```
weight off.

FREQ SH102 SH104A SH104B HV205 HV206 HV207 HV208 HV209 HV210
HV211 HV212 HV213
HV214 HV215 HV221 HV225 HV226 HV242 HV243A HV243B HV243C HV243D
HV244 HV245 HV246 HV246A HV246B HV246C HV246D HV246E HV246F
HV246G
HV246H HV246I HV246J HV246K HV247 SH110G SH110H SH110I SH110J
SH118D
SH118H SH120U SH120N.


 *{Construct Variables}.

*WATER SOURCE - constructing using water during wet season only.

COMPUTE h2oires = 0.
IF (sh104b = 11) h2oires = 1.
VARIABLE LABELS h2oires "if water is piped into residence during
wet season".
VALUE LABELS h2oires 0 "water not piped into residence"
            1 "water is piped into residence".

COMPUTE h2oyard = 0.
IF (sh104b = 12) h2oyard = 1.
VARIABLE LABELS h2oyard "if water is piped into yard during wet
season".
VALUE LABELS h2oyard 0 "water not piped into yard"
            1 "water is piped into yard".

COMPUTE h2opub = 0.
IF (sh104b = 13) h2opub = 1.
VARIABLE LABELS h2opub "if water is from pub tap/standpipe during
wet season".
VALUE LABELS h2opub 0 "water not pub tap/standpipe"
            1 "water is pub tap/standpipe".

COMPUTE h2otube = 0.
IF (sh104b = 21) h2otube = 1.
VARIABLE LABELS h2otube "if gets water from tubewell or borehole
during wet season".
VALUE LABELS h2otube 0 "does not get water from tubewell or
borehole"
            1 "gets water from tubewell or borehole".

COMPUTE h2opwell = 0.
IF (sh104b = 31) h2opwell = 1.
VARIABLE LABELS h2opwell "if gets water from a protected well".
VALUE LABELS h2opwell 0 "does not get water from a protected
well"
                  1 "gets water from a protected well".
```

```
COMPUTE h2upwell = 0.
IF (sh104b = 32) h2upwell = 1.
VARIABLE LABELS h2upwell "if gets water from an unprotected
well".
VALUE LABELS h2upwell 0 "does not get water from an unprotected
well"
                      1 "gets water from an unprotected well".

COMPUTE h2spring = 0.
IF (sh104b = 41) h2spring = 1.
VARIABLE LABELS h2spring "if gets water from a protected spring".
VALUE LABELS h2spring 0 "does not get water from a protected
spring"
                      1 "gets water from a protected spring".

COMPUTE h2osurf = 0.
IF (sh104b = 42 | sh104b = 43) h2osurf = 1.
VARIABLE LABELS h2osurf "if gets water from river, stream, pond,
lake or dam".
VALUE LABELS h2osurf 0 "does not get water from surface sources"
                  1 "gets water from surface sources".

COMPUTE h2orain = 0.
IF (sh104b = 51) h2orain = 1.
VARIABLE LABELS h2orain "if collects rainwater for drinking".
VALUE LABELS h2orain 0 "does not collect rainwater for drinking"
                  1 "collects rainwater for drinking".

COMPUTE h2otk = 0.
IF (sh104b = 61 | sh104b = 62) h2otk = 1.
VARIABLE LABELS h2otk "if gets water from tanker truck or cart
with sm tank".
VALUE LABELS h2otk 0 "does not get water from truck/tank"
                  1 "gets water from truck/tank".

COMPUTE h2obottl = 0.
IF (sh104b = 71) h2obottl = 1.
VARIABLE LABELS h2obottl "if uses bottled drinking water".
VALUE LABELS h2obottl 0 "does not use bottled drinking water"
                    1 "uses bottled drinking water".

COMPUTE h2oother = 0.
IF (sh104b = 96) h2oother = 1.
VARIABLE LABELS h2oother "if gets water from other source".
VALUE LABELS h2oother 0 "does not get water from other source"
                    1 "gets water from other source".


*TOILET TYPES.

COMPUTE flushs = 0.
IF (hv205 = 11 & hv225 = 0) flushs = 1.
```

```
VARIABLE LABELS flushs "if has own flush toilet to sewer".
VALUE LABELS flushs 0 "does not have own flush toilet to sewer"
                    1 "has own flush toilet to sewer".

COMPUTE shflushs = 0.
IF (hv205 = 11 & hv225 = 1) shflushs = 1.
VARIABLE LABELS shflushs "if uses shared flush toilet to sewer".
VALUE LABELS shflushs 0 "does not use shared flush toilet to
sewer"
                    1 "uses shared flush toilet to sewer".

COMPUTE flusho = 0.
IF ((hv205 > 11 & hv205 < 16) & hv225 = 0) flusho = 1.
VARIABLE LABELS flusho "if has own flush toilet to non-sewer".
VALUE LABELS flusho 0 "does not have own flush toilet to non-
sewer"
                    1 "has own flush toilet to non-sewer".

COMPUTE shflusho = 0.
IF ((hv205 > 11 & hv205 < 16) & hv225 = 1) shflusho = 1.
VARIABLE LABELS shflusho "if uses shared flush toilet to non-
sewer".
VALUE LABELS shflusho 0 "does not use shared flush toilet to non-
sewer"
                    1 "uses shared flush toilet to non-sewer".

COMPUTE latrine = 0.
IF ((hv205 > 20 & hv205 < 25) & hv225 = 0) latrine = 1.
VARIABLE LABELS latrine "if uses own latrine (any kind)".
VALUE LABELS latrine 0 "does not use own latrine"
                    1 "uses own latrine".

COMPUTE latrine = 0.
IF ((hv205 > 20 & hv205 < 25) & hv225 = 1) latrine = 1.
VARIABLE LABELS latrine "if uses shared latrine (any kind)".
VALUE LABELS latrine 0 "does not use shared latrine"
                    1 "uses shared latrine".


COMPUTE latbush = 0.
IF (hv205 = 31) latbush = 1.
VARIABLE LABELS latbush "if uses the bush".
VALUE LABELS latbush 0 "does not use the bush"
                    1 "uses the bush".

COMPUTE latother = 0.
IF (hv205 > 31) latother = 1.
VARIABLE LABELS latother "if uses some other type of facility".
VALUE LABELS latother 0 "does not use some other type of
facility"
                    1 "uses some other type of facility".
```

```
*AMENITIES.

COMPUTE electric = 0.
IF (hv206 = 1) electric = 1.
VARIABLE LABELS electric "if household has electric".
VALUE LABELS electric 0 "no electric"
                  1 "has electric".

COMPUTE radio = 0.
IF (hv207 = 1) radio = 1.
VARIABLE LABELS radio "if household has radio".
VALUE LABELS radio 0 "no radio"
                  1 "has radio".

COMPUTE tv = 0.
IF (hv208 = 1) tv = 1.
VARIABLE LABELS tv "if household has tv".
VALUE LABELS tv 0 "no tv"
                  1 "has tv".

COMPUTE fridge = 0.
IF (hv209 = 1) fridge = 1.
VARIABLE LABELS fridge "if household has fridge".
VALUE LABELS fridge 0 "no fridge"
                       1 "has fridge".

COMPUTE bicycle = 0.
IF (hv210 = 1) bicycle = 1.
VARIABLE LABELS bicycle "if household has bicycle".
VALUE LABELS bicycle 0 "no bicycle"
                        1 "has bicycle".

COMPUTE motobk = 0.
IF (hv211 = 1) motobk = 1.
VARIABLE LABELS motobk "if household has motorcycle or scooter".
VALUE LABELS motobk 0 "no motorbike/scooter"
                       1 "has motorbike/scooter".

COMPUTE car = 0.
IF (hv212 = 1) car = 1.
VARIABLE LABELS car "if household has car or truck".
VALUE LABELS car 0 "no car/truck"
                  1 "has car/truck".

COMPUTE phone = 0.
IF (hv221 = 1) phone = 1.
VARIABLE LABELS phone "if household has landline phone".
VALUE LABELS phone 0 "no phone"
                       1 "has phone".

COMPUTE sepkitch = 0.
```

```
IF (hv242 = 1) sepkitch = 1.
VARIABLE LABELS sepkitch "if cooking is done in a separate bldg
or room".
VAL LABELS sepkitch   0 "no"
                1 "yes".


COMPUTE mphone = 0.
IF (hv243a = 1) mphone = 1.
VARIABLE LABELS mphone "if household has mobile phone".
VALUE LABELS mphone 0 "no mobile phone"
                    1 "house has mobile phone".


COMPUTE watch = 0.
IF (hv243b = 1) watch = 1.
VARIABLE LABELS watch "if household has watch".
VALUE LABELS watch 0 "no watch"
                    1 "has watch".


COMPUTE cart = 0.
IF (hv243c = 1) cart = 1.
VARIABLE LABELS cart "if household has a cart".
VALUE LABELS cart 0 "no cart"
                    1 "cart".


COMPUTE mboat = 0.
IF (hv243d = 1) mboat = 1.
VARIABLE LABELS mboat "if household has boat w motor".
VALUE LABELS mboat    0 "no boat"
          1 "has boat".


COMPUTE bank = 0.
IF (hv247 = 1) bank = 1.
VARIABLE LABELS bank "if household has a bank acct".
VALUE LABELS bank     0 "no bank acct"
          1 "house gets bank acct".


COMPUTE wardrobe = 0.
IF (sh110g = 1) wardrobe = 1.
VARIABLE LABELS wardrobe "if household has a wardrobe".
VALUE LABELS wardrobe 0 "no wardrobe"
                1 "house has wardrobe".


COMPUTE sewmach = 0.
IF (sh110h = 1) sewmach = 1.
VARIABLE LABELS sewmach "if household has sewing machine".
VALUE LABELS sewmach 0 "no sewing machine"
                1 "household has sewing machine".


COMPUTE cddvd = 0.
IF (sh110i = 1) cddvd = 1.
VARIABLE LABELS cddvd "if household has cd/dvd player".
VALUE LABELS cddvd  0 "no cd/dvd"
```

```
              1 "household has cd/dvd".

COMPUTE altnrg = 0.
IF (sh110j = 1) altnrg = 1.
VARIABLE LABELS altnrg "if household has gen/battery/solar src of
energy".
VALUE LABELS altnrg 0 "no alt src of energy"
                       1 "household has alt src of energy".

COMPUTE motocart = 0.
IF (sh118d = 1) motocart = 1.
VARIABLE LABELS motocart "if household has a motorcycle cart".
VALUE LABELS motocart 0 "no motocart"
                      1 "household has motocart".

COMPUTE boat = 0.
IF (sh118h = 1) boat = 1.
VARIABLE LABELS boat "if household has boat w/out motor".
VALUE LABELS boat      0 "no boat"
             1 "has boat".

COMPUTE hectares = 0.
IF (sh120n > 0) hectares = sh120n.
FREQ hectares.




*FLOOR TYPE.

COMPUTE dirtfloo = 0.
IF (hv213 = 11) dirtfloo = 1.
VARIABLE LABELS dirtfloo "if floor is earth/sand".
VALUE LABELS dirtfloo 0 "floor is not earthen"
                 1 "floor is earthen".

COMPUTE woodfloo = 0.
IF (hv213 = 21) woodfloo = 1.
VARIABLE LABELS woodfloo "if floor is of wood planks".
VALUE LABELS woodfloo 0 "floor is not of wood planks"
                    1 "floor is of wood planks (+4 palm/bamboo +5
other)".

COMPUTE palmfloo = 0.
IF (hv213 = 22) palmfloo = 1.
VARIABLE LABELS palmfloo "if floor is palm".
VALUE LABELS palmfloo 0 "floor is not palm"
             1 "floor is palm".

COMPUTE vinfloo = 0.
IF (hv213 = 32 | hv213 = 34) vinfloo = 1.
VARIABLE LABELS vinfloo "if has cemt tile flooring (+
```

```
13linofloor)".
VALUE LABELS vinfloo 0 "does not have cemt tile flooring"
                   1 "has cemt tile flooring".


COMPUTE cerafloo = 0.
IF (hv213 = 31 | hv213 = 33) cerafloo = 1.
VARIABLE LABELS cerafloo "if flooring is of ceramic tiles (+
33parq)".
VALUE LABELS cerafloo 0 "floor is not of ceramic tiles"
                   1 "floor is of ceramic tiles".


COMPUTE cemtfloo = 0.
IF (hv213 = 35) cemtfloo = 1.
VARIABLE LABELS cemtfloo "if floor is of cement".
VALUE LABELS cemtfloo 0 "floor is not cement"
                   1 "floor is cement".


COMPUTE othfloo = 0.
IF (hv213 = 41 | hv213 = 96) othfloo = 1.
VARIABLE LABELS othfloo "if floor is of other materials (+36
floatinghouse)".
VALUE LABELS othfloo 0 "floor is not of other materials"
           1 "floor is of other materials".



* TYPE OF WALL MATERIALS.

COMPUTE grnwall = 0.
IF (hv214 < 27) grnwall = 1.
VARIABLE LABELS grnwall "if wall made of variety of free stuff".
VALUE LABELS grnwall  0 "wall is not made of free stuff"
           1 "wall is made of free stuff".


COMPUTE woodwall = 0.
IF (hv214 = 27) woodwall = 1.
VARIABLE LABELS woodwall "if wall made of recycled wood".
VALUE LABELS woodwall 0 "wall is not made of recycled wood"
           1 "wall is made of recycled wood".


COMPUTE metlwall = 0.
IF (hv214 = 28) metlwall = 1.
VARIABLE LABELS metlwall "if wall made of metal".
VALUE LABELS metlwall 0 "wall is not made of metal"
             1 "wall is made of metal".


COMPUTE cemtwall = 0.
IF (hv214 = 31 | hv214 = 32) cemtwall = 1.
VARIABLE LABELS cemtwall "if wall made of cement (+
32stone+cement)".
VALUE LABELS cemtwall 0 "wall is not made of cement"
                   1 "wall is made of cement".
```

```
COMPUTE brckwall = 0.
IF (hv214 = 33 | hv214 = 35) brckwall = 1.
VARIABLE LABELS brckwall "if wall made of bricks (+18 covered
adobe)".
VALUE LABELS brckwall 0 "wall is not made of bricks"
                 1 "wall is made of bricks".


COMPUTE blckwall = 0.
IF (hv214 = 34) blckwall = 1.
VARIABLE LABELS blckwall "if wall made cement blocks".
VALUE LABELS blckwall 0 "wall is not made of cemt blocks"
                 1 "wall is made of cemt blocks".

COMPUTE plnkwall = 0.
IF (hv214 = 36) plnkwall = 1.
VARIABLE LABELS plnkwall "if wall made of wood planks/shingles".
VALUE LABELS plnkwall 0 "wall is not made of wood
planks/shingles"
                 1 "wall is made of wood planks/shingles".

COMPUTE othwall = 0.
IF (hv214 = 96) othwall = 1.
VARIABLE LABELS othwall "if wall made of other materials".
VALUE LABELS othwall      0 "wall is not made of other
materials"
                 1 "wall is made of other materials".



*TYPE OF ROOFING MATERIALS.

COMPUTE natroof = 0.
IF (hv215 = 11 | hv215 = 12 | hv215 = 21) natroof = 1.
VARIABLE LABELS natroof "if has grass/thatch/makuti roofing".
VALUE LABELS natroof 0 "no grass/thatch/makuti roofing"
                 1 "has grass/thatch/makuti roofing".

COMPUTE stufroof = 0.
IF (hv215 = 22 | hv215 = 23 | hv215 = 24) stufroof = 1.
VARIABLE LABELS stufroof "if has roof made of various recycled
stuf".
VALUE LABELS stufroof 0 "does not have roof made of various
recycled stuf"
                 1 "has roof made of various recycled stuf".

COMPUTE ironroof = 0.
IF (hv215 = 31) ironroof = 1.
VARIABLE LABELS ironroof "if roof made of corrugated iron".
VALUE LABELS ironroof 0 "roof not made of corrugated iron"
                  1 "roof made of corrugated iron".
```

```
COMPUTE ctfbroof = 0.
IF (hv215 = 32 | hv215 = 33) ctfbroof = 1.
VARIABLE LABELS ctfbroof "if has roof made of cemtfiber (+
19wood)".
VALUE LABELS ctfbroof 0 "does not have roof made of cemtfiber"
                1 "has roof made of cemtfiber".


COMPUTE ceraroof = 0.
IF (hv215 = 34) ceraroof = 1.
VARIABLE LABELS ceraroof "if roof made of ceramic tiles".
VALUE LABELS ceraroof 0 "roof not made of ceramic tiles"
             1 "roof made of ceramic tiles".


COMPUTE tileroof = 0.
IF (hv215 = 35) tileroof = 1.
VARIABLE LABELS tileroof "if roof is made of tile".
VALUE LABELS tileroof 0 "roof is not made of tile"
                 1 "roof is made of tile".


COMPUTE concroof = 0.
IF (hv215 = 36 | hv215 = 96) concroof = 1.
VARIABLE LABELS concroof "if roof is made of concrete (+16
other)".
VALUE LABELS concroof 0 "roof is not made of concrete"
                   1 "roof is made of concrete".




*TYPE OF COOKING FUEL.

COMPUTE cookelec = 0.
IF (hv226 = 1) cookelec = 1.
VARIABLE LABELS cookelec "if uses electricity for cooking".
VALUE LABELS cookelec 0 "does not use electricity for cooking"
                  1 "uses electricity for cooking".


COMPUTE cookgas = 0.
IF (hv226 = 2 | hv226 = 4) cookgas = 1.
VARIABLE LABELS cookgas "if uses LPG or biogas for cooking".
VALUE LABELS cookgas 0 "does not use gas for cooking"
                 1 "uses gas for cooking".


COMPUTE cookcoal = 0.
IF (hv226 = 6 | hv226 = 7) cookcoal = 1.
VARIABLE LABELS cookcoal "if uses charcoal or lignite/coal for
cooking".
VALUE LABELS cookcoal 0 "does not use charcoal or coal for
cooking"
                 1 "uses charcoal or lignite/coal (+77) for
cooking".
```

```
COMPUTE cookwood = 0.
IF (hv226 > 7 & hv226 < 12) cookwood = 1.
VARIABLE LABELS cookwood "if uses wood, straw/crop (+2) or dung
(+22) for cooking fuel".
VALUE LABELS cookwood 0 "does not use firewood for cooking"
                       1 "uses firewood for cooking".


COMPUTE cookoth = 0.
IF (hv226 = 95 | hv226 = 96) cookoth = 1.
VARIABLE LABELS cookoth "no food cooked in HH, or some other fuel
for cooking (+6)".
VALUE LABELS cookoth 0 "food is cooked in HH/ no other fuel for
cooking"
                      1 "no food cooked in hh (other fuel +6)".


EXECUTE.



IF (MISSING(hv246b)) hv246b = 0.
IF (MISSING(hv246c)) hv246c = 0.
IF (MISSING(hv246d)) hv246d = 0.
IF (MISSING(hv246f)) hv246f = 0.
IF (MISSING(hv246g)) hv246g = 0.
IF (MISSING(hv246h)) hv246h = 0.


*{Set missing values for land sizes}.
 * missing values qh112a qh112b qh114a qh114b (9999.8, 9999.9).

 * if (qh113=5) qh114a=0.
 * if (qh113=5) qh114b=0.

*set out of range codes to uknown-missing.
 * if (qh114a>999) qh114a=9999.8.
 * if (qh114b>999) qh114b=9999.8.


*{Members per sleeping room}.
if (hv012=0) hv012=hv013.
if (hv216>0) memsleep=trunc(hv012/hv216).
if (hv216=0) memsleep=hv012.
if (memsleep>=98) memsleep=98.

VARIABLE LABELS
 MEMSLEEP "Number of members per sleeping room".
value labels memsleep 0 'Less than 1 per room'.

EXECUTE.


FREQUENCIES
 VARIABLES=h2oires h2oyard h2opub h2otube h2opwell h2upwell
```

```
h2spring h2osurf
h2orain h2otk h2obottl h2oother flushs shflushs flusho shflusho
latrine latbush latother electric
radio tv fridge bicycle motobk car phone sepkitch mphone watch
cart mboat bank wardrobe sewmach
cddvd altnrg motocart boat hectares dirtfloo woodfloo palmfloo
vinfloo cerafloo cemtfloo othfloo grnwall
woodwall metlwall cemtwall brckwall blckwall plnkwall othwall
natroof stufroof ironroof ctfbroof ceraroof
tileroof concroof cookelec cookgas cookcoal cookwood cookoth
memsleep hv246b hv246c hv246d hv246f
hv246g hv246h
  /ORDER=  ANALYSIS .

 * These variables eliminated either because deemed exclusively
rural (animals), or
because they interfered with achieving a positive-definite matrix
during PCA.
 * ANIMALS: hv246b hv246c hv246d hv246f hv246g hv246h
WALL VARS: grnwall woodwall metlwall cemtwall brckwall blckwall
plnkwall othwall
CATCH-ALL VARS: stufroof h2otk h2oother latother
COOK: cookoth
FLOOR: othfloo

**********************************.
FACTOR
  /VARIABLES
electric radio tv fridge bicycle motobk car sepkitch mphone
h2oires h2oyard h2opub h2otube h2opwell h2upwell h2spring h2osurf
h2orain h2obottl
watch cart mboat bank wardrobe sewmach phone cddvd motocart
memsleep
natroof ironroof ctfbroof ceraroof tileroof concroof
shflushs flushs flusho shflusho latrine latbush
hectares boat altnrg
cookelec cookgas cookcoal cookwood
dirtfloo woodfloo palmfloo vinfloo cerafloo cemtfloo
  /MISSING MEANSUB /ANALYSIS
electric radio tv fridge bicycle motobk car sepkitch mphone
h2oires h2oyard h2opub h2otube h2opwell h2upwell h2spring h2osurf
h2orain h2obottl
watch cart mboat bank wardrobe sewmach phone cddvd motocart
memsleep
natroof ironroof ctfbroof ceraroof tileroof concroof
shflushs flushs flusho shflusho latrine latbush
hectares boat altnrg
cookelec cookgas cookcoal cookwood
dirtfloo woodfloo palmfloo vinfloo cerafloo cemtfloo
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
```

```
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION .


COMPUTE hhmemwt = hv005/1000000 * hv012 .
VARIABLE LABELS hhmemwt 'HH members weighting for Index' .

WEIGHT
BY hhmemwt .
FREQUENCIES
VARIABLES=fac1_1  /FORMAT=NOTABLE
/NTILES= 5
/STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN /ORDER  ANALYSIS .

RECODE
fac1_1
(Lowest thru -0.8650121792517689=1)  (-0.8650121792517689 thru
-0.561922830138377=2)  (-0.561922830138377 thru
-0.13203188002534372=3)  (-0.13203188002534372 thru
0.6841331372425742 =4)
(0.6841331372425742 thru Highest=5)  INTO wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .

write outfile='C:\Users\Become the Ocean\Desktop\work\cambodia
\scores.dat' records=1 table
/hhid fac1_1 wlthind5.
execute.


MEANS
  TABLES electric radio tv fridge bicycle motobk car sepkitch
mphone
h2oires h2oyard h2opub h2otube h2opwell h2upwell h2spring h2osurf
h2orain h2obottl
watch cart mboat bank wardrobe sewmach phone cddvd motocart
memsleep
natroof ironroof ctfbroof ceraroof tileroof concroof
shflushs flushs flusho shflusho latrine latbush
hectares boat altnrg
cookelec cookgas cookcoal cookwood
dirtfloo woodfloo palmfloo vinfloo cerafloo cemtfloo  BY wlthind5
  /CELLS MEAN  .

freq wlthind5.

weight off.
freq wlthind5.

COMPUTE wt = hv005/1000000.
WEIGHT by wt.
EXECUTE.
```