :     0   Length:18213
 1st Qu.:   400   1st Qu.:1.000   1st Qu.:   200   Class :character
 Median :  1300   Median :1.000   Median :  1000   Mode  :character
 Mean   :  4370   Mean   :1.051   Mean   :  4704
 3rd Qu.:  4000   3rd Qu.:1.000   3rd Qu.:  4000
 Max.   :200000   Max.   :3.000   Max.   :180000
 NA's   :15196                    NA's   :17416
       wt             eaid              PID
 Min.   :  344   Length:18213       Length:18213
 1st Qu.: 1821   Class :character   Class :character
 Median : 2282   Mode  :character   Mode  :character
 Mean   : 2413
 3rd Qu.: 2779
 Max.   :21374



## 7 ####  Muc3B  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:259.0   1st Qu.: 9265   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :495.0   Median :20290   Median :  8.00   Median :14.00
 Mean   :49.62   Mean   :500.3   Mean   :18196   Mean   : 10.86   Mean   :14.43
 3rd Qu.:77.00   3rd Qu.:748.0   3rd Qu.:26569   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

      matv            m3c9           m3c10a          m3c10b
 Min.   : 1.000   Min.   :1.000   Min.   : 1.000   Min.   : 0.000
 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.: 2.000   1st Qu.: 0.000
```

```
 Median : 3.000   Median :1.000   Median : 5.000   Median : 0.000
 Mean   : 2.764   Mean   :1.343   Mean   : 5.253   Mean   : 0.091
 3rd Qu.: 4.000   3rd Qu.:2.000   3rd Qu.: 8.000   3rd Qu.: 0.000
 Max.   :15.000   Max.   :2.000   Max.   :10.000   Max.   :10.000
                                  NA's   :12584    NA's   :12584
    m3c11            m3c12a          m3c12b          m3c13
 Min.   :  -1.0   Min.   :1.000   Min.   :1.000   Min.   :    0.0
 1st Qu.: 180.0   1st Qu.:1.000   1st Qu.:2.000   1st Qu.:  100.0
 Median : 260.0   Median :2.000   Median :2.000   Median :  250.0
 Mean   : 282.6   Mean   :1.719   Mean   :1.921   Mean   :  580.4
 3rd Qu.: 448.0   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:  500.0
 Max.   :7200.0   Max.   :2.000   Max.   :2.000   Max.   :37300.0
 NA's   :28354    NA's   :12584   NA's   :12584   NA's   :27256
    m3c14            m3c15              ID                wt
 Min.   :   0.00   Min.   :     0.0   Length:36655       Min.   :  344
 1st Qu.:   0.00   1st Qu.:     0.0   Class :character   1st Qu.: 1803
 Median :   0.00   Median :     0.0   Mode  :character   Median : 2272
 Mean   :  49.38   Mean   :   788.2                      Mean   : 2435
 3rd Qu.:  35.00   3rd Qu.:   299.0                      3rd Qu.: 2810
 Max.   :4500.00   Max.   :214308.0                      Max.   :21374
 NA's   :27256     NA's   :27256
    eaid              PID
 Length:36655       Length:36655
 Class :character   Class :character
 Mode  :character   Mode  :character
```

```
## 8 ####  Muc4A  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:259.0   1st Qu.: 9265   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :495.0   Median :20290   Median :  8.00   Median :14.00
 Mean   :49.62   Mean   :500.3   Mean   :18196   Mean   : 10.86   Mean   :14.43
 3rd Qu.:77.00   3rd Qu.:748.0   3rd Qu.:26569   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

      matv           m4ac1a          m4ac1b          m4ac1c         m4ac2
 Min.   : 1.000   Min.   :1.000   Min.   :1.000   Min.   :1.00   Min.   :1.000
 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.:1.000   1st Qu.:2.00   1st Qu.:1.000
 Median : 3.000   Median :2.000   Median :2.000   Median :2.00   Median :1.000
 Mean   : 2.764   Mean   :1.704   Mean   :1.596   Mean   :1.86   Mean   :1.336
 3rd Qu.: 4.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.00   3rd Qu.:2.000
 Max.   :15.000   Max.   :2.000   Max.   :2.000   Max.   :2.00   Max.   :2.000
                  NA's   :3384    NA's   :3384    NA's   :3384   NA's   :3384
    m4ac3a          m4ac3m             m4ac3          m4ac4c
 Min.   :  1.0   Length:36655       Min.   : 1.00   Length:36655
 1st Qu.:160.0   Class :character   1st Qu.:61.00   Class :character
 Median :240.0   Mode  :character   Median :92.00   Mode  :character
 Mean   :223.1                      Mean   :74.95
 3rd Qu.:300.0                      3rd Qu.:92.00
 Max.   :365.0                      Max.   :96.00
 NA's   :14578                      NA's   :14578
```

```
   m4ac4m              m4ac4            m4ac5           m4ac6
Length:36655       Min.    :  2.00   Min.    :1.000   Min.    :-1.00
Class :character   1st Qu.: 41.00   1st Qu.:1.000   1st Qu.:17.00
Mode  :character   Median : 85.00   Median :1.000   Median :22.00
                   Mean    : 76.07   Mean    :1.066   Mean    :21.05
                   3rd Qu.:110.00   3rd Qu.:1.000   3rd Qu.:26.00
                   Max.    :170.00   Max.    :9.000   Max.    :30.00
                   NA's    :14578    NA's    :14578   NA's    :14578
    m4ac7            m4ac8a           m4ac8b           m4ac9           m4ac10
Min.    :-1.000   Min.    :1.000   Min.    :1.00    Min.    :1.000   Min.    :    0
1st Qu.: 5.000   1st Qu.:1.000   1st Qu.:1.00    1st Qu.:1.000   1st Qu.: 2000
Median : 8.000   Median :1.000   Median :1.00    Median :2.000   Median : 2991
Mean    : 6.778   Mean    :1.972   Mean    :1.27    Mean    :1.638   Mean    : 3358
3rd Qu.: 8.000   3rd Qu.:2.000   3rd Qu.:2.00    3rd Qu.:2.000   3rd Qu.: 4000
Max.    :24.000   Max.    :6.000   Max.    :2.00    Max.    :2.000   Max.    :54735
NA's    :14578    NA's    :14578   NA's    :34557   NA's    :14578   NA's    :28672
    m4ac11           m4ac12a          m4ac12b          m4ac13a
Min.    :   299   Min.    :     0   Min.    :    0   Min.    :1.000
1st Qu.: 18400   1st Qu.:     0   1st Qu.:    0   1st Qu.:1.000
Median : 31101   Median :   200   Median :    0   Median :2.000
Mean    : 36410   Mean    :  1683   Mean    : 2017   Mean    :1.526
3rd Qu.: 46005   3rd Qu.:  1496   3rd Qu.: 2393   3rd Qu.:2.000
Max.    :656815   Max.    :164204   Max.    :89529   Max.    :2.000
NA's    :28672    NA's    :28672    NA's    :28672   NA's    :28672
   m4ac13b          m4ac13c          m4ac14          m4ac15a
Min.    :1.00    Min.    :1.000   Min.    :1.000   Min.    :  1.0
1st Qu.:1.00    1st Qu.:1.000   1st Qu.:1.000   1st Qu.: 60.0
Median :2.00    Median :2.000   Median :2.000   Median : 90.0
Mean    :1.58    Mean    :1.605   Mean    :1.543   Mean    :113.4
3rd Qu.:2.00    3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:150.0
Max.    :2.00    Max.    :2.000   Max.    :2.000   Max.    :366.0
NA's    :28672   NA's    :28672   NA's    :14578   NA's    :26573
  m4ac15m             m4ac15         m4ac16c            m4ac16m
Length:36655       Min.    : 1.00   Length:36655       Length:36655
Class :character   1st Qu.:92.00   Class :character   Class :character
Mode  :character   Median :92.00   Mode  :character   Mode  :character
                   Mean    :84.83
                   3rd Qu.:92.00
                   Max.    :96.00
                   NA's    :26573
    m4ac16           m4ac17           m4ac18           m4ac19
Min.    :  2.00   Min.    :1.000   Min.    :-1.00   Min.    :-1.000
1st Qu.: 41.00   1st Qu.:1.000   1st Qu.: 8.00   1st Qu.: 3.000
Median :110.00   Median :1.000   Median :12.00   Median : 4.000
Mean    : 88.65   Mean    :1.175   Mean    :14.63   Mean    : 4.693
3rd Qu.:140.00   3rd Qu.:1.000   3rd Qu.:20.00   3rd Qu.: 7.000
Max.    :170.00   Max.    :2.000   Max.    :30.00   Max.    :13.000
NA's    :26573    NA's    :26573   NA's    :26573   NA's    :26573
    m4ac20           m4ac21           m4ac22           m4ac23
Min.    :1.000   Min.    :1.000   Min.    :    0.0   Min.    :    0
1st Qu.:1.000   1st Qu.:2.000   1st Qu.:  674.2   1st Qu.: 3792
Median :1.000   Median :2.000   Median : 1200.0   Median : 6980
Mean    :1.237   Mean    :1.824   Mean    : 1629.3   Mean    : 8683
3rd Qu.:1.000   3rd Qu.:2.000   3rd Qu.: 2250.0   3rd Qu.:11377
Max.    :6.000   Max.    :2.000   Max.    :36373.0   Max.    :95714
NA's    :26573   NA's    :26573   NA's    :34877     NA's    :34877
```

```
    m4ac24a            m4ac24b            m4ac25          m4ac26
 Min.    :    0.00   Min.    :    0.0   Min.    :1.000   Min.    :    0
 1st Qu.:    0.00   1st Qu.:    0.0   1st Qu.:2.000   1st Qu.: 1500
 Median :    0.00   Median :    0.0   Median :2.000   Median : 3000
 Mean   :   41.95   Mean   :  129.9   Mean   :1.923   Mean   : 4118
 3rd Qu.:    0.00   3rd Qu.:    0.0   3rd Qu.:2.000   3rd Qu.: 5500
 Max.    :15000.00   Max.    :10376.0   Max.    :2.000   Max.    :62724
 NA's    :34877      NA's    :34877     NA's    :26573   NA's    :35878
     m4ac27          m4ac28a            m4ac28b            m4ac28c
 Min.    :1.000   Min.    :    0.00   Min.    :     0.0   Min.    :     0
 1st Qu.:2.000   1st Qu.:    0.00   1st Qu.:     0.0   1st Qu.:     0
 Median :2.000   Median :    0.00   Median :     0.0   Median : 25200
 Mean   :1.958   Mean   :   39.25   Mean   :   226.9   Mean   : 24550
 3rd Qu.:2.000   3rd Qu.:    0.00   3rd Qu.:     0.0   3rd Qu.: 35885
 Max.    :2.000   Max.    :13458.00   Max.    :107676.0   Max.    :128876
 NA's    :8780    NA's    :35483     NA's    :35483     NA's    :35483
    m4ac28d         m4ac28e           ID                  wt
 Min.    :    0   Min.    :    0   Length:36655       Min.    :  344
 1st Qu.:    0   1st Qu.:    0   Class :character   1st Qu.: 1803
 Median :    0   Median :    0   Mode  :character   Median : 2272
 Mean   : 3472   Mean   : 1233                      Mean   : 2435
 3rd Qu.:    0   3rd Qu.:    0                      3rd Qu.: 2810
 Max.    :92133   Max.    :31665                     Max.    :21374
 NA's    :35483   NA's    :35483
     eaid               PID
 Length:36655       Length:36655
 Class :character   Class :character
 Mode  :character   Mode  :character
```

```
## 9 ####  Muc4A2  #########
      tinh            huyen             xa            diaban           hoso
 Min.    : 1.00   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:26.00   1st Qu.:259.0   1st Qu.: 9265   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :495.0   Median :20290   Median :  8.00   Median :14.00
 Mean   :49.62   Mean   :500.3   Mean   :18196   Mean   : 10.86   Mean   :14.43
 3rd Qu.:77.00   3rd Qu.:748.0   3rd Qu.:26569   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.    :96.00   Max.    :973.0   Max.    :32248   Max.    :101.00   Max.    :29.00

      matv            m4a2c1          m4a2c2          m4a2c3          m4a2c4
 Min.    : 1.000   Min.    :1.000   Min.    :  -1   Min.    :1.00   Min.    :-1.00
 1st Qu.: 1.000   1st Qu.:2.000   1st Qu.:2005   1st Qu.:3.00   1st Qu.:45.00
 Median : 3.000   Median :2.000   Median :2008   Median :3.00   Median :75.00
 Mean   : 2.764   Mean   :1.986   Mean   :2000   Mean   :2.95   Mean   :61.68
 3rd Qu.: 4.000   3rd Qu.:2.000   3rd Qu.:2010   3rd Qu.:3.00   3rd Qu.:79.00
 Max.    :15.000   Max.    :2.000   Max.    :2012   Max.    :4.00   Max.    :99.00
                                    NA's    :36126   NA's    :36126   NA's    :36198
     m4a2c5         m4a2c6am          m4a2c6a         m4a2c6bc
 Min.    :1.00    Length:36655       Min.    : 2.00   Length:36655
 1st Qu.:1.00    Class :character   1st Qu.:71.00   Class :character
 Median :3.00    Mode  :character   Median :75.00   Mode  :character
 Mean   :2.12                       Mean   :75.58
```

```
 3rd Qu.:3.00                       3rd Qu.:92.00
 Max.   :4.00                       Max.   :96.00
 NA's   :36126                      NA's   :36412
  m4a2c6bm           m4a2c6b          m4a2c7          m4a2c8
 Length:36655       Min.   :  2.00   Min.   : -1    Min.   :-1.00
 Class :character   1st Qu.: 16.00   1st Qu.:2009    1st Qu.: 1.00
 Mode  :character   Median : 41.00   Median :2011    Median : 1.00
                    Mean   : 47.16   Mean   :2882    Mean   : 2.03
                    3rd Qu.: 56.00   3rd Qu.:2012    3rd Qu.: 2.00
                    Max.   :160.00   Max.   :9999    Max.   :20.00
                    NA's   :36412    NA's   :36126   NA's   :36126
     ID                  wt             eaid              PID
 Length:36655       Min.   :  344   Length:36655       Length:36655
 Class :character   1st Qu.: 1803   Class :character   Class :character
 Mode  :character   Median : 2272   Mode  :character   Mode  :character
                    Mean   : 2435
                    3rd Qu.: 2810
                    Max.   :21374
```

```
## 10 ####  Muc4B0  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  3.0   Min.   :   91   Min.   : 1.000   Min.   :13.00
 1st Qu.:19.00   1st Qu.:183.0   1st Qu.: 6196   1st Qu.: 3.000   1st Qu.:13.00
 Median :37.00   Median :377.0   Median :14737   Median : 7.000   Median :14.00
 Mean   :41.46   Mean   :418.8   Mean   :15394   Mean   : 8.442   Mean   :14.32
 3rd Qu.:64.00   3rd Qu.:625.0   3rd Qu.:23647   3rd Qu.:11.000   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :72.000   Max.   :25.00
     m4b0ma         m4b0c3          m4b0c4          m4b0c5
 Min.   :1.00   Min.   :    10   Min.   :     0.0   Min.   :     0.0
 1st Qu.:1.00   1st Qu.:   500   1st Qu.:     0.0   1st Qu.:     0.0
 Median :2.00   Median :  1726   Median :     0.0   Median :     0.0
 Mean   :2.51   Mean   :  4965   Mean   :   276.3   Mean   :   244.9
 3rd Qu.:5.00   3rd Qu.:  4870   3rd Qu.:     0.0   3rd Qu.:     0.0
 Max.   :7.00   Max.   :700000   Max.   :149500.0   Max.   :122896.0
     ID                 wt            eaid
 Length:11331       Min.   :  344   Length:11331
 Class :character   1st Qu.: 1788   Class :character
 Mode  :character   Median : 2209   Mode  :character
                    Mean   : 2293
                    3rd Qu.: 2698
                    Max.   :21374
```

```
## 11 ####  Muc4B11  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   : 16.0   Min.   :  382   Min.   : 1.00   Min.   :13.0
 1st Qu.:20.00   1st Qu.:219.0   1st Qu.: 7534   1st Qu.: 4.00   1st Qu.:13.0
 Median :36.00   Median :361.0   Median :13921   Median : 7.00   Median :14.0
 Mean   :39.88   Mean   :407.7   Mean   :15067   Mean   : 8.48   Mean   :14.3
 3rd Qu.:52.00   3rd Qu.:550.0   3rd Qu.:21961   3rd Qu.:11.75   3rd Qu.:15.0
 Max.   :96.00   Max.   :968.0   Max.   :32116   Max.   :72.00   Max.   :25.0

    m4b11ma         m4b11c3         m4b11c4         m4b11c5
 Min.   :1.000   Min.   :   33   Min.   :   10   Min.   :  0.000
```

```
 1st Qu.:1.000   1st Qu.:  1000   1st Qu.:  420   1st Qu.:   0.000
 Median :2.000   Median :  1800   Median :  825   Median :   0.000
 Mean   :2.575   Mean   :  3333   Mean   : 1784   Mean   :   4.521
 3rd Qu.:3.000   3rd Qu.:  3000   3rd Qu.: 1550   3rd Qu.:   0.000
 Max.   :7.000   Max.   :104000   Max.   :75233   Max.   :1000.000

    m4b11c6         m4b11c7          m4b11c8           ID
 Min.   :    0   Min.   :    40   Min.   :   100   Length:9090
 1st Qu.:    0   1st Qu.:  2264   1st Qu.:  2791   Class :character
 Median :    0   Median :  4972   Median :  5247   Mode  :character
 Mean   : 1163   Mean   : 13924   Mean   : 10427
 3rd Qu.:  700   3rd Qu.: 12427   3rd Qu.:  9752
 Max.   :75233   Max.   :405034   Max.   :405034
                 NA's   :4854
       wt             eaid
 Min.   :  499   Length:9090
 1st Qu.: 1815   Class :character
 Median : 2256   Mode  :character
 Mean   : 2372
 3rd Qu.: 2841
 Max.   :21374



## 12 ####  Muc4B12  #########
      tinh           huyen            xa             diaban           hoso
 Min.   : 1.00   Min.   :  3   Min.   :   91   Min.   :  1.000   Min.   :13.00
 1st Qu.:12.00   1st Qu.:108   1st Qu.: 3513   1st Qu.:  3.000   1st Qu.:13.00
 Median :24.00   Median :230   Median : 8047   Median :  6.000   Median :14.00
 Mean   :28.12   Mean   :281   Mean   :10507   Mean   :  7.305   Mean   :14.29
 3rd Qu.:40.00   3rd Qu.:422   3rd Qu.:17251   3rd Qu.: 10.000   3rd Qu.:15.00
 Max.   :96.00   Max.   :973   Max.   :32248   Max.   :100.000   Max.   :24.00

    m4b12ma         m4b12c3           m4b12c4            m4b12c5
 Min.   : 8.00   Min.   :   -1.0   Min.   :     0.0   Min.   :     0.0
 1st Qu.:13.00   1st Qu.:   20.0   1st Qu.:    28.0   1st Qu.:     0.0
 Median :16.00   Median :   60.0   Median :    74.0   Median :     0.0
 Mean   :14.93   Mean   :  850.3   Mean   :   978.1   Mean   :   790.7
 3rd Qu.:19.00   3rd Qu.:  380.0   3rd Qu.:   380.0   3rd Qu.:    50.0
 Max.   :21.00   Max.   :92300.0   Max.   :176480.0   Max.   :176480.0
                                   NA's   :3338       NA's   :3343
    m4b12c6          m4b12c7            ID                 wt
 Min.   :     0   Min.   :     0   Length:11890       Min.   : 375
 1st Qu.:     0   1st Qu.:   121   Class :character   1st Qu.:1665
 Median :   200   Median :   300   Mode  :character   Median :2073
 Mean   :  4995   Mean   :  3114                      Mean   :2151
 3rd Qu.:  2190   3rd Qu.:  1224                      3rd Qu.:2632
 Max.   :657944   Max.   :657944                      Max.   :8026
 NA's   :6018
     eaid
 Length:11890
 Class :character
 Mode  :character
```

```
## 13 ####  Muc4B13  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   : 16.0   Min.   :  406   Min.   : 1.000   Min.   :13.00
 1st Qu.:24.00   1st Qu.:231.0   1st Qu.: 8119   1st Qu.: 4.000   1st Qu.:13.00
 Median :46.00   Median :476.0   Median :19831   Median : 7.000   Median :14.00
 Mean   :47.19   Mean   :474.6   Mean   :17546   Mean   : 8.795   Mean   :14.33
 3rd Qu.:68.00   3rd Qu.:678.0   3rd Qu.:24989   3rd Qu.:12.000   3rd Qu.:15.00
 Max.   :96.00   Max.   :972.0   Max.   :32227   Max.   :61.000   Max.   :20.00

    m4b13ma         m4b13c3a        m4b13c3b        m4b13c4
 Min.   :22.00   Min.   :    1   Min.   :1.000   Min.   :     1
 1st Qu.:23.00   1st Qu.:  160   1st Qu.:1.000   1st Qu.:    70
 Median :31.00   Median :  750   Median :1.000   Median :   260
 Mean   :29.11   Mean   : 3371   Mean   :1.193   Mean   :  3520
 3rd Qu.:34.00   3rd Qu.: 3000   3rd Qu.:1.000   3rd Qu.:  1300
 Max.   :38.00   Max.   :80000   Max.   :2.000   Max.   :350000
                                                 NA's   :59
    m4b13c5          m4b13c6          m4b13c7            ID
 Min.   :     0   Min.   :      0   Min.   :     15   Length:2649
 1st Qu.:     0   1st Qu.:   1348   1st Qu.:    900   Class :character
 Median :   150   Median :   5600   Median :   3350   Mode  :character
 Mean   :  3397   Mean   :  31319   Mean   :  25088
 3rd Qu.:  1015   3rd Qu.:  26445   3rd Qu.:  17100
 Max.   :350000   Max.   :1306845   Max.   :1306845
 NA's   :59       NA's   :674
      wt             eaid
 Min.   : 375   Length:2649
 1st Qu.:1778   Class :character
 Median :2207   Mode  :character
 Mean   :2263
 3rd Qu.:2641
 Max.   :7078



## 14 ####  Muc4B14  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.0   Min.   : 16.0   Min.   :  397   Min.   : 1.000   Min.   :13.00
 1st Qu.:19.0   1st Qu.:173.0   1st Qu.: 5920   1st Qu.: 4.000   1st Qu.:13.00
 Median :36.0   Median :366.0   Median :14296   Median : 7.000   Median :14.00
 Mean   :40.5   Mean   :406.1   Mean   :14937   Mean   : 8.419   Mean   :14.29
 3rd Qu.:62.0   3rd Qu.:617.0   3rd Qu.:23509   3rd Qu.:11.000   3rd Qu.:15.00
 Max.   :96.0   Max.   :973.0   Max.   :32248   Max.   :61.000   Max.   :25.00

    m4b14ma         m4b14c3a          m4b14c3b        m4b14c4
 Min.   :39.00   Min.   :    1.0   Min.   :1.000   Min.   :    1.0
 1st Qu.:41.00   1st Qu.:    2.0   1st Qu.:2.000   1st Qu.:   20.0
 Median :45.00   Median :    4.0   Median :2.000   Median :   50.0
 Mean   :44.89   Mean   :  249.6   Mean   :1.854   Mean   :  350.6
 3rd Qu.:49.00   3rd Qu.:   10.0   3rd Qu.:2.000   3rd Qu.:  120.0
 Max.   :54.00   Max.   :60000.0   Max.   :2.000   Max.   :85000.0
                                                   NA's   :777
    m4b14c5          m4b14c6          m4b14c7            ID
```

```
 Min.    :    0.0   Min.    :     0   Min.    :     5   Length:6203
 1st Qu.:    0.0   1st Qu.:   110   1st Qu.:   125   Class :character
 Median :    0.0   Median :   379   Median :   279   Mode  :character
 Mean   :  299.9   Mean   :  4966   Mean   :  2554
 3rd Qu.:   50.0   3rd Qu.:  1396   3rd Qu.:   700
 Max.   :85000.0   Max.   :382140   Max.   :382140
 NA's   :777       NA's   :3388
      wt           eaid
 Min.   : 375   Length:6203
 1st Qu.:1792   Class :character
 Median :2207   Mode  :character
 Mean   :2270
 3rd Qu.:2709
 Max.   :7078
```

```
## 15 ####  Muc4B15  #########
      tinh          huyen             xa            diaban           hoso
 Min.   : 1.0   Min.   : 16.0   Min.   :  382   Min.   : 1.000   Min.   :13.00
 1st Qu.:20.0   1st Qu.:201.2   1st Qu.: 6903   1st Qu.: 4.000   1st Qu.:13.00
 Median :38.0   Median :394.0   Median :15427   Median : 7.000   Median :14.00
 Mean   :41.1   Mean   :417.0   Mean   :15395   Mean   : 8.329   Mean   :14.32
 3rd Qu.:62.0   3rd Qu.:610.0   3rd Qu.:23365   3rd Qu.:11.000   3rd Qu.:15.00
 Max.   :96.0   Max.   :973.0   Max.   :32248   Max.   :61.000   Max.   :25.00

    m4b15ma          m4b15c2           m4b15c3          m4b15c4
 Min.   : 1.000   Min.   :    0.00   Min.   :    0.0   Min.   :    0.0
 1st Qu.: 1.000   1st Qu.:    0.00   1st Qu.:    0.0   1st Qu.:    0.0
 Median : 3.000   Median :    0.00   Median :    0.0   Median :  100.0
 Mean   : 4.041   Mean   :   81.68   Mean   :  105.4   Mean   :  261.2
 3rd Qu.: 8.000   3rd Qu.:    0.00   3rd Qu.:  100.0   3rd Qu.:  299.0
 Max.   :10.000   Max.   :24000.00   Max.   :10969.0   Max.   :83250.0
                                     NA's   :1156
    m4b15c5             ID                wt            eaid
 Min.   :    4.0   Length:6078        Min.   :  464   Length:6078
 1st Qu.:  100.0   Class :character   1st Qu.: 1792   Class :character
 Median :  205.0   Mode  :character   Median : 2270   Mode  :character
 Mean   :  428.2                      Mean   : 2304
 3rd Qu.:  450.0                      3rd Qu.: 2712
 Max.   :83250.0                      Max.   :21374
```

```
## 16 ####  Muc4B16  #########
      tinh          huyen             xa            diaban
 Min.   : 1.00   Min.   :  3.0   Min.   :   91   Min.   :  1.000
 1st Qu.:24.00   1st Qu.:238.0   1st Qu.: 8533   1st Qu.:  4.000
 Median :38.00   Median :403.0   Median :16249   Median :  7.000
 Mean   :43.58   Mean   :442.9   Mean   :16345   Mean   :  8.875
 3rd Qu.:66.00   3rd Qu.:644.0   3rd Qu.:24187   3rd Qu.: 12.000
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :100.000
      hoso          m4b16ma          m4b16c2a          m4b16c2b
 Min.   :13.00   Min.   :  1.00   Min.   :   -2.0   Min.   :   -2.0
 1st Qu.:13.00   1st Qu.:  3.00   1st Qu.:    0.0   1st Qu.:    0.0
 Median :14.00   Median :  7.00   Median :  165.5   Median :    0.0
```

```
 Mean   :14.34   Mean   : 14.33   Mean   :   968.4   Mean   :   287.3
 3rd Qu.:15.00   3rd Qu.: 13.00   3rd Qu.:   650.0   3rd Qu.:    80.0
 Max.   :25.00   Max.   :911.00   Max.   :126506.0   Max.   :219315.0
    m4b16c2c          m4b16c2d          m4b16c2e          m4b16c2e1
 Min.   :    -2.0   Min.   :   -2.00   Min.   :     3.0   Min.   :   0.000
 1st Qu.:     0.0   1st Qu.:    0.00   1st Qu.:   150.0   1st Qu.:   0.000
 Median :     0.0   Median :    0.00   Median :   430.5   Median :   0.000
 Mean   :   536.6   Mean   :   98.29   Mean   :  1890.6   Mean   :   4.907
 3rd Qu.:     0.0   3rd Qu.:    0.00   3rd Qu.:  1400.0   3rd Qu.:   0.000
 Max.   :408150.0   Max.   :90643.00   Max.   :412250.0   Max.   :5800.000
   m4b16c2e2            ID                  wt            eaid
 Min.   :   0.000   Length:46814       Min.   :  375   Length:46814
 1st Qu.:   0.000   Class :character   1st Qu.: 1828   Class :character
 Median :   0.000   Mode  :character   Median : 2294   Mode  :character
 Mean   :   0.462                      Mean   : 2381
 3rd Qu.:   0.000                      3rd Qu.: 2809
 Max.   :5600.000                      Max.   :21374


## 17 ####  Muc4B21  #########
      tinh           huyen            xa             diaban            hoso
 Min.   : 1.00   Min.   : 16   Min.   :  382   Min.   : 1.000   Min.   :13.0
 1st Qu.:15.00   1st Qu.:152   1st Qu.: 4945   1st Qu.: 3.000   1st Qu.:13.0
 Median :34.00   Median :344   Median :13231   Median : 7.000   Median :14.0
 Mean   :36.31   Mean   :366   Mean   :13609   Mean   : 8.066   Mean   :14.3
 3rd Qu.:51.00   3rd Qu.:527   3rd Qu.:21217   3rd Qu.:11.000   3rd Qu.:15.0
 Max.   :96.00   Max.   :973   Max.   :32248   Max.   :72.000   Max.   :25.0

    m4b21ma          m4b21c3            m4b21c4a            m4b21c4b
 Min.   : 1.000   Min.   :      0.0   Min.   :      0.0   Min.   :      0
 1st Qu.: 5.000   1st Qu.:     20.0   1st Qu.:      0.0   1st Qu.:     70
 Median : 6.000   Median :     46.0   Median :      9.0   Median :   1595
 Mean   : 8.353   Mean   :    773.1   Mean   :    725.2   Mean   :  11855
 3rd Qu.:12.000   3rd Qu.:    144.0   3rd Qu.:     70.0   3rd Qu.:   7536
 Max.   :19.000   Max.   :1646150.0   Max.   :1644750.0   Max.   :2636747
                  NA's   :2356        NA's   :2356        NA's   :3926
    m4b21c5             ID                  wt            eaid
 Min.   :      7   Length:11553       Min.   : 464   Length:11553
 1st Qu.:    478   Class :character   1st Qu.:1726   Class :character
 Median :   1560   Mode  :character   Median :2161   Mode  :character
 Mean   :   8997                      Mean   :2244
 3rd Qu.:   5000                      3rd Qu.:2682
 Max.   :2636747                      Max.   :7078


## 18 ####  Muc4B22  #########
      tinh           huyen             xa             diaban            hoso
 Min.   : 1.00   Min.   : 16.0   Min.   :  382   Min.   : 1.000   Min.   :13.00
 1st Qu.:17.00   1st Qu.:165.0   1st Qu.: 5512   1st Qu.: 3.000   1st Qu.:13.00
 Median :36.00   Median :360.0   Median :13885   Median : 7.000   Median :14.00
 Mean   :38.49   Mean   :387.9   Mean   :14343   Mean   : 8.248   Mean   :14.32
 3rd Qu.:52.00   3rd Qu.:550.0   3rd Qu.:21973   3rd Qu.:11.000   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :72.000   Max.   :25.00

    m4b22ma          m4b22c7          m4b22c8          m4b22c9
```

```
Min.    : 1.000   Min.    :     0   Min.    :      0   Min.    :   -2.0
1st Qu.: 1.000   1st Qu.:   100   1st Qu.:    399   1st Qu.:    0.0
Median : 5.000   Median :   259   Median :    997   Median :   30.0
Mean   : 4.174   Mean   :  2406   Mean   :   6426   Mean   :  195.2
3rd Qu.: 5.000   3rd Qu.:   960   3rd Qu.:   2792   3rd Qu.:  100.0
Max.   :11.000   Max.   :750198   Max.   :2614016   Max.   :57000.0
                 NA's   :116
  m4b22c10a          m4b22c10b          m4b22c10c          m4b22c10d
Min.    :     0.00   Min.    :    0.000   Min.    :   0.00   Min.    :    0.00
1st Qu.:     0.00   1st Qu.:    0.000   1st Qu.:   0.00   1st Qu.:    0.00
Median :     0.00   Median :    0.000   Median :   0.00   Median :    0.00
Mean   :    84.54   Mean   :    9.523   Mean   :  12.85   Mean   :   15.95
3rd Qu.:     0.00   3rd Qu.:    0.000   3rd Qu.:   0.00   3rd Qu.:    0.00
Max.   :155154.00   Max.   :28557.000   Max.   :5910.00   Max.   :11387.00

  m4b22c10e          m4b22c10f          m4b22c10g          m4b22c10h
Min.    :   0.0000   Min.    :   0.0000   Min.    :    0.000   Min.    :    0.00
1st Qu.:   0.0000   1st Qu.:   0.0000   1st Qu.:    0.000   1st Qu.:    0.00
Median :   0.0000   Median :   0.0000   Median :    0.000   Median :    0.00
Mean   :   0.2349   Mean   :   0.4299   Mean   :    8.187   Mean   :    5.18
3rd Qu.:   0.0000   3rd Qu.:   0.0000   3rd Qu.:    0.000   3rd Qu.:    0.00
Max.   :1000.0000   Max.   :2253.0000   Max.   :17148.000   Max.   :28800.00

  m4b22c10i          m4b22c10j          m4b22c10k          m4b22c11
Min.    :   0.000   Min.    :   0.00   Min.    :   0.000   Min.    :   0.000
1st Qu.:   0.000   1st Qu.:   0.00   1st Qu.:   0.000   1st Qu.:   0.000
Median :   0.000   Median :   0.00   Median :   0.000   Median :   0.000
Mean   :   1.976   Mean   :  79.81   Mean   :   8.424   Mean   :   6.676
3rd Qu.:   0.000   3rd Qu.:   0.00   3rd Qu.:   0.000   3rd Qu.:   0.000
Max.   :5384.000   Max.   :4784.00   Max.   :8302.000   Max.   :6978.000

   m4b22c12          m4b22c13          m4b22c14          m4b22c15
Min.    :    0.0   Min.    :   0.000   Min.    :    0.000   Min.    :    0.0
1st Qu.:    0.0   1st Qu.:   0.000   1st Qu.:    0.000   1st Qu.:    0.0
Median :    0.0   Median :   0.000   Median :    0.000   Median :    0.0
Mean   :  263.3   Mean   :   4.786   Mean   :    8.819   Mean   :   32.5
3rd Qu.:  115.0   3rd Qu.:   0.000   3rd Qu.:    0.000   3rd Qu.:    0.0
Max.   :64802.0   Max.   :8000.000   Max.   :12543.000   Max.   :47854.0

   m4b22c16          m4b22c17          m4b22c18          m4b22c19
Min.    :    0.00   Min.    :   0.0000   Min.    :   -2.0   Min.    :      6
1st Qu.:    0.00   1st Qu.:   0.0000   1st Qu.:    0.0   1st Qu.:    680
Median :    0.00   Median :   0.0000   Median :   40.0   Median :   1694
Mean   :   22.71   Mean   :   0.3531   Mean   :  108.6   Mean   :   9664
3rd Qu.:    0.00   3rd Qu.:   0.0000   3rd Qu.:  100.0   3rd Qu.:   4887
Max.   :27218.00   Max.   :1555.0000   Max.   :14955.0   Max.   :2705848

     ID                 wt           eaid
Length:7236        Min.   : 464   Length:7236
Class :character   1st Qu.:1749   Class :character
Mode  :character   Median :2177   Mode  :character
                   Mean   :2259
                   3rd Qu.:2695
                   Max.   :7078
```

```
## 19 ####  Muc4B31  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   : 44.0   Min.   : 1372   Min.   : 1.00   Min.   :13.00
 1st Qu.:30.00   1st Qu.:297.0   1st Qu.:11035   1st Qu.: 4.00   1st Qu.:13.00
 Median :43.00   Median :451.0   Median :18967   Median : 7.00   Median :14.00
 Mean   :46.92   Mean   :476.6   Mean   :17828   Mean   :10.01   Mean   :14.17
 3rd Qu.:65.50   3rd Qu.:647.2   3rd Qu.:24265   3rd Qu.:13.75   3rd Qu.:15.00
 Max.   :95.00   Max.   :959.0   Max.   :31951   Max.   :72.00   Max.   :20.00
    m4b31ma         m4b31c3          m4b31c4          m4b31c5
 Min.   :1.00   Min.   : 1.000   Min.   :   150   Min.   :    500
 1st Qu.:1.00   1st Qu.: 2.000   1st Qu.:  2617   1st Qu.:   5983
 Median :1.00   Median : 2.000   Median :  5000   Median :  12114
 Mean   :2.13   Mean   : 3.199   Mean   : 13117   Mean   :  37562
 3rd Qu.:4.00   3rd Qu.: 3.000   3rd Qu.: 10000   3rd Qu.:  27882
 Max.   :5.00   Max.   :12.000   Max.   :336516   Max.   :1009549
      ID                 wt          eaid
 Length:162         Min.   : 667   Length:162
 Class :character   1st Qu.:1792   Class :character
 Mode  :character   Median :2266   Mode  :character
                    Mean   :2323
                    3rd Qu.:2817
                    Max.   :4793


## 20 ####  Muc4B32  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   : 44.0   Min.   : 1372   Min.   : 1.00   Min.   :13.00
 1st Qu.:30.00   1st Qu.:297.0   1st Qu.:11035   1st Qu.: 4.00   1st Qu.:13.00
 Median :43.00   Median :451.0   Median :18967   Median : 7.00   Median :14.00
 Mean   :46.92   Mean   :476.6   Mean   :17828   Mean   :10.01   Mean   :14.17
 3rd Qu.:65.50   3rd Qu.:647.2   3rd Qu.:24265   3rd Qu.:13.75   3rd Qu.:15.00
 Max.   :95.00   Max.   :959.0   Max.   :31951   Max.   :72.00   Max.   :20.00
    m4b32ma         m4b32c7          m4b32c8          m4b32c9a         m4b32c9b
 Min.   :1.000   Min.   :    0   Min.   :    0.0   Min.   :   0.00   Min.   :0
 1st Qu.:1.000   1st Qu.:    0   1st Qu.:   20.0   1st Qu.:   0.00   1st Qu.:0
 Median :1.000   Median :    0   Median :  112.0   Median :   0.00   Median :0
 Mean   :2.111   Mean   :  313   Mean   :  517.5   Mean   :  20.37   Mean   :0
 3rd Qu.:4.000   3rd Qu.:    0   3rd Qu.:  275.0   3rd Qu.:   0.00   3rd Qu.:0
 Max.   :5.000   Max.   :25641   Max.   :41883.0   Max.   :2600.00   Max.   :0
    m4b32c9c         m4b32c9d         m4b32c9e         m4b32c9f
 Min.   : 0.000   Min.   :   0.0   Min.   : 0.000   Min.   :    0.0
 1st Qu.: 0.000   1st Qu.:   0.0   1st Qu.: 0.000   1st Qu.:    0.0
 Median : 0.000   Median :   0.0   Median : 0.000   Median :    0.0
 Mean   : 1.852   Mean   : 327.9   Mean   : 5.556   Mean   :  759.7
 3rd Qu.: 0.000   3rd Qu.:   0.0   3rd Qu.: 0.000   3rd Qu.:    0.0
 Max.   :300.000   Max.   :9173.0   Max.   :900.000   Max.   :65543.0
    m4b32c9g         m4b32c9h         m4b32c9i          m4b32c9j
 Min.   :     0   Min.   :   0.00   Min.   : 0.0000   Min.   : 0.000
 1st Qu.:     0   1st Qu.:   0.00   1st Qu.: 0.0000   1st Qu.: 0.000
 Median :  1894   Median :   0.00   Median : 0.0000   Median : 0.000
 Mean   :  7765   Mean   :  18.52   Mean   : 0.6173   Mean   : 2.401
 3rd Qu.:  5471   3rd Qu.:   0.00   3rd Qu.: 0.0000   3rd Qu.: 0.000
 Max.   :191761   Max.   :3000.00   Max.   :100.0000   Max.   :299.000
    m4b32c9k         m4b32c10          m4b32c11         m4b32c12
 Min.   :   0.0   Min.   :    0.00   Min.   :    0.0   Min.   :0
```

```
 1st Qu.:   0.0   1st Qu.:   97.75   1st Qu.:  399.2   1st Qu.:0
 Median :   0.0   Median :  300.00   Median :  997.0   Median :0
 Mean   : 157.2   Mean   : 1319.49   Mean   : 2588.5   Mean   :0
 3rd Qu.:   0.0   3rd Qu.: 1000.00   3rd Qu.: 1890.5   3rd Qu.:0
 Max.   :8640.0   Max.   :24930.00   Max.   :48074.0   Max.   :0
    m4b32c13         m4b32c14          m4b32c15          m4b32c16
 Min.   :     0   Min.   :    0.0   Min.   :  0.000   Min.   :    0.0
 1st Qu.:     0   1st Qu.:    0.0   1st Qu.:  0.000   1st Qu.:    0.0
 Median :     0   Median :    0.0   Median :  0.000   Median :    9.5
 Mean   :  3262   Mean   :  472.5   Mean   :  5.593   Mean   : 1408.6
 3rd Qu.:     0   3rd Qu.:    0.0   3rd Qu.:  0.000   3rd Qu.:  200.0
 Max.   :168792   Max.   :41876.0   Max.   :607.000   Max.   :74784.0
    m4b32c17           ID                  wt           eaid
 Min.   :    50   Length:162         Min.   : 667   Length:162
 1st Qu.:  1858   Class :character   1st Qu.:1792   Class :character
 Median :  6110   Mode  :character   Median :2266   Mode  :character
 Mean   : 18947                      Mean   :2323
 3rd Qu.: 12241                      3rd Qu.:2817
 Max.   :443027                      Max.   :4793


## 21 ####  Muc4B41  #########
      tinh            huyen              xa             diaban
 Min.   : 2.00   Min.   : 26.00   Min.   :  703   Min.   : 1.000
 1st Qu.:11.00   1st Qu.: 98.25   1st Qu.: 3214   1st Qu.: 3.000
 Median :19.00   Median :168.00   Median : 5620   Median : 6.000
 Mean   :29.58   Mean   :294.67   Mean   :10956   Mean   : 6.721
 3rd Qu.:46.00   3rd Qu.:482.00   3rd Qu.:20119   3rd Qu.: 9.000
 Max.   :96.00   Max.   :970.00   Max.   :32188   Max.   :53.000
      hoso          m4b41ma          m4b41c3a          m4b41c3b
 Min.   :13.00   Min.   : 1.00   Min.   :     -2   Min.   :   -2.0
 1st Qu.:13.00   1st Qu.:11.00   1st Qu.:      0   1st Qu.:    0.0
 Median :14.00   Median :11.00   Median :      0   Median :    0.0
 Mean   :14.28   Mean   :10.42   Mean   :   1484   Mean   :  157.9
 3rd Qu.:15.00   3rd Qu.:11.00   3rd Qu.:    299   3rd Qu.:    0.0
 Max.   :21.00   Max.   :14.00   Max.   :1025468   Max.   :95513.0
    m4b41c3c          m4b41c3d          m4b41c3e          m4b41c3f
 Min.   :   -2.0   Min.   :   -2.0   Min.   :    -2.0   Min.   :     31
 1st Qu.:    0.0   1st Qu.:    0.0   1st Qu.:     0.0   1st Qu.:    498
 Median :    0.0   Median :    0.0   Median :     0.0   Median :   1200
 Mean   :  167.8   Mean   :  309.5   Mean   :   939.6   Mean   :   3061
 3rd Qu.:    0.0   3rd Qu.:    0.0   3rd Qu.:   810.0   3rd Qu.:   2591
 Max.   :45000.0   Max.   :30516.0   Max.   :151187.0   Max.   :1025468
    m4b41c4            ID                  wt           eaid
 Min.   :     -1   Length:3386        Min.   : 535   Length:3386
 1st Qu.:      0   Class :character   1st Qu.:1264   Class :character
 Median :      0   Mode  :character   Median :1828   Mode  :character
 Mean   :   1737                      Mean   :1891
 3rd Qu.:      0                       3rd Qu.:2362
 Max.   :1025468                       Max.   :5346


## 22 ####  Muc4B42  #########
      tinh            huyen              xa             diaban            hoso
 Min.   : 2.00   Min.   : 26.0   Min.   :  703   Min.   : 1.000   Min.   :13.00
 1st Qu.:11.00   1st Qu.:100.0   1st Qu.: 3298   1st Qu.: 3.000   1st Qu.:13.00
```

```
Median :22.00   Median :198.0   Median : 6844   Median : 6.000   Median :14.00
Mean   :32.64   Mean   :326.4   Mean   :12141   Mean   : 7.058   Mean   :14.29
3rd Qu.:51.00   3rd Qu.:526.0   3rd Qu.:21157   3rd Qu.:10.000   3rd Qu.:15.00
Max.   :96.00   Max.   :970.0   Max.   :32188   Max.   :53.000   Max.   :21.00

   m4b42ma         m4b42c1            m4b42c2            m4b42c3
Min.   :1.000   Min.   :    0.00   Min.   :    0.00   Min.   :   0.0
1st Qu.:1.000   1st Qu.:    0.00   1st Qu.:    0.00   1st Qu.:  50.0
Median :1.000   Median :    0.00   Median :    0.00   Median : 100.0
Mean   :1.033   Mean   :   65.53   Mean   :   43.53   Mean   : 144.1
3rd Qu.:1.000   3rd Qu.:    0.00   3rd Qu.:    0.00   3rd Qu.: 180.0
Max.   :2.000   Max.   :30764.00   Max.   :20509.00   Max.   :2212.0
                NA's   :70         NA's   :70
   m4b42c4a          m4b42c4b    m4b42c4c           m4b42c4d          m4b42c4e
Min.   :   0.000   Min.   :0   Min.   : 0.00000   Min.   :   0.00   Min.   :0
1st Qu.:   0.000   1st Qu.:0   1st Qu.: 0.00000   1st Qu.:   0.00   1st Qu.:0
Median :   0.000   Median :0   Median : 0.00000   Median :   0.00   Median :0
Mean   :   1.256   Mean   :0   Mean   : 0.05251   Mean   :  41.13   Mean   :0
3rd Qu.:   0.000   3rd Qu.:0   3rd Qu.: 0.00000   3rd Qu.:   0.00   3rd Qu.:0
Max.   :1231.000   Max.   :0   Max.   :80.00000   Max.   :7778.00   Max.   :0

   m4b42c4f          m4b42c4g          m4b42c4h    m4b42c4i    m4b42c4j
Min.   :   0.000   Min.   :  0.000   Min.   :0   Min.   :0   Min.   :   0.000
1st Qu.:   0.000   1st Qu.:  0.000   1st Qu.:0   1st Qu.:0   1st Qu.:   0.000
Median :   0.000   Median :  0.000   Median :0   Median :0   Median :   0.000
Mean   :   2.114   Mean   :  1.923   Mean   :0   Mean   :0   Mean   :   3.249
3rd Qu.:   0.000   3rd Qu.:  0.000   3rd Qu.:0   3rd Qu.:0   3rd Qu.:   0.000
Max.   :3000.000   Max.   :713.000   Max.   :0   Max.   :0   Max.   :1000.000

   m4b42c4k          m4b42c5           m4b42c6           m4b42c7
Min.   :   0.00   Min.   :   0.00   Min.   :   0.00   Min.   :     0.00
1st Qu.:   0.00   1st Qu.:   0.00   1st Qu.:   0.00   1st Qu.:     0.00
Median :   0.00   Median :   0.00   Median :   0.00   Median :     0.00
Mean   :   1.91   Mean   :  12.13   Mean   :  50.28   Mean   :    61.59
3rd Qu.:   0.00   3rd Qu.:   0.00   3rd Qu.:   0.00   3rd Qu.:     0.00
Max.   :1000.00   Max.   :1200.00   Max.   :6724.00   Max.   :125101.00

   m4b42c8           m4b42c9           m4b42c10          m4b42c11
Min.   :     0.0   Min.   :  0.000   Min.   :     0.0   Min.   :   0.000
1st Qu.:     0.0   1st Qu.:  0.000   1st Qu.:     0.0   1st Qu.:   0.000
Median :     0.0   Median :  0.000   Median :     0.0   Median :   0.000
Mean   :   104.9   Mean   :  9.598   Mean   :   176.5   Mean   :   1.117
3rd Qu.:     0.0   3rd Qu.:  0.000   3rd Qu.:     0.0   3rd Qu.:   0.000
Max.   :102547.0   Max.   :5300.000   Max.   :119262.0   Max.   :1168.000

   m4b42c12    m4b42c13          m4b42c14            ID
Min.   :0   Min.   :    0.00   Min.   :     5.0   Length:2095
1st Qu.:0   1st Qu.:    0.00   1st Qu.:    60.0   Class :character
Median :0   Median :    0.00   Median :   150.0   Mode  :character
Mean   :0   Mean   :   71.49   Mean   :   788.7
3rd Qu.:0   3rd Qu.:    0.00   3rd Qu.:   341.0
Max.   :0   Max.   :30764.00   Max.   :307641.0

      wt           eaid
Min.   : 535   Length:2095
1st Qu.:1486   Class :character
```

```
 Median :1896   Mode  :character
 Mean   :1982
 3rd Qu.:2412
 Max.   :5346


## 23 ####  Muc4B51  #########
      tinh           huyen             xa            diaban            hoso
 Min.   : 1.00   Min.   : 27.0   Min.   :  817   Min.   : 1.000   Min.   :13.00
 1st Qu.:33.00   1st Qu.:325.0   1st Qu.:11995   1st Qu.: 4.000   1st Qu.:13.00
 Median :66.00   Median :654.5   Median :24526   Median : 8.000   Median :14.00
 Mean   :59.96   Mean   :601.8   Mean   :21144   Mean   : 9.601   Mean   :14.31
 3rd Qu.:91.00   3rd Qu.:905.2   3rd Qu.:30889   3rd Qu.:14.000   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :72.000   Max.   :20.00

    m4b51ma         m4b51c3           m4b51c4a          m4b51c4b
 Min.   :11.00   Min.   :     1.0   Min.   :     0.0   Min.   :       0
 1st Qu.:11.00   1st Qu.:    20.0   1st Qu.:     0.0   1st Qu.:     655
 Median :14.00   Median :    60.0   Median :     0.0   Median :    3899
 Mean   :16.38   Mean   :   878.3   Mean   :   815.1   Mean   :   38302
 3rd Qu.:21.00   3rd Qu.:   230.0   3rd Qu.:   150.0   3rd Qu.:   15384
 Max.   :23.00   Max.   :395000.0   Max.   :395000.0   Max.   :10042027
                 NA's   :480        NA's   :480        NA's   :981
    m4b51c5              ID                 wt           eaid
 Min.   :      10   Length:2420        Min.   : 535   Length:2420
 1st Qu.:     596   Class :character   1st Qu.:1788   Class :character
 Median :    1830   Mode  :character   Median :2155   Mode  :character
 Mean   :   24316                      Mean   :2197
 3rd Qu.:    7600                      3rd Qu.:2588
 Max.   :10042027                      Max.   :5768


## 24 ####  Muc4B52  #########
      tinh           huyen             xa            diaban            hoso
 Min.   : 1.00   Min.   : 27.0   Min.   :  817   Min.   : 1.000   Min.   :13.00
 1st Qu.:30.00   1st Qu.:297.0   1st Qu.:11035   1st Qu.: 4.000   1st Qu.:13.00
 Median :62.00   Median :613.0   Median :23404   Median : 8.000   Median :14.00
 Mean   :57.18   Mean   :573.7   Mean   :20254   Mean   : 9.602   Mean   :14.32
 3rd Qu.:87.00   3rd Qu.:874.0   3rd Qu.:30166   3rd Qu.:13.000   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :72.000   Max.   :20.00
    m4b52ma         m4b52c6           m4b52c7           m4b52c8
 Min.   :1.000   Min.   :    -2   Min.   :      0   Min.   :    0.0
 1st Qu.:1.000   1st Qu.:     0   1st Qu.:      0   1st Qu.:   40.0
 Median :1.000   Median :    40   Median :      0   Median :  100.0
 Mean   :1.464   Mean   :  2416   Mean   :   8538   Mean   :  443.6
 3rd Qu.:2.000   3rd Qu.:   500   3rd Qu.:    259   3rd Qu.:  299.0
 Max.   :2.000   Max.   :877338   Max.   :7826251   Max.   :18500.0
    m4b52c9a          m4b52c9b          m4b52c9c          m4b52c9d
 Min.   :     0.0   Min.   :0   Min.   : 0.0000   Min.   :    0.00
 1st Qu.:     0.0   1st Qu.:0   1st Qu.: 0.0000   1st Qu.:    0.00
 Median :     0.0   Median :0   Median : 0.0000   Median :    0.00
 Mean   :   210.8   Mean   :0   Mean   : 0.3232   Mean   :   93.03
 3rd Qu.:     0.0   3rd Qu.:0   3rd Qu.: 0.0000   3rd Qu.:    0.00
 Max.   :159540.0   Max.   :0   Max.   :416.0000   Max.   :15000.00
```

```
   m4b52c9e          m4b52c9f          m4b52c9g          m4b52c9h
Min.   :   0.000   Min.   :    0.00   Min.   :      0   Min.   :     0.0
1st Qu.:   0.000   1st Qu.:    0.00   1st Qu.:      0   1st Qu.:     0.0
Median :   0.000   Median :    0.00   Median :      0   Median :     0.0
Mean   :   8.211   Mean   :   25.12   Mean   :   2794   Mean   :   306.1
3rd Qu.:   0.000   3rd Qu.:    0.00   3rd Qu.:      0   3rd Qu.:     0.0
Max.   :4541.000   Max.   :12963.00   Max.   :1356260   Max.   :538369.0
   m4b52c9i          m4b52c9j          m4b52c9k          m4b52c10
Min.   :   0.00   Min.   : 0.0000   Min.   :   0.0   Min.   :     0.0
1st Qu.:   0.00   1st Qu.: 0.0000   1st Qu.:   0.0   1st Qu.:     0.0
Median :   0.00   Median : 0.0000   Median :   0.0   Median :     0.0
Mean   :   1.43   Mean   : 0.2912   Mean   :  24.9   Mean   :   658.2
3rd Qu.:   0.00   3rd Qu.: 0.0000   3rd Qu.:   0.0   3rd Qu.:     0.0
Max.   :1496.00   Max.   :276.0000   Max.   :7975.0   Max.   :419570.0
   m4b52c11          m4b52c12          m4b52c13          m4b52c14
Min.   :    0.0   Min.   :    0.0   Min.   :     0.0   Min.   :    0.00
1st Qu.:    0.0   1st Qu.:    0.0   1st Qu.:     0.0   1st Qu.:    0.00
Median :    0.0   Median :    0.0   Median :     0.0   Median :    0.00
Mean   :  298.8   Mean   :  414.6   Mean   :   297.7   Mean   :   84.26
3rd Qu.:   10.0   3rd Qu.:   50.0   3rd Qu.:     0.0   3rd Qu.:    0.00
Max.   :48864.0   Max.   :49862.0   Max.   :149055.0   Max.   :20400.00
   m4b52c15          m4b52c16          m4b52c17          m4b52c18
Min.   :     0   Min.   :     0.0   Min.   :   0.000   Min.   :   -2
1st Qu.:     0   1st Qu.:     0.0   1st Qu.:   0.000   1st Qu.:    0
Median :     0   Median :     0.0   Median :   0.000   Median :    0
Mean   :  2474   Mean   :   423.6   Mean   :   4.288   Mean   :  1241
3rd Qu.:     0   3rd Qu.:     0.0   3rd Qu.:   0.000   3rd Qu.:   46
Max.   :977305   Max.   :478548.0   Max.   :3988.000   Max.   :428817
   m4b52c19             ID                wt             eaid
Min.   :      5   Length:1813        Min.   : 535   Length:1813
1st Qu.:    165   Class :character   1st Qu.:1792   Class :character
Median :    528   Mode  :character   Median :2181   Mode  :character
Mean   :  20767                      Mean   :2231
3rd Qu.:   2592                      3rd Qu.:2644
Max.   :9366825                      Max.   :5768


## 25 ####  Muc4C1  #########
     tinh            huyen             xa            diaban           hoso
Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
1st Qu.:27.00   1st Qu.:274.0   1st Qu.: 9877   1st Qu.:  5.00   1st Qu.:13.00
Median :49.00   Median :503.0   Median :20413   Median :  9.00   Median :14.00
Mean   :50.51   Mean   :509.3   Mean   :18535   Mean   : 11.72   Mean   :14.44
3rd Qu.:79.00   3rd Qu.:764.0   3rd Qu.:26872   3rd Qu.: 16.00   3rd Qu.:15.00
Max.   :96.00   Max.   :973.0   Max.   :32239   Max.   :101.00   Max.   :25.00

    m4c1ma          m4c1c2          m4c1c3          m4c1c4          m4c1c5
Min.   :1.000   Min.   : 5.00   Min.   : 1.0   Min.   :1.000   Min.   :2.000
1st Qu.:1.000   1st Qu.:31.00   1st Qu.:10.0   1st Qu.:1.000   1st Qu.:2.000
Median :1.000   Median :47.00   Median :12.0   Median :1.000   Median :2.000
Mean   :1.195   Mean   :44.05   Mean   :10.7   Mean   :1.009   Mean   :2.394
3rd Qu.:1.000   3rd Qu.:49.00   3rd Qu.:12.0   3rd Qu.:1.000   3rd Qu.:3.000
Max.   :4.000   Max.   :98.00   Max.   :12.0   Max.   :2.000   Max.   :5.000
                                                               NA's   :3672
    m4c1c6          m4c1c7          m4c1c8          m4c1stt
Min.   : 20.00   Min.   :1.00   Min.   :1.000   Min.   :1.000
```

```
 1st Qu.:100.00   1st Qu.:2.00   1st Qu.:1.000   1st Qu.:1.000
 Median :100.00   Median :3.00   Median :1.000   Median :1.000
 Mean   : 99.51   Mean   :2.64   Mean   :1.039   Mean   :1.195
 3rd Qu.:100.00   3rd Qu.:3.00   3rd Qu.:1.000   3rd Qu.:1.000
 Max.   :100.00   Max.   :3.00   Max.   :2.000   Max.   :4.000
                                 NA's   :1526
     m4c1c9           m4c1c10           m4c1c11         m4c1c12
 Min.   :      0   Min.   :       0   Min.   :1.000   Min.   :  215
 1st Qu.:   2200   1st Qu.:   22615   1st Qu.:2.000   1st Qu.:  499
 Median :   4487   Median :   48444   Median :2.000   Median :  800
 Mean   :  11363   Mean   :  123283   Mean   :1.994   Mean   : 4633
 3rd Qu.:   9532   3rd Qu.:  107681   3rd Qu.:2.000   3rd Qu.: 1950
 Max.   :1247120   Max.   :14965439   Max.   :2.000   Max.   :35848
 NA's   :85        NA's   :85         NA's   :1611    NA's   :3692
    m4c1c13          m4c1c14           m4c1c15         m4c1c16
 Min.   :1.000   Min.   :    8.0   Min.   :1.000   Min.   :   10
 1st Qu.:1.000   1st Qu.:  283.8   1st Qu.:2.000   1st Qu.:  300
 Median :2.000   Median :  603.5   Median :2.000   Median :  997
 Mean   :1.683   Mean   : 1604.5   Mean   :1.821   Mean   : 2629
 3rd Qu.:2.000   3rd Qu.: 1710.5   3rd Qu.:2.000   3rd Qu.: 2503
 Max.   :2.000   Max.   :31516.0   Max.   :2.000   Max.   :87502
 NA's   :1526    NA's   :3015                      NA's   :3041
    m4c1c17           m4c1c18             ID                 wt
 Min.   :      0   Min.   :       0   Length:3705        Min.   :  344
 1st Qu.:  21600   1st Qu.:   21537   Class :character   1st Qu.: 1822
 Median :  47861   Median :   47858   Mode  :character   Median : 2263
 Mean   : 121241   Mean   :  119545                      Mean   : 2442
 3rd Qu.: 104839   3rd Qu.:  104084                      3rd Qu.: 2809
 Max.   :14965439   Max.   :14965439                     Max.   :21374

     eaid
 Length:3705
 Class :character
 Mode  :character
```

```
## 26 ####  Muc4C2  #########
      tinh            huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:27.00   1st Qu.:274.0   1st Qu.: 9877   1st Qu.:  5.00   1st Qu.:13.00
 Median :49.00   Median :503.0   Median :20413   Median :  9.00   Median :14.00
 Mean   :50.51   Mean   :509.3   Mean   :18535   Mean   : 11.72   Mean   :14.44
 3rd Qu.:79.00   3rd Qu.:764.0   3rd Qu.:26872   3rd Qu.: 16.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32239   Max.   :101.00   Max.   :25.00
     m4c2ma          m4c2c19           m4c2c20          m4c2c21a
 Min.   :1.000   Min.   :       0   Min.   :     0   Min.   :     0
 1st Qu.:1.000   1st Qu.:       0   1st Qu.:   100   1st Qu.:     0
 Median :1.000   Median :       0   Median :   300   Median :   159
 Mean   :1.195   Mean   :   38943   Mean   :  1186   Mean   :  1563
 3rd Qu.:1.000   3rd Qu.:    8869   3rd Qu.:   967   3rd Qu.:   997
 Max.   :4.000   Max.   :11160068   Max.   :224669   Max.   :478551
    m4c2c21b          m4c2c21c          m4c2c21d         m4c2c21e
```

```
 Min.    :     0.0   Min.    :     0.0   Min.    :     0   Min.    :     0.0
 1st Qu.:     0.0   1st Qu.:     0.0   1st Qu.:     0   1st Qu.:     0.0
 Median :     0.0   Median :     0.0   Median :     0   Median :     0.0
 Mean   :   206.8   Mean   :   215.6   Mean   :  2270   Mean   :   131.2
 3rd Qu.:     0.0   3rd Qu.:     0.0   3rd Qu.:  1463   3rd Qu.:     0.0
 Max.   :446096.0   Max.   :44333.0   Max.   :278486   Max.   :234475.0
    m4c2c21f          m4c2c21g          m4c2c21h          m4c2c21i
 Min.    :    0.00   Min.    :     0   Min.    :    0.0   Min.    :    0.000
 1st Qu.:    0.00   1st Qu.:     0   1st Qu.:    0.0   1st Qu.:    0.000
 Median :    0.00   Median :     0   Median :    0.0   Median :    0.000
 Mean   :   51.13   Mean   :  2669   Mean   :  173.4   Mean   :    6.876
 3rd Qu.:    0.00   3rd Qu.:     0   3rd Qu.:    0.0   3rd Qu.:    0.000
 Max.   :57288.00   Max.   :619805   Max.   :58499.0   Max.   :20110.000
    m4c2c21j          m4c2c21k          m4c2c22           m4c2stt
 Min.    :    0.0   Min.    :     0   Min.    :    0.0   Min.   :1.000
 1st Qu.:    0.0   1st Qu.:     0   1st Qu.:    0.0   1st Qu.:1.000
 Median :    0.0   Median :     0   Median :    0.0   Median :1.000
 Mean   :  259.6   Mean   :   280   Mean   :  170.2   Mean   :1.194
 3rd Qu.:    0.0   3rd Qu.:     0   3rd Qu.:    0.0   3rd Qu.:1.000
 Max.   :42202.0   Max.   :259637   Max.   :38530.0   Max.   :5.000
    m4c2c23           m4c2c24           m4c2c25          m4c2c26
 Min.    :    0.0   Min.    :     0   Min.    :     0   Min.    :     0
 1st Qu.:    0.0   1st Qu.:     0   1st Qu.:     0   1st Qu.:     0
 Median :   75.0   Median :   431   Median :     0   Median :     0
 Mean   :  864.7   Mean   :  2639   Mean   :  2067   Mean   :  1258
 3rd Qu.:  498.0   3rd Qu.:  1500   3rd Qu.:     0   3rd Qu.:     0
 Max.   :99698.0   Max.   :724861   Max.   :525451   Max.   :803410
    m4c2c27           m4c2c28           m4c2c29          m4c2c30
 Min.    :      0   Min.    :      0   Min.    :     0   Min.    :    0.00
 1st Qu.:      0   1st Qu.:      0   1st Qu.:     0   1st Qu.:    0.00
 Median :      0   Median :      0   Median :     0   Median :    0.00
 Mean   :  11812   Mean   :   1151   Mean   :  1694   Mean   :   37.96
 3rd Qu.:      0   3rd Qu.:      0   3rd Qu.:   582   3rd Qu.:    0.00
 Max.   :2542954   Max.   :1158971   Max.   :679993   Max.   :19704.00
    m4c2c31           m4c2c32           m4c2c33              ID
 Min.    :     0   Min.    :       0   Min.    :       0   Length:3705
 1st Qu.:     0   1st Qu.:    3162   1st Qu.:    3136   Class :character
 Median :   200   Median :   10122   Median :   10100   Mode  :character
 Mean   :  1407   Mean   :   71057   Mean   :   70004
 3rd Qu.:   997   3rd Qu.:   37123   3rd Qu.:   36840
 Max.   :294195   Max.   :14663729   Max.   :14663729
      wt             eaid
 Min.   :  344   Length:3705
 1st Qu.: 1822   Class :character
 Median : 2263   Mode  :character
 Mean   : 2442
 3rd Qu.: 2809
 Max.   :21374


## 27 ####  Muc4D  #########
     tinh            huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
```

```
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00
    m4dc2_01         m4dc2_02         m4dc2_03          m4dc2_04
 Min.   :     0   Min.   :     0   Min.   :    0.00   Min.   :    0.00
 1st Qu.:     0   1st Qu.:     0   1st Qu.:    0.00   1st Qu.:    0.00
 Median :     0   Median :     0   Median :    0.00   Median :    0.00
 Mean   :  1452   Mean   :  1144   Mean   :   19.27   Mean   :    6.11
 3rd Qu.:     0   3rd Qu.:     0   3rd Qu.:    0.00   3rd Qu.:    0.00
 Max.   :464067   Max.   :464067   Max.   :79753.00   Max.   :57381.00
    m4dc2_05          m4dc2_06         m4dc2_07         m4dc2_08
 Min.   :    0.00   Min.   :     0   Min.   :     0   Min.   :     0.00
 1st Qu.:    0.00   1st Qu.:   240   1st Qu.:     0   1st Qu.:     0.00
 Median :    0.00   Median :  1100   Median :     0   Median :     0.00
 Mean   :   16.44   Mean   :  4463   Mean   :  2264   Mean   :    80.89
 3rd Qu.:    0.00   3rd Qu.:  3988   3rd Qu.:   700   3rd Qu.:     0.00
 Max.   :89522.00   Max.   :604206   Max.   :598224   Max.   :307651.00
    m4dc2_09          m4dc2_10           m4dc2_11          m4dc2_12
 Min.   :    0.00   Min.   :     0.00   Min.   :-29904.0   Min.   : -3612.0
 1st Qu.:    0.00   1st Qu.:     0.00   1st Qu.:     0.0   1st Qu.:     0.0
 Median :    0.00   Median :     0.00   Median :     0.0   Median :     0.0
 Mean   :    5.21   Mean   :    98.29   Mean   :   293.8   Mean   :   156.3
 3rd Qu.:    0.00   3rd Qu.:     0.00   3rd Qu.:     0.0   3rd Qu.:     0.0
 Max.   :34495.00   Max.   :100373.00   Max.   :116898.0   Max.   :105600.0
    m4dc2_13         m4dc2_14         m4dc2_15          m4dc2_16
 Min.   :    0   Min.   :    0   Min.   :   0.000   Min.   :    0.00
 1st Qu.:    0   1st Qu.:    0   1st Qu.:   0.000   1st Qu.:    0.00
 Median :    0   Median :    0   Median :   0.000   Median :    0.00
 Mean   :  589   Mean   :  304   Mean   :   7.851   Mean   :   29.16
 3rd Qu.:    0   3rd Qu.:    0   3rd Qu.:   0.000   3rd Qu.:    0.00
 Max.   :89575   Max.   :53160   Max.   :7533.000   Max.   :39880.00
    m4dc2_17          m4dc2_18          m4dc2_19          m4dc2_20
 Min.   :      0   Min.   :     0.0   Min.   :    0.00   Min.   :      0.0
 1st Qu.:      0   1st Qu.:     0.0   1st Qu.:    0.00   1st Qu.:      0.0
 Median :      0   Median :     0.0   Median :    0.00   Median :      0.0
 Mean   :   2090   Mean   :   190.4   Mean   :   54.65   Mean   :    831.6
 3rd Qu.:      0   3rd Qu.:     0.0   3rd Qu.:    0.00   3rd Qu.:      0.0
 Max.   :1595198   Max.   :122244.0   Max.   :93035.00   Max.   :2189382.0
      ID                  wt             eaid
 Length:9399        Min.   :  344   Length:9399
 Class :character   1st Qu.: 1827   Class :character
 Mode  :character   Median : 2296   Mode  :character
                    Mean   : 2471
                    3rd Qu.: 2868
                    Max.   :21374


## 28 ####  Muc5A1  #########
      tinh          huyen           xa            diaban           hoso
 Min.   : 1.0   Min.   :  1   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:27.0   1st Qu.:275   1st Qu.: 9886   1st Qu.:  4.00   1st Qu.:13.00
 Median :46.0   Median :479   Median :19981   Median :  9.00   Median :14.00
 Mean   :48.9   Mean   :494   Mean   :18051   Mean   : 11.02   Mean   :14.45
 3rd Qu.:75.0   3rd Qu.:734   3rd Qu.:26182   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.0   Max.   :973   Max.   :32248   Max.   :101.00   Max.   :29.00

     m5a1ma          m5a1ma1          m5a1c2a          m5a1c2b
```

```
 Min.    :101.0   Min.    :1.00     Min.    :  0.00   Min.    :    0.0
 1st Qu.:115.0   1st Qu.:1.00     1st Qu.:  1.00   1st Qu.:   50.0
 Median :124.0   Median :2.00     Median :  2.00   Median :  100.0
 Mean   :129.2   Mean   :1.69     Mean   :  4.21   Mean   :  169.1
 3rd Qu.:145.0   3rd Qu.:2.00     3rd Qu.:  5.00   3rd Qu.:  200.0
 Max.    :154.0   Max.    :2.00     Max.    :200.00   Max.    :30000.0
                 NA's    :136988   NA's    :34752    NA's    :12419
    m5a1c3a          m5a1c3b             ID                 wt
 Min.    :  0.00   Min.    :    0.0   Length:146205      Min.    :  344
 1st Qu.:  0.00   1st Qu.:    0.0   Class :character   1st Qu.: 1842
 Median :  0.00   Median :    0.0   Mode  :character   Median : 2311
 Mean   :  1.14   Mean   :   93.4                      Mean   : 2498
 3rd Qu.:  0.00   3rd Qu.:   80.0                      3rd Qu.: 2918
 Max.    :200.00   Max.    :10000.0                     Max.    :21374
 NA's    :34752    NA's    :95704
     eaid
 Length:146205
 Class :character
 Mode  :character
```

```
## 29 ####  Muc5A2  #########
      tinh           huyen             xa            diaban           hoso
 Min.    : 1.00   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:27.00   1st Qu.:280.0   1st Qu.:10312   1st Qu.:  5.00   1st Qu.:13.00
 Median :49.00   Median :508.0   Median :20620   Median :  9.00   Median :14.00
 Mean   :50.33   Mean   :507.6   Mean   :18490   Mean   : 11.39   Mean   :14.46
 3rd Qu.:77.00   3rd Qu.:748.0   3rd Qu.:26563   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.    :96.00   Max.    :973.0   Max.    :32248   Max.    :101.00   Max.    :29.00

     m5a2ma         m5a2ma1          m5a2c2a          m5a2c2b
 Min.    :101.0   Min.    :1.00     Min.    :  0.10   Min.    :    0.0
 1st Qu.:117.0   1st Qu.:1.00     1st Qu.:  1.00   1st Qu.:   20.0
 Median :126.0   Median :1.00     Median :  2.00   Median :   45.0
 Mean   :126.7   Mean   :1.51     Mean   :  6.17   Mean   :  145.6
 3rd Qu.:138.0   3rd Qu.:2.00     3rd Qu.:  4.00   3rd Qu.:  135.0
 Max.    :154.0   Max.    :3.00     Max.    :270.00   Max.    :30000.0
                 NA's    :235727   NA's    :68317
    m5a2c3a          m5a2c3b          m5a2c4a          m5a2c4b
 Min.    :  0.00   Min.    :    0.0   Min.    :  0.00   Min.    :   0.0
 1st Qu.:  0.50   1st Qu.:   20.0   1st Qu.:  0.00   1st Qu.:   0.0
 Median :  1.00   Median :   40.0   Median :  0.00   Median :   0.0
 Mean   :  4.04   Mean   :  135.6   Mean   :  2.05   Mean   :  58.3
 3rd Qu.:  3.00   3rd Qu.:  120.0   3rd Qu.:  0.00   3rd Qu.:  15.0
 Max.    :270.00   Max.    :30000.0   Max.    :200.00   Max.    :3900.0
 NA's    :68317    NA's    :22068    NA's    :68317    NA's    :191192
    m5a2c5a          m5a2c5b             ID                 wt
 Min.    :0e+00   Min.    :   0.0   Length:279872      Min.    :  344
 1st Qu.:0e+00   1st Qu.:   0.0   Class :character   1st Qu.: 1853
 Median :0e+00   Median :   0.0   Mode  :character   Median : 2315
 Mean   :8e-02   Mean   :   8.8                      Mean   : 2520
 3rd Qu.:0e+00   3rd Qu.:   0.0                      3rd Qu.: 2933
```

```
 Max.    :1e+02   Max.    :8660.0                    Max.    :21374
 NA's    :68317   NA's    :207794
     eaid
 Length:279872
 Class :character
 Mode  :character
```

```
## 30 ####  Muc5B1  #########
      tinh           huyen             xa            diaban           hoso
 Min.    : 1.00   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:30.00   1st Qu.:290.0   1st Qu.:10603   1st Qu.:  5.00   1st Qu.:13.00
 Median :49.00   Median :515.0   Median :20866   Median :  9.00   Median :14.00
 Mean   :51.02   Mean   :514.3   Mean   :18714   Mean   : 11.31   Mean   :14.46
 3rd Qu.:79.00   3rd Qu.:761.0   3rd Qu.:26767   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.    :96.00   Max.    :973.0   Max.    :32248   Max.    :101.00   Max.    :29.00
     m5b1ma          m5b1c2           m5b1c3           m5b1c4
 Min.    :201.0   Min.    :   1.00   Min.    :   0.00   Min.    :   0.00
 1st Qu.:214.0   1st Qu.:  14.00   1st Qu.:  10.00   1st Qu.:   0.00
 Median :217.0   Median :  30.00   Median :  25.00   Median :   0.00
 Mean   :216.7   Mean   :  70.92   Mean   :  65.62   Mean   :   4.94
 3rd Qu.:221.0   3rd Qu.:  66.00   3rd Qu.:  60.00   3rd Qu.:   0.00
 Max.    :228.0   Max.    :8100.00   Max.    :8100.00   Max.    :4320.00
     m5b1c5               ID                  wt            eaid
 Min.    :   0.0000   Length:111751      Min.    :  344   Length:111751
 1st Qu.:   0.0000   Class :character   1st Qu.: 1851   Class :character
 Median :   0.0000   Mode  :character   Median : 2315   Mode  :character
 Mean   :   0.3576                      Mean   : 2501
 3rd Qu.:   0.0000                      3rd Qu.: 2898
 Max.    :2100.0000                      Max.    :21374
```

```
## 31 ####  Muc5B2  #########
      tinh          huyen             xa            diaban           hoso
 Min.    : 1.0   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:27.0   1st Qu.:276.0   1st Qu.: 9985   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.0   Median :493.0   Median :20272   Median :  9.00   Median :14.00
 Mean   :49.6   Mean   :500.4   Mean   :18262   Mean   : 11.12   Mean   :14.45
 3rd Qu.:75.0   3rd Qu.:739.0   3rd Qu.:26371   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.    :96.0   Max.    :973.0   Max.    :32248   Max.    :101.00   Max.    :29.00
     m5b2ma          m5b2c2           m5b2c3              ID
 Min.    :301.0   Min.    :     0   Min.    :    0.00   Length:116435
 1st Qu.:306.0   1st Qu.:    60   1st Qu.:    0.00   Class :character
 Median :310.0   Median :   150   Median :    0.00   Mode  :character
 Mean   :312.6   Mean   :   452   Mean   :   10.64
 3rd Qu.:319.0   3rd Qu.:   400   3rd Qu.:    0.00
 Max.    :336.0   Max.    :200000   Max.    :60000.00
       wt            eaid
 Min.    :  344   Length:116435
 1st Qu.: 1838   Class :character
 Median : 2305   Mode  :character
 Mean   : 2490
```

```
 3rd Qu.: 2893
 Max.    :21374


## 32 ####  Muc5B3  #########
      tinh           huyen             xa            diaban           hoso
 Min.    : 1.00   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00
    m5b3c2_1          m5b3c2_2          m5b3c2_3          m5b3c2_4
 Min.    :    0.00   Min.    :    0.0   Min.    :   0.00   Min.    :     0.0
 1st Qu.:    0.00   1st Qu.:    0.0   1st Qu.:   0.00   1st Qu.:     0.0
 Median :    0.00   Median :   50.0   Median :   0.00   Median :     0.0
 Mean   :   33.95   Mean   :  108.3   Mean   :  21.99   Mean   :   121.6
 3rd Qu.:   20.00   3rd Qu.:  120.0   3rd Qu.:   0.00   3rd Qu.:    50.0
 Max.   :65865.00   Max.   :30000.0   Max.   :5000.00   Max.   :185000.0
    m5b3c2_5          m5b3c2_6          m5b3c2_7          m5b3c2_8
 Min.    :    0.0   Min.    :    0.0   Min.    :    0.0   Min.    :     0
 1st Qu.:    0.0   1st Qu.:    0.0   1st Qu.:    0.0   1st Qu.:   755
 Median :    0.0   Median :    0.0   Median :    0.0   Median :  2000
 Mean   :  372.3   Mean   :  628.9   Mean   :  281.8   Mean   :  2754
 3rd Qu.:    0.0   3rd Qu.:  350.0   3rd Qu.:    0.0   3rd Qu.:  3500
 Max.   :68238.0   Max.   :66000.0   Max.   :40000.0   Max.   :376000
    m5b3c2_9             ID                 wt             eaid
 Min.    :     0.0   Length:9399        Min.    :  344   Length:9399
 1st Qu.:     0.0   Class :character   1st Qu.: 1827   Class :character
 Median :     0.0   Mode  :character   Median : 2296   Mode  :character
 Mean   :   149.1                      Mean   : 2471
 3rd Qu.:     0.0                      3rd Qu.: 2868
 Max.   :200000.0                      Max.   :21374


## 33 ####  Muc6  #########
      tinh           huyen             xa            diaban           hoso
 Min.    : 1.00   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

    m6ma_01           m6ma_02           m6ma_03           m6ma_04           m6ma_05
 Min.    : 0.000   Min.    : 0.000   Min.    : 0.00   Min.    : 0.00   Min.    : 0.0
 1st Qu.: 2.000   1st Qu.: 3.000   1st Qu.: 7.00   1st Qu.:12.00   1st Qu.:14.0
 Median : 2.000   Median : 7.000   Median :12.00   Median :14.00   Median :15.0
 Mean   : 3.353   Mean   : 7.786   Mean   :12.34   Mean   :15.52   Mean   :18.2
 3rd Qu.: 2.000   3rd Qu.:12.000   3rd Qu.:14.00   3rd Qu.:15.00   3rd Qu.:25.0
 Max.   :32.000   Max.   :37.000   Max.   :37.00   Max.   :37.00   Max.   :37.0
                  NA's   :60       NA's   :183     NA's   :369     NA's   :601
    m6ma_06           m6ma_07           m6ma_08           m6ma_09           m6ma_10
 Min.    : 0.00   Min.    : 0.0   Min.    : 0.00   Min.    : 0.00   Min.    : 0.0
 1st Qu.:15.00   1st Qu.:22.0   1st Qu.:22.00   1st Qu.:24.00   1st Qu.:25.0
 Median :22.00   Median :25.0   Median :27.00   Median :27.00   Median :28.0
```

```
Mean   :20.93   Mean   :23.3   Mean   :24.51   Mean   :25.02   Mean   :25.1
3rd Qu.:27.00   3rd Qu.:28.0   3rd Qu.:28.00   3rd Qu.:30.00   3rd Qu.:31.0
Max.   :37.00   Max.   :37.0   Max.   :37.00   Max.   :37.00   Max.   :37.0
NA's   :880     NA's   :1233   NA's   :1622    NA's   :2132    NA's   :2767
   m6ma_11         m6ma_12         m6ma_13         m6ma_14         m6ma_15
Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
1st Qu.:25.00   1st Qu.:25.00   1st Qu.:24.00   1st Qu.: 0.00   1st Qu.: 0.00
Median :28.00   Median :30.00   Median :30.00   Median :30.00   Median :30.00
Mean   :24.77   Mean   :23.92   Mean   :22.98   Mean   :22.65   Mean   :22.33
3rd Qu.:31.00   3rd Qu.:31.00   3rd Qu.:32.00   3rd Qu.:32.00   3rd Qu.:32.00
Max.   :37.00   Max.   :37.00   Max.   :37.00   Max.   :37.00   Max.   :37.00
NA's   :3522    NA's   :4392    NA's   :5365    NA's   :6333    NA's   :7140
   m6ma_16         m6ma_17         m6ma_18         m6ma_19         m6ma_20
Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00
Median :31.00   Median :31.00   Median :31.00   Median :31.00   Median :32.00
Mean   :22.64   Mean   :21.91   Mean   :22.13   Mean   :21.27   Mean   :22.18
3rd Qu.:32.00   3rd Qu.:33.00   3rd Qu.:34.00   3rd Qu.:34.00   3rd Qu.:34.00
Max.   :37.00   Max.   :37.00   Max.   :37.00   Max.   :37.00   Max.   :37.00
NA's   :7784    NA's   :8250    NA's   :8620    NA's   :8873    NA's   :9060
   m6ma_21         m6ma_22         m6ma_23         m6ma_24         m6ma_25
Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00   Min.   : 0.00
1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00   1st Qu.: 0.00
Median :33.00   Median :33.00   Median : 0.00   Median : 0.00   Median : 0.00
Mean   :22.18   Mean   :20.33   Mean   :16.32   Mean   :14.56   Mean   :14.53
3rd Qu.:35.00   3rd Qu.:35.00   3rd Qu.:35.00   3rd Qu.:35.00   3rd Qu.:35.00
Max.   :37.00   Max.   :37.00   Max.   :37.00   Max.   :37.00   Max.   :36.00
NA's   :9174    NA's   :9252    NA's   :9312    NA's   :9358    NA's   :9382
   m6ma_26         m6ma_27         m6ma_28         m6ma_29         m6ma_30
Min.   : 0.00   Min.   :0      Min.   : NA     Min.   : NA     Min.   : NA
1st Qu.: 0.00   1st Qu.:0      1st Qu.: NA     1st Qu.: NA     1st Qu.: NA
Median : 0.00   Median :0      Median : NA     Median : NA     Median : NA
Mean   :10.14   Mean   :0      Mean   :NaN     Mean   :NaN     Mean   :NaN
3rd Qu.:17.50   3rd Qu.:0      3rd Qu.: NA     3rd Qu.: NA     3rd Qu.: NA
Max.   :36.00   Max.   :0      Max.   : NA     Max.   : NA     Max.   : NA
NA's   :9392    NA's   :9397   NA's   :9399    NA's   :9399    NA's   :9399
   m6ma_31         m6ma_32         m6ma_33         m6ma_34         m6ma_35
Min.   : NA     Min.   : NA     Min.   : NA     Min.   : NA     Min.   : NA
1st Qu.: NA     1st Qu.: NA     1st Qu.: NA     1st Qu.: NA     1st Qu.: NA
Median : NA     Median : NA     Median : NA     Median : NA     Median : NA
Mean   :NaN     Mean   :NaN     Mean   :NaN     Mean   :NaN     Mean   :NaN
3rd Qu.: NA     3rd Qu.: NA     3rd Qu.: NA     3rd Qu.: NA     3rd Qu.: NA
Max.   : NA     Max.   : NA     Max.   : NA     Max.   : NA     Max.   : NA
NA's   :9399    NA's   :9399    NA's   :9399    NA's   :9399    NA's   :9399
   m6ma_36         m6ma_37           ID                 wt
Min.   : NA     Min.   : NA     Length:9399        Min.   :  344
1st Qu.: NA     1st Qu.: NA     Class :character   1st Qu.: 1827
Median : NA     Median : NA     Mode  :character   Median : 2296
Mean   :NaN     Mean   :NaN                        Mean   : 2471
3rd Qu.: NA     3rd Qu.: NA                        3rd Qu.: 2868
Max.   : NA     Max.   : NA                        Max.   :21374
NA's   :9399    NA's   :9399
    eaid
Length:9399
Class :character
Mode  :character
```

```
## 34 ####  Muc6B  #########
      tinh          huyen             xa            diaban           hoso
 Min.   : 1.0   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:27.0   1st Qu.:282.0   1st Qu.:10492   1st Qu.:  5.00   1st Qu.:13.00
 Median :48.0   Median :497.0   Median :20326   Median :  9.00   Median :14.00
 Mean   :50.4   Mean   :508.5   Mean   :18530   Mean   : 11.55   Mean   :14.46
 3rd Qu.:77.0   3rd Qu.:750.0   3rd Qu.:26575   3rd Qu.: 16.00   3rd Qu.:15.00
 Max.   :96.0   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

      m6c2            m6c3            m6c4t            m6c4n
 Min.   : 1.00   Min.   : 1.000   Min.   : 0.000   Min.   :  -1
 1st Qu.:12.00   1st Qu.: 1.000   1st Qu.: 0.000   1st Qu.:2004
 Median :24.00   Median : 1.000   Median : 0.000   Median :2007
 Mean   :20.06   Mean   : 1.125   Mean   : 0.566   Mean   :2005
 3rd Qu.:30.00   3rd Qu.: 1.000   3rd Qu.: 0.000   3rd Qu.:2009
 Max.   :37.00   Max.   :40.000   Max.   :12.000   Max.   :2012

      m6c5             m6c6              ID                 wt
 Min.   :     50   Min.   :    -1   Length:116235      Min.   :  344
 1st Qu.:    600   1st Qu.:   300   Class :character   1st Qu.: 1879
 Median :   1700   Median :   600   Mode  :character   Median : 2319
 Mean   :   6176   Mean   :  2430                      Mean   : 2530
 3rd Qu.:   5000   3rd Qu.:  1700                      3rd Qu.: 2920
 Max.   :1200000   Max.   :1600000                     Max.   :21374
 NA's   :109191
    eaid
 Length:116235
 Class :character
 Mode  :character
```

```
## 35 ####  Muc7  #########
      tinh          huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

      m7c1            m7c2            m7c3           m7c4a           m7c4b
 Min.   :0.000   Min.   :  6.00   Min.   :1.000   Min.   :1.000   Min.   :1.000
 1st Qu.:1.000   1st Qu.: 45.00   1st Qu.:2.000   1st Qu.:1.000   1st Qu.:2.000
 Median :1.000   Median : 60.00   Median :2.000   Median :2.000   Median :3.000
 Mean   :1.015   Mean   : 74.58   Mean   :1.979   Mean   :2.039   Mean   :2.364
 3rd Qu.:1.000   3rd Qu.: 90.00   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:3.000
```

```
Max.    :3.000   Max.    :608.00   Max.    :2.000   Max.    :5.000   Max.    :5.000
                 NA's    :7        NA's    :7       NA's    :7       NA's    :7
    m7c4c          m7c4d            m7c5            m7c6            m7c7
Min.    :1.00   Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.000
1st Qu.:2.00   1st Qu.:3.000   1st Qu.:2.000   1st Qu.:1.000   1st Qu.:2.000
Median :2.00   Median :4.000   Median :3.000   Median :1.000   Median :2.000
Mean   :2.45   Mean   :3.644   Mean   :2.609   Mean   :1.093   Mean   :1.978
3rd Qu.:2.00   3rd Qu.:4.000   3rd Qu.:3.000   3rd Qu.:1.000   3rd Qu.:2.000
Max.    :6.00   Max.    :5.000   Max.    :3.000   Max.    :7.000   Max.    :2.000
NA's    :7      NA's    :7       NA's    :7       NA's    :7       NA's    :7
     m7c8            m7c9            m7c10             m7c10a
Min.    :    0   Min.    :  0.00   Min.    :       0   Min.    :       0
1st Qu.: 3900   1st Qu.: 12.00   1st Qu.:  100000   1st Qu.:   50000
Median : 6000   Median : 12.00   Median :  250000   Median :  140000
Mean   : 8591   Mean   : 16.08   Mean   :  581010   Mean   :  402318
3rd Qu.: 9600   3rd Qu.: 12.00   3rd Qu.:  600000   3rd Qu.:  400000
Max.    :54000   Max.    :120.00   Max.    :25200000   Max.    :25000000
NA's    :9195   NA's    :9195    NA's    :7          NA's    :206
    m7c11           m7c12           m7c13            m7c14
Min.    :1.000   Min.    :   0   Min.    :     -1   Min.    :     0
1st Qu.:1.000   1st Qu.:1997   1st Qu.:  21000   1st Qu.:     0
Median :1.000   Median :2002   Median :  50000   Median :     0
Mean   :1.192   Mean   :1998   Mean   : 118744   Mean   :  1233
3rd Qu.:1.000   3rd Qu.:2007   3rd Qu.: 120000   3rd Qu.:     0
Max.    :2.000   Max.    :2012   Max.    :4000000   Max.    :200000
NA's    :7       NA's    :1814   NA's    :1814     NA's    :7
    m7c15           m7c16           m7c17            m7c18
Min.    :1.000   Min.    :1.000   Min.    :    897   Min.    : 1.000
1st Qu.:2.000   1st Qu.:2.000   1st Qu.:   7634   1st Qu.: 1.000
Median :2.000   Median :2.000   Median :  22503   Median : 3.000
Mean   :1.927   Mean   :1.806   Mean   :  47830   Mean   : 3.986
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:  41852   3rd Qu.: 5.000
Max.    :2.000   Max.    :2.000   Max.    :1313629   Max.    :10.000
NA's    :7       NA's    :8709    NA's    :9265
    m7c19a          m7c19b          m7c20            m7c21           m7c22
Min.    :1.000   Min.    :1.000   Min.    :   0.0   Min.    :1.000   Min.    :1.000
1st Qu.:1.000   1st Qu.:2.000   1st Qu.:   0.0   1st Qu.:1.000   1st Qu.:1.000
Median :1.000   Median :2.000   Median :   0.0   Median :1.000   Median :1.000
Mean   :1.095   Mean   :1.864   Mean   : 238.8   Mean   :2.523   Mean   :1.054
3rd Qu.:1.000   3rd Qu.:2.000   3rd Qu.: 330.0   3rd Qu.:4.000   3rd Qu.:1.000
Max.    :2.000   Max.    :2.000   Max.    :7200.0   Max.    :6.000   Max.    :4.000

    m7c23           m7c23k          m7c24           m7c25
Min.    :   0.0   Min.    :   0.0   Min.    :    0   Min.    :1.000
1st Qu.:  60.0   1st Qu.:  45.0   1st Qu.:  600   1st Qu.:1.000
Median : 112.0   Median :  85.0   Median : 1236   Median :3.000
Mean   : 155.9   Mean   : 112.2   Mean   : 1754   Mean   :3.113
3rd Qu.: 200.0   3rd Qu.: 150.0   3rd Qu.: 2300   3rd Qu.:5.000
Max.    :3000.0   Max.    :1500.0   Max.    :36000   Max.    :6.000
NA's    :304      NA's    :304
    m7c26           m7c27            ID                wt
Min.    :   0.00   Min.    :    0   Length:9399        Min.    :  344
1st Qu.:   0.00   1st Qu.:   720   Class :character   1st Qu.: 1827
Median :   0.00   Median :  1560   Mode  :character   Median : 2296
Mean   :  52.55   Mean   :  3464                      Mean   : 2471
3rd Qu.:  96.00   3rd Qu.:  3180                      3rd Qu.: 2868
```

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 Max.    :2400.00    Max.    :204440                      Max.    :21374

    eaid
 Length:9399
 Class :character
 Mode  :character
```

```
## 36 ####  Muc8  #########
      tinh            huyen             xa            diaban           hoso
 Min.    : 1.00   Min.    :  1.0   Min.    :    4   Min.    :  1.00   Min.    :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.    :96.00   Max.    :973.0   Max.    :32248   Max.    :101.00   Max.    :29.00

     m8c106          m8c107          m8c108          m8c109          m8c110
 Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.000
 1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000
 Median :2.000   Median :2.000   Median :2.000   Median :2.000   Median :2.000
 Mean   :1.884   Mean   :1.881   Mean   :1.877   Mean   :1.871   Mean   :1.862
 3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.    :9.000   Max.    :9.000   Max.    :9.000   Max.    :2.000   Max.    :2.000

     m8c111          m8c112          m8c1a          m8c21_01        m8c21_02
 Min.    :1.000   Min.    :1.000   Min.    : 0.00   Min.    :1.000   Min.    :1.000
 1st Qu.:2.000   1st Qu.:2.000   1st Qu.: 0.00   1st Qu.:2.000   1st Qu.:2.000
 Median :2.000   Median :2.000   Median : 0.00   Median :2.000   Median :2.000
 Mean   :1.853   Mean   :1.866   Mean   : 0.43   Mean   :1.809   Mean   :1.854
 3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.: 0.00   3rd Qu.:2.000   3rd Qu.:2.000
 Max.    :2.000   Max.    :2.000   Max.    :12.00   Max.    :3.000   Max.    :3.000
                                  NA's    :7445
    m8c21_03        m8c21_04    m8c21_05        m8c21_06        m8c21_07
 Min.    :1.000   Min.    :1   Min.    :1.000   Min.    :1.000   Min.    :1.000
 1st Qu.:2.000   1st Qu.:2   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000
 Median :2.000   Median :2   Median :2.000   Median :2.000   Median :2.000
 Mean   :1.917   Mean   :2   Mean   :2.018   Mean   :2.003   Mean   :1.995
 3rd Qu.:2.000   3rd Qu.:2   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.    :3.000   Max.    :3   Max.    :3.000   Max.    :3.000   Max.    :3.000

    m8c21_08        m8c21_09        m8c21_10        m8c21_11        m8c21_12
 Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.000
 1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000
 Median :2.000   Median :2.000   Median :2.000   Median :2.000   Median :2.000
 Mean   :2.022   Mean   :1.934   Mean   :2.018   Mean   :1.953   Mean   :2.022
 3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.    :3.000   Max.    :3.000   Max.    :3.000   Max.    :3.000   Max.    :3.000

    m8c21_13        m8c21_14        m8c21_15        m8c21_16        m8c22_01
 Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.000   Min.    :1.00
 1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.00
```

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Median :2.000   Median :2.000   Median :2.000   Median :2.000   Median :2.00
Mean   :1.961   Mean   :1.914   Mean   :1.958   Mean   :1.974   Mean   :1.81
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.00
Max.   :3.000   Max.   :3.000   Max.   :3.000   Max.   :3.000   Max.   :3.00

   m8c22_02        m8c22_03        m8c22_04     m8c22_05        m8c22_06
Min.   :1.00   Min.   :1.000   Min.   :1   Min.   :1.000   Min.   :1.000
1st Qu.:2.00   1st Qu.:2.000   1st Qu.:2   1st Qu.:2.000   1st Qu.:2.000
Median :2.00   Median :2.000   Median :2   Median :2.000   Median :2.000
Mean   :1.86   Mean   :1.923   Mean   :2   Mean   :2.018   Mean   :2.006
3rd Qu.:2.00   3rd Qu.:2.000   3rd Qu.:2   3rd Qu.:2.000   3rd Qu.:2.000
Max.   :3.00   Max.   :3.000   Max.   :3   Max.   :3.000   Max.   :3.000

   m8c22_07        m8c22_08        m8c22_09        m8c22_10        m8c22_11
Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   :1.00
1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.00
Median :2.000   Median :2.000   Median :2.000   Median :2.000   Median :2.00
Mean   :1.995   Mean   :2.022   Mean   :1.936   Mean   :2.019   Mean   :1.96
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.00
Max.   :3.000   Max.   :3.000   Max.   :3.000   Max.   :3.000   Max.   :3.00

   m8c22_12        m8c22_13        m8c22_14        m8c22_15       m8c22_16
Min.   :1.000   Min.   :1.000   Min.   :1.000   Min.   :1.00   Min.   :1.000
1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:2.00   1st Qu.:2.000
Median :2.000   Median :2.000   Median :2.000   Median :2.00   Median :2.000
Mean   :2.022   Mean   :1.964   Mean   :1.897   Mean   :1.96   Mean   :1.976
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.00   3rd Qu.:2.000
Max.   :3.000   Max.   :3.000   Max.   :3.000   Max.   :3.00   Max.   :3.000

    m8c2a            m8c2b            m8c2aa            m8c2ab
Min.   : 0.000   Min.   : 0.000   Min.   :   0.00   Min.   :    0.00
1st Qu.: 1.000   1st Qu.: 0.000   1st Qu.:   0.00   1st Qu.:    0.00
Median : 2.000   Median : 0.000   Median :   0.00   Median :    0.00
Mean   : 2.261   Mean   : 2.778   Mean   :  35.38   Mean   :   29.26
3rd Qu.: 3.000   3rd Qu.: 0.000   3rd Qu.:   0.00   3rd Qu.:    0.00
Max.   :12.000   Max.   :25.000   Max.   :1500.00   Max.   :18900.00
NA's   :9376     NA's   :9390
    m8c2ac             m8c2ad             m8c2ae            m8c2af
Min.   :    0.000   Min.   :    0.00   Min.   :    0.0   Min.   :    0.00
1st Qu.:    0.000   1st Qu.:    0.00   1st Qu.:    0.0   1st Qu.:    0.00
Median :    0.000   Median :    0.00   Median :    0.0   Median :    0.00
Mean   :    6.789   Mean   :   36.35   Mean   :   41.4   Mean   :   55.66
3rd Qu.:    0.000   3rd Qu.:    0.00   3rd Qu.:    0.0   3rd Qu.:    0.00
Max.   :30840.000   Max.   :36000.00   Max.   :20000.0   Max.   :52600.00

     m8c3            m8c9           m8c10a           m8c10b
Min.   :1.000   Min.   :1.000   Min.   : 1.000   Min.   : 0.000
1st Qu.:2.000   1st Qu.:1.000   1st Qu.: 5.000   1st Qu.: 5.000
Median :2.000   Median :2.000   Median : 6.000   Median : 6.000
Mean   :1.883   Mean   :1.963   Mean   : 6.057   Mean   : 5.754
3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.: 7.000   3rd Qu.: 7.000
Max.   :2.000   Max.   :9.000   Max.   :12.000   Max.   :12.000
                                NA's   :7803     NA's   :7803
    m8c10c           m8c11a          m8c11b          m8c12a          m8c12b
Min.   : 0.000   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.:2.000   1st Qu.:2.000
```

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 Median : 6.000   Median :2.000   Median :2.000   Median :2.000   Median :2.000
 Mean   : 5.173   Mean   :2.061   Mean   :2.022   Mean   :2.041   Mean   :2.078
 3rd Qu.: 8.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000   3rd Qu.:2.000
 Max.   :12.000   Max.   :4.000   Max.   :4.000   Max.   :4.000   Max.   :4.000
 NA's   :7934
     m8c12c          m8c13            ID                 wt
 Min.   :1.000   Min.   :1.000   Length:9399        Min.   :  344
 1st Qu.:2.000   1st Qu.:2.000   Class :character   1st Qu.: 1827
 Median :2.000   Median :2.000   Mode  :character   Median : 2296
 Mean   :2.051   Mean   :2.055                      Mean   : 2471
 3rd Qu.:2.000   3rd Qu.:2.000                      3rd Qu.: 2868
 Max.   :9.000   Max.   :4.000                      Max.   :21374

     eaid
 Length:9399
 Class :character
 Mode  :character
```

```
## 37 ####  Muc82  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   : 26.0   Min.   :  703   Min.   : 1.000   Min.   :13.00
 1st Qu.:15.00   1st Qu.:140.0   1st Qu.: 4640   1st Qu.: 3.000   1st Qu.:13.00
 Median :38.00   Median :399.0   Median :15973   Median : 6.000   Median :14.00
 Mean   :41.14   Mean   :412.0   Mean   :15145   Mean   : 7.878   Mean   :14.37
 3rd Qu.:62.00   3rd Qu.:615.5   3rd Qu.:23515   3rd Qu.:10.500   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32239   Max.   :45.000   Max.   :21.00

      m8ma           m8c4            m8c5           m8c6a
 Min.   :1.00   Min.   :1.000   Min.   :   500   Min.   : 0.0000
 1st Qu.:1.00   1st Qu.:1.000   1st Qu.:  8000   1st Qu.: 0.6500
 Median :1.00   Median :1.000   Median : 10000   Median : 0.6500
 Mean   :1.07   Mean   :1.354   Mean   : 15549   Mean   : 0.9393
 3rd Qu.:1.00   3rd Qu.:1.000   3rd Qu.: 20000   3rd Qu.: 0.6500
 Max.   :4.00   Max.   :5.000   Max.   :300000   Max.   :20.0000

     m8c6b            m8c7              m8c8            ID
 Min.   :1.000   Min.   :    0.00   Min.   :     0   Length:1175
 1st Qu.:1.000   1st Qu.:    0.00   1st Qu.:  8000   Class :character
 Median :1.000   Median :    0.00   Median : 10000   Mode  :character
 Mean   :1.643   Mean   :   27.78   Mean   : 14718
 3rd Qu.:1.000   3rd Qu.:    0.00   3rd Qu.: 20000
 Max.   :4.000   Max.   :12000.00   Max.   :300000
 NA's   :67
       wt           eaid
 Min.   : 499   Length:1175
 1st Qu.:1620   Class :character
 Median :2060   Mode  :character
 Mean   :2152
 3rd Qu.:2534
 Max.   :8026
```

```
## 38 ####  ttchung  #########
      tinh           huyen             xa            diaban           hoso
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :13.00
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.:13.00
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median :14.00
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   :14.45
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :29.00

    tsphieu       ttnt           dantoc          phdich           dtv
 Min.   :1   Min.   :1.000   Min.   : 1.00   Min.   :1.000   Min.   : 1.00
 1st Qu.:1   1st Qu.:1.000   1st Qu.: 1.00   1st Qu.:2.000   1st Qu.: 6.00
 Median :1   Median :2.000   Median : 1.00   Median :2.000   Median :14.00
 Mean   :1   Mean   :1.712   Mean   : 2.28   Mean   :1.949   Mean   :17.43
 3rd Qu.:1   3rd Qu.:2.000   3rd Qu.: 1.00   3rd Qu.:2.000   3rd Qu.:24.00
 Max.   :1   Max.   :2.000   Max.   :51.00   Max.   :2.000   Max.   :90.00

       dt            ngaydt         thangdt          namdt         tsnguoi
 Min.   : 1.00   Min.   : 1.00   Min.   : 1.000   Min.   :2012   Min.   : 1.0
 1st Qu.: 3.00   1st Qu.:10.00   1st Qu.: 5.000   1st Qu.:2012   1st Qu.: 3.0
 Median : 6.00   Median :17.00   Median : 7.000   Median :2012   Median : 4.0
 Mean   :10.87   Mean   :16.24   Mean   : 7.666   Mean   :2012   Mean   : 3.9
 3rd Qu.:10.00   3rd Qu.:22.00   3rd Qu.:10.000   3rd Qu.:2012   3rd Qu.: 5.0
 Max.   :89.00   Max.   :31.00   Max.   :12.000   Max.   :2013   Max.   :15.0

       ky             m1b1          tsmuc1b          m2act
 Min.   :1.000   Min.   :1.000   Min.   : 1.000   Min.   :      0
 1st Qu.:1.000   1st Qu.:1.000   1st Qu.: 1.000   1st Qu.:      0
 Median :2.000   Median :2.000   Median : 2.000   Median :    860
 Mean   :2.498   Mean   :1.688   Mean   : 2.154   Mean   :   3935
 3rd Qu.:3.000   3rd Qu.:2.000   3rd Qu.: 3.000   3rd Qu.:   3770
 Max.   :4.000   Max.   :2.000   Max.   :12.000   Max.   :1000000
                                 NA's   :6462
     m2atn             m2btn          m3c1           m3ct1
 Min.   :     0.0   Min.   : NA    Min.   :1.000   Min.   :     0
 1st Qu.:     0.0   1st Qu.: NA    1st Qu.:1.000   1st Qu.:     0
 Median :     0.0   Median : NA    Median :1.000   Median :   200
 Mean   :   261.1   Mean   :NaN    Mean   :1.233   Mean   :  1265
 3rd Qu.:     0.0   3rd Qu.: NA    3rd Qu.:1.000   3rd Qu.:  1000
 Max.   :492614.0   Max.   : NA    Max.   :2.000   Max.   :125000
                    NA's   :9399
     m3ct2            m3ct3             m3tn              m3ct
 Min.   :     0   Min.   :    0.0   Min.   :     0.0   Min.   :     0
 1st Qu.:     0   1st Qu.:    0.0   1st Qu.:     0.0   1st Qu.:   445
 Median :     0   Median :    0.0   Median :     0.0   Median :  1150
 Mean   :  1403   Mean   :  249.6   Mean   :   788.2   Mean   :  3547
 3rd Qu.:     0   3rd Qu.:  405.0   3rd Qu.:   299.0   3rd Qu.:  3200
 Max.   :200500   Max.   :10500.0   Max.   :214308.0   Max.   :207420

     m4atn1           m4atn2          m4atn3          m4atn4
 Min.   :     0   Min.   :     0   Min.   :    0   Min.   :    0.00
 1st Qu.:     0   1st Qu.:     0   1st Qu.:    0   1st Qu.:    0.00
 Median :  7200   Median :     0   Median :    0   Median :    0.00
 Mean   : 30925   Mean   :  3143   Mean   : 1643   Mean   :   32.51
```

```
3rd Qu.:  47845   3rd Qu.:  1396   3rd Qu.:    0   3rd Qu.:    0.00
Max.   :1182266   Max.   :273673   Max.   :95714   Max.   :15000.00

    m4atn5            m4atn6           m4atn            m4b0c1
Min.   :    0.0   Min.   :     0   Min.   :     0   Min.   :1.000
1st Qu.:    0.0   1st Qu.:     0   1st Qu.:     0   1st Qu.:1.000
Median :    0.0   Median :     0   Median :  20000   Median :1.000
Mean   :  340.4   Mean   :  3681   Mean   :  39764   Mean   :1.333
3rd Qu.:    0.0   3rd Qu.:     0   3rd Qu.:  57000   3rd Qu.:2.000
Max.   :62724.0   Max.   :169115   Max.   :1455939   Max.   :2.000

    m4b0tn            m4b1a           m4b1b          m4b11t
Min.   :    0.0   Min.   :1.000   Min.   :1      Min.   :    0
1st Qu.:    0.0   1st Qu.:1.000   1st Qu.:2      1st Qu.:    0
Median :    0.0   Median :1.000   Median :2      Median :    0
Mean   :  295.2   Mean   :1.387   Mean   :2      Mean   : 10046
3rd Qu.:    0.0   3rd Qu.:2.000   3rd Qu.:2      3rd Qu.:  9884
Max.   :122896.0   Max.   :2.000   Max.   :2      Max.   :607993
                                   NA's   :5766
    m4b12t           m4b13t           m4b14t            m4b15t
Min.   :    0   Min.   :    0   Min.   :    0.0   Min.   :    0.0
1st Qu.:    0   1st Qu.:    0   1st Qu.:    0.0   1st Qu.:    0.0
Median :    0   Median :    0   Median :    0.0   Median :    0.0
Mean   :  3940   Mean   :  7071   Mean   : 1685.7   Mean   :  276.9
3rd Qu.:  1390   3rd Qu.:    0   3rd Qu.:  211.5   3rd Qu.:  300.0
Max.   :657944   Max.   :1343593   Max.   :799832.0   Max.   :83250.0

    m4b1t            m4b1c           m4b21a          m4b21b
Min.   :    0   Min.   :    0   Min.   :1.000   Min.   :1.000
1st Qu.:    0   1st Qu.:    0   1st Qu.:1.000   1st Qu.:2.000
Median :  6351   Median :  2090   Median :2.000   Median :2.000
Mean   : 23019   Mean   :  9416   Mean   :1.555   Mean   :1.998
3rd Qu.: 22154   3rd Qu.:  7891   3rd Qu.:2.000   3rd Qu.:2.000
Max.   :1343593   Max.   :509689   Max.   :2.000   Max.   :2.000
                                                  NA's   :4178
    m4b21t           m4b21c           m4b22t            m4b22c
Min.   :    0   Min.   :    0   Min.   :    0.00   Min.   :    0.000
1st Qu.:    0   1st Qu.:    0   1st Qu.:    0.00   1st Qu.:    0.000
Median :    0   Median :    0   Median :    0.00   Median :    0.000
Mean   :  11027   Mean   :  7432   Mean   :   32.24   Mean   :    7.486
3rd Qu.:  5600   3rd Qu.:  2866   3rd Qu.:    0.00   3rd Qu.:    0.000
Max.   :3006118   Max.   :2705848   Max.   :34887.00   Max.   :20100.000

    m4b31a          m4b31b        m4b3t             m4b3c
Min.   :1.000   Min.   :2     Min.   :    0.0   Min.   :    0.0
1st Qu.:2.000   1st Qu.:2     1st Qu.:    0.0   1st Qu.:    0.0
Median :2.000   Median :2     Median :    0.0   Median :    0.0
Mean   :1.985   Mean   :2     Mean   :  647.4   Mean   :  326.6
3rd Qu.:2.000   3rd Qu.:2     3rd Qu.:    0.0   3rd Qu.:    0.0
Max.   :2.000   Max.   :2     Max.   :1009549.0   Max.   :443027.0
                NA's   :141
    m4b41a          m4b41b        m4b4t             m4b4c
Min.   :1.000   Min.   :2     Min.   :    0   Min.   :    0.0
1st Qu.:2.000   1st Qu.:2     1st Qu.:    0   1st Qu.:    0.0
Median :2.000   Median :2     Median :    0   Median :    0.0
Mean   :1.784   Mean   :2     Mean   :  1103   Mean   :  175.8
```

```
3rd Qu.:2.000   3rd Qu.:2      3rd Qu.:       0   3rd Qu.:      0.0
Max.   :2.000   Max.   :2      Max.   :1025468   Max.   :307641.0
                NA's   :2032
   m4b5c1a         m4b5c1b         m4b5t              m4b5c
Min.   :1.000   Min.   :1      Min.   :       0   Min.   :       0
1st Qu.:2.000   1st Qu.:2      1st Qu.:       0   1st Qu.:       0
Median :2.000   Median :2      Median :       0   Median :       0
Mean   :1.822   Mean   :2      Mean   :    6261   Mean   :    4006
3rd Qu.:2.000   3rd Qu.:2      3rd Qu.:       0   3rd Qu.:       0
Max.   :2.000   Max.   :2      Max.   :10042027   Max.   :9366825
                NA's   :1671
     m4c1            m4ctt              m4ct              m4cct
Min.   :1.000   Min.   :       0   Min.   :       0   Min.   :       0
1st Qu.:1.000   1st Qu.:       0   1st Qu.:       0   1st Qu.:       0
Median :2.000   Median :       0   Median :       0   Median :       0
Mean   :1.675   Mean   :   47792   Mean   :   47124   Mean   :   28010
3rd Qu.:2.000   3rd Qu.:   23762   3rd Qu.:   23646   3rd Qu.:    3602
Max.   :2.000   Max.   :14965439   Max.   :14965439   Max.   :14663729

     m4cc              m4dtn              m5a1ct          m5a1c4
Min.   :       0   Min.   : -27910.0   Min.   :    0   Min.   :    0
1st Qu.:       0   1st Qu.:    542.5   1st Qu.: 1402   1st Qu.: 1068
Median :       0   Median :   2393.0   Median : 2304   Median : 1829
Mean   :   27595   Mean   :  10462.4   Mean   : 2759   Mean   : 2275
3rd Qu.:    3600   3rd Qu.:   9795.0   3rd Qu.: 3535   3rd Qu.: 2938
Max.   :14663729   Max.   :3130816.0   Max.   :39850   Max.   :39850

    m5a1c5           m5a2ct          m5a2c6          m5a2c7
Min.   :    0.0   Min.   :    0   Min.   :    0   Min.   :   0.0
1st Qu.:    0.0   1st Qu.: 1600   1st Qu.: 1126   1st Qu.:   0.0
Median :  195.0   Median : 2426   Median : 1994   Median : 145.0
Mean   :  483.6   Mean   : 2872   Mean   : 2494   Mean   : 335.2
3rd Qu.:  650.0   3rd Qu.: 3626   3rd Qu.: 3269   3rd Qu.: 555.0
Max.   :11770.0   Max.   :31470   Max.   :31054   Max.   :5955.0

    m5a2c8           m5b1ct           m5b1c6           m5b1c7
Min.   :   0.00   Min.   :    0.0   Min.   :    0.0   Min.   :   0.00
1st Qu.:   0.00   1st Qu.:  393.0   1st Qu.:  314.5   1st Qu.:   0.00
Median :   0.00   Median :  661.0   Median :  596.0   Median :   0.00
Mean   :  42.74   Mean   :  843.2   Mean   :  780.3   Mean   :  58.74
3rd Qu.:   0.00   3rd Qu.: 1060.0   3rd Qu.: 1005.0   3rd Qu.:  70.00
Max.   :8660.00   Max.   :13283.0   Max.   :13283.0   Max.   :4320.00

    m5b1c8           m5b2ct           m5b2c4          m5b2c5
Min.   :   0.000   Min.   :    0   Min.   :    0   Min.   :    0.0
1st Qu.:   0.000   1st Qu.:  1995   1st Qu.:  1910   1st Qu.:    0.0
Median :   0.000   Median :  3782   Median :  3695   Median :    0.0
Mean   :   4.251   Mean   :  5731   Mean   :  5599   Mean   :  131.8
3rd Qu.:   0.000   3rd Qu.:  6789   3rd Qu.:  6680   3rd Qu.:    0.0
Max.   :3107.000   Max.   :278150   Max.   :242255   Max.   :60000.0

    m5b3ct           m6c7            thunhap           thubq
Min.   :    0   Min.   :    0   Min.   :  1440   Min.   :  120
1st Qu.: 1190   1st Qu.:    0   1st Qu.: 39823   1st Qu.:  935
Median : 2640   Median :    0   Median : 69720   Median : 1599
Mean   : 4472   Mean   :  4629   Mean   : 92506   Mean   : 2096
```

```
3rd Qu.:  5111   3rd Qu.:   2300   3rd Qu.: 115179   3rd Qu.:  2582
Max.   :377547   Max.   :1205350   Max.   :6050203   Max.   :126046

  tongthu_01         tongthu_02         tongthu_03         tongthu_04
Min.   :    1830   Min.   :     0.0   Min.   :     0.0   Min.   :      0
1st Qu.:   50169   1st Qu.:     0.0   1st Qu.:     0.0   1st Qu.:      0
Median :   87459   Median :     0.0   Median :     0.0   Median :  20000
Mean   :  141465   Mean   :   261.1   Mean   :   788.2   Mean   :  39764
3rd Qu.:  150910   3rd Qu.:     0.0   3rd Qu.:   299.0   3rd Qu.:  57000
Max.   :15070399   Max.   :492614.0   Max.   :214308.0   Max.   :1455939

  tongthu_05         tongthu_06        tongthu_07        tongthu_08
Min.   :     0.0   Min.   :      0   Min.   :      0   Min.   :    0.00
1st Qu.:     0.0   1st Qu.:      0   1st Qu.:      0   1st Qu.:    0.00
Median :     0.0   Median :   6351   Median :      0   Median :    0.00
Mean   :   295.2   Mean   :  23019   Mean   :  11027   Mean   :   32.24
3rd Qu.:     0.0   3rd Qu.:  22154   3rd Qu.:   5600   3rd Qu.:    0.00
Max.   :122896.0   Max.   :1343593   Max.   :3006118   Max.   :34887.00

  tongthu_09          tongthu_10        tongthu_11         tongthu_12
Min.   :      0.0   Min.   :      0   Min.   :       0   Min.   :       0
1st Qu.:      0.0   1st Qu.:      0   1st Qu.:       0   1st Qu.:       0
Median :      0.0   Median :      0   Median :       0   Median :       0
Mean   :    647.4   Mean   :   1103   Mean   :    6261   Mean   :   47124
3rd Qu.:      0.0   3rd Qu.:      0   3rd Qu.:       0   3rd Qu.:   23646
Max.   :1009549.0   Max.   :1025468   Max.   :10042027   Max.   :14965439

  tongthu_13          tongthu_14          chisxkd_1          chisxkd_2
Min.   : -27910.0   Min.   :      0.0   Min.   :       0   Min.   :    0
1st Qu.:    542.5   1st Qu.:      0.0   1st Qu.:    1568   1st Qu.:    0
Median :   2393.0   Median :      0.0   Median :   10230   Median : 2090
Mean   :  10462.4   Mean   :    681.9   Mean   :   48959   Mean   : 9416
3rd Qu.:   9795.0   3rd Qu.:      0.0   3rd Qu.:   30656   3rd Qu.: 7891
Max.   :3130816.0   Max.   :1313629.0   Max.   :14663729   Max.   :509689

  chisxkd_3          chisxkd_4          chisxkd_5          chisxkd_6
Min.   :      0   Min.   :    0.000   Min.   :     0.0   Min.   :     0.0
1st Qu.:      0   1st Qu.:    0.000   1st Qu.:     0.0   1st Qu.:     0.0
Median :      0   Median :    0.000   Median :     0.0   Median :     0.0
Mean   :   7432   Mean   :    7.486   Mean   :   326.6   Mean   :   175.8
3rd Qu.:   2866   3rd Qu.:    0.000   3rd Qu.:     0.0   3rd Qu.:     0.0
Max.   :2705848   Max.   :20100.000   Max.   :443027.0   Max.   :307641.0

  chisxkd_7          chisxkd_8          chikhac_1          chikhac_2
Min.   :      0   Min.   :       0   Min.   :      0   Min.   :    0
1st Qu.:      0   1st Qu.:       0   1st Qu.:      0   1st Qu.:  445
Median :      0   Median :       0   Median :    860   Median : 1150
Mean   :   4006   Mean   :   27595   Mean   :   3935   Mean   : 3547
3rd Qu.:      0   3rd Qu.:    3600   3rd Qu.:   3770   3rd Qu.: 3200
Max.   :9366825   Max.   :14663729   Max.   :1000000   Max.   :207420

  chikhac_3         chikhac_4         chikhac_5          chikhac_6
Min.   :    0   Min.   :    0   Min.   :    0.0   Min.   :    0
1st Qu.: 1402   1st Qu.: 1600   1st Qu.:  393.0   1st Qu.: 1995
Median : 2304   Median : 2426   Median :  661.0   Median : 3782
Mean   : 2759   Mean   : 2872   Mean   :  843.2   Mean   : 5731
```

```
 3rd Qu.: 3535   3rd Qu.: 3626   3rd Qu.: 1060.0   3rd Qu.:  6789
 Max.   :39850   Max.   :31470   Max.   :13283.0   Max.   :278150

  chikhac_7        chikhac_8         chikhac_9          m1c1
 Min.   :     0   Min.   :      0   Min.   :     0   Min.   :1.000
 1st Qu.:  1190   1st Qu.:      0   1st Qu.:   720   1st Qu.:1.000
 Median :  2640   Median :      0   Median :  1560   Median :2.000
 Mean   :  4472   Mean   :   4629   Mean   :  3464   Mean   :1.556
 3rd Qu.:  5111   3rd Qu.:   2300   3rd Qu.:  3180   3rd Qu.:2.000
 Max.   :377547   Max.   :1205350   Max.   :204440   Max.   :2.000

   tinh2010       huyen2010         xa2010        diaban2010       hoso2010
 Min.   : 0.00   Min.   :  1.0   Min.   :    7   Min.   : 1.00   Min.   : 1.00
 1st Qu.: 0.00   1st Qu.:260.0   1st Qu.: 9337   1st Qu.: 4.00   1st Qu.:13.00
 Median : 0.00   Median :482.0   Median :20107   Median : 8.00   Median :14.00
 Mean   :21.75   Mean   :494.5   Mean   :18009   Mean   :10.54   Mean   :14.39
 3rd Qu.:40.00   3rd Qu.:741.0   3rd Qu.:26425   3rd Qu.:14.00   3rd Qu.:15.00
 Max.   :96.00   Max.   :973.0   Max.   :32242   Max.   :91.00   Max.   :20.00
                 NA's   :5226    NA's   :5226    NA's   :5226    NA's   :5226
   ttnt2010        ghepho           ID                  wt
 Min.   :1.00   Min.   :0.000   Length:9399        Min.   :  344
 1st Qu.:1.00   1st Qu.:0.000   Class :character   1st Qu.: 1827
 Median :2.00   Median :0.000   Mode  :character   Median : 2296
 Mean   :1.74   Mean   :0.444                      Mean   : 2471
 3rd Qu.:2.00   3rd Qu.:1.000                      3rd Qu.: 2868
 Max.   :2.00   Max.   :1.000                      Max.   :21374
 NA's   :5226
    eaid
 Length:9399
 Class :character
 Mode  :character
```

```
## 39 ####  wt2012new1  #########
      tinh           huyen             xa            diaban           wt9
 Min.   : 1.00   Min.   :  1.0   Min.   :    4   Min.   :  1.00   Min.   :  344
 1st Qu.:26.00   1st Qu.:271.0   1st Qu.: 9646   1st Qu.:  4.00   1st Qu.: 1827
 Median :48.00   Median :493.0   Median :20260   Median :  8.00   Median : 2296
 Mean   :49.74   Mean   :501.7   Mean   :18258   Mean   : 10.93   Mean   : 2471
 3rd Qu.:77.00   3rd Qu.:747.0   3rd Qu.:26545   3rd Qu.: 15.00   3rd Qu.: 2868
 Max.   :96.00   Max.   :973.0   Max.   :32248   Max.   :101.00   Max.   :21374
    xaid              eaid
 Length:3133        Length:3133
 Class :character   Class :character
 Mode  :character   Mode  :character
```

5.3 Frequency table of categorical variables

Data check of categorical variables

```
> # file.names: Rnames[j]
> # file.list: lss2012[[j]]  j=1 to 39
> # variable.labels: var.names[[j]]
> # list of column numbers of categorical variables

> check.list<-list()
> check.list[[1]]<-c(38,40,41)
> check.list[[2]]<-c(7,8,12,14,15)
> check.list[[3]]<-c(7,8,11,12,15,16,21,22,24,25,30,31,33,35,40:42,44,46,51,52,57,60)
> check.list[[4]]<-c(7,9,11,12,15)
> check.list[[5]]<-c(8:13,15:18,32,33)
> check.list[[6]]<-c(9,10,15)
> check.list[[7]]<-c(7:9,11,12)
> check.list[[8]]<-c(7:10,16,17,20:22,27:30,36,37,40,41,46,48)
> check.list[[9]]<-c(7,9,11,16)
> check.list[[10]]<-c()
> check.list[[11]]<-c(6)
> check.list[[12]]<-c(6)
> check.list[[13]]<-c(6)
> check.list[[14]]<-c(6,8)
> check.list[[15]]<-c(6)
> check.list[[16]]<-c(6)
> check.list[[17]]<-c(6)
> check.list[[18]]<-c(6)
> check.list[[19]]<-c(6)
> check.list[[20]]<-c(6)
> check.list[[21]]<-c(6)
> check.list[[22]]<-c(6)
> check.list[[23]]<-c(6)
> check.list[[24]]<-c(6)
> check.list[[25]]<-c(7,9,12,13,17,19,21)
> check.list[[26]]<-c()
> check.list[[27]]<-c()
> check.list[[28]]<-c(6,7)
> check.list[[29]]<-c(6,7)
> check.list[[30]]<-c(6)
> check.list[[31]]<-c()
> check.list[[32]]<-c()
> check.list[[33]]<-c()
> check.list[[34]]<-c()
> check.list[[35]]<-c(8:15,20,24,25,27:29,31,32,36)
> check.list[[36]]<-c(6:17,19:33,35:45,54:64)
> check.list[[37]]<-c(7,10)
> check.list[[38]]<-c(7,9,17,22,35,37,38,46,47,52,53,56,57,60,61,64,119,126)
> check.list[[39]]<-c()


> var.names<-list()
> for(j in 1:39){
+ var.names<-c(var.names,list(attributes(lss2012[[j]])$var.labels))
+ }
```

```
> length(var.names)
[1] 39


> for(j in 1:39){
+ if(length(check.list[[j]])==0){ next }
+ cat(c("¥n¥n","#### FREQUENCY OF VARIABLES IN ",j, ": ",Rnames[j],
+ "################################"),"¥n¥n")
+ for(k in check.list[[j]]){
+ variable.name<-colnames(lss2012[[j]])[k]
+ variable.label<-var.names[[j]][k]
+ cat(c("---",k,": ",variable.name,": ",variable.label,"------------- "))
+ print(table(lss2012[[j]][k],useNA="ifany"))
+ }}



 #### FREQUENCY OF VARIABLES IN  1 :  hhexpe12 ################################

--- 38 :  urban12 :  Khu v □ -------------
   0    1
6696 2703
--- 40 :  reg8Paul :   -------------
   1    2    3    4    5    6    7    8
1845 1365  444  978  852  651 1359 1905
--- 41 :  reg6 :   -------------
   1    2    3    4    5    6
1992 1662 2067  651 1122 1905


 #### FREQUENCY OF VARIABLES IN  2 :  muc1a ################################

--- 7 :  m1ac2 :  Sex -------------
    1     2
18034 18621
--- 8 :  m1ac3 :  Relationship -------------
    1     2     3     4     5     6     7     9
 9399  7450 15598   854    35  2442   876     1
--- 12 :  m1ac6 :  Marital status -------------
    1     2     3     4     5  <NA>
 8084 18585  1946   331   128  7581
--- 14 :  m1ac8 :  Reason of not staying in the household for more than 6 months -------------
    1     2     3     4     5     6  <NA>
  943     7     7   405    89   153 35051
--- 15 :  m1ac9 :  Place of household status registration -------------
    1     2     3     4     5
35642   524   465     5    19


 #### FREQUENCY OF VARIABLES IN  3 :  muc1b ################################

--- 7 :  m1bc3 :  Sex -------------
   1    2
2893 3432
--- 8 :  m1bc4 :  Relationship -------------
```

```
   2    3    4    5    6    7    8    9
 123 5467   56    1  301  201   55  121
--- 11 :  m1bc7a :  Qualification of universalized education and higher education ------------
-
  -1    0    1    2    3    8    9   10   11   12 <NA>
   1  585 1464 1705 1394  209  600   19    3    3  342
--- 12 :  m1bc7b :  Qualification of vocational education -------------
   0    4    5    6    7 <NA>
5201  287  176  260   59  342
--- 15 :  m1bc10 :  Main reason of leaving from household at the first time -------------
   1    2    3    4    5    6    7 <NA>
1717  480 2496 1093   39  157  147  196
--- 16 :  m1bc11 :  Get job before leaving from household -------------
   1    2    3 <NA>
4308 1014  807  196
--- 21 :  m1bc12b :  Industry code -------------
   2    3    5    6    7    8   10   11   12   13   14   15   16   17   18   20   21
  12   79    3    3    1    6   86   57    2   14  182   69   42    9    3    7    3
  22   23   24   25   26   27   28   29   30   31   32   33   35   36   38   41   42
  13   44    7   33   24    8    4    5    4   45   14    4   14    6    1  159   18
  43   45   46   47   49   50   52   53   55   56   58   60   61   62   63   64   65
   7   36   58  185   54    3   11    4    4   77    1    9    5    2    2   22    2
  69   70   71   72   74   79   80   82   84   85   86   87   90   92   93   94   95
   2    1    5    2    5    5    4    2   77  151   26    2    4    3    5    1    9
  96   97   98   99  110  140  160 <NA>
  36    9    1    1 2403   56   35 2017
--- 22 :  m1bc13 :  Destination -------------
   1    2    3    4 <NA>
2361 1426 2102  240  196
--- 24 :  m1bc15 :  Get job in new place -------------
   1    2    3 <NA>
4933  635  561  196
--- 25 :  m1bc16 :  Is it similar with the job before moving from household -------------
   1    2 <NA>
3147 1786 1392
--- 30 :  m1bc17b :  Industry code -------------
   2    3    5    6    7    8   10   11   12   13   14   15   16   17   18   19   20
  14   29    1    3    1    2   59    5    1    9  188  125   48   14    6    2    4
  21   22   23   24   25   26   27   28   29   30   31   32   33   35   36   38   41
   2   26   16    4   46   56   18    8    1    5   31   17   11    9    1    1   99
  42   43   45   46   47   49   50   51   52   53   55   56   58   61   62   63   64
  13   17   25   38  182   28    7    1    3    1   10  124    1   10    4    2    9
  65   68   69   70   71   72   73   74   75   78   79   80   82   84   85   86   87
   2    3    2    1    5    2    3    2    3    2    1    3    4   88   53   17    7
  90   92   93   94   95   96   97  110  140  160 <NA>
   1    2    2    1    2   39   55  121   21    7 4539
--- 31 :  m1bc18 :  Get job in 6 months after study finishing -------------
   1    2    3 <NA>
 344  176  115 5690
--- 33 :  m1bc20 :  Place of work -------------
   1    2    3    4 <NA>
  26  104  207    7 5981
--- 35 :  m1bc22 :  Similar or not with the job before moving -------------
   1    2 <NA>
  21  323 5981
--- 40 :  m1bc23b :  Industry code -------------
```

```
   2    5    7   10   11   13   14   15   16   17   20   21   22   23   24   25   26
   2    4    2    6    5    1    9    2    2    5    3    1    5    5    5    5    7
  27   28   30   31   32   33   35   36   37   41   42   43   45   46   47   49   50
   1    2    1    3    1    1    2    2    1   12   13    7    3   14   11    4    3
  51   52   55   56   58   60   61   62   64   66   69   71   72   74   79   84   85
   1    1    3    5    1    1    6    2    6    3    2    5    1    2    3   51   51
  86   90   94   95   96  110  140 <NA>
  10    2    1    1    4    9    2 6002
--- 41 :  m1bc24 :  Still continuing this work -------------
   1    2 <NA>
 267   56 6002
--- 42 :  m1bc25 :  Get job in the last 6 months -------------
   1    2 <NA>
5152  595  578
--- 44 :  m1bc27 :  Current living place -------------
   1    2    3    4 <NA>
2158 1248 1814  199  906
--- 46 :  m1bc29 :  Similar or not with work before moving from household -------------
   1    2 <NA>
3205 2214  906
--- 51 :  m1bc30b :  Industry code -------------
   2    3    5    6    7    8   10   11   12   13   14   15   16   17   18   20   21
  14   35    4    4    3    6   64    8    2    8  178  119   50   20    7    8    5
  22   23   24   25   26   27   28   29   30   31   32   33   35   36   38   41   42
  33   30   10   52   58   11    8    5    6   41   18   12    9    4    3  108   25
  43   45   46   47   49   50   51   52   53   55   56   58   60   61   62   63   64
  26   30   74  247   56    6    2    6    1   15  140    2    1   14   10    1   19
  65   66   68   69   70   71   72   73   74   75   78   79   80   81   82   84   85
   3    2    4    3    1    8    3    3    5    3    2    3    1    2    5  116  105
  86   87   90   91   92   93   94   95   96   97   98  110  140  160 <NA>
  33    5    3    1    4    3    1    7   62   27    1  143   25   12 4111
--- 52 :  m1bc31 :  Current living place -------------
   1    2    3    4    5    6 <NA>
1040   90  151  140  720   73 4111
--- 57 :  m1bc35 :  Intention of coming back home -------------
   1    2    3    4    9 <NA>
 145  964 4255  761    4  196
--- 60 :  m1bc38 :  Register household status with the household -------------
   1    2    3    4 <NA>
1883 2226  747 1273  196


 #### FREQUENCY OF VARIABLES IN  4 :  muc1c ##############################

--- 7 :  m1cc4 :  Sex -------------
   1    2 <NA>
8254 8498   24
--- 9 :  m1cc6 :  Being household member this year -------------
    1     2  <NA>
15304  1448    24
--- 11 :  m1cc8 :  Reason of not living in the household anymore -------------
    1     2     3  <NA>
 1188   161    99 15328
--- 12 :  m1cc9 :  Reason of moving out of the household -------------
    1     2     3     4     5     6  <NA>
  253   283   424    37   148    43 15588
```

```
--- 15 :  ghep :  Household member status between VHLSS 2010 and VHLSS 2012 -------------
    0     1     9  <NA>
 1448 15255    49    24


 #### FREQUENCY OF VARIABLES IN  5 :  Muc2 ##############################

--- 8 :  m2c2a :  The highest qualification - General education and college-level upwards ----
---------
   0    1    2    3    8    9   10   11   12 <NA>
8308 8655 8110 5473  498 1338   69   20    8 4176
--- 9 :  m2c2b :  The highest qualification - Vocational training -------------
    0     4     5     6     7  <NA>
29914   964   523   974   104  4176
--- 10 :  m2c3 :  Type of school -------------
    1     2     3     4     5  <NA>
31906   219   215    80    59  4176
--- 11 :  m2c4 :  Go to school now? -------------
    1     2     3  <NA>
 7383  1839 23257  4176
--- 12 :  m2c5 :  Attend school over the past 12 months? -------------
    1     2  <NA>
  335 22922 13398
--- 13 :  m2c6 :  Level of education -------------
    0     1     2     3     4     5     6     7     8     9    10    11    12  <NA>
 1188  3029  2229  1419    30    85   151    79   375   930    25     1    16 27098
--- 15 :  m2c8 :  Which school does [name] attend? -------------
    1     2     3     4     9  <NA>
 9068   275   156    57     1 27098
--- 16 :  m2c9 :  Reduction of or exemption from tuition fees or contributions to education? -
------------
    1     2  <NA>
 4659  4898 27098
--- 17 :  m2c10a :  Reasons for reduction/exemption from tuition fees? -------------
    0     1     2     3     4     5     6     7     8     9  <NA>
   10   660   383     8    54   619    31  2554   206   134 31996
--- 18 :  m2c10b :  Reasons for reduction/exemption from contribution? -------------
    0     1     2     3     4     5     6     8     9  <NA>
 3447   497   284     1    22   291    26    34    57 31996
--- 32 :  m2c15a :  Toys bought in shops -------------
    1     2  <NA>
 1926   869 33860
--- 33 :  m2c15b :  Self-made toys -------------
    1     2  <NA>
  456  2339 33860


 #### FREQUENCY OF VARIABLES IN  6 :  Muc3A ##############################

--- 9 :  m3c3b :  Medical establishment code -------------
   1    2    3    4    5    6    7    8    9   10   11   12   13
 180 3951  560 4004 2797  889  297  609   26 3157  184 1376  183
--- 10 :  m3c4 :  Reasons for medical establishments visit? -------------
    1     2     3     4
 1035   817  3293 13068
--- 15 :  m3c7 :  Did the household afford the medical check/treatment? -------------
```

```
    1     2     3
17416   671   126


 #### FREQUENCY OF VARIABLES IN  7 :  Muc3B ##############################

--- 7 :  m3c9 :  Health insurance card in the last 12 months -------------
    1     2
24071 12584
--- 8 :  m3c10a :  The first type -------------
    1     2     3     4     5     6     7     8     9    10  <NA>
 2943  3836   568  2327  2472  2639  1083  5131  2730   342 12584
--- 9 :  m3c10b :  The second type -------------
    0     1     2     3     4     5     6     7     8     9    10  <NA>
23632    46    91    20    48    76    22    10    51    36    39 12584
--- 11 :  m3c12a :  Out-service -------------
    1     2  <NA>
 6761 17310 12584
--- 12 :  m3c12b :  In-service -------------
    1     2  <NA>
 1890 22181 12584


 #### FREQUENCY OF VARIABLES IN  8 :  Muc4A ##############################

--- 7 :  m4ac1a :  waged/salaried employment -------------
    1     2  <NA>
 9847 23424  3384
--- 8 :  m4ac1b :  Self-employment in agriculture, forestry, aquaculture -------------
    1     2  <NA>
13458 19813  3384
--- 9 :  m4ac1c :  Self-engagement in production, business, services -------------
    1     2  <NA>
 4669 28602  3384
--- 10 :  m4ac2 :  Having job? -------------
    1     2  <NA>
22077 11194  3384
--- 16 :  m4ac4 :  Industry code -------------
    2     3     5     6     7     8     9    10    11    12    13    14    15    16
  197   648    46     5    19    36     2   557   382     6    75   585   240   295
   17    18    19    20    21    22    23    24    25    26    27    28    29    30
   44    22     4    37    21    76   164    46   182    90    25    19    13    34
   31    32    33    35    36    37    38    39    41    42    43    45    46    47
  238    62    26    46    19     5    40     3  1249   107    66   160   473  1733
   49    50    51    52    53    55    56    58    59    60    61    62    63    64
  463    41     7    40    10    63   740    15     2    13    53    11     5    74
   65    66    68    69    70    71    72    73    74    75    77    78    79    80
   21     2    43    11     7    26     3    10    25     5    17     5     9    10
   81    82    84    85    86    87    88    90    91    92    93    94    95    96
   11    18   663   716   177     8     2    20     6    49    29     6    80   229
   97    98    99   110   140   160   170  <NA>
  111     5     2  8555  1359   200     3 14578
--- 17 :  m4ac5 :  Perform the job over the last 30 days -------------
    1     2     9  <NA>
20637  1438     2 14578
--- 20 :  m4ac8a :  8a.Economic types -------------
```

```
    1     2     3     4     5     6  <NA>
12847  4691    64  1821  2098   556 14578
--- 21 :  m4ac8b :  8b.Being a public employee, public or civil servant? -------------
    1     2  <NA>
 1526   572 34557
--- 22 :  m4ac9 :  Receive salaries, wages for this job? -------------
    1     2  <NA>
 7983 14094 14578
--- 27 :  m4ac13a :  Signing a payroll book? -------------
    1     2  <NA>
 3782  4201 28672
--- 28 :  m4ac13b :  Paid leave/holidays? -------------
    1     2  <NA>
 3350  4633 28672
--- 29 :  m4ac13c :  Social insurance? -------------
    1     2  <NA>
 3150  4833 28672
--- 30 :  m4ac14 :  Any other jobs? -------------
    1     2  <NA>
10082 11995 14578
--- 36 :  m4ac16 :  Industry code -------------
    2     3     7     8     9    10    11    12    13    14    15    16    17    18
  933   500    18    21     2   199   244     4    17   126    18    79     3     2
   19    20    22    23    24    25    26    27    28    30    31    32    33    35
    1     4     5    30     4    16     5     4     2     1    17    13     3     3
   36    38    41    42    43    45    46    47    49    50    52    55    56    60
    3     7   297    24    13    13    74   212    69    10    21    16   101     1
   61    62    63    64    65    66    68    69    71    74    75    77    81    82
    4     2     1     3     3     2    13     1     1     1     3     5     3     3
   84    85    86    88    90    91    92    93    94    95    96    97    98   110
  131    32    24     1     1     2     4    10     5     9    46    25     1  3950
  140   160   170  <NA>
 2499   154     8 26573
--- 37 :  m4ac17 :  Perform the job over the last 30 days? -------------
    1     2  <NA>
 8319  1763 26573
--- 40 :  m4ac20 :  For which organizations/individuals? -------------
    1     2     3     4     5     6  <NA>
 8780   873    19   184   200    26 26573
--- 41 :  m4ac21 :  Receive wage/salary? -------------
    1     2  <NA>
 1778  8304 26573
--- 46 :  m4ac25 :  Take any other waged/salaried job? -------------
    1     2  <NA>
  777  9305 26573
--- 48 :  m4ac27 :  Receive unemployment benefits, one-off severance pays, pensions? ---------
----
    1     2  <NA>
 1172 26703  8780


 #### FREQUENCY OF VARIABLES IN  9 :  Muc4A2 ##############################

--- 7 :  m4a2c1 :  Moving out of the household -------------
    1     2
  529 36126
```

```
--- 9 :  m4a2c3 :  Destination -------------
    1     2     3     4  <NA>
    9    63   400    57 36126
--- 11 :  m4a2c5 :  The most time-consuming job -------------
    1     2     3     4  <NA>
  240    15   243    31 36126
--- 16 :  m4a2c6b :  Industry code -------------
    2     3     7    10    11    13    14    15    16    17    20    22    23    25
    3     2     1     8     2     1    25    16     7     1     1     6     3     7
   26    27    28    30    31    32    33    41    42    43    45    46    47    49
    4     3     1     1     8     9     2    22     6     2     2     2    16     3
   52    55    56    60    61    62    74    78    84    85    93    94    95    96
    3     2    18     1     1     1     1     1     4     1     2     1     1     5
   97   110   140   160  <NA>
   13    16     7     1 36412


 #### FREQUENCY OF VARIABLES IN  11 :  Muc4B11 ##############################

--- 6 :  m4b11ma :  -------------
   1    2    3    4    5    6    7
3445 1360 2741  158  156  999  231


 #### FREQUENCY OF VARIABLES IN  12 :  Muc4B12 ##############################

--- 6 :  m4b12ma :  Order number -------------
   8    9   10   11   12   13   14   15   16   17   18   19   20   21
1532  319  943   46   98 1288  708  875 2051  559  133  783 1804  751


 #### FREQUENCY OF VARIABLES IN  13 :  Muc4B13 ##############################

--- 6 :  m4b13ma :  Order number -------------
 22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38
241 635  34 206  43   9   8  14  21 241 315  79 145 412  17 191  38


 #### FREQUENCY OF VARIABLES IN  14 :  Muc4B14 ##############################

--- 6 :  m4b14ma :  Order number -------------
  39   40   41   42   43   44   45   46   47   48   49   50   51   52   53   54
 596  101 1604  702   54    5  154  484  728  106  254  623   15  655  117    5
--- 8 :  m4b14c3b :  Code -------------
   1    2
 907 5296


 #### FREQUENCY OF VARIABLES IN  15 :  Muc4B15 ##############################

--- 6 :  m4b15ma :  Code of crop by-products -------------
   1    2    3    4    5    6    7    8    9   10
2495  314 1004  169   98    2   10 1144  394  448


 #### FREQUENCY OF VARIABLES IN  16 :  Muc4B16 ##############################
```

```
--- 6 :  m4b16ma :  Order number -------------
   1    2    3    4    5    6    7    8   10   11   12   13   14   15   16   17   18
4773 2068 5399 2090  619 4636 4137 5084  919 2123  560 3510  582 2878 1747  205 2939
  91   92   93   94   95   96   97   98   99  910  911
 804    9    8  952   10   53  606    7    1   34   61


 #### FREQUENCY OF VARIABLES IN  17 :  Muc4B21 ##############################

--- 6 :  m4b21ma :  Order number -------------
   1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17
1506  302    1   50 3408  936   34  634  190  285  198 2083    7   20   26   15   78
  18   19
1659  121


 #### FREQUENCY OF VARIABLES IN  18 :  Muc4B22 ##############################

--- 6 :  m4b22ma :  Order number -------------
   1    2    3    4    5    6    7    8    9   10   11
1869  481    2   46 3454  973   30   20   20  225  116


 #### FREQUENCY OF VARIABLES IN  19 :  Muc4B31 ##############################

--- 6 :  m4b31ma :  Order number -------------
  1   2   3   4   5
100   6   3  41  12


 #### FREQUENCY OF VARIABLES IN  20 :  Muc4B32 ##############################

--- 6 :  m4b32ma :   -------------
  1   2   3   4   5
101   6   3  40  12


 #### FREQUENCY OF VARIABLES IN  21 :  Muc4B41 ##############################

--- 6 :  m4b41ma :   -------------
   1    2    3    4    5    6    7    8    9   10   11   12   13   14
  18   13   31    8    3  178  400   23   32  113 1894   11  589   73


 #### FREQUENCY OF VARIABLES IN  22 :  Muc4B42 ##############################

--- 6 :  m4b42ma :   -------------
   1    2
2025   70


 #### FREQUENCY OF VARIABLES IN  23 :  Muc4B51 ##############################

--- 6 :  m4b51ma :  Order number -------------
 11  12  13  14  21  22  23
```

```
893 202  28 136 735 110 316


 #### FREQUENCY OF VARIABLES IN  24 :  Muc4B52 ##############################

--- 6 :  m4b52ma :  Order number -------------
  1   2
972 841


 #### FREQUENCY OF VARIABLES IN  25 :  Muc4C1 ##############################

--- 7 :  m4c1c2 :  Industry code -------------
   5    7    8   10   11   13   14   15   16   17   18   20   22   23   24   25   26
   2    7   15  263  180   17  143    3  139   12    5    1    3   14   11   47    1
  28   29   30   31   32   33   35   36   38   41   42   43   45   46   47   49   50
   2    1    1   63   10    8    6    3   12   30    8   10   97  191 1238  285   21
  52   55   56   61   62   63   64   66   68   71   73   74   75   77   78   82   85
   6   27  439   12    6    2    6    1   33    4    1    5    4   12    1    8   28
  86   87   90   92   93   95   96   97   98
  25    1    5   12   16   59  138    4    1
--- 9 :  m4c1c4 :  HH's member possess this entire acitivity? -------------
   1    2
3672   33
--- 12 :  m4c1c7 :  registered for business? -------------
   1    2    3
 103 1127 2475
--- 13 :  m4c1c8 :  The products are for selling/bartering/supplying services? -------------
   1    2 <NA>
2094   85 1526
--- 17 :  m4c1c11 :  goods and services exchange? -------------
   1    2 <NA>
  13 2081 1611
--- 19 :  m4c1c13 :  Any product used or consumed by the household? -------------
   1    2 <NA>
 690 1489 1526
--- 21 :  m4c1c15 :  Any by-products used or sold by the household? -------------
   1    2
 664 3041


 #### FREQUENCY OF VARIABLES IN  28 :  Muc5A1 ##############################

--- 6 :  m5a1ma :  Code -------------
  101   102   110   111   112   113   114   115   116   118   120   121   124   134
 3942  6900  9159  4284   399  8380  3111   799  5891 16122  1080  8431  6362  8513
  139   140   144   145   146   148   150   151   153   154
 7928  8891  7599  4874  5169  2706  7196  5823  4250  8396
--- 7 :  m5a1ma1 :  1. Ma so trong do -------------
     1      2   <NA>
  2875   6342 136988


 #### FREQUENCY OF VARIABLES IN  29 :  Muc5A2 ##############################

--- 6 :  m5a2ma :  Code -------------
```

```
  101   102   103   104   105   106   107   108   109   110   111   112   113   114
18853  2492  1569   817  2499  2744  6390  4218  1423  9076  3600   306  5862  2820
  115   116   117   118   119   120   121   122   123   124   125   126   127   128
  921  3009 19275 21311  3219  2368  7941  7198  2555  1520  3902  7361  1900  5046
  129   130   131   132   133   134   135   136   137   138   139   140   141   142
 6413  8361  3075  5453  2698  6042  8825  7888  5946  8514  7246  3308  5235  2214
  143   144   145   146   147   148   149   150   151   152   153   154
 2488  4785  1791  2237  1192   805   449  5411  4586   393 16485  7837
--- 7 :  m5a2ma1 :  1. Ma so trong do -------------
     1      2      3   <NA>
 22189  21424    532 235727


 #### FREQUENCY OF VARIABLES IN  30 :  Muc5B1 ##############################

--- 6 :  m5b1ma :  Code -------------
 201  202  203  204  205  206  207  208  209  210  211  212  213  214  215  216  217
3172   84  489 7185  829  101  137 5764   18 4399 1157  217 4265 8008 9349 8566 9066
 218  219  220  221  222  223  224  225  226  227  228
6752 2650 9023 7369  928  510  712 1953 6470 7513 5065


 #### FREQUENCY OF VARIABLES IN  35 :  Muc7 ##############################

--- 8 :  m7c3 :  Flat or house -------------
   1    2 <NA>
 199 9193    7
--- 9 :  m7c4a :  The main material as poles(or pillars,or carrying walls) of the house ------
-------
   1    2    3    4    5 <NA>
3012 4138 1133 1079   30    7
--- 10 :  m7c4b :  The main material as roofing of the house -------------
   1    2    3    4    5 <NA>
1701 2912 4454  308   17    7
--- 11 :  m7c4c :  The main meterial as walls or surounding of the house -------------
   1    2    3    4    5    6 <NA>
 232 6923 1195  246  413  383    7
--- 12 :  m7c4d :  Type of house -------------
   1    2    3    4    5 <NA>
  58 1476 1133 5809  916    7
--- 13 :  m7c5 :  In which year the household started staying in the house -------------
   1    2    3 <NA>
 261 3147 5984    7
--- 14 :  m7c6 :  Ownership of the house -------------
   1    2    3    4    5    6    7 <NA>
9020   65  246   10    2   11   38    7
--- 15 :  m7c7 :  Does your household pay rents? -------------
   1    2 <NA>
 204 9188    7
--- 20 :  m7c11 :  house is built by the household? -------------
   1    2 <NA>
7585 1807    7
--- 24 :  m7c15 :  Does HH have any other land plots or houses/flats? -------------
   1    2 <NA>
 690 8702    7
--- 25 :  m7c16 :  Does HH receive rents from those residential land lots or house -----------
```

```
--
   1    2 <NA>
 134  556 8709
--- 27 :  m7c18 :  The main drinking water supply of HH -------------
   1    2    3    4    5    6    7    8    9   10
2547   64 2327 1804  341  512  310   80 1135  279
--- 28 :  m7c19a :  Do HH treat driking water by boiling -------------
   1    2
8509  890
--- 29 :  m7c19b :  Do HH treat driking water by a filter or chemicals -------------
   1    2
1281 8118
--- 31 :  m7c21 :  Type of toilet -------------
   1    2    3    4    5    6
4878  379 1193  879 1435  635
--- 32 :  m7c22 :  Main source of lighting? -------------
   1    2    3    4
9095  130  147   27
--- 36 :  m7c25 :  How has HH disposed garbage? -------------
   1    2    3    4    5    6
3446  307 1149  799 3632   66


 #### FREQUENCY OF VARIABLES IN  36 :  Muc8 ##############################

--- 6 :  m8c106 :  household classified as poor in 2006? -------------
   1    2    9
1104 8293    2
--- 7 :  m8c107 :  household classified as poor in 2007? -------------
   1    2    9
1128 8269    2
--- 8 :  m8c108 :  household classified as poor in 2008? -------------
   1    2    9
1160 8238    1
--- 9 :  m8c109 :  household classified as poor in 2009? -------------
   1    2
1216 8183
--- 10 :  m8c110 :  household classified as poor in 2010? -------------
   1    2
1298 8101
--- 11 :  m8c111 :  household classified as poor in 2011? -------------
   1    2
1383 8016
--- 12 :  m8c112 :  household classified as poor in 2012? -------------
   1    2
1260 8139
--- 13 :  m8c1a :  Number of months of not eating enough 2 meals per day -------------
   0    1    2    3    4    5    6   10   11   12 <NA>
1606  112  141   53   18    7    3    2    1   11 7445
--- 14 :  m8c21_01 :  Support in purchasing health insurance cards 2011 -------------
   1    2    3
1825 7545   29
--- 15 :  m8c21_02 :  Reduction of and exemption from costs of medical checks/treament 2011 --
-----------
   1    2    3
1413 7945   41
```

```
--- 16 :  m8c21_03 :  reduction of and exemption from tuition fees for the poor 2011 ---------
----
   1    2    3
 867 8445   87
--- 17 :  m8c21_04 :  Policy-based scholarships 2011 -------------
   1    2    3
 156 9088  155
--- 19 :  m8c21_06 :  Support in housing and residential land for poor households 2011 -------
------
   1    2    3
  94 9179  126
--- 20 :  m8c21_07 :  Support in cleaning/improving daily-life water supplies for poor households
2011 -------------
   1    2    3
 161 9127  111
--- 21 :  m8c21_08 :  Providing productive land for poor ethnic minorities households 2011 ---
----------
   1    2    3
   8 9178  213
--- 22 :  m8c21_09 :  Extension services in agriculture, forestry and fisheries 2011 ---------
----
   1    2    3
 777 8462  160
--- 23 :  m8c21_10 :  Support in migrating abroad for employment 2011 -------------
   1    2    3
  24 9183  192
--- 24 :  m8c21_11 :  Food aid 2011 -------------
   1    2    3
 543 8751  105
--- 25 :  m8c21_12 :  Subsidized petroleum/kerosene for fishing boat(s)/vessel(s) 2011 -------
------
   1    2    3
  12 9170  217
--- 26 :  m8c21_13 :  hardship allowance -------------
   1    2    3
 464 8842   93
--- 27 :  m8c21_14 :  Preferential credit for the poor 2011 -------------
   1    2    3
 888 8431   80
--- 28 :  m8c21_15 :  Support in machinery, production inputs 2011 -------------
   1    2    3
 518 8762  119
--- 29 :  m8c21_16 :  others 2011 -------------
   1    2    3
 386 8868  145
--- 30 :  m8c22_01 :  Support in purchasing health insurance cards 2012 -------------
   1    2    3
1811 7559   29
--- 31 :  m8c22_02 :  Reduction of and exemption from costs of medical checks/treament for the
poor 20 -------------
   1    2    3
1355 8003   41
--- 32 :  m8c22_03 :  reduction of and exemption from tuition fees for the poor 2012 ---------
----
   1    2    3
 817 8493   89
```

```
--- 33 :  m8c22_04 :  Policy-based scholarships 2012 -------------
   1    2    3
 154 9088  157
--- 35 :  m8c22_06 :  Support in housing and residential land for poor households 2012 -------
------
   1    2    3
  70 9205  124
--- 36 :  m8c22_07 :  Support in cleaning/improving daily-life water supplies for poor households
2012 -------------
   1    2    3
 164 9121  114
--- 37 :  m8c22_08 :  Providing productive land for poor ethnic minorities households 2012 ---
----------
   1    2    3
   5 9180  214
--- 38 :  m8c22_09 :  Extension services in agriculture, forestry and fisheries 2012 ---------
----
   1    2    3
 763 8478  158
--- 39 :  m8c22_10 :  Support in migrating abroad for employment 2012 -------------
   1    2    3
  21 9181  197
--- 40 :  m8c22_11 :  Food aid 2012 -------------
   1    2    3
 489 8800  110
--- 41 :  m8c22_12 :  Subsidized petroleum/kerosene for fishing boat(s)/vessel(s) 2012 -------
------
   1    2    3
   9 9171  219
--- 42 :  m8c22_13 :  Hardship allowance -------------
   1    2    3
 437 8864   98
--- 43 :  m8c22_14 :  Preferential credit for the poor 2012 -------------
   1    2    3
1051 8267   81
--- 44 :  m8c22_15 :  Support in machinery, production inputs 2012 -------------
   1    2    3
 495 8782  122
--- 45 :  m8c22_16 :  others 2012 -------------
   1    2    3
 382 8865  152
--- 54 :  m8c3 :  Borrowed from or remained to preferential credit schemes -------------
   1    2
1100 8299
--- 55 :  m8c9 :  Have the living conditions in your household improved, compared with 2008? -
------------
   1    2    3    4    9
2628 5154 1063  533   21
--- 56 :  m8c10a :  The first reason why it is 'the same as before'/'worsened'  -------------
   1    2    3    4    5    6    7    8    9   10   11   12 <NA>
 130   49   25   48  440  263  400   55    5   26   11  144 7803
--- 57 :  m8c10b :  The second reason -------------
   0    1    2    3    4    5    6    7    8    9   10   11   12 <NA>
 131   79  100   40   29  120  367  456  130    4   36    9   95 7803
--- 58 :  m8c10c :  The third reason -------------
   0    1    2    3    4    5    6    7    8    9   10   11   12 <NA>
```

```
 340   62   85   33   32   76  223  234  164   16   41   11  148 7934
--- 59 :  m8c11a :  consumption of food over the last 30 days -------------
   1    2    3    4
 261 8364  709   65
--- 60 :  m8c11b :  consumption of foodstuff over the last 30 days -------------
   1    2    3    4
 686 7894  743   76
--- 61 :  m8c12a :  comsumption of electricity over the last 30 days -------------
   1    2    3    4
 443 8282  517  157
--- 62 :  m8c12b :  comsumption of water over the last 30 days -------------
   1    2    3    4
 205 8424  601  169
--- 63 :  m8c12c :  comsumption of housing over the last 30 days -------------
   1    2    3    4    9
 436 8281  460  219    3
--- 64 :  m8c13 :  comsumption of clothing and footwear over the last 30 days -------------
   1    2    3    4
 344 8364  525  166


 #### FREQUENCY OF VARIABLES IN  37 :  Muc82 ################################

--- 7 :  m8c4 :  m8c4 -------------
   1    2    3    4    5
1029   13   36   57   40
--- 10 :  m8c6b :  Time unit -------------
   1    2    3    4 <NA>
 849   25   15  219   67


 #### FREQUENCY OF VARIABLES IN  38 :  ttchung ################################

--- 7 :  ttnt :  Urban/Rural -------------
   1    2
2703 6696
--- 9 :  phdich :  Interpretation -------------
   1    2
 479 8920
--- 17 :  m1b1 :  1. Is there any member moved out of the household -------------
   1    2
2937 6462
--- 22 :  m3c1 :  1. Has anyone visited medical establishments for check-ups and treatment? --
-----------
   1    2
7212 2187
--- 35 :  m4b0c1 :  1.Has the household used or managed farm land, forestry land or aquaculture
surf -------------
   1    2
6265 3134
--- 37 :  m4b1a :  1a.Has your family harvested any products from cultivation? -------------
   1    2
5766 3633
--- 38 :  m4b1b :  1b.Are there any impacts of natural disasters, diseases, etc. which have
caused  -------------
   1    2 <NA>
```

```
   1 3632 5766
--- 46 :  m4b21a :  4B21A.Has your family raised or possessed animals, poultry and livestock? -
------------
   1    2
4178 5221
--- 47 :  m4b21b :  4B21B.Have natural disasters and epidemics... damaged production? --------
-----
   1    2 <NA>
   9 5212 4178
--- 52 :  m4b31a :  1a.Has any household member provide agricultural services? -------------
   1    2
 141 9258
--- 53 :  m4b31b :   -------------
   2 <NA>
9258  141
--- 56 :  m4b41a :  1a.has your household earned revenues from forestry? -------------
   1    2
2032 7367
--- 57 :  m4b41b :   -------------
   2 <NA>
7367 2032
--- 60 :  m4b5c1a :  1a.has any one from the household earned revenues from aquaculture services?
-------------
   1    2
1671 7728
--- 61 :  m4b5c1b :   -------------
   1    2 <NA>
   2 7726 1671
--- 64 :  m4c1 :  1.Has any activities of production and business, non-agricultural, forestry?
-------------
   1    2
3056 6343
--- 119 :  m1c1 :  did this household participate in the vhlss 2010? -------------
   1    2
4173 5226
--- 126 :  ghepho :  Merged with VHLSS2010 -------------
   0    1
5226 4173
```

6. Household Summary Data File of TTCHUNG

6.1 Estimated mean value of each numerical variable in TTCHUNG.

```
> d<-lss2012[[38]]
> t<-apply(d[,1:126],2,function(x) weighted.mean(x,d$wt))
> t2<-var.names[38][[1]][1:126]
> t3<-data.frame(variable=names(t),value=round(t,2),label=t2,row.names=NULL)
> t3
```

	variable	value	label
1	tinh	50.45	Province
2	huyen	512.52	District
3	xa	18637.30	Commune
4	diaban	11.65	Enumerator area
5	hoso	14.50	Household code
6	tsphieu	1.00	Total of questionnaires
7	ttnt	1.70	Urban/Rural
8	dantoc	1.98	Household head's ethnicity
9	phdich	1.97	Interpretation
10	dtv	18.44	Surveyor's ID code
11	dt	11.89	Team leader' ID code
12	ngaydt	16.33	Date of survey
13	thangdt	7.67	Month of survey
14	namdt	2012.00	Year of survey
15	tsnguoi	3.84	Hosehold size
16	ky	2.50	period of survey
17	m1b1	1.69	1. Is there any member moved out of the household
18	tsmuc1b	NA	Total number of member moved out of the household
19	m2act	4179.39	2CT. Total of Q11k And Q14 - Income & Expenditure
20	m2atn	241.07	2TN. Total of Q12 And Q13 - Income & Expenditure
21	m2btn	NA	2TN. Total of Q12 and Q13 - Income
22	m3c1	1.24	1. Has anyone visited medical establishments for check-ups and treatment?
23	m3ct1	1300.31	3CT1. Total of Q5
24	m3ct2	1383.88	3CT2. Total of Q6
25	m3ct3	259.16	3CT3. Total of Q11

26	m3tn	808.09	3TN. Total of Q15
27	m3ct	3600.16	3CT. Expenditure on healthcare
28	m4atn1	34854.04	4ATN1. Total of Q11
29	m4atn2	3862.70	4ATN2. Total of Q12a and of Q12b
30	m4atn3	1548.65	4ATN3. Total of Q23
31	m4atn4	32.26	4ATN4. Total of Q24a and of Q24b
32	m4atn5	287.40	4ATN5. Total of Q26
33	m4atn6	3942.98	4ATN6. Total of Q(28a+b+c+d+e)
34	m4atn	44528.02	4ATN. Income from salary, wage, pension and allowance
35	m4b0c1	1.36	1.Has the household used or managed farm land, forestry land or aquaculture surf
36	m4b0tn	281.88	4B0TN. Total of Q5
37	m4b1a	1.42	1a.Has your family harvested any products from cultivation?
38	m4b1b	NA	1b.Are there any impacts of natural disasters, diseases, etc. which have caused
39	m4b11t	9616.93	4B11T. Total of Q8
40	m4b12t	3695.13	4B12T. Total of Q7
41	m4b13t	6848.41	4B13T. Total of Q7
42	m4b14t	1502.68	4B14T. Total of Q7
43	m4b15t	270.64	4B15T. Total of Q5
44	m4b1t	21933.80	4B1T.Total income
45	m4b1c	8969.70	4B1C. Total of Q2e
46	m4b21a	1.59	4B21A.Has your family raised or possessed animals, poultry and livestock?
47	m4b21b	NA	4B21B.Have natural disasters and epidemics... damaged production?
48	m4b21t	11334.29	4B21T.Total of Q5 from line 1 to line 18
49	m4b21c	7751.11	M4B21C.Total cost of husbandry
50	m4b22t	27.28	4B22T.Total of Q5, line 19
51	m4b22c	7.06	M4B21C.Cost of husbandry Q18, line 11
52	m4b31a	1.99	1a.Has any household member provide agricultural services?
53	m4b31b	NA	1b.Have natural disasters and epidemics<85> damaged production?
54	m4b3t	669.68	4B3T.Total of Q5
55	m4b3c	333.69	4B3C.Total of Q17
56	m4b41a	1.83	1a.has your household earned revenues from forestry?
57	m4b41b	NA	1b.Have natural disasters, epidemics, <85> damaged production?
58	m4b4t	869.43	4B4T.Total of Q3f
59	m4b4c	142.92	4B4C.Total of Q14
60	m4b5c1a	1.84	1a.has any one from the household earned revenues from aquaculture services?
61	m4b5c1b	NA	1b.Have natural disasters, epidemics, <85> damaged production?

62	m4b5t	5494.13	4B5T.Total of Q5
63	m4b5c	3532.94	4B5C.Total of Q19
64	m4c1	1.68	1.Has any activities of production and business, non-agricultural, forestry?
65	m4ctt	49737.88	4CTT.Total revenue of households(Total of Q17)
66	m4ct	49131.33	4CT.Total revenue of households divide to household (Total of Q18)
67	m4cct	29062.70	4CCT.Total cost of households(Total of Q32)
68	m4cc	28680.42	4CC.Total cost of households divide to household (Total of Q33)
69	m4dtn	11786.19	4D2T.Total of Q2
70	m5a1ct	2804.75	5A1CT.Total of Q4 and Q5
71	m5a1c4	2371.22	4.Total of Q2B
72	m5a1c5	433.53	5.Total of Q3B
73	m5a2ct	2951.75	5A2CT. Total of Q2B
74	m5a2c6	2605.16	6.Total of Q3B
75	m5a2c7	305.11	7.Total of Q4B
76	m5a2c8	41.48	8.Total of Q5B
77	m5b1ct	891.00	5B1CT. Total of Q6 and Q7
78	m5b1c6	835.20	6. Total of Q3
79	m5b1c7	51.69	7. Total of Q4
80	m5b1c8	4.11	8. Total of Q5
81	m5b2ct	6064.96	5B2CT. Total of Q4 and 5
82	m5b2c4	5932.37	4.Total of Q2
83	m5b2c5	132.59	5.Total of Q3
84	m5b3ct	4624.29	5B3CT. Total of Q2
85	m6c7	4399.02	7. Total of Q5
86	thunhap	98675.33	III. Total Income
87	thubq	2254.57	IV. Average Income per capita per month
88	tongthu_01	148093.16	Total of household revenue
89	tongthu_02	241.07	Income from subsidies,scholarship
90	tongthu_03	808.09	Income from health subsidies
91	tongthu_04	44528.02	Income from wage
92	tongthu_05	281.88	Revenue from renting out agricultural and forestry land and water surface
93	tongthu_06	21933.80	Revenue from crop
94	tongthu_07	11334.29	Revenue from husbandry
95	tongthu_08	27.28	Revenue from hunting, trapping and domestication
96	tongthu_09	669.68	Revenue from agricultural services
97	tongthu_10	869.43	Revenue from forestry

98	tongthu_11	5494.13	Revenue from aquaculture
99	tongthu_12	49131.33	Other income
100	tongthu_13	11786.19	Other revenues included in incomes
101	tongthu_14	987.98	Revenues from renting out house(s) and residential land
102	chisxkd_1	49417.83	Expenditure on business
103	chisxkd_2	8969.70	Expenditure on crops
104	chisxkd_3	7751.11	Expenditure on livestock
105	chisxkd_4	7.06	Expenditure on hunting, trapping..
106	chisxkd_5	333.69	Expenditure on agricultural services
107	chisxkd_6	142.92	Expenditure on forestry
108	chisxkd_7	3532.94	Expenditure on aquaculture
109	chisxkd_8	28680.42	Expenditure on non-farm business
110	chikhac_1	4179.39	Expenditure on education
111	chikhac_2	3600.16	Expenditure on health
112	chikhac_3	2804.75	Expenditure on foods and drinks during holidays
113	chikhac_4	2951.75	Daily expenditure on foods and drinks
114	chikhac_5	891.00	Daily expenditure on non-food
115	chikhac_6	6064.96	Yearly Non-food expenditure
116	chikhac_7	4624.29	Other expenditure considered as consumption
117	chikhac_8	4399.02	Expenditures on durables over the past 12 month
118	chikhac_9	3728.51	Recurrent expenditures on housing, electricity, water,and daily life waste
119	m1c1	1.55	did this household participate in the vhlss 2010?
120	tinh2010	22.04	Province in VHLSS2010
121	huyen2010	NA	District in VHLSS2010
122	xa2010	NA	Commune in VHLSS2010
123	diaban2010	NA	Enumerator area in VHLSS2010
124	hoso2010	NA	Household code in VHLSS2010
125	ttnt2010	NA	Urban/rural in VHLSS2010
126	ghepho	0.45	Merged with VHLS

6.2 Operational definition of variables of TTCHUNG

Data file TTCHUNG is the household-level summary data, which derived from various data files.

The next table compiled by the author shows the operational definitions of each variable.

If “yes” in the last column, the definition described in the fourth column hold for the data set provided.

The variables related to total household income and expenditure are as follows;

No	Variable name	Description	Operational definition	Data file	Confirmed from data
86	thunhap	**(Yearly) Income**	= tongthu_01 (88) – chisxkd_1 (102)		Yes
87	thubq	(Yearly) Income per capita	= thunhap / tsnguol (hhsize) (86/15)		Yes
88	tongthu_01	**Total of household REVENUE**	= sum of tongthu_02 to tongthu_14 (89-101)		Yes*
89	tongthu_02	**Income from subsidies,scholarship**	=m2atn (20)		Yes
90	tongthu_03	**Income from health subsidies**	=m3tn (26)		Yes
91	tongthu_04	**Income from wage**	=m4atn (34)		Yes
92	tongthu_05	**revenue from crops**	=m4b0tn (36)		Yes
93	tongthu_06	**Revenue from livestock**	=m4b1t (44)		Yes
94	tongthu_07	**Revenue from Agricultural Services**	=m4b21t (48)		Yes
95	tongthu_08	**Revenue from hunting, trapping**	=m4b22t (50)		Yes
96	tongthu_09	**Revenue from forestry**	=m4b3t (54)		Yes
97	tongthu_10	**Revenue from aquaculture**	=m4b4t (58)		Yes
98	tongthu_11	**Revenue from non-farm business**	=m4b5t (62)		Yes
99	tongthu_12	**Other income**	=m4ct (66)		Yes
100	tongthu_13	**Other money received, not considered as income**	=m4dtn (69)		Yes
101	tongthu_14	**Income from house and land renting out**	=m7c17 in muc7: lss2012[[35]]	muc7	Yes
102	chisxkd_1	**Expenditure on business (TOTAL COST)**	= sum of chisxkd_2 to chisxkd_8 (103-109)		Yes*
103	chisxkd_2	**Expenditure on crops**	=m4b1c (45)		Yes
104	chisxkd_3	**Expenditure on livestock**	=m4b21c (49)		Yes
105	chisxkd_4	**Expenditure on agricultural services**	=m4b22c (51)		Yes
106	chisxkd_5	**Expenditure on hunting, trapping..**	=m4b3c (55)		Yes
107	chisxkd_6	**Expenditure on forestry**	=m4b4c (59)		Yes
108	chisxkd_7	**Expenditure on aquaculture**	=m4b5c (63)		Yes
109	chisxkd_8	**Expenditure on non-farm business**	=m4cc (68)		Yes
110	chikhac_1	**Expenditure on education**	=m2act (19)		Yes

111	chikhac_2	**Expenditure on health**	=m3ct (27)		Yes
112	chikhac_3	**Expenditure on holiday food**	=m5a1ct (70)		Yes
113	chikhac_4	**Expenditure on daily food**	=m5a2ct (73)		Yes
114	chikhac_5	**Expenditure on daily non-food**	=m5b1ct (77)		Yes
115	chikhac_6	**Expenditure on yearly non-food**	=m5b2ct (81)		Yes
116	chikhac_7	**Expenditure on other**	=m5b3ct (84)		Yes
117	chikhac_8	**Expenditure on durables**	=m6c7 (85)		Yes
118	chikhac_9	**Expenditure on housing**	m7c27 = sum (m7c8: rent + m7c14: house repair + m7c12: water + m7c24: electricity + m7c26: waste)	muc7	Yes

Remarks: "Yes" means within difference of one and "Yes*" within difference of two.

6.3 R scripts for verifying the contents of TTCHUNG

- Consistency check of INCOME-related variables in ttchung

```
# ttchung
d<-lss2012[[38]]
dim(d)
colnames(d)
```

□ REVENUE-related variables

```
# No. 86
table(abs(d[,86]-(d[,88]-d[,102]))<=1)

# No. 88
table(abs(d[,88]-rowSums(d[,89:101]))<=2,useNA="ifany")

# No. 89
table(abs(d[,89]-d[,20])<=1)

# No. 90
table(abs(d[,90]-d[,26])<=1)

# No. 91
table(abs(d[,91]-d[,34])<=1)

# No. 92
table(abs(d[,92]-d[,36])<=1)

# No. 93
table(abs(d[,93]-d[,44])<=1)

# No. 94
table(abs(d[,94]-d[,48])<=1)

# No. 95
table(abs(d[,95]-d[,50])<=1)

# No. 96
table(abs(d[,96]-d[,54])<=1)

# No. 97
table(abs(d[,97]-d[,58])<=1)

# No. 98
table(abs(d[,98]-d[,62])<=1)

# No. 99
table(abs(d[,99]-d[,66])<=1)
```

```
# No. 100
table(abs(d[,100]-d[,69])<=1)

# No. 101
df<-lss2012[[35]]
dim(df)
df[is.na(df)]<-0
table(df$ID==d$ID)
table(abs(d[,101]-df$m7c17)<=1,useNA="ifany")
```

□ EXPENDITURE-related variables

```
# No. 102
table(abs(d[,102]-rowSums(d[,103:109]))<=2,useNA="ifany")

# No. 103
table(abs(d[,103]-d[,45])<=1)

# No. 104
table(abs(d[,104]-d[,49])<=1)

# No. 105
table(abs(d[,105]-d[,51])<=1)

# No. 106
table(abs(d[,106]-d[,55])<=1)

# No. 107
table(abs(d[,107]-d[,59])<=1)

# No. 108
table(abs(d[,108]-d[,63])<=1)

# No. 109
table(abs(d[,109]-d[,68])<=1)

# No. 110
table(abs(d[,110]-d[,19])<=1)

# No. 111
table(abs(d[,111]-d[,27])<=1)

# No. 112
table(abs(d[,112]-d[,70])<=1)

# No. 113
table(abs(d[,113]-d[,73])<=1)
```

```
# No. 114
table(abs(d[,114]-d[,77])<=1)

# No. 115
table(abs(d[,115]-d[,81])<=1)

# No. 116
table(abs(d[,116]-d[,84])<=1)

# No. 117
table(abs(d[,117]-d[,85])<=1)

# No. 118
df<-lss2012[[35]]
df[is.na(df)]<-0
table(abs(df$m7c27-(df$m7c8+df$m7c14+df$m7c20+df$m7c24+df$m7c26))<=1)
table(abs(d[,118]-df$m7c27)<=1)
```

7. Household income

- Definition of household income

The household income variable is defined in summary data file TTCHUNG (Chapter 6). The components of household income are shown in Chapter 6.

86 thunhap: yearly household income

87 thubq: monthly per capita income

Remarks on definition of household income:

1) Inkind-income is included.

2) Imputed rent is not estimated.

According to the Delegates from Vietnam, "We did not use the imputed rent in this survey, because it is hard to conduct this information. We did replace with the housing annual repair for this variable."

It is difficult to estimate imputed rent from market data because the share of households paying rent is small.

The household which paid rents was only 2%.

```
# m7c7: Does your household pay rents? (in cash or in kind)    Yes=1, No=2
> addmargins(table(d$m7c7,useNA="ifany"))
     1       2 <NA>    Sum
 204 9188        7 9399
```

```
# Monthly income per capita (1000 VND)
> sum(d$thunhap*d$wt)/sum(d$tsnguoi*d$wt)/12
[1] 2139.041
```

Remarks:

This estimated value is different from the figure of 1,999.8 in Table 5.1 of "Data results of the Viet Nam Household Living Standards Survey 2012".

The Delegates from Vietnam explained that the number of 2,139 (1000 VND) is generated from 9,400 households, and the number of 1,999.8 (1000 VND) in Table 5.1 is generated from 47,000 households in total, that is, the mean of whole sample.

Income questionnaire was distributed for all sample households and consumption questionnaire was distributed for a part of sample households. For the query about use

of the income data for households not covered by consumption survey, the Delegates from Vietnam replayed as follows; The total sample is almost 47.000 households and applied all for income questionaire. But the comsumption questionaire is just applied for 9.400 households. We calculated Income data and Comsumption data seperately and it is enough for combine the results.

8. Household expenditure

- Variables on components of household expenditure are defined in the summary data file TTCHUNG.

According to the Delegates for Vietnam;
Total household expenditure is calculated from the next variables in ttchung;

110 chikhac_1 : Expenditure on education
111 chikhac_2 : Expenditure on health
112 chikhac_3 : Expenditure on foods and drinks during holidays
113 chikhac_4 : Daily expenditure on foods and drinks
114 chikhac_5 : Daily expenditure on non-food
115 chikhac_6 : Yearly Non-food expenditure
116 chikhac_7 : Other expenditure considered as consumption
117 chikhac_8 : Expenditures on durables over the past 12 month s
118 chikhac_9 : Recurrent expenditures on housing, electricity, water, and daily life waste

,where the values of chikhac_4 and chikhac_5 are monthly (not daily) and the other variables are yearly.
Yearly household expenditure is defined as follows;

Sum of (110-112 and 115-118) plus (113) multiplied by 11.5 plus (114) multiplied by 12

Note: The reference period for the expenditure on holiday food is 15 days. Therefore, the expenditure on daily food should be estimated for the period of 365 minus 15 days.

```
> d<-lss2012[[38]]
> dim(d)
[1] 9399  129

# Yearly household expenditure (1000 VND)
> d$yexp<-rowSums(d[,c(110:112,115:118)])+d[,113]*11.5+d[,114]*12

# Monthly total consumption per capita (1000 VND)
> sum(d$yexp*d$wt)/sum(d$tsnguoi*d$wt)/12
[1] 1604.966
```

Remarks: This estimated value is compatible with the figure of 1,603 in Table 6.1 of “Data results of the Viet Nam Household Living Standards Survey 2012”.

Data file of hhexpe12

- Another data file of hhexpe12 was provided. It includes 273 variables related to household expenditure, but there are many intermediate variables. According to the Delegates from Vietnam, the below list is the main variables for use;

No.	Variable name	Label	Remarks
1	tinh	Province code	
2	huyen	District code	
3	xa	Commune code	
4	diaban	Cluster code	
5	hoso	Household code	
11	foodnom2	nominal 'best' food expenditures	
16	nonfdx	non-food purchases for 2012	
17	nonfds	non-food home prod.& gifts for 2012	
18	nonfdto	Total 'best' non-food for 2012	=16+17
19	Nonfdcompto	Total 'comparable' non-food 2012 consumption	
21	durbus_1	Durable gd use value-comparable with 93 and 98 VLSS	
22	durbus_2	Durable gd use value-best for 2012 VHLSS	
25	educex_2	Educ. exp. 'best' for 2012 VHLSS survey	
26	educex_1	Educ. expend. comparable to VLSS surveys	
32	hlthex_1	'Comparable' health exp	
33	hlthex_2	'Best' health exp - no exclusion based on welfare	
35	waterexp	Water expenses	
36	elecexp	Electricity expenses/year	
37	garbexp	Waste displosal expenses	
38	urban12	urban 1 rural 0	
39	rentexpquestion	Rent expenditure	
40	reg8Paul	8 region	
41	reg6	6 region	
42	rentexp2_1	'Best' imputed rent using reported housing value	

44	ethnic	Ethnic code
45	monthint	Month survey
46	yearint	Year survey
47	hhsize	Household size
49	wt9	Household weight
50	hhszwt	Individual weight
51	mcpir	month rice price index January 2010=1
52	mcpinrf	month nonrice food price index Jan 10=1
53	mcpinf	month nonfood price index Jan 10=1
54	rcpif	comparable' region food price index
55	rcpinf	comparable' region non-food price index
56	rcpifb	Best region food price index
57	rcpinfb	Best region non-food price index
59	pcfdxnom2	Per capita nominal 'best' food expenditure
61	foodreal1	comparable real food exp.
62	pcfdxrl1	per capital comparable real food exp.
63	foodreal2	best real food exp.
64	pcfdxrl2	per capital best real food exp.
67	nonfood1	comparable nominal nonfood exp.
69	rentexp1	'Comparable' imputed rent using nonfood1
70	nonfood1rl	comparable real nonfood exp.
71	pcnonfood1rl	per capital comparable real nonfood exp.
74	hhex1nom	comparable nominal total exp.
75	hhexp1rl	comparable real total exp.
78	pcex1nom	per capital comparable nominal exp.
79	pcexp1rl	per capital comparable real exp.
82	quint12nom	nominal 'comparable' quintile for 2012
83	quint12rl	real 'comparable' quintile for 2012

Remarks:

Some inconsistencies of value of “diaban” were found between hhexp12 and ttchung.

For my query “Please confirm the next; the value 6 of diaban of hhexp12.dta in line 2773 to 2775 should be 8.” the Delegates from Vietnam responded that “For this mistake, you should use the data in the file hhexp12 for the variable diaban. It means the true number is 6 (not 8).”

The provided microdata set does not reflect this point at the moment.

```
Contents of hhexp12
         tinh huyen    xa diaban hoso
2771   31   311 11500     10   13
2772   31   311 11500     10   14
2770   31   311 11500     10   15
2773   31   311 11506      6   13
2774   31   311 11506      6   14
2775   31   311 11506      6   15
2776   31   311 11515     23   13
2777   31   311 11515     23   14
2778   31   311 11515     23   15
Contents of ttchung
         tinh huyen    xa diaban hoso
2770   31   311 11500     10   13
2771   31   311 11500     10   14
2772   31   311 11500     10   15
2773   31   311 11506      8   13
2774   31   311 11506      8   14
2775   31   311 11506      8   15
2776   31   311 11515     23   13
2777   31   311 11515     23   14
2778   31   311 11515     23   15
```

- Mean of main variables in hhexpe12

```
> d<-lss2012[[1]] # hhexpe12
> dim(d)
[1] 9399  276
> df<-lss2012[[38]] # ttchung
> dim(df)
[1] 9399  129
> table(d$ID==df$ID)
TRUE
```

```
9399

> d.old<-d
# Data frame consisted of main variables
> d<-d[,c(1:5,11,16:19,21:22,25:26,32:33,35:42,44:47,49:57,59,
+ 61:64,67,69:71,78:79,82:83,274:275)]
> dim(d)
[1] 9399   52
> colnames(d)
 [1] "tinh"            "huyen"           "xa"              "diaban"
 [5] "hoso"            "foodnom2"        "nonfdx"          "nonfds"
 [9] "nonfdto"         "nonfdcompto"     "durbus_1"        "durbus_2"
[13] "educex_2"        "educex_1"        "hlthex_1"        "hlthex_2"
[17] "waterexp"        "elecexp"         "garbexp"         "urban12"
[21] "rentexpquestion" "reg8Paul"        "reg6"            "rentexp2_1"
[25] "ethnic"          "monthint"        "yearint"         "hhsize"
[29] "wt9"             "hhszwt"          "mcpir"           "mcpinrf"
[33] "mcpinf"          "rcpif"           "rcpinf"          "rcpifb"
[37] "rcpinfb"         "pcfdxnom2"       "foodreal1"       "pcfdxrl1"
[41] "foodreal2"       "pcfdxrl2"        "nonfood1"        "rentexp1"
[45] "nonfood1rl"      "pcnonfood1rl"    "pcex1nom"        "pcexp1rl"
[49] "quint12nom"      "quint12rl"       "ID"              "wt"

# Mean for monetary value
> dd<-d[,c(6:19,24,38:48)]
> t<-apply(dd,2,function(x) sum(x*d$wt)/sum(d$wt) )
> data.frame(weighted.mean=round(t,1))

             weighted.mean
foodnom2           37340.8
nonfdx             16534.9
nonfds               808.9
nonfdto            17343.8
nonfdcompto        16013.0
durbus_1            5935.2
durbus_2            9586.3
```

```
educex_2            4182.1
educex_1            4005.1
hlthex_1            3368.3
hlthex_2            3627.4
waterexp             282.6
elecexp             1933.7
garbexp               61.3
rentexp2_1         19690.3
pcfdxnom2          10239.8
foodreal1          36290.6
pcfdxrl1            9939.4
foodreal2          36847.2
pcfdxrl2           10078.3
nonfood1           36760.8
rentexp1            5161.6
nonfood1rl         34541.7
pcnonfood1rl        9442.8
pcex1nom           20153.4
pcexp1rl           19382.2

# Mean for price index
> dd<-d[,c(31:37)]
> t<-apply(dd,2,function(x) sum(x*d$wt)/sum(d$wt) )
> data.frame(weighted.mean=round(t,3))

        weighted.mean
mcpir           1.001
mcpinrf         1.001
mcpinf          1.039
rcpif           1.001
rcpinf          1.001
rcpifb          1.002
rcpinfb         1.002
```

- At the moment, it is not clear how each variable of hhexpe12 was generated. And the meaning of “best” of “comparable” is also unclear.

9. Micro data to be provided

Strategy

1. Resampling

The data files which were provided by NSO will be resampled as follows;

1.1 To append household identifier ID and weight wt to all data files.

1.2 To append personal identifier PID to muc1a, muc2, muc3a, muc3b, muc4a and muc4a2.

1.3 To select 80% of ID by systematic sampling method.

1.4 To select records which ID belongs to the above selected ID from the data files.

2. The weight wt in all files will be adjusted by dividing by 0.8.

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

Resampling

```
# Selected 80% of ID
> ID<-lss2012[[1]]$ID
> length(ID)
[1] 9399
> Int<-5
> (St<-sample(1:5,1))
[1] 4
> ID.selected<-ID[(1:length(ID))%%Int!=(St-1)]
> length(ID.selected)/length(ID)
[1] 0.7999787
> ID.selected<-ID.selected[order(ID.selected)]
> head(ID.selected)
[1] "ID01001000040813" "ID01001000040815" "ID01001000072213" "ID01001000072215"
[5] "ID01001000072219" "ID01001000160314"


# Resampled at the rate of 80%
# lss2012[[1]] to lss2012[[38]]
```

```
> Rnames.80<-paste(Rnames[-39],".80",sep="")
> Rnames.80
 [1] "hhexpe12.80" "muc1a.80"    "muc1b.80"    "muc1c.80"    "Muc2.80"
 [6] "Muc3A.80"    "Muc3B.80"    "Muc4A.80"    "Muc4A2.80"   "Muc4B0.80"
[11] "Muc4B11.80"  "Muc4B12.80"  "Muc4B13.80"  "Muc4B14.80"  "Muc4B15.80"
[16] "Muc4B16.80"  "Muc4B21.80"  "Muc4B22.80"  "Muc4B31.80"  "Muc4B32.80"
[21] "Muc4B41.80"  "Muc4B42.80"  "Muc4B51.80"  "Muc4B52.80"  "Muc4C1.80"
[26] "Muc4C2.80"   "Muc4D.80"    "Muc5A1.80"   "Muc5A2.80"   "Muc5B1.80"
[31] "Muc5B2.80"   "Muc5B3.80"   "Muc6.80"     "Muc6B.80"    "Muc7.80"
[36] "Muc8.80"     "Muc82.80"    "ttchung.80"


> lss.80<-list()
> for(j in 1:38){
+ d<-lss2012[[j]]
+ lss.80[[j]]<-subset(d,is.element(d$ID,ID.selected))
+ }
> length(lss.80)
[1] 38

> for(j in 1:38){
+ cat(format(Rnames.80[j],width=12),": ",
+ format(nrow(lss.80[[j]]),width=6),",",
+ format(ncol(lss.80[[j]]),width=3),"¥n")
+ }
hhexpe12.80  :    7517 , 276
muc1a.80     :   29291 ,  22
muc1b.80     :    5041 ,  65
muc1c.80     :   13393 ,  18
Muc2.80      :   29291 ,  38
Muc3A.80     :   14519 ,  20
Muc3B.80     :   29291 ,  19
Muc4A.80     :   29291 ,  57
Muc4A2.80    :   29291 ,  22
Muc4B0.80    :    9108 ,  12
```

```
Muc4B11.80    :    7274 ,  15
Muc4B12.80    :    9455 ,  14
Muc4B13.80    :    2128 ,  15
Muc4B14.80    :    4946 ,  15
Muc4B15.80    :    4887 ,  13
Muc4B16.80    :   37601 ,  16
Muc4B21.80    :    9204 ,  13
Muc4B22.80    :    5755 ,  32
Muc4B31.80    :     127 ,  12
Muc4B32.80    :     127 ,  30
Muc4B41.80    :    2700 ,  16
Muc4B42.80    :    1668 ,  33
Muc4B51.80    :    1967 ,  13
Muc4B52.80    :    1471 ,  33
Muc4C1.80     :    2943 ,  27
Muc4C2.80     :    2943 ,  35
Muc4D.80      :    7517 ,  28
Muc5A1.80     :  116904 ,  14
Muc5A2.80     :  223807 ,  18
Muc5B1.80     :   89282 ,  13
Muc5B2.80     :   92907 ,  11
Muc5B3.80     :    7517 ,  17
Muc6.80       :    7517 ,  45
Muc6B.80      :   93146 ,  14
Muc7.80       :    7517 ,  41
Muc8.80       :    7517 ,  67
Muc82.80      :     959 ,  15
ttchung.80    :    7517 , 129

# Adjusted weight
> for(j in 1:38){
+ d<-lss.80[[j]]
+ d$WT<-d$wt/0.8
+ lss.80[[j]]<-d
+ }
```

```
> sum(lss.80[[38]]$WT)
[1] 23211141
> sum(lss2012[[38]]$wt)
[1] 23221218


> save(lss.80,file="Resampled_80%.RData")

# Converted to CSV
> CSVnames<-gsub("¥¥.","_",Rnames.80)
> CSVnames<-paste(CSVnames,".csv",sep="")
> CSVnames
 [1] "hhexpe12_80.csv" "muc1a_80.csv"    "muc1b_80.csv"    "muc1c_80.csv"
 [5] "Muc2_80.csv"     "Muc3A_80.csv"    "Muc3B_80.csv"    "Muc4A_80.csv"
 [9] "Muc4A2_80.csv"   "Muc4B0_80.csv"   "Muc4B11_80.csv"  "Muc4B12_80.csv"
[13] "Muc4B13_80.csv"  "Muc4B14_80.csv"  "Muc4B15_80.csv"  "Muc4B16_80.csv"
[17] "Muc4B21_80.csv"  "Muc4B22_80.csv"  "Muc4B31_80.csv"  "Muc4B32_80.csv"
[21] "Muc4B41_80.csv"  "Muc4B42_80.csv"  "Muc4B51_80.csv"  "Muc4B52_80.csv"
[25] "Muc4C1_80.csv"   "Muc4C2_80.csv"   "Muc4D_80.csv"    "Muc5A1_80.csv"
[29] "Muc5A2_80.csv"   "Muc5B1_80.csv"   "Muc5B2_80.csv"   "Muc5B3_80.csv"
[33] "Muc6_80.csv"     "Muc6B_80.csv"    "Muc7_80.csv"     "Muc8_80.csv"
[37] "Muc82_80.csv"    "ttchung_80.csv"


> for(j in 1:38){
+ cmd<-paste("write.csv(lss.80[[",j,"]],'",CSVnames[j],"',row.names=F)",sep="")
+ eval(parse(text=cmd))
+ }

# Resampled data set in csv format
> list.files()
 [1] "hhexpe12_80.csv" "muc1a_80.csv"    "muc1b_80.csv"    "muc1c_80.csv"
 [5] "Muc2_80.csv"     "Muc3A_80.csv"    "Muc3B_80.csv"    "Muc4A_80.csv"
 [9] "Muc4A2_80.csv"   "Muc4B0_80.csv"   "Muc4B11_80.csv"  "Muc4B12_80.csv"
[13] "Muc4B13_80.csv"  "Muc4B14_80.csv"  "Muc4B15_80.csv"  "Muc4B16_80.csv"
[17] "Muc4B21_80.csv"  "Muc4B22_80.csv"  "Muc4B31_80.csv"  "Muc4B32_80.csv"
```

```
[21] "Muc4B41_80.csv"  "Muc4B42_80.csv"  "Muc4B51_80.csv"  "Muc4B52_80.csv"
[25] "Muc4C1_80.csv"   "Muc4C2_80.csv"   "Muc4D_80.csv"    "Muc5A1_80.csv"
[29] "Muc5A2_80.csv"   "Muc5B1_80.csv"   "Muc5B2_80.csv"   "Muc5B3_80.csv"
[33] "Muc6_80.csv"     "Muc6B_80.csv"    "Muc7_80.csv"     "Muc8_80.csv"
[37] "Muc82_80.csv"    "ttchung_80.csv"
```

Some computing indicators from results of household interviews

Indicators and data sources	Code	Data location in household questionnaire	Page	Indicator value (1000 ®ång)
I. Total revenue [Codes 2 + ... +14]	**1**			
Value of aid, scholarships, rewards from education	2	Data from cell 2TN, section 2	23	
Value of aid in healthcare	3	Data from cell 3TN section 3	27	
Revenues from salaries/wages of household members	4	Data from cell 4ATN, part 4A	39	
Revenues from renting out agricultural and forestry land and water surface for aquaculture productio	5	Data from cell 4B0TN, part 4B0	43	
Revenues from crop production	6	Data from cell 4B1T, part 4B1.5	49	
Revenues from husbandry	7	Data from cell 4B21T, part 4B2.1	52	
Revenues from hunting and domestication of birds and animals	8	Data from cell 4B22T, part 4B2.1	52	
Revenues from agricultural services	9	Data from cell 4B3T, part 4B3.1	56	
Revenues from forestry	10	Data from cell 4B4T, part 4B4.1	58	
Revenues from aquaculture	11	Data from cell 4B5T, part 4B5.1	60	
Revenues from production, business and services outside agriculture, forestry, aquaculture; process	12	Data from cell 4CT, part 4C1	62	
Other revenues included in incomes	13	Data from cell 4DTN, part 4D	64	
Revenues from renting out house(s) and residential land	14	Data from Question 17, section 7	77	

Some computing indicators from results of household interviews *(cont'd)*

	Code	Data location in household questionnaire	Page	Indicator value (1000 ®ång)
II. Costs of production and business [Codes 16 + … + 22]	15			
Costs of crop production	16	Data from cell 4B1C, part 4B1.6	50	
Costs of husbandry	17	Data from cell 4B21C, part 4B2.2	55	
Costs of hunting, trapping, and domestication of birds and animals	18	Data from cell 4B22C, part 4B2.2	55	
Costs of agricultural services	19	Data from cell 4B3C, part 4B3.2	57	
Costs of forestry	20	Data from cell 4B4C, part 4B4.2	59	
Costs of aquaculture	21	Data from cell 4B5C, part 4B5.2	61	
Costs of production, business and services outside agriculture, forestry, aquaculture; processing...	22	Data from cell 4CC, part 4C2	63	

Indicators and data sources in Table 'Some computing indicators from results of household interviews'	Indicator value (1000 ®ång)
III. Incomes [Codes 2 + 3 + 4 + 5 + (6 -16) + (7 - 17) + (8 - 18) + (9 - 19) + (10 - 20) + (11 - 21) + (12 - 22) + 13 + 14]	
IV. Average/per capita/monthly incomes [Indicator number III/ (number of household members x 12)]	

Some computing indicators from results of household interviews (end)

Indicators and data sources	Code	Data location in household questionnaire	Page	Indicator value (1000 ®ång)
V. Consumption and other expenditures				
Education expenditures	23	Data from cell 2CT, section 2	21	
Healthcare expenditures	24	Data from cell 3CT, section 3	27	
Food and drink consumption on festive occasions	25	Data from cell 5A1CT, part 5A1	66	
Regular food and drink consumption	26	Data from cell 5A2CT, part 5A2	69	
Daily consumption of non-food items	27	Data from cell 5B1CT, part 5B1	70	
Annual consumption of non-food items	28	Data from cell 5B2CT, part 5B2	71	
Other consumption included in expenditures	29	Data from cell 5B3CT, part 5B3	72	
Expenditures on durables over the past 12 months	30	Data from cell of question 7, section 6	75	
Recurrent expenditures on housing, electricity, water, and daily-life waste	31	Data from cell of question 23, section 7	77	

Provided information is kept confidential

General Statistics Office

VHLSS 2012

Questionnaire form No. 1B-PVH/KSMS12

Form No.

Household questionnaire on incomes and expenditures

2012 2010

Province/ city.....

Rural district/ urban district / (provincial) town.....

Rural commune/ urban ward/ (district) township.....

Enumeration area.....

Area: ..... (Urban:.....1; rural:.....2).....

Full name of household head (in block capital letters).....Household No.

Ethnicity of household head.....

Address.....

Landline phone number (INCLUDE PROVINCE CODE):.....Mob

Interpreter employed? (yes:.....1; no:.....2).....

Enumerator's full name .....Code

Full name of team leader.....Code

Date month year 2012
Team leader
(Signature)

Date month year 2012
Enumerator
(Signature)

Participation in VHLSS is for the sake of national interests and household benefits.

Information obtained from households are kept confidential and not used for any purpose other than as database for the State to study and develop socio-economic policies, in order to stabilise and improve living standards of the people, including of each household.

General Statistics Office

Ethnicity codes

kinh	01	kh¬ mó	29
tµy	02	co	30
th¸i	03	tµ - «i	31
hoa (H¸n)	04	ch¬ - ro	32
kh¬ me	05	kh¸ng	33
m-ên g	06	xinh - mun	34
nïng	07	hµ nh×	35
h' m«ng (Mìo)	08	chu - ru	36
dao	09	lµo	37
gia-rai	10	la chÝ	38
ng¸i	11	la ha	39
ª-®ª	12	Phï l¸	40
ba-na	13	la hñ	41
x¬-®¨ng	14	lù	42
s¸n chay (Cao lan - S¸n chØ)	15	l« l«	43
c¬ ho	16	Chøt	44
Ch¨m (Chµm)	17	M¶ng	45
s¸n d×u	18	pµ thÎn	46
hrª	19	c¬ lao	47
mn«ng	20	cèng	48
ra-glai	21	bè y	49
xtiªng	22	si la	50
bru - V©n KiÒu	23	pu pÐo	51
thæ	24	br©u	52
gi¸y	25	¥ ®u	53
c¬ tu	26	r¬ - m¨m	54
giÌ - triªng	27	Foreign	55
m¹	28	Unidentified	56

Conversion of lunar and solar calendars

Tý (Rat)	1900	1912	1924	1936	1948	1960	1972	1984	1996	2008
Söu (Buffalo)	1901	1913	1925	1937	1949	1961	1973	1985	1997	2009
DÇn (Tiger)	1902	1914	1926	1938	1950	1962	1974	1986	1998	2010
M·o (Cat)	1903	1915	1927	1939	1951	1963	1975	1987	1999	
Th×n (Dragon)	1904	1916	1928	1940	1952	1964	1976	1988	2000	
Tþ (Snake)	1905	1917	1929	1941	1953	1965	1977	1989	2001	
Ngä (Horse)	1906	1918	1930	1942	1954	1966	1978	1990	2002	
Mïi (Goat)	1907	1919	1931	1943	1955	1967	1979	1991	2003	
Th©n (Monkey)	1908	1920	1932	1944	1956	1968	1980	1992	2004	
DËu (Rooster)	1909	1921	1933	1945	1957	1969	1981	1993	2005	
TuÊt (Dog)	1910	1922	1934	1946	1958	1970	1982	1994	2006	
Hîi (Pig)	1911	1923	1935	1947	1959	1971	1983	1995	2007	

Years ending with	0	of celestial stem	Canh
- # -	1	- # -	T©n
- # -	2	- # -	Nh©m
- # -	3	- # -	Quý
- # -	4	- # -	Gi¸p
- # -	5	- # -	Êt
- # -	6	- # -	BÝnh
- # -	7	- # -	§inh
- # -	8	- # -	MËu
- # -	9	- # -	Kû

Centrally administered provinces/cities

Seq	Code	Names of administrative units
I	**1**	**Red River Delta**
1	01	Hµ Néi City
2	26	VÜnh Phóc Province
3	27	B¾c Ninh Province
4	22	Qu¶ng Ninh Province
5	30	H¶i D-¬ng Province
6	31	H¶i Phßng City
7	33	H-ng Yªn Province
8	34	Th¸i B×nh Province
9	35	Hµ Nam Province
10	36	Nam §Þnh Province
11	37	Ninh B×nh Province
II	**2**	**Midlands and Northern Mountainous Areas**
12	02	Hµ Giang Province
13	04	Cao B»ng Province
14	06	B¾c K¹n Province
15	08	Tuyªn Quang Province
16	10	Lµo Cai Province
17	15	Yªn B¸i Province
18	19	Th¸i Nguyªn Province
19	20	L¹ng S¬n Province
20	24	B¾c Giang Province
21	25	Phó Thä Province
22	11	§iÖn Biªn Province
23	12	Lai Ch©u Province
24	14	S¬n La Province
25	17	Hßa B×nh Province

Seq	Code	Names of administrative units
III	**3**	**Northern and Coastal Central Region**
26	38	Thanh Hãa Province
27	40	NghÖ An Province
28	42	Hµ TÜnh Province
29	44	Qu¶ng B×nh Province
30	45	Qu¶ng TrÞ Province
31	46	Thõa Thiªn - HuÕ Province
32	48	§µ N½ng City
33	49	Qu¶ng Nam Province
34	51	Qu¶ng Ng·i Province
35	52	B×nh §Þnh Province
36	54	Phó Yªn Province
37	56	Kh¸nh Hßa Province
38	58	Ninh ThuËn Province
39	60	B×nh ThuËn Province
IV	**4**	**T©y Nguyªn (Central Highlands)**
40	62	Kon Tum Province
41	64	Gia Lai Province
42	66	§¾k L¾k Province
43	67	§¾k N«ng Province
44	68	L©m §ång Province
V	**5**	**Southeastern Area**
45	70	B×nh Ph-íc Province
46	72	T©y Ninh Province
47	74	B×nh D-¬ng Province
48	75	§ång Nai Province
49	77	Bµ RÞa - Vòng TÇu Province
50	79	Hå ChÝ Minh City

Seq	Code	Names of administrative units
VI	**6**	**Mekong Delta**
51	80	Long An Province
52	82	TiÒn Giang Province
53	83	BÕn Tre Province
54	84	Trµ Vinh Province
55	86	VÜnh Long Province
56	87	§ång Th¸p Province
57	89	An Giang Province
58	91	Kiªn Giang Province
59	92	CÇn Th¬ Province
60	93	HËu Giang Province
61	94	Sãc Tr¨ng Province
62	95	B¹c Liªu Province
63	96	Cµ Mau Province

999 Foreign

Section 1A. A list of household members

Member code	1 Pls tell full names of each household members, starting from the head Household members are those who share accommodation and meals from 6 months or more over the last 12 months, and share a pool of incomes and (From (month)…../2011 to month …../2012) Full names are written in capital block letters in the order of a nuclear family (Enumerators should pay attention to special cases)	2 Gender of ..[name].. MALE….1 FEMALE..2	3 The relationship of [name] with the household head? Household head…… 1 Wife/husband…… 2 Child..... 3 Father/mother..... 4 Paternal/maternal grandfather/grandmother.. 5 Paternal/maternal grandchild …… 6 Other relationships…….. 7	4 Month and year of birth of ...[name]... According to solar calendar Month of birth unknown WRITE UNKNOWN Write 2 digits / Write 4 digits Month / Year	5 Age of [name]? Age rounded until month of interview (aged less than 13 >> question 7) Number of years	6 Marital status of [name]? Single… 1 Married.. 2 Widowed.. 3 Divorced.. 4 Separated..... 5	7 For how many months has ..[name].. stayed in the household over the last 12 months? Accumulated months (from 6 months or more >> Q 9) Number of months	8 Why [name] has not lived in the household for more than 6 months? Student studies in the country…… 1 Cadre studies in the country…… 2 Medical treatment in the country/overseas…… 3 Newborn, new comer…… 4 Household head working away.. 5 Others…… 6	9 Where has [name] registered household status? In resident area in commune/ward ..1 >> next person In other places in the province/city…2 >> next person In other province/city ..3 Others……4 Never having registered household status ……5 (>>11)	10 In which province has [name] registered household status? Province name / Province code	11 How long has [name] lived in this province /city? No. of years / No. of months
1										
2										
3										
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5										
6										
7										
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10										
11										
12										
13										
14										
15										

Section 1C. Household members in 2010 VHLSS

Team leader finish question 1, 2, 3, 4, and 5 before giving the questionnaire to enumerators.

1. DID THIS HOUSEHOLD PARTICIPATE IN 2010 VHLSS?

YES..... 1

NO..... 2(>>SECTION 2) ☐

2 Full Name Write full name in capital block letter	**3** Member code in 2010 vhlss	**4** gender in 2010 vhlss	**5** age in 2010 vhlss	**6** In this year, is [name] a household member? YES..... 1 NO..... 2**(>>8)**	**7** Copy member code from part 1a >> Next person	**8** Why is [NAME] no longer living in this household? Moving out or forming a new household..... Died..... (>>next person) Other (Write specificall _____ (>>next person)	**9** Why did…[name]… move out ? Work..... 1 Get married..... 2 Form a new household..... 3 Study..... 4 Live with another household 5 Other (Write specifically _____ 6 if the code are from 2 to 6 >> next person	**10** In which province did [NAME] work?		**11** What kind of job did [NAME] work for?	
								Province name	Province Code	Job description	Occupation Code

Section 1B

1. Does your household have any former members who (1) left the household within the last 10 years or (2) may have left at an earlier time but household still considers important for your household, in terms of obligations to old parents living with your household or financial support to your household

YES..... **1**
NO..... **2 (>> SECTION 2)**

CODE OF MIGRANT	**2** Pls tell the full name of each person as mentioned above. Please tell the names following the oder by relation with the head: spouse, child, parents granndparents, grandchild, siblings, brother/sister in law and other. FULL NAME IN CAPITAL BLOCK LETTERS	**3** Gender of ..[name].. MALE....1 FEMALE..2	**4** The relationship of [name] with the household head? Household head…… 1; Wife/husband…… 2; Child……. 3; Father/mother……. 4; Paternal/maternal grandfather/grandmother…. 5; Paternal/maternal grandchild …… 6; Brother/sister of head……..... 7; Brother in-law/sister in law of head…… 8; Other relationships…… 9	**5** What is year of birth of [name]? IF BIRTH-YEAR > 2002 >> NEXT PERSON Write 4 degits Year	**6** Which grade has [name] completed? Grade conversion into the 12-grade system Not yet completing grade 1, write 0 Never went to school write 00 *>> 9*	**7** The highest qualification has [name] obtained? No qualification..... 0; primary..... 1; lower secondary..... 2; higher secondary..... 3; elementary vocational school…… 4; middle-level vocational school…… 5; professional school..... 6; vocational college..... 7; college..... 8; university..... 9; MA/MSc..... 10; PhD..... 11; Others (specify_____ 12 — General education and college-level upwards / Vocational training	**8** During what calendar year was [name] last enrolled in school Write 4 degits Year	**9** In what year did [name] (first) leave the household ? Write 4 degits Year	**10** What was the primary reason [name] left? PRIMARY..... 1; LOWER SECONDARY..... 2; FOR GETTING MARRIED 3; MIDDLE-LEVEL VOCATIC 4; PROFESSIONAL SCHOOL. 5; COLLEGE..... 6; UNIVERSITY..... 7	**11** Was name working for income during the last 6 months before s/he left the household? Yes 1; No, primarily attending school 2 *>> 13*; No, economically inactive 3 *>> 13*
1											
2											
3											
4											
5											
6											
7											
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10											
11											
12											

Section 1B (cont)

	12a What's the most-time consuming job [name] had in the last 6 months before [name] left the household?		**12b** Names of employer (if any) and description of main tasks and products of employer of the job?			**13** Where did [name] move to when s/he first In this commune 1 ***>> 15*** In other place in this province 2 ***>> 15*** In other province/cit 3 In other country 4	**14** In which province/country did [name] moved to work?	
	Job description	Occ code	Name of employer	Description of employer' main tasks/products	Ind code		Province name	Province code
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Section 1B (cont)

FIRST JOB AFTER LEAVING THE HOUSEHOLD

	15 Did [name] take up work in the new location within the first 6 months?	**16** Is this job similar to the one [NAME] had before leaving the household?	**17a** What's the most time-consuming job [name] had in the first 6 months at the new location?		**17b** Names of employer (if any) and description of main tasks and products of employer of the job?		
	Yes 1 No, primarily attending school 2 *>> 18* No, economically inactive 3 *>> 25*	YES 1 *(>> 25)* NO 2	Job description	Occ code	Name of employer	Description of employer' main tasks/products	Ind code
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

>> 24

Section 1B (cont)

FULLTIME JOB AFTER COMPLETING SCHOOL

	18 Did [name] take up a fulltime job within 6 months after finishing school? Yes 1; No 2 >> Q. 24; Currnently in school 3 >> Q. 31	19 When did [name] start this work (year)? Write 4 degits	20 Where was most of the work located? In this commune 1 >> 22; In other place in this province 2 >> 22; In other province/city 3; In other country 4	21 In which province/country was the work located?		22 Is this job similar to the one [NAME] had before leaving the household? YES 1 (>> 25); NO 2	23a What is the most time-consuming job [name] had in the first 6 months after completing school?		23b Names of employer (if any) and description of main tasks and products of employer of the job?		24 Is [name] still employed in this job? Yes 1 >> 27; No 2
	ASKED IF Q.14 = 2	Year		Province name	Province code		Job description	Occ code	Name of employer	Description of employer' main tasks/products	Ind code
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

CURRENT JOB

	25 In the last 6 months, did [NAME] work for wages? Yes 1 No 2 >> 32	26 When did [name] start this current (year)? Write 4 degits Year	27 Where is [name] living now? In this commune 1 >> 29 In other place in this 2 >> 29 In other province/city 3 In other country 4	28 In which province/country did [name] moved to work? Province name	Pro code	29 Is this job similar to the one [NAME] had before leaving the household? YES 1 (>> Q32 NO 2	30a What is the most time-consuming job [name] had in the last 6 months? Job description	Occ code	30b Names of employer (if any) and description of main tasks and products of employer of the job? Name of employer	Description of employer' main tasks/products	Ind code	31 What are [name's] living circumstances in his/her current place of Living in own house or ap 1 Living with relatives 2 Living in the employer's house 3 Living in employee provided housing 4 Living in rented house or apartment 5 Other (____) 6
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Section 1B (end)

	32 How much (cash, in-kind) did [name] send to the household in the past 12 months? thousand vnd	**33a** How much (cash, in-kind) did the household send to [name] in the past 12 months? thousand vnd	**33b** Of which, how much % did your household have to borrow? %	**34** How many times has [name] visited the household in the past 12 months? WRITE 365 IF DAILY VISIT	**35** Does [name] intend to return and live with the household at some time? Yes, within next year 1; Yes, but some later date 2; No 3; Don't know 4	**36** In an emergency, what is the maximum amount you can ask from [name] without paying back? thousand vnd	**37** In an emergency for [name], how much you will be willing to give her/him? thousand vnd	**38** Is [name] still registered […] with the household? same registrabook 1 (>> 40); in the commune 2 (>> 40); in the district 3 >> *Next person*; Other 4 (>> 40)	**39** In which province has [name] registered household status? Province name	Pro code	**40** What is phone number of [name]
1											
3											
4											
5											
6											
8											
9											
10											
11											
13											
14											
15											

CODE OF MIGRANT	ASK ALL THE RELEVANT FORMER HOUSEHOLD MEMBERS FULL NAME IN CAPITAL BLOCK LETTERS
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

Section 4A2. Migration history

IF THE MIGRANT IS THE HOUSEHOLD HEAD, KEEP ASKING ALL THE QUESTIONS

		First migration for purposes of work											
Member cod	1. Since 2002, was there any period [NAME] left the household for at least 6 month for work? YES..... 1 NO..... 2 *(>> Next person)*	2. In what year did [name] first leave the household for purposes of work? Write 4 degits Year	3. Where did [name] move In this commune 1 **(>> 5)** In other place in this province 2 **(>> 5)** In other province/city 3 In other country 4	4. In which province/country did [name] moved to work? Province name	Pro code	5. In the 1st 6 months after first left, was [NAME]'s the most time-consuming job similar to her/his most time-consuming job last 12 months? most time-consuming job 1 **(>> 7)** second time-consuming job 2 **(>> 7)** other 3 no work 4 **(>> 7)**		6a. What is the most time-consuming job [name] had in the 1st 6 months after first leaving the household? Job description	Occ code	6b. Names of employer (if any) and description of main tasks and products of employer of the job? Name of employer	Description of employer' main tasks/products	Ind code	7. In what year did [name] last return to the household? Write 4 degits Write 9999 if [name] hasn't returned Year	8. Since 2002, how many times did [NAME] left the household like that?

Grade conversion of general education systems

The general education system for conversion		Corresponding levels of general education (SE)								
		The system under the French rule	From 1945 to 1954			Supplementary education (SE) system	The education system in the North			Current education system nationwide
			Free zone		Temporarily occupied zone		Before 1981	From Qu¶ng B×nh northwards		
Level	Grade		1945-1950	1950-1954				1981-1986	1986-1989	
Primary	1	Líp 5 ®ång Êu (Cours enfantin)			Líp n¨m tiÓu häc		Vì lßng	Grade 1 (GE)	Grade 1 (GE)	Grade 1 (GE)
	2	Líp 4 (Cours prÐparatoire)	Líp t-	Grade 1	Líp t- tiÓu häc	Grade 1 (SE)	Grade 1 (GE)	Grade 2 (GE)	Grade 2 (GE)	Grade 2 (GE)
	3	Líp 3 (Cours elementaire) §Ëu s¬ häc yÕu l-îc	Líp ba	Grade 2	Líp ba tiÓu häc	Grade 2 (SE)	Grade 2 (GE)	Grade 3 (GE)	Grade 3 (GE)	Grade 3 (GE)
	4	Líp nh× n¨m thø nhÊt (Moyen1) Líp nh× n¨m thø hai (Moyen2)	Líp nh×	Grade 3	Líp nh× tiÓu häc	Grade 3 (SE)	Grade 3 (GE)	Grade 4 (GE)	Grade 4 (GE)	Grade 4 (GE)
	5	Líp nhÊt (SupÐrieur) §Ëu tiÓu häc (Certificat)	Líp nhÊt	Grade 4	Líp nhÊt tiÓu häc	Grade 4 (SE)	Grade 4 (GE)	Grade 5 (GE)	Grade 5 (GE)	Grade 5 (GE)
Lower secondary	6	§Ö nhÊt ni^{a}n trung häc (PremiÌre annÐe)	§Ö nhÊt ni^{a}n		§Ö thÊt trung häc	Grade 5 (SE)			Grade 6 (GE)	Grade 6 (GE)
	7	§Ö nhÞ ni^{a}n trung häc (DeuxiÌme annÐe)	§Ö nhÞ ni^{a}n	Grade 5	§Ö lôc trung häc	Grade 6 (SE)	Grade 5 (GE)	Grade 6 (GE)	Grade 7 (GE)	Grade 7 (GE)
	8	§Ö tam ni^{a}n trung häc (TroisiÌme annÐe)	§Ö tam ni^{a}n	Grade 6	§Ö ngò trung häc	Grade 7 (SE)	Grade 6 (GE)	Grade 7 (GE)	Grade 8 (GE)	Grade 8 (GE)
	9	§Ö tø ni^{a}n trung häc (QuatriÌme annÐe - Dipl«me)	§Ö tø ni^{a}n	Grade 7	§Ö tø trung häc	Grade 7B (SE)	Grade 7 (GE)			Grade 9 (GE)
Higher secondary	10	§Ö nhÊt ni^{a}n	§Ö nhÊt ni^{a}n chuy^{a}n khoa	Grade 8	§Ö tam	Grade 8 (SE)	Grade 8 (GE)	Grade 10 (GE)	Grade 10 (GE)	Grade 10 (GE)
	11	§Ö nhÞ ni^{a}n, tó tµi phÇn thø nhÊt (BaccalaurÐat premiÌre partie)	§Ö nhÞ ni^{a}n chuy^{a}n khoa	Grade 9	§Ö nhÞ Tó tµi I	Grade 9 (SE) Grade 10A (SE)	Grade 9 (GE)	Grade 11 (GE)	Grade 11 (GE)	Grade 11 (GE)
	12	§Ö tam ni^{a}n, thi tó tµi toµn phÇn (BaccalaurÐat deuxiÌme partie)	§Ö tam ni^{a}n chuy^{a}n khoa		§Ö nhÊt Tó tµi II	Grade 10B (SE)	Grade 10 (GE)	Grade 12 (GE)	Grade 12 (GE)	Grade 12 (GE)

Section 2. Education

Pls tell some information on education of household members.
Questions apply to all household members.

Member code	1 Which grade has [name] completed? Grade conversion into the 12-grade system. Not yet completing grade 1, write 0. Never going to school, write 00 and >>14. Grade	2 The highest qualification has [name] obtained? No qualification 0; primary 1; lower secondary 2; higher secondary 3; elementary vocational school 4; middle-level vocational school 5; professional school 6; vocational college 7; college 8; university 9; MA/MSc 10; PhD 11; Others (specify) 12. General education and college-level upwards	2 Vocational training	3 Which type of school has [name] attended? Public 1; Community-established 2; Private 3; Semi-public 4; Others (Specify) 5	4 Does [name] go to school now? Yes 1 (>>6); On summer vacation 2 (>>6); No 3	5 Has [name] attended school over the past 12 months? Yes 1; No 2 (>>14)	6 At which level of education is [name]? Nursery, kindergarten 0 (>>8); Primary 1; Lower secondary 2; Higher secondary 3; Elementary vocational school 4 (>>8); Middle-level vocational school 5 (>>8); Professional school 6 (>>8); Vocational college 7 (>>8); College 8 (>>8); University 9 (>>8); MA/MSc 10 (>>8); PhD 11 (>>8); Others (specify) 12 (>>8)	7 Which grade is [name] attending? Write the number of grade that he/she is attending. Grade	8 Which school does [name] attend? Public 1; Community-established 2; Private 3; Others (Specify) 4
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

Section 2. Education *(cont'd)*

Member code	9 Has [name] enjoyed reduction of or exemption from tuition fees or contributions to education? Yes.....1 No..... 2 **(>>11)**	10 Reasons for reduction/exemption? Poor households.....1 Ethnic minorities.....2 Households of fallen combatants, war invalids, sick soldiers, or with revolutionary merits ....4 Deep, remote, especially difficult areas.....5 families in difficult circumstances.....6 Primary school students.....7 School doesn't collect tuition fees 8 Others (specify_____)9		11 Expenditures on [name]'s education over the past 12 months for compulsory subjects in school? Try to illicit breakdown information; in case of no expenditures, write 0; if unknown or not remembered clearly, write KB; if a total and some details are remembered only, write the total and fill in relevant breakdown columns; Write kb in columns for which information is not remembered. 1000 ®ång									
		Tuition fees	Contributions	**a** Tuition fees?	**b** Charge for following a relevant reference system?	**c** Contributions to school, class (construction fund, ...)?	**d** Parent fund class fund?	**e** Uniforms and costumes stipulated?	**f** Textbooks, reference books?	**g** Other study instruments? (paper, pens, bags, notebooks,...)?	**h** Coaching sessions for compulsory subjects in school?	**i** Other educatio expenditures? (exam fees, travel, rent, student body insurance,...)?	**k** **Total (a +b +...+i)**
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

2CT. Sum of 11k and 14

Section 2. Education *(End)*

Member code	12 Funds received from organisations that provide aid in education over the past 12 months? (food, accommodation, travel, textbooks, uniforms,…) If none, write 0 1000 ®ång	13 Values of scholarships and rewards received over the last 12 months? If none, write 0 1000 ®ång	14 Expenditures for other education and training over the past 12 months? (foreign language certificates, shorthand typing, hairdressing, makeup,...) If none write 0 1000 ®ång	15 The question applies to members aged 5 or less. Which of the following toys does [name] play with at home? Yes..... 1 No..... 2		16 How many books/cartoon stories does your household have for children? The question applies to households with members aged 17 or less. If none, write 0; if more than 10 are available, write 10 only. Quantity
				a Toys bought in shops	b Self-made toys	
1						
2						x
3						x
4						x
5						x
6						x
7						x
8						x
9						x
10						x
11						x
12						x
13						x
14						x
15						x

2tn. Sum of 12 and 13:

Section 3. Healthcare

1. Has anyone in your household visited medical establishments or had home visits by physicians for check-ups and treatment over the last 12 months? Yes..... 1 ☐

(including health and pregnancy checks, abortion, insertion of intrauterine device, birth delivery... in case of no sickness/diseases/injuries) No..... 2 **(>>9)**

Member code	**2** Names of users of medical services over the last 12 months?	**3** Which medical establishments has [name] visited? (including inviting physicians home) Village/hamlet clinics..... 1 Commune/ward clinics..... 2 Regional general clinics..... 3 Urban/rural district hospitals..... 4 Provincial/city hospitals..... 5 Central hospitals..... 6 Other state-run hospitals..... 7 Private hospitals..... 8 Other hospitals..... 9 Private practice ..... 10 Traditional herbal physicians..... 11 Individual medical services ..... 12 Other medical establishments..... 13		**4** Reasons for [name] to visit medical establishments? Vaccination..... 1 Pregnancy checks, insertion of intrauterine devices, abortion, birth delivery..... 2 Health checks and consultancy ..... 3 Medical treatment..... 4	**5** Number of visits and costs for health checks/non-resident treatment of [name] over the past 12 months (costs include fees for check-ups, treatment, medicines, allowances for physicians, travel, purchase of facilities,... relating to visits for check-up/treatment) (If none, write 0)		**6** Number and costs of visits for resident treatment of [name] over the past 12 months? Costs include hospital fees and others (allowances for physicians, charges for on-demand services, purchase of additional medicines, facilities, travel for caring,...) relating to the visits for check-ups/treatment) (If none, write 0)		**7** Did the household afford the medical check/treatment for [name]? Yes, it did … ....1 (>>the next visit/person) It had some but not enough.. ....2 No..... 3	**8** If it did have some but not enough or didn't afford, did you have to sell products, assets, or borrow, or withdraw savings/shares/contributions to informal savings funds, or collect debts to pay costs of the medical check/treatment? If yes, how much? Write 0 if none
		Sequence number	Medical establishment code		Number of visits	Cost 1000 ®ång	Number of visits	Cost 1000 ®ång		1000 ®ång

3ct1. Sum for Q**5** ☐ **3ct2.** Sum for Q**6** ☐

Section 3. Healthcare *(end)*

Pls tell some information on health insurance cards or free healthcare booklets/cards/certificates of household members.
Questions apply to all household members

M e m b e r c o d e	**9** Over the past 12 months, has [name] had a health insurance card or a free healthcare booklet/card/certificate? Yes.....1 No..... 2 **(>>13)**	**10** Which one does [name] have? booklet/card for children aged 6 or less . . . . . 1**(>>12)** health insurance card for the poor . . . . . 2**(>>12)** health insurance card for the near-poor . . . . . 3**(>>12)** free healthcare booklet/card/certificate..... 4**(>>12)** health insurance card for policy beneficiaries..... 5**(>>12)** other compulsory state-run health insurance card.... 6**(>>12)** other compulsory non-state health insurance card .. 7**(>>12)** Voluntary health insurance card for students ..... 8 Other voluntary health insurance card ..... 9 Others..... 10		**11** How much has [name] spent on health insurance over the past 12 months? (if none, write 0)	**12** Has [name] used the health insurance cards or free healthcare booklets/cards/certificates during visits for check-ups and treatment over the past 12 months? Yes..... 1 No..... 2		**13** How much has your household spent on purchasing medicines without check-ups (prescriptions) for self-treatment or reserves over the past 12 months? (including expenditures on medicines and others, such as travel, vehicle-depositing fees,...) (if none, write 0)	**14** How much has your household spent on purchasing medical facilities over the last 12 months? For instance, sthethoscopes, blood pressure monitors, hearing aids, phlegm absorbers, medicine cabinet, clinical thermometers, cotton, bandage, compresses... (if none, write 0)	**15** How much in cash and kind has your household received over the past 12 months as aid for members who are sick/injured/ contracts a disease? (if none, write 0)
		the first	the second	1000 ®ång	Out-service	In-service	1000 ®ång	1000 ®ång	1000 ®ång
1									
2							x	x	x
3							x	x	x
4							x	x	x
5							x	x	x
6							x	x	x
7							x	x	x
8							x	x	x
9							x	x	x
10							x	x	x
11							x	x	x
12							x	x	x
13							x	x	x
14							x	x	x
15							x	x	x

3ct3. Sum for Q11 | **3ct. Healthcare expenditures** | **3tn. Sum for Q15**

(3ct1 + 3ct2 + 3ct3 + Q13 + Q14)

A list of occupations

(1) Leaders/managers from sectors and organisations, at different levels

11 Agencies of the Communist Party of Vietnam at central and local levels (full-time posts)

12 The National Assembly and Office of the State President

13 The Government

14 People's courts and people's prosecutorates

15 Local people's councils and people's committees (including locally run specialized divisions, excluding legal affairs divisions and mass organizations)

16 Mass organizations; Vietnam Fatherland Front; Labour Confederation; Women's Union; Farmers' Union; Youth Union; Veterans' Association;

17 Private organisations; humanitarian organizations; organizations for other particular benefits;

18 Major organisations (groups, general corporations and the like)

19 Small organisations (companies, businesses, and enterprises, small schools)

(2) High-level experts in the following areas:

21 Natural sciences and technology

22 Healthcare

23 Education and training

24 Business and management

25 IT and communication

26 Legal, cultural and social affairs

(3) Average-level experts in the following areas

31 Technicians in science and technology

32 Technicians in healthcare

33 Business and management

34 Legal, cultural and social affairs

35 Technicians in IT and communication

36 Average-level teachers

(4) Office staff

41 General officers and desk-based officers

42 Customer service staff

43 Data and input enumerators

44 Other office assistants

(5) Service and sales staff

51 Personal service staff

52 Sales staff

53 Personal care staff

54 Security service staff

(6) Skilled labourers in agriculture, forestry, and fisheries

61 Labourers with market-demanded skills in agriculture

62 Labourers with market-demanded skills in forestry, fisheries and hunting

63 Labourers in agriculture, fisheries, hunting and collection of farm produce for self-subsidy

(7) Manual labourers and related occupations

71 Construction-related workers (except electricians)

72 Metal smiths, mechanics and other workers related

73 Handcrafters, and printing-related workers

74 Electricians and electronics workers

75 Workers in food-processing, woodwork, garment making, and other handicrafts, and other workers relatec

(8) Machine assembling and operating workers

81 Operators of fixed machines and equipment

82 Machine assembling workers

83 Vehicle drivers and operators of moving equipment

(9) Low-skilled labourers

91 Cleaners and domestic helps

92 Low-skilled labourers in agriculture, forestry and fisheries

93 Workers in mining, construction, industry, and transport

94 Assistants in food preparation

95 Street-based and sales-related labourers

96 Waste collectors and other low-skilled labourers

(0) Members of the armed forces

01 Officers

02 Non-officers

03 Other members of the armed forces

Section 4. Incomes

Part 4A. Employment and salaries and wages

These questions concern all household members aged 6 or more.

Member code	1 Over the past 12 months, have you… a taken waged/salaried employment? (Waged/ salaried employment; Yes.....1 No.....2)	b been involved in production or services regarding production, husbandry, forestry and aquaculture for the household? (Self-employment in agriculture, forestry, aquaculture; Yes.....1 No.....2)	c been involved in production, business or services of the household? (Self-engagement in production, business, services outside agriculture, forestry, aquaculture; Yes.....1 No.....2)	2 having job? (Yes - code 1 in Question 1) Yes.....1 No.....2 (>>27)	The most time-consuming (main) employment over the last 12 months: 3 Which job has been the most time-consuming of …[name]… over the last 12 months? a. For how many days has …[name] … taken this job over the last 12 … Number of days	Job description	Occupation code	4 Names of employer (if any) and description of main tasks and products of employer where … [name]…has/had taken that job? Names of employer	Description of employer' main tasks/products	Industry code	5 Has … [name]… taken that job over the past 30 days? Yes.....1 No.....2	6 For how many days has … [name] taken this job these days (or over the last 30 days) ? Day(s)	7 On average, for how many hours a day has … [name] taken this job during these working days? Hour(s)

A list of industries

AGRICULTURE, FORESTRY AND AQUACULTURE

01 Agriculture and related services (crop production: 0110, husbandry: 0140, and agricultural services: 0160)

02 Forestry and related services

03 Aquaculture production and exploitation

MINING AND QUARRYING

05 Exploitation of hard coal and lignite

06 Exploitation of crude oil and natural gas

07 Exploitation of metal ores

08 Other mining and quarrying

09 Mining supporting services

PROCESSING AND MANUFACTURING INDUSTRIES

10 Foodstuff production and processing

11 Beverages production

12 Production of cigarette products

13 Textiles

14 Costume production

15 Production of leather and related products

16 Wood-processing and making of wood and bamboo products (except beds, wardrobes, desks, chairs); making products from straw and plaiting materials

17 Producing paper and paper-based products

18 Printing and reproduction of recorded media

19 Production of coke coal and refined oil products

20 Production of chemicals and chemical products

21 Production of medicines, pharmaceutical chemicals and materials

22 Manufacturing of rubber and plastic products

23 Manufacturing of products from other non-metallic minerals

24 Production of metals

25 Manufacturing of products from cast metal (except machines and equipment)

26 Manufacturing of electronic products, PCs and optical products

27 Manufacturing of electrical equipment

28 Manufacturing of unclassified machines and equipment

29 Manufacturing of motorized vehicles and truck trailers

30 Manufacturing of other transport vehicles

31 Manufacturing of beds, cabinets, desks and chairs

32 Other processing and manufacturing industries

33 Repair, maintenance, and installation of machines and equipment

PRODUCTION AND DISTRIBUTION OF ELECTRICITY, GAS, HOT WATER, STEAM AND AIR-CONDITIONERS

35 Production and distribution of electricity, gas, hot water, steam and air conditioners

WATER SUPPLY; MANAGEMENT AND TREATMENT OF SEWERAGE AND WASTE

36 Exploitation, treatment, and supply of water

37 Water drainage and treatment of waste water

38 Waste collection, treatment and disposal activities; recycling of waste

39 Treatment of pollution and other activities of waste management

CONSTRUCTION

41 Construction of houses of various kinds

42 Construction of technical civil works

43 Special-use construction activities

WHOLESALE, RETAIL, AND REPAIR OF AUTOMOBILES, MOTORBIKES, SCOOTERS AND OTHER MOTORIZED VEHICLES

45 Sales and repairs of automobiles, motorbikes, scooters, and other motorized vehicles

46 Wholesale (except automobiles, motorbikes, scooters, and other motorized vehicles)

47 Retail (except automobiles, motorbikes, scooters, and other motorized vehicles)

TRANSPORT, WAREHOUSE

49 Transport by railways, roads, and pipelines

50 Waterway transport

51 Airway transport

52 Warehouse and supporting activities for transport

53 Postal and delivery services

SERVICES OF ACCOMMODATION, FOOD AND BEVERAGES

55 Accommodation services

56 Food and beverages services

INFORMATION AND COMMUNICATION

58 Publication activities

59 Cinematographic activities, production of TV programs, recording and musical publication

60 Broadcasting activities

61 Telecommunications

62 Computer programming, consulting services and other activities relating to computers

63 Information services

A LIST OF INDUSTRIES (end)

FINANCE, BANKING, AND INSURANCE

64 Financial services, except insurances and social insurance

65 Insurances, re-insurance, and social insurance, except compulsory social assurance

66 Other financial activities

BUSINESS IN REAL ESTATES

68 Business in real estates

PROFESSIONALISM, SCIENCE AND TECHNOLOGY

69 Legal, accounting and auditing activities

70 Activities of head offices; management consultancy

71 Architecture; technical check and analysis

72 Scientific research and development

73 Advertising and market research

74 Other professional, scientific and technological activities

75 Veterinary activities

ADMINISTRATION AND SUPPORTING SERVICES

77 Leasing of machinery and equipment (without operators) and of personal and household utensils; and leasing of intangible non-financial assets

78 Labor and employment services

79 Travel agency, tour operator and other supporting services relating to tour promotion and organization

80 Investigation for safety reasons

81 Services of cleaning houses, works, and public spaces

82 Office administration and support, and other business-supporting activities

ACTIVITIES OF THE COMMUNIST PARTY AND SOCIO-POLITICAL ORGANIZATIONS, STATE MANAGEMENT, PUBLIC SECURITY AND DEFENSE; COMPULSORY SOCIAL ASSURANCE

84 Activities of the Communist Party and socio-political organisations, state management, public security and defense; compulsory social assurance

EDUCATION AND TRAINING

85 Education and training

HEALTHCARE AND SOCIAL ASSISTANCE

86 Healthcare

87 Concentrated care and nursing

88 Non-concentrated social assistance

ARTS, RECREATION AND ENTERTAINMENT

90 Creative, arts and entertainment activities

91 Library, archive, museum and other cultural activities

92 Lottery, betting and gambling

93 Sports, recreation and entertainment

OTHER SERVICES

94 Activities of other associations and organizations

95 Repair of computers and personal and household utensils

96 Other personal services

HOUSEHOLD EMPLOYMENT GENERATED BY HOUSEHOLDS; HOUSEHOLD SELF-PRODUCTION AND SELF-SERVICES

97 Household employment generated by households;

98 Household self-production and self-services;

ACTIVITIES OF INTERNATIONAL ORGANIZATIONS AND BODIES

99 Activities of international organizations and bodies

Section 4A. Employment, salaries, and wages *(cont'd)*

The most time-consuming (main) job over the last 12 months?

member code	**8** For which organizations/individuals has [name] worked?		**9** Has [name] received salaries, wages for this job?	**10** How much in cash and kind has [name] received from this job over the past 30 days (or over the last 30 days) ?	**11** How much in salaries/wages, inc that in kind, has [name] received from this job over the past 12 months?	**12** Over the past 12 months, how much in cash and kind, apart from salaries/wages from this job, has [name] received from the following: if none, write 0		**13** In this job, has [name] been entitled to		
	a. Economic types? Farming, forestry, aquaculture households/individuals . 1(>>9); Independent production and business households..... 2(>>9); Collective..... 3(>>9); Private..... 4(>>9); State-run..... 5; Foreign-invested..... 6(>>9)	b. Is [name] a public employee public or civil servant? Yes.....1 No.....2	Yes.....1 No.....2 (>>14)	thousand §ång	thousand §ång	**a** Festive occasions, (1/5, 2/9, 22/12, Lunar TÕt …) thousand §ång	**b** Others (bonuses, uniforms, lunch, allowances for busines trips, sickness, labor accidents, pregnancy ...) thousand §ång	**a** Signing a payroll book? Yes.....1 No....2	**b** Paid leave / holidays? Yes.....1 No....2	**c** Social insurance? Yes.....1 No....2

Section 4A. Employment, salaries/wages *(cont'd)*

		The second most time-consuming (supplementary) employment over the last 12 months								
Member code	**14** Has [name] taken any other jobs o the last 12 months? Yes.....1 No ....2**(>>27)**	**15** What is the second most time-consuming job (after the main one) taken by [name] over the past 12 months?			**16** Names of employer (if any) and description of main tasks and products of employer where …[name]…has performed that job?			**17** Has…[name] … performed this job over the past 30 days? Yes.....1 No.....2	**18** During these days (or during the last 30 days), for how many days has …[name] … performed this job? Day(s)	**19** During these working days, on an average day, for how many hours has [name] performed this job? Hour(s)
		a. For how many days has [name] performed this job over the past 12 months? Number of days	Job description	Occupation code	Name of employer	Description of main tasks/products of employer	Industry code			

Section 4A. Employment, salaries, and wages (cont'd)

	The second most time-consuming (supplementary) job over the last 12 months							
Member code	**20** For which organizations/individuals has [name] worked? Farming, forestry, aquaculture household 1 Independent production and business ho 2 Collective..... 3 Private..... 4 State-run..... 5 Foreign-invested..... 6	**21** Has [name] received salaries, wages for this job? Yes..... 1 No..... 2 (>>25)	**22** How much in cash and kind has [name] received from this job over the past 30 days (or over the last 30 days) ? Thousand §ång	**23** How much in salaries/wages, includin that in kind, has [name] received from this job over the last 12 months? months? Thousand §ång	**24** Over the last 12 months, how much in cash and kind, apart from salaries/wages from this job, has [name] received from the following: If none, write 0 **a** Festive occasions (1/5, 2/9, 22/12, Lunar New Year Thousand §ång	**b** Others (bonuses, uniforms, lunch, allowances for business trips, sickness, labor accidents, pregnancy ...) Thousand §ång	**25** Apart from the foregoing jobs, has [name] taker any other salaried/waged jobs? Yes.....1 No ..2**(>>27)**	**26** How much money has [name] received from these jobs? (from the third job onwards) Thousand ®ång

4ATN3. Sum of Q23 | 4ATN4. Sum of Q24a & 24b | 4ATN5. Sum of Q26

Section 4A. Employment and salaries/wages *(end)*

These questions apply to respondents aged 15 or more

member code	Pensions, unemployment allowances, and one-off severance pays					
	27 Has [name] received unemployment benefits, one-off severance pays, pensions, allowance for loss of working capacity over the past 12 months? Yes……..1 No……..2 (>>Next respondent)	**28** Which allowances/benefits is [name] entitled to and how much has he/she received over the past 12 months? if none, write 0				
		a. Unemployment allowance thousand ®ång	b. One-off severance pay thousand ®ång	c. standard pension at a stipulated age thousand ®ång	d. Premature pension thousand ®ång	e. Allowance for loss of working capacity thousand ®ång

4ATN6. Sum (28a+28b+28c+28d+28e)

4ATN. Incomes from salaries, wages, pensions and allowances (4ATN1+4ATN2+4ATN3+4ATN4+4ATN5+4ATN6)

Age	Names of household members	Member code
		1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12
		13
		14
		15

4B. Farm, forestry and aquaculture activities

4B0. Farm land, forestry land and aquaculture water surface

1. Has your family used or managed farm land, forestry land or aquaculture surface water over the last 12 months? Yes……1

(regardless of rented and rented-out land over the last 12 months and including gardens and ponds adjacent to residential lanc No…… 2 (>> 4B1) ☐

Now, I would like to ask you about all types of land that members of your family use or manage.

CODE	**2** Which of the following types of lands does your family use or manage? Question 2 applies to all types of land before moving to Questions 3 - 5	Cross off if yes: X	**3** How much area of land does your family use or manage? M2	**4** How much has been paid in cash and in kind for land rental or procurement over the last 12 months? If NONE, WRITE 0 1000 VND	**5** The revenues in cash or in kind from renting out land over the last 12 months? IF NONE, WRITE 0 1000 VND
1	Annual crop land				
2	Perennial crop land				
3	Forestry land				
4	Water surface				
5	Gardens, ponds adjacent to residential land				
6	Shifting-cultivation farmland				
7	Others (specify:_____)				

4BOTN. Sum of Q5 ☐

4B. Farm, forestry and aquaculture activities

4B1. Cultivation

1a. Has your family harvested any products from cultivation over the last 12 months? Yes..... 1 (>>Question 2) ☐
No.....2

1b. Are there any impacts of natural disasters, diseases, etc. which have caused loss in production? Yes..... 1 (>> 4B1.6) ☐
No..... 2 (>> 4B2)

4B1.1. Rice

order	**2** Which types of rice have your family harvested over the last 12 months? IF DETAILS ARE FILLED OUT FROM ROWS 1 - 4, THERE IS NO NEED FOR A TOTAL ON ROW 5; IF IT IS IMPOSSIBLE TO WORK OUT DETAILS, JUST FILL IN A TOTAL ON ROW 5	Cross off if it is the case: X	**3** What is the cultivated area of […] over the last 12 months? M2	**4** How much […] have your family harvested over the last 12 months? KG	**5** How much of […] harvested has been lost to pests, rot and any other reasons? KG	**6** How much of […] harvested have you put to sale or barter over the last 12 months? All the times of selling the harvest output in the last 12 months. If none is sold or bartered, fill in 0 and >>8 KG	**7** What are the proceeds from sales or barter of […] over the last 12 months? thousand VND	**8** What is the value of the output harvested over the last 12 months? thousand VND
1	Winter-Spring plain rice?							
2	Summer-Autumn plain rice?							
3	Autumn-Winter plain rice?							
4	Upland plain rice?							
5	Annual total of plain rice?							
6	Annual total of sticky rice?							
7	Annual total of specialty rice?							

4B11T. Sum of Q8 ☐

4B1.2. Staple food crops, non-staple food crops, and other annual crops

Order	2 Which of the following crops has your family harvested over the last 12 months? Ask Question 2 before moving onto Question 3 cross off if any	X	3 On how much area have you grown […]? M^2	4 How much […] have you harvested over the last 12 months? KG	5 How much of […] harvested have you put to sale or barter over the last 12 months? All times of selling or bartering outputs harvested over the last 12 months are counted. If none is sold or bartered fill in 0 and >>7 KG	6 The total revenues from sale or barter of […] over the last 12 months? thousand VND	7 What is the value of the output harvested over the last 12 months thousand VND
8	Maize (corn)						
9	Sweet potato						
10	Cassava/manioc						
11	Other staple food crops						
12	Potato						
13	Morning glory vegetable						
14	Kohlrabi						
15	Cabbage, cauliflower						
16	Cruciferous vegetables						
17	Edible beans						
18	Tomato						
19	Seasoning herb			x	x		
20	Other edible vegetables, fruits and roots			x	x		
21	Other annual crops (green, black and red bean, flowers, decorative plants, plants for animal feed and manure, etc.)			x	x		

4B12T. Sum of Q7

4B1.3. Annual and perennial industrial crops

Order	2 Which of the following crops has your family harvested over the last 12 months? Ask Question 2 before moving onto Question 3 cross off if any		3 The cultivated areas or the number of seedlings […] that your household has looked after or grown for the product? code m2:……1 unit…… 2		4 How much […] have you harvested over the last 12 months?	5 How much of […] harvested have you put to sale or barter over the last 12 months? (All times of selling or bartering outputs harvested over the last 12 months are counted) If none is sold or bartered, fill in 0 and >>7	6 The total revenues from sales or barter of […] over the last 12 months?	7 What is the value of the output harvested over the last 12 months?
		X	Quantity	code	KG	KG	thousand VND	thousand VND
22	Soya bean/soybean			1				
23	Peanut/groundnut			1				
24	Sesame			1				
25	Sugarcane			1				
26	Tobacco, rustic tobacco			1				
27	Cotton			1				
28	Jute, ramie (China grass)			1				
29	Sedge			1				
30	Other industrial annuals			1	x	x		
31	Tea							
32	Coffee							
33	Rubber							
34	Pepper							
35	Coconut							
36	Mulberry			1				
37	Cashew							
38	Other industrial perennials				x	x		

4B13T. Sum of Q7

4B1.4. Fruit trees

Order	2 Which of the following crops has your family harvested over the last 12 months? Ask Question 2 before moving onto Question 3 cross off if any		3 What is the output from the acreage or quantity of […] your family tend to or cultivate? code m2:…… 1 unit::…… 2		4 How much […] have you harvested over the last 12 months?	5 How much of […] harvested have you put to sale or barter over the last 12 months? (All times of selling or bartering the outputs harvested over the last 12 months are counted) If none is sold or bartered, fill in 0 and >>7	6 The total revenues from sales or barter of […] over the last 12 months?	7 What is the value of the output harvested over the last 12 months
		X	quantity	code	KG	KG	thousand VND	thousand VND
39	Citrus							
40	Pineapple							
41	Banana							
42	Mango, horse mango							
43	Indian jujube							
44	Grape							
45	Plum							
46	Papaya							
47	Longan, lychee, rambutan							
48	Sapodilla							
49	Sugar-apple, soursop							
50	Jackfruit, durian							
51	Mangosteen							
52	Other fruit trees				x	x		
53	Other perennials				x	x		
54	Seedlings				x	x		

4B14T. Sum of Q7

4B1.5. Revenues from harvested by-products

Order	1 Has your family used or sold […] over the last 12 months Ask Question 1 before moving onto Question 2 Cross off if any	X	2 What are the revenues fro sales of […] over the last 12 months? thousand VND	3 How much value of […] have been used as animal fe by your family over the last 12 months? thousand VND	4 How much value of […] have been used for other purpo by your family over the last 12 months? thousand VND	5 What is the total value of by-products harvested over the last 12 months? (2 + 3 + 4) thousand VND
1	Rice straw					
2	Sweet potato leaf and stem					
3	Maize or cassava stem					
4	Bean stem					
5	Sugarcane bud and leaf					
6	Jute and ramie stems			x		
7	Mulberry stem			x		
8	Firewood (from agricultural crops)			x		
9	Other by-products					
10	Collected products					

4B15T. Sum of Q5

4B1T. Total revenues from crop production (4B11T+4B12T+4B13T+4B14T+4B15T)

4B1.6. Costs of cultivation

order	1. On which of the following items has your family spent for the products harvested over the last 12 months? (including purchase, barter, self-subsidy, and gift, etc.; not including collected items not counted in incomes)	cross off if any (x)	2. How much has your family spent on the following crops? If none, fill in 0; if details are not remembered, fill in KB and the total cost in the 'Total' column						
			a. Rice	b. Staple food and other non-staple food crops	c. Industrial crops	d. Fruit trees and other trees except forest trees	e. Total (a + b + c + d)	of which	
								e1. State subsidy	e2. Other assistance
	Ask Question 1 before moving onto Question 2		thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND
1	Seeds								
2	Seedlings								
3	Chemical fertilizers (nitrate, phosphate, potash, NPK, etc...)								
4	Organic fertilizer (self-supplied)								
5	Organic fertilizer (outsourced)								
6	Pesticide								
7	Herbicide								
8	Small tools, cheap and undurable objects (sickle, scythe, hoe, shovel, etc)								
9	Energy, fuel		X	X	X	X	X	X	X
9.1	Electricity								
9.2	Coal								
9.3	Coal briquette								
9.4	Petrol								
9.5	Kerosene								
9.6	Mazut oil								
9.7	Diesel oil								
9.8	LPG								
9.9	Natural gas								
9.10	Firewood								
9.11	Other energy and fuels								
10	Small repairs, maintenance								
11	Fixed asset depreciation								
12	Land rental and procurement								
13	Hire of assets, machines, vehicles and mechanical work; hire of transport								
14	Hire of ploughing cattle								
15	Paying outsourced labour								
16	Inner-field irrigation								
17	Payment of interest on loans taken out for production								
18	Other costs (charges, post, advertisement, marketing, production insurance, plant protection fund, field improvement fund, agri-extension fund, administration management fund, feed for ploughing cattle, etc)								

Total costs of crop production (Sum of Q2e) ____

4b1.7 Quantity of fertilizer used by the household for plants

Order	**1.** Types of fertilizer	**2.** Paddy rice plants KG	**3.** Other food crops KG	**4.** Industrial crops KG	**5.** Fruit trees and other types of trees, except forest trees KG	**6. Total (2 + 3 + 4 + 5)** KG
1	Nitrogenous fertilizer					
2	Phosphorous fertilizer					
3	Kali					
4	NPK					
5	Other fertilizers					

Calculation of animal feed values

(Enumerators calculate these before filling in column 8 of Section 4B2.2 Costs of husbandry)

Animals	1 Values of feed self-subsidized by the household thousand ®ång	2 Values of purchased feed thousand ®ång	**3** Total (1 + 2) thousand ®ång
1. Pig(s)			
2. Buffalo(es), cow(s)			
3. Horse(s)			
4. Goat(s), sheep			
5.Chicken			
6. Duck(s), goose/geese			
7. Other poultry			
8. Bees			
9. Silk worms			
10. Others (specify)			

4B2. ANIMAL HUSBANDRY AND HUNTING, TRAPPING, DOMESTICATION OF BIRDS AND ANIMALS

1a. Has your family raised or possessed animals, poultry and livestock; or harvested from hunting, trapping and domestication of birds and animals over the past 12 months?

YES..... 1 (>> QUESTION 2)
NO..... 2

1b. Have natural disasters and epidemics... damaged production?

YES..... 1 (>> 4b2.2)
NO..... 2 (>> 4B3)

4B2.1. Revenues from husbandry, hunting, trapping and domestication of birds and animals

order	**2** Which of the following products has your family obtained? CROSS OFF IF ANY. Ask question 2 before moving onto question 3	x	unit	**3** How much of [.....] has your family obtained over the last 12 months? quantity	**4** How much of which have your sold, bartered, paid as wages or given away over the last 12 months? a. Quantity If none fill in 0 and >>5	b. Value thousand vnd	**5** What is the value of the output obtained over the last 12 months? thousand vnd
1	Pork		kg				
2	Beef and water buffalo meat		kg				
3	Horsemeat		kg				
4	Goat meat, sheep meat (lamb, hogget, mutton)		kg				
5	Chicken		kg				
6	Duck, Muscovy duck and goose meat		kg				
7	Other poultry meat		kg				
8	Piglet		head				
9	Calf and water buffalo calf		head				
10	Other young animals and poultry		x	x	x		
11	Other raised animals (bear, deer, rabbit, dog, etc)		x	x	x		
12	Poultry egg (chicken, duck, etc)		egg				
13	Fresh milk		liter				
14	Silk cocoon		kg				
15	Honey of kept bees		kg				
16	Other animal products (not slaughtered)		x	x	x		
17	Other outputs from husbandry		x	x	x		
18	Animal by-product		x	x	x		
19	Products from hunting, trapping, and domestication of birds and animals		x	x	x		

4B21T. Sum of Q5, from rows 1 to 18 (revenue from livestocks) ____

4B22T. Sum of Q5, row 19 (revenue from hunting) ____

4B2.2 COSTS OF HUSBANDRY, HUNTING, TRAPPING AND DOMESTICATION OF BIRDS AND ANIMALS

Pls tell us about costs of husbandry for products you have obtained over the last 12 months (including self-subsidy, sales, barter, and gift).

If none, fill in 0; if details are not remembered, fill in KB; if only a total and some details are remembered, , fill in the total and available details in relevant columns and KB for those with no information.

ORDER		**7** Young animals, poultry, and livestock	**8** Feed Start filling in from the 'total' column in calculation table	**9** Medicines for animals and poultry	**10.** Energy and fuel										
					a Electricity	**b** Coal	**c** Coal briquette	**d** Petrol	**e** Kerosene	**f** Mazut oil	**g** Diesel oil	**h** LPG	**i** Natural gas	**j** Firewood	**k** Others
		thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND	thousand VND
1	Pig/swine														
2	Cattle, water buffalo														
3	Horse														
4	Goat, sheep														
5	Chicken														
6	Duck, Muscovy duck, goose														
7	Other poultry														
8	Honey bee														
9	Silkworm														
10	Other products of husbandry (specify)														
11	Products from hunting, trapping and domestication	x													

4B2.2 COSTS OF HUSBANDRY, HUNTING, TRAPPING AND DOMESTICATION OF BIRDS AND ANIMALS (END)

Order		11 Water	12 Depreciation of fixed assets	13 Land rental and procurement	14 Hiring of machines , vehicles, slaughter, and transport	15 Pay for outsourced labor	16 Payment of interest on loans for husbandry	17 Business tax	18 Other costs (cheap, non-durables, charges, post, advertising, marketing, production insurance, etc)	19 **Total** **(7 +…+ 18)**
		Thousand VND	Thousand VND	Thousand VND	Thousand VND	Thousand VND	Thousand VND	housand VN	Thousand VND	Thousand VND
1	Pig/swine									
2	Cattle, water buffalo									
3	Horse									
4	Goat, sheep									
5	Chicken									
6	Duck, Muscovy duck, goose									
7	Other poultry									
8	Honey bee									
9	Silkworm									
10	Other products of husbandry (specify)									
11	Products from hunting, trapping and domestication									

4B21C. Sum of Q19, from rows 1 to 10 (cost of husbandry) ____

4B22C. Sum of Q19, row 11 (cost of hunting) ____

4b3. Agricultural services

1a. Has any member of your family owned machines, equipment and tools for agricultural services over the last 12 months? YES..... 1(>>question 2) ☐

(such as for ploughing, soil preparation, irrigation, pest prevention and control, rice threshing, semi-processing, and other services such as artificial insemination and castration of animals and poultry, etc) No..... 2

1b. Have natural disasters and epidemics… damaged production? Yes..... 1 (>> 4b3.2) ☐

No..... 2 (>> 4B4)

4b3.1. Revenues from agricultural service activities

order	**2.** Which of the following activities have brought your family revenues? CROSS OFF IF ANY. Ask question 2 before moving onto question 3.	x	**3.** How many months of activities over the last 12 months? Number of months	**4.** How much have you earned per month on average? thousand VND	**5. Total revenues (3 x 4)** thousand VND
1	Ploughing and soil preparation				
2	Irrigation				
3	Pest prevention and control				
4	Rice threshing, semi-processing				
5	Other services (artificial insemination, castration, etc)				

4B3T. Sum of Q5 (revenue from agricultural services) ☐

4b3.2. Costs of agricultural service activities

Pls tell the costs you have incurred for agricultural service activities over the last 12 months? (If none, fill in 0; if details are not remembered, fill in KB)

Order	**6.** On which of the following activities has your family spent? CROSS OFF IF ANY. Ask question 6 before moving onto question 7 (x)	**7.** Cost of materials	**8.** Small tools, cheap non-durables	**9.** Energy, fuel									
				a Electricity	**b** Coal	**c** Coal briquette	**d** Petrol	**e** Kerosene	**f** Mazut oil	**g** Diesel oil	**h** LPG	**i** Natural gas	**j** Fuelwood	**k** Others
		1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND
1	Ploughing and soil preparation													
2	Irrigation													
3	Pest prevention and control													
4	Rice threshing, semi-processing													
5	Other services (artificial insemination, castration, etc)													

Order	**6.** On which of the following activities has your family spent? CROSS OFF IF ANY. Ask question 6 before moving onto question 7 (x)	**10.** Small repairs, maintenance	11. Fixed asset depreciation	**12.** Renting of workshop floor, machines, vehicles, assets, and means of transport	**13.** Pay for outsourced labor	**14.** Payment of interests on loans for agricultural service activities	**15.** Business tax	**16.** Other costs (charges, post, advertising, marketing, production, insurance, feed for breeding male swine etc)	**17. Total cost (7 + ….+ 16)**
		1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND	1,000 VND
1	Ploughing and soil preparation								
2	Irrigation								
3	Pest prevention and control								
4	Rice threshing, semi-processing								
5	Other services (artificial insemination, castration, etc)								

4B3C. Sum of Q17 (cost of agricultural services) ____

4b4. Forestry

1a. Over the past 12 months, has your household earned revenues from planting/management/protection/attending of forests, breeding forest trees, collecting products from forests, harvesting forest trees (bamboos, wood, firewood,…including those in home gardens); or forestry services?

Yes..... 1 (>>Question 2) ☐
No..... 2

1b. Have natural disasters, epidemics, … damaged production?

Yes..... 1 (>> section 4b4 ☐
No..... 2 (>>section 4B5)

4b4.1. Forestry revenues

Code	**2.** From which of the following products/activities has your household earned revenues? Question 2 applies to all trees before moving to question 3	Mark with x if yes	**3.** Values of outputs/revenues from activities over the past 12 months? Try to illicit information for columns as much as possible; in case of no revenues, fill in 0; if unknown or not remembered, fill in KB; if unknown or not remembered clearly, fill in KB; If only a total and some details are remembered, fill in the total and details of the relevant columns; fill in KB for columns whose information is not remembered. thousand ®ång						**4.** Out of which, how much is for sales or exchange? In case of no sales or exchange, fill in 0 thousand ®ång
			a. Production forest land allocated to household	**b.** Production forest land not yet allocated to household	**c.** Protection forest land allocated to household	**d.** Protection forest land not yet allocated to household	**e.** Other forest land	**f. Total (a+b+c+d+e)**	
1	Vernicia montana, camellia sasanqua tree								
2	Cinnamon tree								
3	Anise								
4	Pine tree								
5	Shellac tree								
6	Wood tree								
7	Bamboo								
8	Palm tree								
9	Water coconut tree								
10	Other forest trees (Specify_____)								
11	Firewood								
12	Planting, looking after, improvement of forests?								
13	Breeds of forest trees and products collected from forests?								
14	Other forestry services (forest protection, forestry management,...)								

4B4T. Sum of Q3f (revenue from forestry) ☐

4b4.2. Costs of forestry activities and services

Pls tell about costs of products gained over the past 12 months (including costs incurred by self-subsidy, purchase, exchange, being given,...)

Unit: thousand ®ång

If none, write 0; If details are not remembered, write KB and fill in the total in column 14	1. Seeds, seedlings	2. Fertilizers of various kinds	3. Small instrument cheap, low-quality goods	4. Energy, fuel										
				a. Electricity	b. Coal	c. Coal briquette	d. Petrol	e. Kerosene	f. Mazut (oil)	g. Diesel (oil)	h. LPG	i. Natural gas	j. Fire-wood	k. Others
1. Forestry activities														
2. Forestry services	x	x												

If none, write 0; If details are not remembered, write KB and fill in the total in column 14	**5.** Small repair, maintenance	6.Depreciation of fixed assets	**7.** Rent and use of procured land	8. Rent of assets and machines, rented means of	9. Rent of ploughing cattle	10. Costs of outsourced labor	11. Payment of loan interests	12. Busines tax	13. Other costs	**14. Total costs (1 + ... + 13)**
1. Forestry activities										
2. Forestry services										

4B4C. Sum of Q14 (cost of forestry)

4b5. Aquaculture

1a. Over the past 12 months, has any one from your household kept, bred fish, shrimps or other aquatic products; caught aquatic products from lakes, ponds, rivers, springs and seas; or earned revenues from aquaculture services?

Yes..... 1 (>>Q 2) ☐
No..... 2

1b. Have natural disasters, epidemics, … damaged production?

Yes..... 1 (>> section 4B5.2) ☐
No..... 2 (>>section 4C)

4b5.1. Revenues from aquaculture

Order	**2.** From which of the following products has your household earned revenues? Question 2 applies to all products before moving to question 3	Mark with x if yes: x	**3.** Total catch over the past 12 months? kg	**4.** Sales, exchange, payment for labor, donation over the past 12 months? a. Quantity If none, fill in 0 **>>5** kg	b. Value thousand ®ång	**5.** Total values of products gained over the past 12 months thousand ®ång
1	**Aquacultural production**	x	x	x	x	x
1.1	Fish					
1.2	Shrimps					
1.3	Breeding fish, shrimps		x	x		
1.4	Other aquaculture (specify_____)		x	x		
2	**Aquacultural catch**	x	x	x	x	x
2.1	Fish					
2.2	Shrimps					
2.3	Other aquaculture (specify_____)		x	x		

4B5T. Sum of Q5 (revenue from aquaculture) ☐

4b5.2. Costs of aquaculture-related activities

Pls tell about costs of aquaculture production for products gained over the past 12 months (including costs incurred by self-subsidy, purchase, exchange, being given,...)

Try to illicit information for columns as much as possible; in case of no information, fill in 0; if unknown or not remembered, fill in KB;

If only a total and some details are remembered, fill in the total and details of the relevant columns; fill in KB for columns whose information is not remembered.

		6. Breeds o aquaculture	7. Feed	8. Small instruments, cheap, low-quality goods	9. Energy, fuel											10. Salt, ice water
					a. Electricity	b. Coal	c. Coal briquette	d. Petrol	e. Kerosene	f. Mazut (oil)	g. Diesel (oil)	h. LPG	i. Natural gas	j. Fuel-wood	k. Others	
		thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd
1	Aquaculture production															
2	Aquaculture catch															

		11. Small repair, maintenanc	12 Depreciatio of fixed assets	13. Rent and use of procured land	14. Rent of assets and machines rented means of transport	15. Costs of outsourced labor	16. Interest payment for loans for aquaculture-related activities	17 Business tax	18. Other costs (preventive/treatment medicines, charges, post, ads, marketing,	19. Total costs (7 + ... + 18)
		thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd	thousand vnd
1	Aquaculture production									
2	Aquaculture catch									

4b5c. Sum for Q19 (costs of aquaculture)

4c. Domains of production and business, non-agricultural, forestry and aquaculture services; processing of agricultural, forestry and aquatic products

Pls tell some information on activities of production and business, non-agricultural, forestry and aquaculture services; processing of agricultural, forestry and aquatic products

1. Has your household had any activities of your own production and business, non-agricultural, forestry and aquaculture services; processing of agricultural, forestry and aquatic products over the past 12 months?

Yes..... 1
No..... 2 **(>>Part 4D)**

4c1. Revenues from production and business, non-agricultural, forestry and aquaculture services; processing of agricultural, forestry and aquatic products

Order of sectoral activities	**2.** Pls tell details of these activities If the household has more than 4 activities, the fourth activity onwards is included in line 1 Description of sectoral activities	Sectoral code	**3.** Number of months of activity over the past 12 months? Number of months	4. Do you or household members possess this entire activity? Yes.....1**(>>6)** No...2	**5.** How many households including yours possess this activity? Number of households	**6.** Percentage of income your household has received from this activity? Write 100 if code 1 is a response to question 4 %	**7.** Has this activity registered for business? (In case of commercial activity **>>9**) Yes, by type of enterprise..... 1 Yes, by type of individual household business ..... 2 No..... 3	**8.** Are products of this activity for sale, exchange, or service supply? Yes.....1 No....2 **(>>13)**
1								
2								
3								
4								

Order of sectoral activities	**9.** Among activitie over the past 12 months, what is an average revenue per month of this activity? Thousand ®ång	**10.** Revenue over the past 12 months? **(c3 x c9)** (In case of commercial activity **>>15)** Thousand ®ång	11.Has your househo exchanged products of this activity for other goods and servi over the past 12 months? Yes.....1 No.....2 **(>>13)**	**12.** Values of exchanges ove the past 12 months? Thousand ®ång	**13.** Have any products of this activity been used or consume by the household over the past 12 months? Yes.....1 No..2 **(>>15)**	**14.** Values of products used or consumed by the household over th past 12 months? Thousand ®ång	**15.** Have any by-products of this activity been used or sold by the household over the past 12 months? Yes.....1 No...2 **(>>17)**	**16.** Values of products used or sold by the household over the past 12 months? Thousand ®ång	**17. Total revenues (c10+c12+c14+c16)** Thousand ®ång	**18. Total revenues divided by household(s) ((c10 x c6):100) + (C12 + C14 + C16)** Thousand ®ång
1										
2										
3										
4										

Note: A revenue of commercial activity does not include the value of commodity capital.

4c2. Costs of production and business, non-agricultural, forestry and aquaculture services; processing of agricultural, forestry and aquatic products

Pls tell costs of your household's activities of production and business, non-agricultural, forestry and aquaculture services; processing of agricultural, forestry and aquatic products over the past 12 months (including expenditures from self-subsidy, purchase, exchange, gift,...).

Only costs of products sold, exchanged, supplied for service, used or consumed are counted.

Order of sectoral activities	**19** Main and minor materials	**20** Small, cheap, undurable tools	**21.** Energy, fuel											**22**. Water
			a. Electricity	b. Coal	c. Coal briquette	d. Petrol	e. Kerosene	f. Mazut (oil)	g. Diesel (oil)	h. LPG	i. Natural gas	j. Firewood	k.Others	
	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ån	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ån	Thousand ®ån	Thousand ®ång
1														
2														
3														
4														

Order of sectoral activities	**23** Minor repair, maintenance	**24** Depreciation of fixed assets	**25** Rent of land, workshops, shops, machines and other means of production	**26** Transport (rents and charges)	**27** Costs of labour (salaries, wages; social insurance; health insurance; trade unions expenses;.	**28** Loan interests	**29** Taxes, fees and charges regarded as taxes	**30** Costs of treatment of sewage and solid waste	**31** Other costs (post, travel, advertisement, marketing, purchase of designs, survey for design, production insurance,...)	**32** Total costs **(C19+...+C31)**	**33** Total costs divided by household(s) **(C32 x C6):100**
	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ång	Thousand ®ån	Thousand ®ång	Thousand ®ång	Thousand ®ång
1											
2											
3											
4											

Note: A revenue of commercial activity does not include the value of commodity capital.

4CCT. Total cost of activities (sum of Q32) ____

4CC. Total revenue from activities divided by households (sum of Q33) ____

4d. Other revenues included in incomes

Pls give some information on other household revenues

code	1. Has anyone in your household, over the past 12 months, received cash or kind from the following sources? Question 1 applies to all revenues before moving to question 2 — Mark x if any	2. Values received over the past 12 months? Thousand ®ång
101	Cash and kind sent as a gift or aid for domestic use by non-members of the household from overseas	
1011	*Out of the total:* - Cash and kind (value) for domestic use sent as a gift or aid by relatives residing and working overseas	
1012	- Gift of housing	
1013	- Gift of automobile(s) for domestic use	
1014	- Other gifts of assets for domestic use	
102	Cash and kind (value) for domestic use sent as a gift or aid by non-members of the household from within the country	
1021	*Out of the total:* - Cash and kind (value) for domestic use sent as a gift or aid by relatives who work as seasonal laborers in the country…	
1022	- Gift of housing	
1023	- Gift of automobile(s) for domestic use	
1024	- Other gifts of assets for domestic use	

code	1. Has anyone in your household, over the past 12 months, received cash or kind from the following sources? Question 1 applies to all revenues before moving to question 2 — Mark x if any	2. Values received over the past 12 months? Thousand ®ång
103	Wedding cash gifts after deducting expenses of guests' food and drinks	
104	Funeral cash tributes after deducting expenses of guests' food and drinks	
105	Social benefits for war invalids, families of fallen combatants, and individuals/families with revolutionary merits	
106	Social benefits for beneficiary households of social policies	
107	Assistance to overcome natural disasters and fire	
108	From types of insurance (excluding social, health and life insurance)	
109	Interests of savings deposits, stocks, shares, lending, contributed capital	
110	Revenues from renting out workshop floors, machines, assets and facilities not included in sections of sectoral production and business (except housing, farming and forest land, and water surface for aquaculture production)	
111	Revenues as donations from organizations, humanitarian aid, associations and units of production and business …	
112	Others (Specify_____)	
	4DTN. Sum of Q2 items (other revenues)	

Weight conversion of some food and foodstuff and other consumer goods

A. Food

1kilo of paddy rice ~ 0.7 kilo of rice

1kilo of broken-rice powder ~ 0.7 kilo of rice

3 kilos of sweet potato/fresh cassava

~ 1 kilo of dried sliced sweet potato/cassava

B. Foodstuff

1 kilo of fresh lard ~ 0.7 kilo of liquid lard

1kg of live-weight chicken ~ 0.85 kg of dead-weight chicken

1 kg of live-weight pork ~ 0.7 kg of dead-weight pork ~ 0.6 kg of pork with fat removed

1 kg of live-weight beef ~ 0.4 kg of dead-weight beef

1 kg of live-weight buffalo meat ~ 0.3 kg of dead-weight buffalo meat

3 kilos of fresh shrimps, fish ~ 1 kilo of dried shrimps, fish

1 kg of sugar molasses ~ 0.5 kg of refined sugar

250 grams of milk powder ~ 1 can of condensed milk (395 - 400g)

5 kilos of fresh tea buds ~ 1kilo of dried tea buds

4.6 kilos of fresh coffee nuts ~ 1kilo of dried coffee nuts

~ 0.7 kilo of coffee powder (roasted and ground)

Section 5. Expenditures

5A. Expenditures on food and drinks

5A1. Expenditures on food and drinks on festive occasions

Now pls tell about expenditures on festive occasions, such as the Lunar New Year, Christmas, Independence Day, the fifteenth day of the first and seventh lunar months, Mid-au
(special festive occasions of ethnic minorities, such as chol chnam thmay of the Kh'mer people, . . .)

Code	1 Which of the following items has your household consumed on fest occasions over the past 12 montl Mark with x if yes Question 1 applies to all items before moving to questions 2-3		Unit of measurement	2 Purchase or exchang A Quantity […] ? If none, write 0 and >> 3	2 Purchase or exchang B Value? thousand ®ång	3 Self-subsidy, gift, donation A Quantity? If none, write 0 and >>next item	3 Self-subsidy, gift, donation B Value? >> next item thousand ®ång
101	Fragrant plain rice, specialty rice?		Kg				
102	Sticky rice?		Kg				
110	Pork (with fat removed)?		Kg				
111	Beef?		Kg				
112	Buffalo meat?		Kg				
113	Chicken meat?		Kg				
114	Duck and other poultry meat?		Kg				
115	Other types of meat? (goats, dogs, sheep, wild animals, birds,...)		X	X		X	
116	Processed meat? (boiled pork pies, fried pork pies, roasted pork, sausages,...)		X	X		X	
118	Fresh shrimp, fish?		Kg				
120	Other aqua-products and seafood? (crabs, snails,...)		X	X		X	
121	Eggs of chickens, ducks, Muscovy ducks, and geese?		Egg				
124	Beans of various kinds?		Kg				

Code	1 Which of the following items has your household consumed on festive occasions over the past 12 months? Mark with x if yes Question 1 applies to all items before moving to questions 2-3		Unit of measurement	2 Purchase or exchang A Quantity […] ? If none, write 0 and >> 3	2 Purchase or exchang B Value? thousand ®ång	3 Self-subsidy, gift, donatio A Quantity? If none, write 0 and >>next item	3 Self-subsidy, gift, donatio B Value? >> next item thousand ®ång
134	Fruits?		X	X		X	
139	Sugar, molasses?		Kg				
140	Confectionery?		Kg				
144	Alcohol of various kinds?		Litre				
145	Beer of various kinds?		Litre				
146	Bottled, canned, boxed beverages?		Liter				
148	Coffee?		Kg				
150	Dried tea?		Kg				
151	Cigarettes, tobacco for water pipes		X	X		X	
153	Outdoors meals and drinks?		X	X		X	
154	Other meals and drinks? (Other food and foodstuff, additives, seasonings, ...)		X	X		X	

5A1CT. Sum (Q4 + Q5)

4. Sum of Q2B (Codes 101 to 154)

5. Sum of Q 3B (Codes 101 to 1

5a2. Recurrent expenditures on food and drinks

Code	1 Apart from festive occasions, parties, engagement parties, weddings, funerals and major death anniversaries over the past 30 days, which of the following items has your household consumed: Question 1 applies to all categories of items/items before moving to questions 2-5	Mark with x if yes	Units of measurement	2 How much has your household consumed over the past 30 days?		Breakdown 3. Consumed quantity of purchase or exchange		4. Consumed quantity of self-subsidy		5. Consumed quantity of gift, donation, present	
				A. Quantity	B. Value thousand ®ång	A. In case of no quantity, write 0 >>4	B. Value thousand ®ång	A. In case of no quantity, write 0 >>5	B. Value thousand ®ång	A. In case of no quantity, write 0 >>next	B. Value thousand ®ång
101	Plain rice? (including fragrant and specialty rice)		Kg								
1011	Normal plain rice		Kg								
1012	Fragrant and specialty plain rice		Kg								
102	Sticky rice?		Kg								
103	Maize? (in seed equivalent)		Kg								
104	Cassava? (in fresh-type equivalent)		Kg								
105	Potato of various kinds? (in fresh-type equivalent)		Kg								
106	Wheat grains, bread, wheat powder?		Kg								
107	Flour noodle, instant rice noodle/porridge?		Kg								
108	Fresh rice noodle, dried rice noodle?		Kg								
109	Vermicelli?		Kg								
110	Pork? (in equivalent of the pork type with removed fat)		Kg								
111	Beef?		Kg								
112	Buffalo meat?		Kg								
113	Chicken meat?		Kg								
114	Duck and other poultry meat?		Kg								
115	Other types of meat? (goats, dogs, sheep, wild animals, birds,...)		X	X		X		X		X	
116	Processed meat (boiled pork pies, fried pork pies, roasted pork, sausages,...)		X	X		X		X		X	
117	Lard, cooking oil?		Kg								
1171	Lard		Kg								
1172	Cooking oil		Kg								
118	Fresh shrimp, fish?		Kg								
1181	Fresh shrimp?		Kg								
1182	Fresh fish?		Kg								

5a2. Recurrent expenditures on food and drinks (cont'd)

Code	1 Apart from festive occasions, parties, engagement parties, weddings, funerals and major death anniversaries over the past 30 days, which of the following items has your household consumed: Question 1 applies to all categories of items/items before moving to questions 2-5	Mark with x if yes	Units of measurement	2 How much has your household consumed over the past 30 days?		Breakdown 3. Consumed quantity of purchase or exchange		4. Consumed quantity of self-subsidy		5. Consumed quantity of gift, donation, present	
				Quantity	Value thousand ®ång	A. In case of no quantity, write 0 >>4	B. Value thousand ®ång	A. In case of no quantity, write 0 >>5	B. Value thousand ®ång	A. In case of no quantity, write 0 >>next	B. Value thousand ®ång
119	Dried and processed shrimps, fish?		Kg								
120	Other aquatic products and seafood? (crabs, snails,..	X	X	X		X		X		X	
121	Eggs of chickens, ducks, Muscovy ducks, geese?		Egg								
122	Tofu?		Kg								
123	Peanuts, sesame?		Kg								
124	Beans of various kinds?		Kg								
125	Fresh peas of various kinds?		Kg								
126	Morning glory vegetables?		Kg								
127	Kohlrabi?		Kg								
128	Cabbage?		Kg								
129	Tomato?		Kg								
130	Other vegetables? (gourd, winter melon, cucumber, cabbage, squash...)		X	X		X		X		X	
131	Orange?		Kg								
132	Banana?		Kg								
133	Mango?		Kg								
134	Other fruits? (rambutan melon, papaya, guava, litchi, grapes,...)		X	X		X		X		X	
135	Fish sauce?		Liter								
136	Salt?		Kg								
137	MSG?		X	X		X		X		X	
138	Glutamate?		X	X		X		X		X	
139	Sugar, molasses?		Kg								
140	Confectionery?		Kg								

5a2. Recurrent expenditures on food and drinks (end)

Code	1 Apart from festive occasions, parties, engagement parties, weddings, funerals and major death anniversaries over the past 30 days, which of the following items has your household consumed: Question 1 applies to all categories of items/items before moving to questions 2-5	Mark with x if yes	Units of measurement	2 How much has your household consumed over the past 30 days?		Breakdown 3. Consumed quantity of purchase or exchange		4. Consumed quantity of self-subsidy		5. Consumed quantity of gift, donation, present	
				Quantity	Value thousand ®ång	A. In case of no quantity, write 0 >>4	B. Value thousand ®ång	A. In case of no quantity, write 0 >>5	B. Value thousand ®ång	A. In case of no quantity, write 0 >>next	B. Value thousand ®ång
141	Condensed milk, milk powder?		Kg								
142	Ice cream, yoghurt?		X	X		X		X		X	
143	Fresh milk?		Liter								
144	Alcohol of various kinds?		Liter								
145	Beer of various kinds?		Liter								
146	Bottled, canned, boxed beverages? (pure water, carbonated drinks, juice, fruit smoothies, pep drinks,...)		Litre								
147	Instant coffee?		X	X		X		X		X	
148	Coffee powder?		Kg								
149	Instant tea powder?		X	X		X		X		X	
150	Other dried tea?		Kg								
151	Cigarettes, waterpipe tobacco?		X	X		X		X		X	
152	Betel leaves, areca nuts, lime, betel pieces?		X	X		X		X		X	
153	Outdoors meals and drinks? (breakfast, lunch, dinner)?		X	X		X		X		X	
154	Other food and drinks? (other processed food and foodstuff, additives, seasonings, ...)		X	X		X		X		X	

5a2ct. Sum for question 2b (codes 101-154) | **6.**Sum for Q3b (codes 101-154) | **7.**Sum for Q4b (codes 101-154) | **8.**Sum for Q5b (codes 101-154)

5b. Expenditures on non-food items and other expenditures

5b1. Daily expenditures

Code	1 Which of the following items has your household consumed over the past 30 days? Question 1 applies to all items before moving to questions 2-5	Mark with x if yes	2 How much has your household consumed over the past 30 days? thousand ®ång	Breakdown 3. Consumed quantity of purchase or exchange thousand ®ång	4. Consumed quantity of self-subsidy thousand ®ång	5. Consumed quantity of gift, donation, present thousand ®ång
201	Pocket money for children?					
202	Coal?					
203	Coal briquette?					
204	Petroleum?					
205	Kerosene?					
206	Mazut oil?					
207	Diesel oil?					
208	LPG?					
209	Natural gas?					
210	Firewood, husk, sawdust?					
211	Farm by-products? (straw, sugar cane leaves, maize/jute/hemp/seagrass stems,…)					
212	Other types of fuel?					
213	Deposit fees for vehicles? (bicycle, scooter, automobiles)					
214	Matches, candles, fire stones, lighters?					

Code	1 Which of the following categories of items /items/expenditures has your household consumed over the past 30 days? Question 1 applies to all items before moving to questions 2-5	Mark with x if yes	2 How much has your household consumed over the past 30 days? thousand ®ång	Breakdown 3. Consumed quantity of purchase or exchange thousand ®ång	4. Consumed quantity of self-subsidy thousand ®ång	5. Consumed quantity of gift, donation, present thousand ®ång
215	Soap/ detergent, softening solution?					
216	Dish washing liquid, floor-cleaning liquid?					
217	Shampoo, conditioner?					
218	Bath soap, shower gel?					
219	Skin-nourishing cream, powder and lipsticks, perfume, hair gel,..?					
220	Tooth paste and brush?					
221	Toilet paper, razor?					
222	Books, newspapers, magazines for adults?					
223	Books, newspapers for children?					
224	Fresh flowers?(excluding worship flowers)					
225	Lottery tickets?					
226	Regular worship activities?					
227	Hair cut, hair dressing					
228	Other daily expenditures?					

5b1ct. Sum for Q2 (codes 201-228)	**6.** Sum for Q3 (codes 201-228)	**7.**Sum for Q4 (codes 201-228)	**8.**Sum for Q5 (codes 201-228)

5b2. Annual consumption

Code	1 Which of the following items has your household consumed over the past 12 months? Question 1 applies to all items before moving to questions 2-3	Mark with x if yes	2 Consumed value of purchase or exchange If none write 0 thousand ®ång	3 Consumed quantity of self-subsidy, gift, donation, present If none write 0 thousand ®ång
301	Fabrics?			
302	Garment? (including underwear)			
303	Anti-mosquito nets and cotton gauze?			
304	Kerchiefs, turbans, scarfs of various kinds?			
305	Mats, blankets, bed sheets, pillows, curtains, table-cloth?			
306	Other garment accessories? (needle, thread, socks,...)			
307	Fees of tailoring, washing and ironing?			
308	Shoes, slippers, wooden underfoot?			
309	Plastics, conical hats, hats, umbrellas of various kinds?			
310	Electrical appliances: light bulbs, electrical cords, plugs, fuses,...?			
311	Ceramics and glassware: bowls, plates, teapots, cups,...?			
312	Pots, saucepans, frying-pans, barrels, buckets?			
313	Thermos, inner thermos?			
314	Bags?			
315	Torches, batteries for lighting, TVs, radio?			
316	Hammock, cradles, cots, prams?			
317	Other expenditures on household utensils? (not including durables) (Specify_____)			

Code	1 Which of the following items has your household consumed over the past 12 months? Question 1 applies to all items before moving to questions 2-3	Mark with x if yes	2 Consumed value of purchase or exchange If none write 0 thousand ®ång	3 Consumed quantity of self-subsidy, gift, donation, present If none write 0 thousand ®ång
318	Inner tubes, tires, and spare parts of bicycles?			
319	Inner tubes, tires, and spare parts of scooters, automobiles?			
320	Maintenance and repair of household utensils?			
321	Travel expenditure? (including fees for boats, ferries, and others)			
322	Paintings, photos, ornamental plants?			
323	Sports facilities?			
324	Adult toys?			
325	Child toys?			
326	Envelops, postal stamps, postal fees?			
327	Fees of phone subscription, calls, and repairs			
328	Internet (costs of installation, subscription, access)			
329	Expenditures on plastic (cosmetic) surgeries, gym exercises?			
330	Entertainment (cinemas, music, video, sports)?			
331	Domestic holidays?			
332	Overseas holidays?			
333	Watches, eyewear, jewellery?			
334	Expenditures on other cultural activities?			
335	Hiring domestic helps?			
336	Other annual expenditures? (Specify_____)			

5b2ct. Sum (question 4 + question 5)	**4.** Sum for Q 2 (codes 301-336)	**5.** Sum for Q 3 (codes 301-336)

5b3. Other costs as expenditures

Code	1 On which of the following items has your household spent money over the past 12 months? Question 1 applies to all items before moving to question 2	Mark with x if yes X	2 Expenditures […] over the past 12 months? thousand ®ång
400	Fees and charges on administrative and legal services for daily-life requirements (certificates of marriage, birth, and death, notary services…)		
401	Fund contributions? (funds in aid of natural calamity victims, for charitable activities, poverty reduction, study encouragement,...)		
402	Cash contributions in lieu of public labor and other obligations?		
403	Taxes of various kinds (except production taxes), e.g. PIT, and taxes for transfer of use rights of houses and residential land?		
404	Engagement and wedding parties of the household (after deducting expenditures on guests' food and drinks)?		
405	Funerals and death anniversaries of the household (after deducting expenditures on guests' food and drinks)?		
406	Organization of parties and entertaining activities? (birthdays, opening ceremonies, guest reception,...)		
407	Gift, donation, assistance, tributes, contributions to death anniversaries… to other households? (in cash and kind)		
499	Including: expenditures on former household members' study or medical treatment overseas		
408	Other expenditures?(damages for other people, non-student body insurance, traffic insurance, housing and assets insurance,...)		
	5b3ct . Sum for question 2 (codes 400 - 408)		

Section 6. Durables

1. Pls tell which of the following durables does your household have?

Code	Names of durables	Mark with x if yes
1	Automobile(s)	
2	Motorbike(s)	
3	Bicycle(s)	
4	Ship(s), boat(s), junk(s), outer part with a motor	
5	Ship(s), boat(s), junk(s), outer part without a motor	
6	Other means of travel	
7	Pumping machine(s)	
8	Electricity generator(s)	
9	Printer(s)	
10	Fax machine(s)	
11	Landline telephone(s)	
12	Mobile telephone(s)	
13	Sewing machine(s)	
14	Video player(s), DVD player(s), digital player(s), satellite antenna	
15	Color TV(s)	
16	Black and white TV(s)	
17	Music rack of various kinds	
18	Radio/radio-cassette player(s)	
19	Disk player(s)	

Code	Names of durables	Mark with x if yes
20	Computer(s)	
21	Camera(s), video recorder(s)	
22	Refrigerator(s)	
23	Air conditioner(s)	
24	Washing machine(s), (clothes-) drying machine(s)	
25	Electric fan(s)	
26	(Bath) water heater(s)	
27	Gas cooker(s), magnetic cooker(s)	
28	Electric cooker(s), electric rice cooker(s), pressure cooker(s)	
29	Trolleys of various kinds	
30	Cupboard(s), cabinet(s), wardrobe(s) (of various kinds)	
31	Bed(s)	
32	Desk(s), chair(s), long bench(es), dressing table(s)	
33	Vacuum cleaner(s), dehumidifier(s), water filter(s)	
34	Microwave oven(s), baking oven(s)	
35	Juice extractor(s), citrus juicer(s)	
36	Piano(s), keyboard(s)	
37	Others (Specify_____)	

6. Durables (*cont'd*)

Number line	2 Names of durables your household has purchased or received or self-produced over the past 10 years	Code	3 Quantity? Enumerators fill in this column only in case of many durables of the same kind, value, and moment of purchase	4 When did your household purchase or receive or self-produce it? In 2011 - 2012, fill in both month and year; otherwise, only year is filled in. Fill in all 4 digits for year: Month	Year	5 Value at purchase reception, self-production? Only ask about durables bought, received, self-produced over the past 12 months. Thousand ®ång	6 Remaining value in current price? Thousand ®ång
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

6. Durables (*end*)

Number line	2 Names of durables your household has purchased or received or self-produced over the past 10 years	Code	3 Quantity? Enumerators fill in this column only in case of many durables of the same kind, value, and moment of purchase	4 When did your household purchase or receive or self-produce it? In 2011 - 2012, fill in both month and year; otherwise, only year is filled in. Fill in all 4 digits for year: Month	Year	5 Value at purchas reception, self-production? Only ask about durables bought, received, self-produced over the past 12 months. Thousand ®ång	6 Remaining value in current price? Thousand ®ång
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

7. Sum for question 5

If none, write 0

thousand ®ång

Section 7. Housing

Pls tell some information on your household's accommodation.

1. In how many houses/flats does your household actually live? Number of houses/flats
In case of no house, write 0 **>> 18**

2. Total residential area? (all houses where the household lives are counted) m2
Bedrooms, dining rooms, living rooms, study rooms, play roo
Bathrooms, toilets, kitchens, warehouses, business areas are not included.
An attic is considered 50%.

Questions 3-5 apply to the main house.

3. Is your main housing accommodation an apartment or a separate house?
(combined with the interviewer's observations)

apartment..... 1
separate house..... 2

4a. Which is the main material as poles (or pillars, or carrying walls) of the house where your household lives now?
(Enumerators should concurrently observe it)

Reinforcement concrete 1
Bricks/stones..... 2
Iron/steel/good wood..... 3
Poor-quality wood/bamboo..... 4
Others (specify_____)..... 5

4b. Which is the main material as roofing of the house where your household lives now?
(Enumerators should concurrently observe it)

Reinforcement concrete..... 1
Tiles (cement, terracotta)..... 2
Roof slabs (cement, metal)..... 3
Leave/straw/rolled roofing..... 4
Others (specify_____)..... 5

4c. Which is the main material as walls or surroundings of the house where your household lives now?
(Enumerators should concurrently observe it)

Reinforcement concrete..... 1
Bricks/stones..... 2
Wood/metal..... 3
Calcareous soil/straw..... 4
Bamboo partitions/hardboards..... 5
Others (specify_____)..... 6

4d. Which type is your current housing accommodation?
(§TV kÕt hîp quan s¸t)

Villas..... 1
Houses with a private kitchen and bathroom/toilet..... 2
Houses with a shared kitchen or bathroom/toilet..... 3
Semi-permanent houses 4
Temporary and other types of house..... 5

5. In which year did your household live in this housing accomodation?

before 1975..... 1
from 1975 to 1999..... 2
from 2000 3

6. Who owns the the main housing accommodation that your household lives in?

OWNED BY THE HOUSEHOLD..... 1
RENTED/BORROWED FROM THE GOVERNM 2
RENTED/BORROWED FROM PRIVATE LAND 3
COLLECTIVELY OWNED..... 4
OWNED BY RELIGIOUS ESTABLISHMENT..... 5
CO-FINANCED BY BOTH STATE AND PEOPI 6
UNCLEAR 7

7. Does your household pay rents? (in cash or kind)

Yes..... 1
No..... 2**(>>9)**

8.. How much have you spent on rents over the past 12 months?
(both in cash and values of kind) thousand ®ång

9. What is the duration of the existing rental contract?
(including a verbal contract) Number of months

10. If the whole accommodation were now put on sale, how much do you think it would be worth? thousand ®ång

10a. In which, what is the value of land?
(only ask for separate house) thousand ®ång

Section 7. Housing *(end)*

11. Was this main housing accommodation constructed by your household?
yes..... 1
no..... 2**(>>14)**

12. When was it built?
year

13. What is the total expenditure for building it?
(both in cash and in kind) thousand ®ång

14. Expenditures on house repair and maintenance over the past 12 months?
(including painting but not major improvement and upgrade)
If none, write 0 thousand ®ång

15. Apart from your current living place, does your household have any other residential land lots or hou
Yes..... 1
No..... 2**(>>13)**

16. Does your household receive rents from those residential land lots or houses?
Yes..... 1
No..... 2**(>>13)**

17. How much has your household received from leasing residential land and houses over the past 12 months? thousand ®ång
[in cash and kind (value)]

18. Which is the main drinking water supply of your household?
tap water reaching the house 1
public tap water. 2
drilled well 3
protected dug well 4
unprotected dug well 5
protected stream water 6
unprotected stream water 7
Bought water (in bottles, jars, or small vehicles…) 8
rain water 9
Others (specify:_____ 10

19. Do you treat drinking water by:
a. boiling? Yes..... 1 No..... 2
b. a filter or chemicals? Yes..... 1 No..... 2

20. How much money has your household spent on water for drinking and other daily activities over the past 12 months (excluding bottled purified water counted in the section on expenditures on food and drinks)? thousand ®ång
If none, write 0

21. Which toilets does your household use?
septic/semi-septic tank..... 1
suilabh..... 2
double septic tank..... 3
fishing bridge..... 4
Others..... 5
None..... 6

22. Which is the main lighting in your household?
National-grid electricity..... 1
Battery or generator or small-scale-hyrdo 2
Gas, oil lamps of various kinds 3
Others (specify: _____ 4

23. For the last month, how much money has your household spent on electricity for daily consumption and how many KWs consumed for daily activities?
thousand ®ång KW

24. How much money has your household spent on electricity for daily activities over the past 12 months? thousand ®ång

25. How has your household treated daily-life waste over the past 12 months?
Somebody else collects it 1
Dumping into ponds, lakes, rivers, streams..... 2
Dumping in a nearby site 3
Landfill burial 4
Burning..... 5
Others (specify_____)..... 6

26. How much money has your household on collection of daily-life waste over the past 12 months?
If none, write 0 thousand ®ång

27. Total expenditures on housing, electricity, water, waste (C8 + C14 + C20 + C24 + C26)

Section 8. Participation in Aid Schemes

Enumerators interview all households.

1. Have the local authorities classified your household as 'poor' in the commune/ward in the following years?

Yes..... 1
No..... 2

Year 2006 2007 2008 2009 2010 ### 2012

1a. During the last 12 months, how many months didn't you household have enough two meals per day? ____ months

2. In 2011 - 2012, has your household benefitted from the project/policy [….]?

Yes..... 1
No..... 2
Don't know 3

	2011	2012
a. Support in purchasing health insurance cards.....		
b. Reduction of and exemption from costs of medical checks/treatment for the poor.....		
c. Reduction of and exemption from tuition fees for the poor.....		
d. Policy-based scholarships.....		
e. Vocational training for the poor and low-income earners (Ask about number of months if this line is included)		
f. Housing support for poor households.....		
g. Support in cleaning/improving daily-life water supplies for poor households (Ask about area if this line is included)		
h. Providing productive land for poor ethnic minorities households		
i. Extension services in agriculture, forestry and fisheries.....		
j. Support in migrating abroad for employment.....		
k. Food aid.....		
l. Subsidized petroleum/kerosene for fishing boat(s)/vessel(s).....		
m. Direct supports to poor households.....		
n. Preferential credit for the poor.....		

a. Number of months of vocational training provided in 2011 - 2012? ____ month(s)

b. The total area that your household has been provided in 2011 - 2012? ____ m2

o. Support in machinery, production inputs (fertiliser, breed animals, seedlings,...).....

p. Others (kerosene,...).....

2a. During the last 12 months, did your household receive cash or in-kind subsidy?

If

a. Electricity subsidy	____ thousand vnd
b. Emergency food subsidy	____ thousand vnd
c. Subsidy to low-income government employees	____ thousand vnd
d. Preferable subsidies to people with merits	____ thousand vnd
e. Subsidies to poor households	____ thousand vnd
f. Other subsidies	____ thousand vnd

Section 8. Participation in Aid Schemes (cont'd)

3. Has anyone in your household, in 2012, borrowed from or remained indebted to preferential credit schemes for the poor?

Yes..... 1
No..... 2 (>>Question 9)

Order	**4.** Which preferential credit scheme has your household borrowed from / remained indebted to? (Each loan is written in a line) Social Policy Bank..... 1 Employment Support Fund..... 2 Poverty Reduction Fund..... 3 Socio-political organisations..... 4 Others (specify_____ 5	5. Value […] of this loan? thousand VND	**6.** The interest rate of this loan? In case of no interest, write 0 and >>Q7 **Time unit** month..... 1 quarter..... 2 6 months..... 3 year..... 4 Interest rates % Time unit	**7.** Does your household have to pay any fee to get this loan? If none, write 0 thousand VND	**8.** The (outstanding) balance of this loan? (including principal and interest)? If none, write 0 thousand VND
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

Section 8. Participation in Aid Schemes (end)

9. Have the living conditions in your household improved, compared with 5 years ago (2008)?

Yes, substantially..... 1 **(>>11)**
Yes, slightly..... 2 **(>>11)**
The same as before..... 3
Worsened..... 4
Don't know..... 9 **(>>11)**

10. Pls tell why it is 'the same as before'/'worsened' ??

Increased production costs in agriculture, forestry and fisheries..... 1
Low selling prices of agricultural, forestry and fisheries products 2
Cattle and poultry suffer from epidemics or death 3
Droughts, floods, pests, and harvest loss affect agricultural, forestry and fisheries production 4
Household member(s) is sick or dies 5
High prices of food, foodstuff, and other consumer goods 6
Low incomes..... 7
Job loss or underemployment 8
Conflicts or other problems among family members/friends/neighbors 9
Decreased arable land/water surface for aquaculture production 10
Unfortunate events (house on fire, stealth, traffic accident)..... 11
Other reasons (specify_____ 12

Record in the order of importance

The first	The second	The third

11. Has consumption of food and foodstuff by your household [....] been sufficient to meet needs over the last 30 days?

Insufficient 1
Sufficient 2
More than sufficient 3
No comment/ no applicable 4

Food	Foodstuff

Sufficient' means having met your household's minimum consumption needs.

12. Has consumption of electricity, water, and housing by your household [....] been sufficient to meet needs over the last 30 days?

Insufficient 1
Sufficient 2
More than sufficient 3
No comment/ no applicable 4

Electricity	Water	Housing

13. Has consumption of clothing and footwear by your household [....] been sufficient to meet needs over the last 30 days?

Insufficient 1
Sufficient 2
More than sufficient 3
No comment/ no applicable 4