```
* Philippines 2008.
* Written by Sarah Bradley on July 12 2009.
*re-run on updated data file on August 31 2009.

GET
  FILE='C:\Users\Sarah.E.Bradley\Documents\Other Data\Wealth
index\Philippi'+
 'nes 2008\PHHR51-HHvarsonly-8-31-09.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.

FREQ hv015 hv000 hv007.

* select only completed interviews.

SELECT IF hv015 = 1.
freq hv015.




**Frequencies.
Freq HV201 HV204 HV205 HV206 HV207  HV208 HV209 HV210 HV211 HV212
  HV213 HV214 HV215 HV216
  HV221 HV225  HV226 HV239 HV240 HV241 HV242
  HV243A HV243B HV243C HV243D HV244 HV245 HV246 HV246A HV246B
  HV246C HV246D HV246E HV246F HV246G HV246H HV246I HV246J HV246K
HV247
  SH61D SH61E SH61F SH61G SH61I SH61J SH65 SH69 SH71E.

***# of HH MEMBERS (for sleeping rooms and HHmemweight).
*Check to see if any HHs have 0 de jure members, and if so sub in
de facto members.
freq hv012 hv013.
compute nummem=hv012.
if (hv012=0) nummem=hv013.
freq nummem.
*NOTE: 0 households with 0 DF members.


* WATER.

crosstab tables hv201 by hv202.

freq hv201.
COMPUTE h2opipe = 0.
IF (hv201 = 11) h2opipe = 1.
VAR LABELS h2opipe "if gets water piped into home".
VAL LABELS h2opipe    0 "no water piped into home"
              1 "water is piped into home".

COMPUTE h2oyard = 0.
IF (hv201 = 12 ) h2oyard = 1.
VAR LABELS h2oyard "if gets water piped into yard".
```

```
VAL LABELS h2oyard    0 "no water piped into yard"
                      1 "water is piped into yard".

COMPUTE h2opub = 0.
IF (hv201 = 13) h2opub = 1.
VAR LABELS h2opub "if gets water from piped public source".
VAL LABELS h2opub    0 "no water from piped public source"
                     1 "water is from piped public source".

COMPUTE h2otube = 0.
IF (hv201 = 21) h2otube = 1.
VAR LABELS h2otube "if gets water from a tube/borehole well".
VAL LABELS h2otube    0 "no water from a tube/borehole well"
                      1 "water is from a tube/borehole well".

COMPUTE h2ppvwel = 0.
IF (hv201 = 31) h2ppvwel = 1.
VAR LABELS h2ppvwel "if gets water from a protected well".
VAL LABELS h2ppvwel    0 "no water from a protected well"
                       1 "water is from a protected well".

COMPUTE h2pydwel = 0.
IF (hv201 = 32) h2pydwel = 1.
VAR LABELS h2pydwel "if gets water from an unprotected well".
VAL LABELS h2pydwel    0 "no water from an unprotected well"
                       1 "water is from an unprotected well".

COMPUTE h2pswel = 0.
IF (hv201 = 33) h2pswel = 1.
VAR LABELS h2pswel "if gets water from a semi-protected well".
VAL LABELS h2pswel    0 "no water from a semi-protected well"
                      1 "water is from a semi-protected well".


COMPUTE h2pspring = 0.
IF (hv201 = 41) h2pspring = 1.
VAR LABELS h2pspring "if gets water from a protected spring".
VAL LABELS h2pspring  0 "no water from a protected spring"
                      1 "water is from a protected spring".

COMPUTE h2uspring = 0.
IF (hv201 = 42) h2uspring = 1.
VAR LABELS h2uspring "if gets water from an unprotected spring".
VAL LABELS h2uspring  0 "no water from an unprotected spring"
                      1 "water is from an unprotected spring".

COMPUTE h2osurf = 0.
IF (hv201 = 43) h2osurf = 1.
VAR LABELS h2osurf "if gets water from a surface source".
VAL LABELS h2osurf    0 "no water from a surface source"
                      1 "water is from a surface source".
```

```
COMPUTE h2orain = 0.
IF (hv201 = 51) h2orain = 1.
VAR LABELS h2orain "if gets water from rain".
VAL LABELS h2orain    0 "no water from rain"
                  1 "water is from rain".

COMPUTE h2otruck = 0.
IF (hv201 = 61) h2otruck = 1.
VAR LABELS h2otruck "if gets water from truck".
VAL LABELS h2otruck   0 "no water from truck"
                  1 "water is from truck".

COMPUTE h2ocart = 0.
IF (hv201 = 62) h2ocart = 1.
VAR LABELS h2ocart "if gets water from cart w/ small tank".
VAL LABELS h2ocart    0 "no water from cart"
                  1 "water is from cart".

COMPUTE h2obottle = 0.
IF (hv201 = 71) h2obottle = 1.
VAR LABELS h2obottle "if gets water from bottle".
VAL LABELS h2obottle  0 "no water from bottle"
                  1 "water is from bottle".

COMPUTE h2neigunk = 0.
IF (hv201 = 72 | hv201=96) h2neigunk = 1.
VAR LABELS h2neigunk "if gets water from neighbors tap source
unknown+4 other".
VAL LABELS h2neigunk  0 "no water from neighbors tap source
unknown"
                  1 "water is from neighbors tap source unknown".

COMPUTE h2neigNAW = 0.
IF (hv201 = 73) h2neignaw= 1.
VAR LABELS h2neignaw "if gets water from neighbors tap NAWASA".
VAL LABELS h2neignaw 0 "no water from neighbors tap NAWASA"
                  1 "water is from neighbors tap NAWASA".


crosstab tables hv201 by h2opipe h2oyard h2opub h2otube h2ppvwel
h2pydwel h2pswel
  h2pspring h2uspring h2osurf h2orain h2otruck h2ocart h2obottle
h2neigunk
  h2neigNAW.

*NON-DRINKING WATER - test whether including makes difference.
freq hv202.

compute h2ndwell=0.
if (hv202=11) h2ndwell=1.
var lab h2ndwell "if gets non-drinking water piped into
dwelling".
```

```
crosstab tables  hv202 by h2ndwell.

compute h2nyard=0.
if (hv202=12) h2nyard=1.
var lab h2nyard "if gets non-drinking water piped into
yard/plot".

compute h2ntap=0.
if (hv202=13) h2ntap=1.
var lab h2ntap "if gets non-drinking water from public
tap/standpipe".

compute h2ntube=0.
if (hv202=21) h2ntube=1.
var lab h2ntube "if gets non-drinking water from tube
well/borehole".

compute h2npwell=0.
if (hv202=31) h2npwell=1.
var lab h2npwell "if gets non-drinking water from protected
well".

compute h2nupwell=0.
if (hv202=32) h2nupwell=1.
var lab h2nupwell "if gets non-drinking water from unprotected
well".

compute h2nspwell=0.
if (hv202=33) h2nspwell=1.
var lab h2nspwell "if gets non-drinking water from semi-protected
well".

compute h2npspring=0.
if (hv202=41) h2npspring=1.
var lab h2npspring "if gets non-drinking water from protected
spring".

compute h2nuspring=0.
if (hv202=42) h2nuspring=1.
var lab h2nuspring "if gets non-drinking water from unprotected
spring".

compute h2ndwell=0.
if (hv202=11) h2ndwell=1.
var lab h2ndwell "if gets non-drinking water piped into
dwelling".

compute h2nsurf=0.
if (hv202=43) h2nsurf=1.
var lab h2nsurf "if gets non-drinking water from surface source".

compute h2nrain=0.
```

```
if (hv202=51) h2nrain=1.
var lab h2nrain "if gets non-drinking water from rain".

compute h2ntruck=0.
if (hv202=61) h2ntruck=1.
var lab h2ntruck "if gets non-drinking water from tanker truck".

compute h2ncart=0.
if (hv202=62) h2ncart=1.
var lab h2ncart "if gets non-drinking water from cart with small
tank".

compute h2nneig=0.
if (hv202=72) h2nneig=1.
var lab h2nneig "if gets non-drinking water from neighbor's tap".

*NOTE: not recoding neighbor's tap NAWASA or Others because Ns
too small.

crosstab tables hv202 by h2ndwell h2nyard h2ntap h2ntube h2npwell
h2nupwell
  h2nspwell h2npspring h2nuspring h2nsurf h2nrain h2ntruck
h2ncart h2nneig.




 *TOILET.
freq hv205 hv225.
crosstab tables hv205 by hv225.
crosstab tables hv205 by hv225
     /missing= include.

*compute working variable that includes missing cases on hv225.
recode hv225 (9=98) (sysmis=99) (else=copy) into hv225w.
freq hv225 hv225w.
crosstab tables hv205 by hv225w.
*NOTE: 225 cases where hv225 is missing (230 in last version of
data)
     Assuming if hv225 is missing, = NON-shared facility - best
assumption we can make.

recode hv225w (98=0).
freq hv225w.
crosstab tables hv205 by hv225w.

COMPUTE flpvts = 0.
IF (hv205 = 11 & hv225w = 0) flpvts = 1.
VAR LABELS flpvts "if uses pvt flush toilet to sewer".
VAL LABELS flpvts    0 "does not use pvt flush toilet"
               1 "uses pvt flush toilet".
```

```
COMPUTE flshrs = 0.
IF (hv205 = 11 & hv225w = 1) flshrs = 1.
VAR LABELS flshrs "if uses shared flush toilet to sewer".
VAL LABELS flshrs     0 "does not use shared flush toilet"
                  1 "uses shared flush toilet".


COMPUTE flpvtsp = 0.
IF (hv205 = 12 & hv225w = 0) flpvtsp = 1.
VAR LABELS flpvtsp "if uses pvt flush toilet to septic".
VAL LABELS flpvtsp     0 "does not use pvt flush toilet"
                  1 "uses pvt flush toilet".


COMPUTE flshrsp = 0.
IF (hv205 = 12 & hv225w = 1) flshrsp = 1.
VAR LABELS flshrsp "if uses shared flush toilet to septic".
VAL LABELS flshrsp     0 "does not use shared flush toilet"
                  1 "uses shared flush toilet".


COMPUTE flpvtlat = 0.
IF (hv205 = 13 & hv225w = 0) flpvtlat = 1.
VAR LABELS flpvtlat "if uses pvt flush toilet to latrine".
VAL LABELS flpvtlat   0 "does not use pvt flush toilet to
latrine"
                  1 "uses pvt flush toilet to latrine".


COMPUTE flshrlat = 0.
IF (hv205 = 13 & hv225w = 1) flshrlat = 1.
VAR LABELS flshrlat "if uses shared flush toilet to latrine".
VAL LABELS flshrlat   0 "does not use shared flush toilet to
latrine"
                  1 "uses shared flush toilet to latrine".


COMPUTE flpvto = 0.
IF ((hv205 = 14 | hv205 = 15) & hv225w = 0) flpvto = 1.
VAR LABELS flpvto "if uses pvt flush toilet to other".
VAL LABELS flpvto     0 "does not use pvt flush toilet to other"
                  1 "uses pvt flush toilet to other".


COMPUTE flshro = 0.
IF ((hv205 = 14 | hv205 = 15) & hv225w = 1) flshro = 1.
VAR LABELS flshro "if uses shared flush toilet to other".
VAL LABELS flshro     0 "does not use shared flush toilet to
other"
                  1 "uses shared flush toilet to other".



COMPUTE vippvt = 0.
IF (hv205 = 21 & hv225w = 0) vippvt = 1.
VAR LABELS vippvt "if uses pvt vip latrine".
VAL LABELS vippvt     0 "does not use pvt vip latrine"
                  1 "uses pvt vip latrine".
```

```
COMPUTE vipshr = 0.
IF (hv205 = 21 & hv225w = 1) vipshr = 1.
VAR LABELS vipshr "if uses shared vip latrine".
VAL LABELS vipshr    0 "does not use shared vip latrine"
                 1 "uses shared vip latrine".


COMPUTE latpvtsl = 0.
IF (hv205 = 22 & hv225w = 0) latpvtsl = 1.
VAR LABELS latpvtsl "if uses pvt trad latrine w slab".
VAL LABELS latpvtsl   0 "does not use pvt trad latrine"
                 1 "uses pvt trad latrine".


COMPUTE latshrsl = 0.
IF (hv205 = 22 & hv225w = 1) latshrsl = 1.
VAR LABELS latshrsl "if uses shared trad latrine w slab".
VAL LABELS latshrsl   0 "does not use shared trad latrine"
                 1 "uses shared trad latrine".


COMPUTE latpvtnosl = 0.
IF (hv205 = 23 & hv225w = 0) latpvtnosl = 1.
VAR LABELS latpvtnosl "if uses pvt trad latrine wo slab".
VAL LABELS latpvtnosl 0 "does not use pvt trad latrine wo slab"
                 1 "uses pvt trad latrine wo slab".


COMPUTE latshrnosl = 0.
IF (hv205 = 23 & hv225w = 1) latshrnosl = 1.
VAR LABELS latshrnosl "if uses shared trad latrine wo slab".
VAL LABELS latshrnosl 0 "does not use shared trad latrine wo
slab"
                 1 "uses shared trad latrine wo slab".


COMPUTE latbush = 0.
IF (hv205 = 31) latbush = 1.
VAR LABELS latbush "if uses bush for latrine".
VAL LABELS latbush    0 "does not use bush for latrine"
                 1 "uses bush for latrine".



COMPUTE latpvtcomp = 0.
IF (hv205 = 41 & hv225w = 0) latpvtcomp = 1.
VAR LABELS latpvtcomp "if uses pvt composting toilet".
VAL LABELS latpvtcomp 0 "does not use pvt composting toilet"
                 1 "uses pvt composting toilet".


COMPUTE latshrcomp= 0.
IF (hv205 = 41 & hv225w = 1) latshrcomp= 1.
VAR LABELS latshrcomp"if uses shared composting toilet".
VAL LABELS latshrcomp 0 "does not use shared  composting toilet"
                 1 "uses shared  composting toilet".


COMPUTE latbucket = 0.
IF (hv205 = 42) latbucket = 1.
```

```
VAR LABELS latbucket "if uses bucket toilet".
VAL LABELS latbucket  0 "does not use bucket toilet"
                1 "uses bucket toilet".


COMPUTE hangpvt = 0.
IF (hv205 = 43 & hv225w = 0) hangpvt = 1.
VAR LABELS hangpvt "if uses pvt hanging trad latrine".
VAL LABELS hangpvt    0 "does not use hang pvt trad latrine"
                1 "uses hang pvt trad latrine".


COMPUTE hangshr = 0.
IF (hv205 = 43 & hv225w = 1) hangshr = 1.
VAR LABELS hangshr "if uses shared hang latrine w slab".
VAL LABELS hangshr    0 "does not use shared hang latrine"
                1 "uses shared hang latrine".


exe.
crosstab tables hv205 by flpvts flshrs flpvtsp flshrsp flpvtlat
flshrlat flpvto flshro
   vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl latbush
latpvtcomp
   latshrcomp latbucket hangpvt hangshr.
crosstab tables flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat
flpvto flshro
   vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl latbush
latpvtcomp
   latshrcomp latbucket hangpvt hangshr by hv225w.


* FLOORING.
freq hv213.
COMPUTE dirtfloo = 0.
IF (hv213 = 11) dirtfloo = 1.
VAR LABELS dirtfloo "if floors are made of earth".
VAL LABELS dirtfloo   0 "floors are not made of earth"
                1 "floors are made of earth".


COMPUTE woodfloo = 0.
IF (hv213 = 21) woodfloo = 1.
VAR LABELS woodfloo "if floors are made of wood planks".
VAL LABELS woodfloo   0 "floors are not made of wood planks"
                1 "floors are made of wood planks".


COMPUTE palmfloo = 0.
IF (hv213 = 22) palmfloo = 1.
VAR LABELS palmfloo "if floors are made of palm - bamboo".
VAL LABELS palmfloo   0 "floors are not made of palm - bamboo"
                1 "floors are made of palm - bamboo".



COMPUTE parqfloo = 0.
IF (hv213 = 31) parqfloo = 1.
```

```
VAR LABELS parqfloo "if floors are made of parquet - polished
wood".
VAL LABELS parqfloo   0 "floors are not made of parquet -
polished wood"
                1 "floors are made of parquet - polished wood".


COMPUTE vinfloo = 0.
IF (hv213 = 32) vinfloo = 1.
VAR LABELS vinfloo "if floors are made of vinyl, asphalt strips".
VAL LABELS vinfloo   0 "floors are not made of vinyl, asphalt
strips"
                1 "floors are made of vinyl, asphalt strips".

COMPUTE tilefloo = 0.
IF (hv213 = 33) tilefloo = 1.
VAR LABELS tilefloo "if floors are made of ceramic tile".
VAL LABELS tilefloo   0 "floors are not made of ceramic tile"
                1 "floors are made of ceramic tile".

COMPUTE cemtfloo = 0.
IF (hv213 = 34) cemtfloo = 1.
VAR LABELS cemtfloo "if floors are made of cement".
VAL LABELS cemtfloo   0 "floors are not made of cement"
                1 "floors are made of cement".

COMPUTE carpetfloo = 0.
IF (hv213 = 35) carpetfloo = 1.
VAR LABELS carpetfloo "if floors are made of carpet".
VAL LABELS carpetfloo 0 "floors are not made of carpet"
                1 "floors are made of carpet".

COMPUTE marblefloo = 0.
IF (hv213 = 36) marblefloo = 1.
VAR LABELS marblefloo "if floors are made of marble".
VAL LABELS marblefloo 0 "floors are not made of marble"
                1 "floors are made of marble".
exe.
*NOTE - leaving 4 "others" uncoded.
freq hv213.
CROSSTABS
  /TABLES=HV213  BY dirtfloo woodfloo palmfloo parqfloo vinfloo
tilefloo
  cemtfloo carpetfloo marblefloo.

* WALLS.
freq hv214.

COMPUTE earthw = 0.
IF (hv214 = 11 | hv214=12) earthw = 1.
VAR LABELS earthw "if walls are made of cane/palm/trunts/dirt".
VAL LABELS earthw     0 "walls are not made of earth"
```

```
                   1 "walls are made of earth".

COMPUTE bamboow = 0.
IF (hv214 = 21) bamboow = 1.
VAR LABELS bamboow "if walls are made of bamboo".
VAL LABELS bamboow    0 "walls are not made of bamboo"
                   1 "walls are made of bamboo".

COMPUTE makeshiftw = 0.
IF (hv214 = 22 | hv214 = 23 | hv214 = 25) makeshiftw = 1.
VAR LABELS makeshiftw "if walls are made of makeshift/cardboard+4
stone and mud +2 uncovered adobe".
VAL LABELS makeshiftw 0 "walls are not made of makeshift
materials"
                   1 "walls are made of makeshift materials".


COMPUTE plywdw = 0.
IF (hv214 = 24) plywdw = 1.
VAR LABELS plywdw "if walls are made of plywood".
VAL LABELS plywdw     0 "walls are not made of plywood"
                   1 "walls are made of plywood".


COMPUTE cementw = 0.
IF (hv214 = 31) cementw = 1.
VAR LABELS cementw "if walls are made of cement".
VAL LABELS cementw    0 "walls are not made of cement"
                   1 "walls are made of cement".




COMPUTE stonecmtw = 0.
IF (hv214 = 32) stonecmtw = 1.
VAR LABELS stonecmtw "if walls are made of stone with lime
cement".
VAL LABELS stonecmtw  0 "walls are not made of stone with lime
cement"
                   1 "walls are made of stone with lime cement".

COMPUTE brickw = 0.
IF (hv214 = 33) brickw = 1.
VAR LABELS brickw "if walls are made of brick".
VAL LABELS brickw     0 "walls are not made of brick"
                   1 "walls are made of brick".


COMPUTE cmtblkw = 0.
IF (hv214 = 34 | hv214=35) cmtblkw = 1.
VAR LABELS cmtblkw "if walls are made of cement blocks + 14
covered adobe".
VAL LABELS cmtblkw    0 "walls are not made of cement blocks"
```

```
                    1 "walls are made of cement blocks".


COMPUTE woodw = 0.
IF (hv214 = 36) woodw = 1.
VAR LABELS woodw "if walls are made of wood planks or shingles".
VAL LABELS woodw 0 "walls are not made of wood"
                    1 "walls are made of wood".

COMPUTE metalw = 0.
IF (hv214 = 37) metalw = 1.
VAR LABELS metalw "if walls are made of galvanized iron or
aluminum".
VAL LABELS metalw     0 "walls are not made of iron or aluminum"
                    1 "walls are made of iron or aluminum".

COMPUTE othw = 0.
IF (hv214 = 96 | missing(hv214)) othw = 1.
VAR LABELS othw "if walls are made of other-missing".
VAL LABELS othw 0 "walls are not made of other-missing"
                    1 "walls are made of other-missing".
freq hv214 othw.

exe.

CROSSTABS
  /TABLES=HV214  BY earthw bamboow makeshiftw plywdw cementw
stonecmtw brickw
  cmtblkw woodw metalw othw
  /missing=include .


* ROOF.

COMPUTE thatchr = 0.
IF (hv215 = 12) thatchr = 1.
VAR LABELS thatchr "if roof is made of thatch".
VAL LABELS thatchr     0 "roof is not made of thatch"
                    1 "roof is made of thatch".

COMPUTE sodr = 0.
IF (hv215 = 13) sodr = 1.
VAR LABELS sodr "if roof is made of sod - grass".
VAL LABELS sodr 0 "roof is not made of sod - grass"
                    1 "roof is made of sod - grass".
COMPUTE bamboor = 0.
IF (hv215 = 22 | hv215=21) bamboor = 1.
VAR LABELS bamboor "if roof is made of bamboo + 4 rustic mat".
VAL LABELS bamboor     0 "roof is not made of  bamboo"
                    1 "roof is made of  bamboo".

COMPUTE woodr = 0.
```

```
IF (hv215 = 23 | hv215=32) woodr = 1.
VAR LABELS woodr "if roof is made of wood planks or wood".
VAL LABELS woodr 0 "roof is not made of wood"
                1 "roof are made of wood".


COMPUTE cardr = 0.
IF (hv215 = 24) cardr = 1.
VAR LABELS cardr "if roof is made of makeshift materials –
cardboard".
VAL LABELS cardr 0 "roof is not made of cardboard"
                1 "roof are made of cardboard".


COMPUTE metalr = 0.
IF (hv215 = 31) metalr = 1.
VAR LABELS metalr "if roof is made of metal (galvanized iron or
alumninum)".
VAL LABELS metalr    0 "roof is not made of metal"
                1 "roof is made of metal".


COMPUTE caltiler = 0.
IF (hv215 = 33 | hv215=34) caltiler = 1.
VAR LABELS caltiler "if roof is made of tiles or cement fiber".
VAL LABELS caltiler   0 "roof is not made of tiles or cement
fiber"
                1 "roof is made of tiles or cement fiber".


COMPUTE cemtr = 0.
IF  (hv215 = 35) cemtr = 1.
VAR LABELS cemtr "if roof is made of cemt".
VAL LABELS cemtr 0 "roof is not made of cemt"
                1 "roof are made of cemt".


COMPUTE shingler = 0.
IF  (hv215 = 36) shingler = 1.
VAR LABELS shingler "if roof is made of shingles".
VAL LABELS shingler   0 "roof is not made of shingles"
                1 "roof are made of shingles".

*NOTE: not assigning 5 HHs with no roof, 1 other, and 1 missing.
exe.
CROSSTABS
  /TABLES=HV215  BY thatchr sodr bamboor woodr cardr metalr
caltiler cemtr
  shingler.


*FUEL.
crosstab tables sh65 by hv241
/missing=include.
freq hv226 hv239 hv240.

*recode hv239 and 240 to check skips.
```

```
RECODE HV240
 (SYSMIS=99)  (9=98)  (ELSE=Copy)  INTO  hv240w .
  VARIABLE LABELS hv240w 'hv240 recoded'.
  val labels hv240w   0 "neither" 1 "chimney" 2 "hood" 98 "user
missing" 99 "sysmis".
  EXECUTE .
freq hv240w.
recode HV239 (9=98) (sysmis=99) (else=copy) into hv239w.
  val labels hv239w   1 "open fire" 2 "open stove" 3 "closed
stove w chimney"
                6 "other" 98 "user missing" 99 "system missing".
freq hv239w.
crosstab tables hv226 by hv239w by hv240w.
crosstab tables hv239w by hv240w.
crosstab tables hv226 by hv240w.

compute elecf=0.
if (hv226=1) elecf=1.
var label elecf "if uses electricity for cooking".
val label elecf 0 "does not use electricity for cooking"
          1 "uses electricity for cooking".


compute LPGf=0.
if (hv226=2) LPGf=1.
var label LPGf "if uses LPG for cooking".
val label LPGf  0 "does not use LPG for cooking"
          1 "uses LPG for cooking".

compute gasf=0.
if (hv226=3 | hv226=4) gasf=1.
var label gasf "if uses natural gas + 2 biogas for cooking".
val label gasf  0 "does not use natural or biogas for cooking"
          1 "uses natural or biogas for cooking".

compute kerf=0.
if (hv226=5) kerf=1.
var label kerf "if uses kerosene for cooking".
val label kerf  0 "does not use kerosene for cooking"
          1 "uses kerosene for cooking".

compute coalf=0.
if (hv226=6 | hv226=7) coalf=1.
var label coalf "if uses charcoal + 9 coal, lignite for cooking".
val label coalf 0 "does not use coal or charcoal for cooking"
          1 "uses coal or charcoal for cooking".
compute woodf=0.
if (hv226=8) woodf=1.
var label woodf "if uses wood for cooking".
val label woodf 0 "does not use wood for cooking"
          1 "uses wood for cooking".
```

```
compute cropf=0.
if (hv226=9 | hv226=10 | hv226=11) cropf=1.
var label cropf "if uses crops + 5 straw + 1 animal dung for
cooking".
val label cropf  0 "does not use crops for cooking"
            1 "uses crops for cooking".
exe.

CROSSTABS
  /TABLES=HV226  BY elecf LPGf gasf kerf coalf woodf cropf
  /missing=include.


*ROOMS PER HH MEMBER.
freq hv216.
*note 23 cases missing - assigning to missing, will be assigned
to the mean.
* 6 cases of 0 rooms - assign 1 room.
recode hv216  (99=sysmis) (0=1) (else=copy) into hv216w.
freq hv216w.
freq nummem.
COMPUTE memsleep = (nummem/hv216w).
VARIABLE LABELS memsleep "number of members per sleeping room".
freq memsleep.

*electricity.
compute electricity=hv206.

*radio.
compute radio=hv207.

*has TV.
freq hv208.
compute TV=hv208.

*Refrigerator.
freq hv209.
compute refrigerator=hv209.

*bicycle.
compute bicycle=hv210.

*motorcycle/scooter.
freq hv211.
compute motorcycle=hv211.

*car/truck.
compute car=hv212.

*land line telephone.
freq hv221 sh61d.
compute telephone=hv221.
```

```
*mobile.
freq sh61E hv243a.
compute mobile=hv243A.

*animal cart.
compute cart=hv243c.

*motorboat.
compute boat=hv243d.

*computer.
compute computer=sh61f.

*washing machine.
compute wash=sh61g.

*CD/DVD player.
compute DVD=sh61I.

*karaoke machine.
compute karaoke=sh61J.

*tractor.
compute tractor=sh71e.

*Simple assets:.
FREQUENCIES
  VARIABLES=electricity radio TV refrigerator bicycle motorcycle
car
  telephone mobile cart boat computer wash DVD karaoke tractor
  /ORDER=  ANALYSIS .

*replace missing w don't have:.
do repeat simple= electricity radio TV refrigerator bicycle
motorcycle car
  telephone mobile cart boat computer wash DVD karaoke tractor.
if (missing(simple)) simple=0.
end repeat.
freq electricity radio TV refrigerator bicycle motorcycle car
  telephone mobile cart boat computer wash DVD karaoke tractor.


*complex assets:.
FREQUENCIES
  VARIABLES=h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel
h2pswel
  h2pspring h2uspring h2osurf h2orain h2otruck h2ocart h2obottle
h2neigunk
  h2neigNAW
  h2ndwell h2nyard h2ntap h2ntube h2npwell h2nupwell
  h2nspwell h2npspring h2nuspring h2nsurf h2nrain h2ntruck
```

```
h2ncart h2nneig
   flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat flpvto
  flshro vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl
latbush
  latpvtcomp latshrcomp latbucket hangpvt hangshr dirtfloo
woodfloo palmfloo
  parqfloo vinfloo tilefloo cemtfloo carpetfloo marblefloo earthw
bamboow
  makeshiftw plywdw cementw stonecmtw brickw cmtblkw woodw metalw
othw thatchr
  sodr bamboor woodr cardr metalr caltiler cemtr shingler elecf
LPGf gasf kerf coalf woodf cropf
  memsleep
  /ORDER=  ANALYSIS .

* Non-pos def matrix - remove vars with lowest component score,
as that indicates the great majority of their variance is
explained by other factors in the model.
      *1. Remove H20truck.
      *2. Remove cropf.
      *3. removing parqfloo.
      *4. removing othw.
      *5. Matrix is now pos def.




FACTOR
  /VARIABLES electricity radio TV refrigerator bicycle motorcycle
car
  telephone mobile cart boat computer wash DVD karaoke tractor
  h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel h2pswel
  h2pspring h2uspring h2osurf h2orain h2ocart h2obottle h2neigunk
  h2neigNAW flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat
flpvto
  flshro vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl
latbush
  latpvtcomp latshrcomp latbucket hangpvt hangshr dirtfloo
woodfloo palmfloo
  vinfloo tilefloo cemtfloo carpetfloo marblefloo earthw bamboow
  makeshiftw plywdw cementw stonecmtw brickw cmtblkw woodw metalw
thatchr
  sodr bamboor woodr cardr metalr caltiler cemtr shingler elecf
LPGf gasf kerf coalf woodf
  memsleep
  /MISSING MEANSUB /ANALYSIS electricity radio TV refrigerator
bicycle motorcycle car
  telephone mobile cart boat computer wash DVD karaoke tractor
  h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel h2pswel
  h2pspring h2uspring h2osurf h2orain h2ocart h2obottle h2neigunk
  h2neigNAW flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat
flpvto
  flshro vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl
```

```
latbush
  latpvtcomp latshrcomp latbucket hangpvt hangshr dirtfloo
woodfloo palmfloo
  vinfloo tilefloo cemtfloo carpetfloo marblefloo earthw bamboow
  makeshiftw plywdw cementw stonecmtw brickw cmtblkw woodw metalw
thatchr
  sodr bamboor woodr cardr metalr caltiler cemtr shingler elecf
LPGf gasf kerf coalf woodf
  memsleep
  /PRINT UNIVARIATE INITIAL correlation EXTRACTION FSCORE
  /FORMAT SORT
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION .


RANK
  VARIABLES=FAC1_1  (A)
  /RANK /NTILES (5)
  /PRINT=YES
  /TIES=MEAN .

freq nfac1_1.
compute fac2=fac1_1.
compute nfac2=nfac1_1.

*Identify Duplicate Cases.
SORT CASES BY fac2(A) .
MATCH FILES /FILE = *  /BY fac2
 /FIRST = PrimaryFirst .
VARIABLE LABELS PrimaryFirst 'Indicator of each first matching
case as'+
 ' Primary without non-drinking water' .
VALUE LABELS PrimaryFirst 0 'Duplicate Case' 1 'Primary Case'.
VARIABLE LEVEL PrimaryFirst (ORDINAL).
FREQUENCIES VARIABLES = PrimaryFirst .
EXECUTE.


**Running a second time including non-drinking water.


FACTOR
  /VARIABLES electricity radio TV refrigerator bicycle motorcycle
car
  telephone mobile cart boat computer wash DVD karaoke tractor
  h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel h2pswel
  h2pspring h2uspring h2osurf h2orain h2ocart h2obottle h2neigunk
  h2neigNAW flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat
flpvto
```

```
   flshro vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl
latbush
   latpvtcomp latshrcomp latbucket hangpvt hangshr dirtfloo
woodfloo palmfloo
   vinfloo tilefloo cemtfloo carpetfloo marblefloo earthw bamboow
   makeshiftw plywdw cementw stonecmtw brickw cmtblkw woodw metalw
thatchr
   sodr bamboor woodr cardr metalr caltiler cemtr shingler elecf
LPGf gasf kerf coalf woodf
   memsleep
   h2ndwell h2nyard h2ntap h2ntube h2npwell h2nupwell
   h2nspwell h2npspring h2nuspring h2nsurf h2nrain h2ntruck
h2ncart h2nneig
   /MISSING MEANSUB /ANALYSIS electricity radio TV refrigerator
bicycle motorcycle car
   telephone mobile cart boat computer wash DVD karaoke tractor
   h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel h2pswel
   h2pspring h2uspring h2osurf h2orain h2ocart h2obottle h2neigunk
   h2neigNAW flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat
flpvto
   flshro vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl
latbush
   latpvtcomp latshrcomp latbucket hangpvt hangshr dirtfloo
woodfloo palmfloo
   vinfloo tilefloo cemtfloo carpetfloo marblefloo earthw bamboow
   makeshiftw plywdw cementw stonecmtw brickw cmtblkw woodw metalw
thatchr
   sodr bamboor woodr cardr metalr caltiler cemtr shingler elecf
LPGf gasf kerf coalf woodf
   memsleep
   h2ndwell h2nyard h2ntap h2ntube h2npwell h2nupwell
   h2nspwell h2npspring h2nuspring h2nsurf h2nrain h2ntruck
h2ncart h2nneig
   /PRINT UNIVARIATE INITIAL correlation EXTRACTION FSCORE
   /FORMAT SORT
   /CRITERIA FACTORS(1) ITERATE(25)
   /EXTRACTION PC
   /ROTATION NOROTATE
   /SAVE REG(ALL)
   /METHOD=CORRELATION .


save outfile="PHassets9-1-09.sav".
COMPUTE hhmemwt = hv005/1000000 * nummem .
VARIABLE LABELS hhmemwt 'HH members weighting for Index' .

WEIGHT
BY hhmemwt .
FREQUENCIES
VARIABLES=fac1_2  /FORMAT=NOTABLE
/NTILES= 5
```

```
/STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN /ORDER  ANALYSIS .
freq hv012.

RANK
  VARIABLES=FAC1_2  (A)
  /RANK /NTILES (5)
  /PRINT=YES
  /TIES=MEAN .

freq nfac1_2.

**NOTE: because ran twice need to change syntax in next line and
use fac1_2.
compute wlthind5=NFAC1_2.




write outfile="PHscores9-1-09.dat" records=1 table
/hhid fac1_2 wlthind5.
execute.

* Identify Duplicate Cases.
weight off.
SORT CASES BY fac1_2(A) .
MATCH FILES /FILE = *  /BY fac1_2
 /FIRST = PrimaryFirst2 .
VARIABLE LABELS PrimaryFirst2 'Indicator of each first matching
case as'+
 ' Primary with non-drinking water' .
VALUE LABELS PrimaryFirst2 0 'Duplicate Case' 1 'Primary Case'.
VARIABLE LEVEL PrimaryFirst2 (ORDINAL).
FREQUENCIES VARIABLES = PrimaryFirst2 .
EXECUTE.

freq primaryfirst primaryfirst2.
crosstab tables nfac2 by nfac1_2.
weight by hhmemwt.

*NOTE - keeping in/leaving out non-drinking water does make
difference in quintiles.
**checked for duplicate cases - 287 duplicates when include, 353
when don't.  Use non-drinking water as it makes a small
difference.


crosstab tables nfac1_2 by hv025 /cells=row count
/statistics=chisq.



MEANS
  TABLES=electricity radio TV refrigerator bicycle motorcycle car
```

```
  telephone mobile cart boat computer wash DVD karaoke tractor
  h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel h2pswel
  h2pspring h2uspring h2osurf h2orain h2ocart h2obottle h2neigunk
  h2neigNAW flpvts flshrs flpvtsp flshrsp flpvtlat flshrlat
flpvto
  flshro vippvt vipshr latpvtsl latshrsl latpvtnosl latshrnosl
latbush
  latpvtcomp latshrcomp latbucket hangpvt hangshr dirtfloo
woodfloo palmfloo
  vinfloo tilefloo cemtfloo carpetfloo marblefloo earthw bamboow
  makeshiftw plywdw cementw stonecmtw brickw cmtblkw woodw metalw
thatchr
  sodr bamboor woodr cardr metalr caltiler cemtr shingler elecf
LPGf gasf kerf coalf woodf
  memsleep
BY
 wlthind5
   /CELLS MEAN  .

MEANS
  TABLES= hv009 hv025 BY wlthind5
  /CELLS MEAN COUNT STDDEV
  /STATISTICS ANOVA .

crosstab tables hv025 by wlthind5
 /cell col
/statistics chisq.

FREQ  wlthind5.
weight off.
FREQ  wlthind5.
```