```
* southafrica.

FREQ hv015.

SELECT IF hv015 = 1.
EXECUTE.

FREQ hv201 hv205 hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv213
hv214
hv221 hv225 hv226 sh32c sh32f sh36 sh41d sh41e.

COMPUTE computer = 0.
IF (sh32c = 1) computer = 1.
VAR LABELS computer "if has computer".
VAL LABELS computer   0 "no computer"
                1 "has computer".

COMPUTE cellphon = 0.
IF (sh32f = 1) cellphon = 1.
VAR LABELS cellphon "if has cell phone".
VAL LABELS cellphon   0 "no cell phone"
                1 "has cell phone".

COMPUTE equine = 0.
IF (sh41d = 1) equine = 1.
VAR LABELS equine "if has donkey/horse".
VAL LABELS equine     0 "no donkey/horse"
                1 "has donkey/horse".

COMPUTE sheepcow = 0.
IF (sh41e = 1) sheepcow = 1.
VAR LABELS sheepcow "if has sheep/cow".
VAL LABELS sheepcow   0 "no sheep/cow"
                1 "has sheep/cow".


EXECUTE.
FREQ computer cellphon equine sheepcow.


FREQ hv201 hv205 hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv213
hv214
hv221 hv225 hv226 computer cellphon equine sheepcow.



* WATER.

COMPUTE h2opipe = 0.
IF (hv201 = 11 | hv201 = 71 | hv201 = 96) h2opipe = 1.
VAR LABELS h2opipe "if gets water piped into home (+17 bottle
water +7 other)".
```

```
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 h2oopnw = 0.
IF (hv201 = 21) h2oopnw = 1.
VAR LABELS h2oopnw "if gets water from an open well in dwelling".
VAL LABELS h2oopnw    0 "no water from an open well in dwelling"
                      1 "water is from an open well in dwelling".

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

COMPUTE h2spring = 0.
IF (hv201 = 41) h2spring = 1.
VAR LABELS h2spring "if gets water from a protected spring".
VAL LABELS h2spring   0 "no water from a protected spring"
                      1 "water is from a protected spring".

COMPUTE h2osurf = 0.
IF (hv201 > 41 & hv201 < 46) 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 h2oraint = 0.
IF (hv201 = 51) h2oraint = 1.
VAR LABELS h2oraint "if gets water from rain collected in tank".
VAL LABELS h2oraint   0 "no water from rain collected in tank"
                      1 "water is from rain collected in tank".

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".
```

```
EXECUTE.

*TOILET.

COMPUTE flpvtsw = 0.
IF (hv205 = 11 & hv225 = 0) flpvtsw = 1.
VAR LABELS flpvtsw "if uses pvt flush to sewer toilet".
VAL LABELS flpvtsw    0 "does not use pvt flush to sewer toilet"
                  1 "uses pvt flush to sewer toilet".


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


COMPUTE flpvtsp = 0.
IF (hv205 = 12 & hv225 = 0) flpvtsp = 1.
VAR LABELS flpvtsp "if uses pvt flush to septic toilet".
VAL LABELS flpvtsp    0 "does not use pvt flush to septic toilet"
                  1 "uses pvt flush to septic toilet".


COMPUTE flshrsp = 0.
IF (hv205 = 12 & hv225 = 1) flshrsp = 1.
VAR LABELS flshrsp "if uses shared flush to septic toilet".
VAL LABELS flshrsp    0 "does not use shared flush to septic
toilet"
                  1 "uses shared flush to septic toilet".


COMPUTE latpvt = 0.
IF (hv205 = 21 & hv225 = 0) latpvt = 1.
VAR LABELS latpvt "if uses pvt trad latrine".
VAL LABELS latpvt     0 "does not use pvt trad latrine"
                  1 "uses pvt trad latrine".


COMPUTE latshr = 0.
IF (hv205 = 21 & hv225 = 1) latshr = 1.
VAR LABELS latshr "if uses shared trad latrine".
VAL LABELS latshr     0 "does not use shared trad latrine"
                  1 "uses shared trad latrine".


COMPUTE vippvt = 0.
IF (hv205 = 22 & hv225 = 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 = 22 & hv225 = 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 latbush = 0.
IF (hv205 = 31 | hv205 = 96) 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".




* FLOORING.

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 parqfloo = 0.
IF (hv213 = 31) parqfloo = 1.
VAR LABELS parqfloo "if floors are made of parquet".
VAL LABELS parqfloo   0 "floors are not made of parquet"
                      1 "floors are made of parquet".


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 | hv213 = 96) cemtfloo = 1.
VAR LABELS cemtfloo "if floors are made of cement (+2 other)".
VAL LABELS cemtfloo   0 "floors are not made of cement"
                      1 "floors are made of cement".


COMPUTE carpfloo = 0.
IF (hv213 = 35) carpfloo = 1.
```

```
VAR LABELS carpfloo "if floors are made of carpet".
VAL LABELS carpfloo   0 "floors are not made of carpet"
                1 "floors are made of carpet".




* WALLS.

COMPUTE junkw = 0.
IF (hv214 = 11) junkw = 1.
VAR LABELS junkw "if walls are made of plastic/cardboard".
VAL LABELS junkw 0 "walls are not made of plastic/cardboard"
                1 "walls are made of plastic/cardboard".


COMPUTE earthw = 0.
IF (hv214 = 12) earthw = 1.
VAR LABELS earthw "if walls are made of mud".
VAL LABELS earthw     0 "walls are not made of mud"
                1 "walls are made of mud".


COMPUTE cemtmudw = 0.
IF (hv214 = 13) cemtmudw = 1.
VAR LABELS cemtmudw "if walls are made of cemt/mud".
VAL LABELS cemtmudw   0 "walls are not made of cemt/mud"
                      1 "walls are made of cemt/mud".


COMPUTE metalw = 0.
IF (hv214 = 21) metalw = 1.
VAR LABELS metalw "if walls are made of corrugated iron/zinc".
VAL LABELS metalw     0 "walls are not made of corrugated
iron/zinc"
                1 "walls are made of corrugated iron/zinc".


COMPUTE prefabw = 0.
IF (hv214 = 22) prefabw = 1.
VAR LABELS prefabw "if walls are prefab".
VAL LABELS prefabw    0 "walls are not prefab"
                1 "walls are prefab".


COMPUTE cmtblkw = 0.
IF (hv214 = 23) cmtblkw = 1.
VAR LABELS cmtblkw "if walls are made of cement blocks".
VAL LABELS cmtblkw    0 "walls are not made of cement blocks"
                1 "walls are made of cement blocks".


COMPUTE plasterw = 0.
IF (hv214 = 31) plasterw = 1.
VAR LABELS plasterw "if walls are made of plaster/finished".
VAL LABELS plasterw   0 "walls are not made of plaster"
                1 "walls are made of plaster".
```

```
COMPUTE otherw = 0.
IF (hv214 = 96) otherw = 1.
VAR LABELS otherw "if walls are made of other materials".
VAL LABELS otherw     0 "walls are not made of other materials"
                1 "walls are made of other materials".




* COOKING FUEL.

COMPUTE cookelec = 0.
IF (hv226 = 1) cookelec = 1.
VAR LABELS cookelec "if uses electricity for cooking fuel".
VAL LABELS cookelec   0 "no elec cooking fuel"
                1 "uses elec cooking fuel".

COMPUTE cookgas = 0.
IF (hv226 = 3 | hv226 = 2) cookgas = 1.
VAR LABELS cookgas "if uses gas for cooking fuel".
VAL LABELS cookgas     0 "no gas cooking fuel"
                1 "uses gas cooking fuel".

COMPUTE cookkero = 0.
IF (hv226 = 4) cookkero = 1.
VAR LABELS cookkero "if uses kero for cooking".
VAL LABELS cookkero   0 "no kero cooking fuel"
                1 "uses kero cooking fuel".

COMPUTE cookbiom = 0.
IF (hv226 = 6 | hv226 = 7 | hv226 = 8) cookbiom = 1.
VAR LABELS cookbiom "if uses biomass for cooking fuel".
VAL LABELS cookbiom   0 "no biomass cooking fuel"
                1 "uses biomass cooking fuel".

COMPUTE cookoth = 0.
IF (hv226 = 96) cookoth = 1.
VAR LABELS cookoth "if no food cooked in hh".
VAL LABELS cookoth     0 "food cooked"
                1 "no food cooked".



COMPUTE memsleep = (hv012/sh36).
IF (MISSING(sh36)) sh36 = hv012.
VARIABLE LABELS memsleep "number of members per sleeping room".


EXECUTE.

*replace missing w don't have:.
IF (MISSING(hv206)) hv206 = 0.
IF (MISSING(hv207)) hv207 = 0.
```

```
IF (MISSING(hv208)) hv208 = 0.
IF (MISSING(hv209)) hv209 = 0.
IF (MISSING(hv210)) hv210 = 0.
IF (MISSING(hv211)) hv211 = 0.
IF (MISSING(hv212)) hv212 = 0.
IF (MISSING(hv221)) hv221 = 0.

EXECUTE.



FREQ hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221 computer
cellphon equine sheepcow h2opipe h2oyard h2opub h2oopnw h2ppvwel
h2spring h2osurf h2oraint h2otruck flpvtsw flshrsw flpvtsp
flshrsp latpvt
latshr vippvt vipshr latbush dirtfloo woodfloo parqfloo vinfloo
tilefloo cemtfloo
carpfloo junkw earthw cemtmudw metalw prefabw cmtblkw plasterw
otherw
cookelec cookgas cookkero cookbiom cookoth memsleep.



FACTOR
  /VARIABLES hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221
computer
cellphon equine sheepcow h2opipe h2oyard h2opub h2oopnw h2ppvwel
h2spring h2osurf h2oraint h2otruck flpvtsw flshrsw flpvtsp
flshrsp latpvt
latshr vippvt vipshr latbush dirtfloo woodfloo parqfloo vinfloo
tilefloo cemtfloo
carpfloo junkw earthw cemtmudw metalw prefabw cmtblkw plasterw
otherw
cookelec cookgas cookkero cookbiom cookoth memsleep
  /MISSING MEANSUB /ANALYSIS hv206 hv207 hv208 hv209 hv210 hv211
hv212 hv221 computer
cellphon equine sheepcow h2opipe h2oyard h2opub h2oopnw h2ppvwel
h2spring h2osurf h2oraint h2otruck flpvtsw flshrsw flpvtsp
flshrsp latpvt
latshr vippvt vipshr latbush dirtfloo woodfloo parqfloo vinfloo
tilefloo cemtfloo
carpfloo junkw earthw cemtmudw metalw prefabw cmtblkw plasterw
otherw
cookelec cookgas cookkero cookbiom cookoth memsleep
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION .
```

```
save outfile="C:\Documents and Settings\Kiersten.B.Johnson
\Desktop\safrica\saassets.sav".
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 -0.9468250551868=1)  (-0.9468250551868 thru
-0.1473658021131=2)  (-0.1473658021131 thru
0.3982331677665=3)  (0.3982331677665 thru 0.9124283623832=4)
(0.9124283623832 thru Highest=5)  INTO
wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .

write outfile="C:\Documents and Settings\Kiersten.B.Johnson
\Desktop\safrica\sascores.dat" records=1 table
/hhid fac1_1 wlthind5.
execute.

MEANS
  TABLES=hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221 computer
cellphon equine sheepcow h2opipe h2oyard h2opub h2oopnw h2ppvwel
h2spring h2osurf h2oraint h2otruck flpvtsw flshrsw flpvtsp
flshrsp latpvt
latshr vippvt vipshr latbush dirtfloo woodfloo parqfloo vinfloo
tilefloo cemtfloo
carpfloo junkw earthw cemtmudw metalw prefabw cmtblkw plasterw
otherw
cookelec cookgas cookkero cookbiom cookoth memsleep
BY
 wlthind5
  /CELLS MEAN  .

FREQ  wlthind5.
```