```
FREQUENCIES
  VARIABLES=hv201 hv205 hv206 hv207 hv208 hv209 hv210 hv211 hv212
hv213 hv214
  hv214 hv216 hv221 hv225 hv226 hv243a hv243d sh25f sh25h sh25i
sh28d
  /ORDER=  ANALYSIS .

FREQ hv015.

SELECT IF hv015 = 1.
EXECUTE.



*begin recoding into dichotomized variables.

*WATER SOURCE.

COMPUTE h2oires = 0.
IF (hv201 = 11 | hv201 = 71) h2oires = 1.
VARIABLE LABELS h2oires "if water is piped into residence + 11
bottled".
VALUE LABELS h2oires 0 "water not piped into residence"
                1 "water is piped into residence".

COMPUTE h2oyard = 0.
IF (hv201 = 12) h2oyard = 1.
VARIABLE LABELS h2oyard "if water is piped into compound/plot".
VALUE LABELS h2oyard 0 "water is not piped into compound/plot"
                  1 "water is piped into compound/plot".

COMPUTE h2onbor = 0.
IF (hv201 = 13) h2onbor = 1.
VARIABLE LABELS h2onbor "if water is piped into neighbor's
compound/plot".
VALUE LABELS h2onbor 0 "water is not piped into neighbor's
compound/plot"
                  1 "water is piped into neighbor's
compound/plot".

COMPUTE h2oopvtw = 0.
IF (hv201 = 21) h2oopvtw = 1.
VARIABLE LABELS h2oopvtw "if gets water from an open well in yard
or in residence".
VALUE LABELS h2oopvtw 0 "does not get water from an open private
well"
                   1 "gets water from an open private well".

COMPUTE h2oopubw = 0.
IF (hv201 = 22) h2oopubw = 1.
VARIABLE LABELS h2oopubw "if gets water from a public open well".
VALUE LABELS h2oopubw 0 "does not get water from a public open
```

```
well"
                    1 "gets water from a public open well".

COMPUTE h2oppvtw = 0.
IF (hv201 = 31) h2oppvtw = 1.
VARIABLE LABELS h2oppvtw "if gets water from a protected well in
yard or in residence".
VALUE LABELS h2oppvtw 0 "does not get water from a protected
private well"
                  1 "gets water from a protected private well".

COMPUTE h2oppubw = 0.
IF (hv201 = 32) h2oppubw = 1.
VARIABLE LABELS h2oppubw "if gets water from a protected public
well".
VALUE LABELS h2oppubw 0 "does not get water from a protected
public well"
                    1 "gets water from a protected pub well".

COMPUTE h2psprng = 0.
IF (hv201 = 41) h2psprng = 1.
VARIABLE LABELS h2psprng "if gets water from a protected spring".
VALUE LABELS h2psprng 0 "does not get water from a protected
spring"
                    1 "gets water from a protected spring".

COMPUTE h2spring = 0.
IF (hv201 = 42) h2spring = 1.
VARIABLE LABELS h2spring "if gets water from an unprotected
spring".
VALUE LABELS h2spring 0 "does not get water from an unprotected
spring"
                    1 "gets water from an unprotected spring".

COMPUTE h2osurf = 0.
IF (hv201 = 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 h2otruck = 0.
IF (hv201 = 51 | hv201 = 61) h2otruck = 1.
VARIABLE LABELS h2otruck "if gets water from a tanker truck + 9
cases rain".
VALUE LABELS h2otruck 0 "does not get water from a tanker truck"
                1 "gets water from a tanker truck".

COMPUTE h2oother = 0.
IF (hv201 = 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 flush = 0.
IF (hv205 = 11 & hv225 = 0) flush = 1.
VARIABLE LABELS flush "if has own flush toilet".
VALUE LABELS flush 0 "does not have own flush toilet"
                     1 "has own flush toilet".

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

COMPUTE latpit = 0.
IF (hv205 = 21 & hv225 = 0) latpit = 1.
VARIABLE LABELS latpit "if uses own pit latrine".
VALUE LABELS latpit 0 "does not use own pit latrine"
                     1 "uses own pit latrine".

COMPUTE shlatpit = 0.
IF (hv205 = 21 & hv225 = 1) shlatpit = 1.
VARIABLE LABELS shlatpit "if uses a shared pit latrine".
VALUE LABELS shlatpit 0 "does not use a shared pit latrine"
                   1 "uses a shared pit latrine".

COMPUTE latvip = 0.
IF (hv205 = 22 & hv225 = 0) latvip = 1.
VARIABLE LABELS latvip "if uses own vip latrine".
VALUE LABELS latvip 0 "does not use own vip latrine"
                     1 "uses own vip latrine".

COMPUTE shlatvip = 0.
IF (hv205 = 22 & hv225 = 1) shlatvip = 1.
VARIABLE LABELS shlatvip "if uses a shared vip latrine".
VALUE LABELS shlatvip 0 "does not use a shared vip latrine"
                   1 "uses a shared vip latrine".

COMPUTE latbush = 0.
IF (hv205 = 31 | hv205 = 96) latbush = 1.
VARIABLE LABELS latbush "if uses the bush".
VALUE LABELS latbush 0 "does not use the bush"
                   1 "uses the bush".



*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 cell = 0.
IF (hv243a = 1) cell = 1.
VARIABLE LABELS cell "if household has cell phone".
VALUE LABELS cell 0 "no cell phone"
                     1 "has cell phone".
```

```
COMPUTE boatm = 0.
IF (hv243d = 1) boatm = 1.
VARIABLE LABELS boatm "if has boat with motor".
VALUE LABELS boatm 0 "no boat with motor"
                   1 "has boat with motor".

COMPUTE boatnm = 0.
IF (sh28d = 1) boatnm = 1.
VARIABLE LABELS boatnm "if has boat w/o motor".
VALUE LABELS boatnm 0 "no boat w/o motor"
                   1 "has boat w/o motor".


COMPUTE pewter = 0.
IF (sh25f = 1) pewter = 1.
VARIABLE LABELS pewter "if has computer".
VALUE LABELS pewter   0 "no computer"
                      1 "has computer".




IF (MISSING(hv216)) hv216 = 0.
EXECUTE.

COMPUTE memsleep = (hv012/hv216).
VARIABLE LABELS memsleep "number of members per sleeping room".
EXECUTE.


*FLOOR TYPE.

COMPUTE dirtfloo = 0.
IF (hv213 = 11) dirtfloo = 1.
VARIABLE LABELS dirtfloo "if floor is earth/mud/dung/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".

COMPUTE vinfloo = 0.
IF (hv213 = 32) vinfloo = 1.
VARIABLE LABELS vinfloo "if has linoleum flooring".
VALUE LABELS vinfloo 0 "does not have vinyl/asphalt strip
flooring"
                1 "has vinyl/asphalt strip flooring".
```

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

COMPUTE cemtfloo = 0.
IF (hv213 = 34) cemtfloo = 1.
VARIABLE LABELS cemtfloo "if floor is of cement".
VALUE LABELS cemtfloo 0 "floor is not cement"
                  1 "floor is cement".

COMPUTE carpfloo = 0.
IF ( hv213 = 35) carpfloo = 1.
VARIABLE LABELS carpfloo "if has carpeted flooring".
VALUE LABELS carpfloo 0 "does not have carpeted flooring"
                 1 "has carpeted flooring".

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



*TYPE OF WALL MATERIALS

COMPUTE natwall = 0.
IF (hv214 = 11) natwall = 1.
VARIABLE LABELS natwall "if has beaten dirt walling".
VALUE LABELS natwall 0 "no beaten dirt walling"
                1 "has beaten dirt walling".

COMPUTE woodwall = 0.
IF (hv214 = 21) woodwall = 1.
VARIABLE LABELS woodwall "if has wall made wood".
VALUE LABELS woodwall 0 "does not have wall made of wood"
                1 "has wall made of wood".

COMPUTE adbewall = 0.
IF (hv214 = 22) adbewall = 1.
VARIABLE LABELS adbewall "if wall made of uncooked brick".
VALUE LABELS adbewall 0 "wall not made of uncooked brick"
                  1 "wall made of uncooked brick".

COMPUTE tolewall = 0.
IF (hv214 = 23) tolewall = 1.
VARIABLE LABELS tolewall "if wall made of tole".
VALUE LABELS tolewall 0 "wall not made of tole"
                   1 "wall made of tole".
```

```
COMPUTE brckwall = 0.
IF (hv214 = 31) brckwall = 1.
VARIABLE LABELS brckwall "if wall is made of brick".
VALUE LABELS brckwall 0 "wall is not made of brick"
                    1 "wall is made of brick".

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

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



*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) cookgas = 1.
VARIABLE LABELS cookgas "if uses LPG, natural gas cooking".
VALUE LABELS cookgas 0 "does not use gas for cooking"
                    1 "uses gas for cooking".

COMPUTE cookkero = 0.
IF (hv226 = 4) cookkero = 1.
VARIABLE LABELS cookkero "if uses kerosene for cooking".
VALUE LABELS cookkero 0 "does not use kerosene for cooking"
                    1 "uses kerosene for cooking".

COMPUTE cookcoal = 0.
IF (hv226 = 6) cookcoal = 1.
VARIABLE LABELS cookcoal "if uses charcoal for cooking".
VALUE LABELS cookcoal 0 "does not use charcoal for cooking"
                    1 "uses charcoal or for cooking".

COMPUTE cookwood = 0.
IF (hv226 = 7) cookwood = 1.
VARIABLE LABELS cookwood "if uses wood, straw for cooking fuel".
VALUE LABELS cookwood 0 "does not use firewood for cooking"
                      1 "uses firewood for cooking".
```

```
COMPUTE cookdung = 0.
IF (hv226 = 8) cookdung = 1.
VARIABLE LABELS cookdung "if uses dung for cooking fuel".
VALUE LABELS cookdung 0 "does not use dung for cooking"
                      1 "uses dung for cooking".

COMPUTE cookoth = 0.
IF (hv226 = 96) cookoth = 1.
VARIABLE LABELS cookoth "if uses some other fuel for cooking".
VALUE LABELS cookoth 0 "does not use some other fuel for cooking"
                   1 "uses some other kind of fuel for cooking".



EXECUTE.


FACTOR
  /VARIABLES memsleep h2oires h2oyard h2onbor h2oopvtw h2oopubw
h2oppvtw
  h2oppubw h2psprng h2osurf h2otruck h2oother flush shflush
latpit
  shlatpit latvip shlatvip latbush electric radio tv fridge
bicycle motobk car
  phone cell boatm boatnm pewter dirtfloo woodfloo vinfloo
cerafloo cemtfloo carpfloo
  othfloo natwall woodwall adbewall tolewall brckwall cemtwall
othwall
  cookelec cookgas cookkero cookcoal cookwood cookdung cookoth
/MISSING
  MEANSUB /ANALYSIS memsleep h2oires h2oyard h2onbor h2oopvtw
h2oopubw
  h2oppvtw h2oppubw h2psprng h2osurf h2otruck h2oother flush
shflush
  latpit shlatpit latvip shlatvip latbush electric radio tv
fridge bicycle
  motobk car phone cell boatm boatnm pewter dirtfloo woodfloo
vinfloo cerafloo
  cemtfloo carpfloo othfloo natwall woodwall adbewall tolewall
brckwall
  cemtwall othwall cookelec cookgas cookkero cookcoal cookwood
cookdung
  cookoth
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION .
```

```
* Removed variable named "h2spring" in order to make PCA matrix
positive definite.


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 -1.112335658209=1)  (-1.112335658209 thru
-0.6286805656405=2)  (-0.6286805656405 thru
0.1825091471357=3)  (0.1825091471357 thru 0.9680571604703=4)
(0.9680571604703 thru Highest=5)  INTO wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .

write outfile='C:\Documents and Settings\Kiersten.B.Johnson
\Desktop\congo wi\scores.dat' records=1 table
/hhid fac1_1 wlthind5.
execute.


MEANS
  TABLES=memsleep h2oires h2oyard h2onbor h2oopvtw h2oopubw
h2oppvtw
  h2oppubw h2psprng h2osurf h2otruck h2oother flush shflush
latpit
  shlatpit latvip shlatvip latbush electric radio tv fridge
bicycle motobk car
  phone cell boatm boatnm pewter dirtfloo woodfloo vinfloo
cerafloo cemtfloo carpfloo
  othfloo natwall woodwall adbewall tolewall brckwall cemtwall
othwall
  cookelec cookgas cookkero cookcoal cookwood cookdung cookoth
BY wlthind5
  /CELLS MEAN  .

freq wlthind5.

weight off.
freq wlthind5.

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

```
freq wlthind5.
```