

* swaziland.

FREQ hv015.

SELECT IF hv015 = 1.
EXECUTE.

FREQ hv201 hv205 hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv213
hv214 hv215 hv216 hv221 hv225 hv226 hv239 hv241 hv242 hv243a
hv243b
hv243c hv244 hv246a hv246b hv246c hv246d hv246e hv246f
hv247 sh111g sh119b sh119c sh119d sh121e sh123.

* WATER.

COMPUTE h2opipe = 0.
IF (hv201 = 11 | hv201 = 71) h2opipe = 1.
VAR LABELS h2opipe "if gets water piped into home (+4 bottle
water)".
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 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 h2usprng = 0.
IF (hv201 = 42) h2usprng = 1.
VAR LABELS h2usprng "if gets water from an unprotected spring".
VAL LABELS h2usprng  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 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 h2ooth = 0.
IF (hv201 = 96 | hv201 = 61) h2ooth = 1.
VAR LABELS h2ooth "if gets water from other, truck".
VAL LABELS h2ooth  0 "no water from other, truck"
                   1 "water is from other, truck".

*TOILET.

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

COMPUTE flshr = 0.
IF (hv205 = 11 & hv225 = 1) flshr = 1.
VAR LABELS flshr "if uses shared flush toilet".
VAL LABELS flshr 0 "does not use shared flush toilet"
                   1 "uses shared flush 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 dungfloo = 0.  
IF (hv213 = 12) dungfloo = 1.  
VAR LABELS dungfloo "if floors are made of dung".  
VAL LABELS dungfloo      0 "floors are not made of dung"  
                    1 "floors are made of dung".
```

```
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 = 31 | hv213 = 33) tilefloo = 1.
```

```
VAR LABELS tilefloo "if floors are made of ceramic/wood tile".
VAL LABELS tilefloo 0 "floors are not made of ceramic/wood
tile"
```

```
1 "floors are made of ceramic/wood tile".
```

```
COMPUTE centfloo = 0.
```

```
IF (hv213 = 34 | hv213 = 21) centfloo = 1.
```

```
VAR LABELS centfloo "if floors are made of cement (+9 wood
planks)".
```

```
VAL LABELS centfloo 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 earthw = 0.
```

```
IF (hv214 = 12 | hv214 = 13) earthw = 1.
```

```
VAR LABELS earthw "if walls are made of earth (+11 cases
cane/palm/trunks)".
```

```
VAL LABELS earthw 0 "walls are not made of earth"
```

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

```
COMPUTE bboomudw = 0.
```

```
IF (hv214 = 21) bboomudw = 1.
```

```
VAR LABELS bboomudw "if walls are made of bboo/mud".
```

```
VAL LABELS bboomudw 0 "walls are not made of bboo/mud"
```

```
1 "walls are made of bboo/mud".
```

```
COMPUTE stonmudw = 0.
```

```
IF (hv214 = 22) stonmudw = 1.
```

```
VAR LABELS stonmudw "if walls are made of stone/mud".
```

```
VAL LABELS stonmudw 0 "walls are not made of stone/mud"
```

```
1 "walls are made of stone/mud".
```

```
COMPUTE centw = 0.
```

```
IF (hv214 = 31) centw = 1.
```

```
VAR LABELS centw "if walls are made of cement".
```

```
VAL LABELS centw 0 "walls are not made of cement"
```

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

```
COMPUTE stncentw = 0.
```

```
IF (hv214 = 32) stncentw = 1.
```

```
VAR LABELS stncentw "if walls are made of stone w/ lime/cement".
```

```
VAL LABELS stncentw 0 "walls are not made of stone w/
lime/cement"
```

```

        1 "walls are made of stone w/ 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) 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 mudblkw = 0.
IF (hv214 = 35) mudblkw = 1.
VAR LABELS mudblkw "if walls are made of mud blocks".
VAL LABELS mudblkw 0 "walls are not made of mud blocks"
        1 "walls are made of mud blocks".

COMPUTE etcw = 0.
IF (hv214 = 36 | hv214 = 24 | hv214 = 25 | hv214 = 26 | hv214 =
96) etcw = 1.
VAR LABELS etcw "if walls are made of various recycled
materials".
VAL LABELS etcw 0 "walls are not made of various recycled
materials"
        1 "walls are made of various recycled materials".

* ROOF.

COMPUTE strawr = 0.
IF (hv215 = 12 | hv215 = 23) strawr = 1.
VAR LABELS strawr "if roof is made of grass (+2 wood planks)".
VAL LABELS strawr 0 "roof is not made of grass"
        1 "roof is made of grass".

COMPUTE metalr = 0.
IF (hv215 = 31 | hv215 = 96) metalr = 1.
VAR LABELS metalr "if roof is made of metal (corrugate iron)".
VAL LABELS metalr 0 "roof is not made of metal"
        1 "roof is made of metal".

COMPUTE asbestor = 0.
IF (hv215 = 32) asbestor = 1.
VAR LABELS asbestor "if roof is made of asbestos".
VAL LABELS asbestor 0 "roof is not made of asbestos"
        1 "roof is made of asbestos".

COMPUTE tiler = 0.

```

```
IF (hv215 = 33 | hv215 = 34 | hv215 = 35) tiler = 1.
VAR LABELS tiler "if roof is made of tile".
VAL LABELS tiler 0 "roof is not made of tile"
                1 "roof are made of tile".
```

* 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 cookng = 0.
IF (hv226 = 3) cookng = 1.
VAR LABELS cookng "if uses natural gas for cooking fuel".
VAL LABELS cookng 0 "no nat gas cooking fuel"
                1 "uses nat gas cooking fuel".
```

```
COMPUTE cookchar = 0.
IF (hv226 = 6 | hv226 = 7) cookchar = 1.
VAR LABELS cookchar "if uses coal/charcoal for cooking fuel".
VAL LABELS cookchar 0 "no coal/charcoal cooking fuel"
                1 "uses coal/charcoal cooking fuel".
```

```
COMPUTE cookwood = 0.
IF (hv226 = 8) cookwood = 1.
VAR LABELS cookwood "if uses wood for cooking fuel".
VAL LABELS cookwood 0 "no wood cooking fuel"
                1 "uses wood cooking fuel".
```

```
COMPUTE cookkero = 0.
IF (hv226 = 12) cookkero = 1.
VAR LABELS cookkero "if uses paraffin for cooking".
VAL LABELS cookkero 0 "no paraffin cooking fuel"
                1 "uses paraffin cooking fuel".
```

```
COMPUTE cookoth = 0.
IF (hv226 = 95) cookoth = 1.
VAR LABELS cookoth "if no food cooked in hh".
VAL LABELS cookoth 0 "food cooked"
                1 "no food cooked".
```

* If kitchen is separate room.

```
COMPUTE kitchen = 0.
IF (hv242 = 1) kitchen = 1.
VAR LABELS kitchen "if has separate room for kitchen in hh".
VAL LABELS kitchen 0 "no separate kitchen"
                1 "has separate room for kitchen".
```

```
COMPUTE memsleep = (hv012/hv216).
IF (MISSING(hv216)) hv216 = 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.
IF (MISSING(hv243a)) hv243a = 0.
IF (MISSING(hv243b)) hv243b = 0.
IF (MISSING(hv243c)) hv243c = 0.
```

```
IF (MISSING(hv246a)) hv246a = 0.
IF (MISSING(hv246b)) hv246b = 0.
IF (MISSING(hv246c)) hv246c = 0.
IF (MISSING(hv246d)) hv246d = 0.
IF (MISSING(hv246e)) hv246e = 0.
IF (MISSING(hv246f)) hv246f = 0.
```

```
IF (MISSING(hv247)) hv247 = 0.
```

```
IF (MISSING(sh111g)) sh111g = 0.
IF (MISSING(sh121e)) sh121e = 0.
```

```
EXECUTE.
```

```
COMPUTE agland = 0.
COMPUTE agland = sh123.
```

```
EXECUTE.
```

```
FREQ agland.
```

```
IF (MISSING(agland)) agland = 0.
```

```
IF (agland = 9998) agland = 1000.
```

```
* I assigned DKs to the median value.
```

```
FREQ hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221 hv243a
hv243b hv243c
hv246a hv246b hv246c hv246d hv246e hv246f hv247 sh111g sh121e
agland h2opipe
h2oyard h2opub h2otube h2ppvwel h2pydwel h2spring h2usprng
```

h2osurf h2oraint h2ooth
flpvt flshr latpvt latshr vipvvt vipshr latbush dirtfloo dungfloo
vinfloo tilefloo cemtfloo carpfloo
earthw bboomudw stonmudw centw stncemt看 brickw cmtblkw mudblkw
etcw strawr metalr
asbestor tiler cookelec cookng cookchar cookwood cookkero cookoth
kitchen memsleep.

* unprotected spring water source omitted because it caused the
matrix to be not positive-definite.

FACTOR

```
  /VARIABLES hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221  
hv243a hv243b hv243c  
hv246a hv246b hv246c hv246d hv246e hv246f hv247 sh121e h2opipe  
h2oyard h2opub h2otube h2ppvwel h2pydwel h2spring h2osurf  
h2oraint h2ooth  
flpvt flshr latpvt latshr vipvvt vipshr latbush dirtfloo dungfloo  
vinfloo tilefloo cemtfloo carpfloo  
earthw bboomudw stonmudw centw stncemt看 brickw cmtblkw mudblkw  
etcw strawr metalr  
asbestor tiler cookelec cookng cookchar cookwood cookkero kitchen  
memsleep agland cookoth sh111g  
  /MISSING MEANSUB /ANALYSIS hv206 hv207 hv208 hv209 hv210 hv211  
hv212 hv221 hv243a hv243b hv243c  
hv246a hv246b hv246c hv246d hv246e hv246f hv247 sh121e h2opipe  
h2oyard h2opub h2otube h2ppvwel h2pydwel h2spring h2osurf  
h2oraint h2ooth  
flpvt flshr latpvt latshr vipvvt vipshr latbush dirtfloo dungfloo  
vinfloo tilefloo cemtfloo carpfloo  
earthw bboomudw stonmudw centw stncemt看 brickw cmtblkw mudblkw  
etcw strawr metalr  
asbestor tiler cookelec cookng cookchar cookwood cookkero kitchen  
memsleep agland cookoth sh111g  
  /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\SZWINDEX\szassets.sav".  
COMPUTE hhmemwt = hv005/1000000 * hv012 .  
VARIABLE LABELS hhmemwt 'HH members weighting for Index' .
```

WEIGHT

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

```
RECODE
fac1_1
(Lowest thru -1.034396077141=1) (-1.034396077141 thru
-0.6304010742306=2) (-0.6304010742306 thru
-0.2079473374552=3) (-0.2079473374552 thru 0.5833747054673=4)
(0.5833747054673 thru Highest=5) INTO
wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .
```

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

```
MEANS
TABLES=hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221 hv243a
hv243b hv243c
hv246a hv246b hv246c hv246d hv246e hv246f hv247 sh121e h2opipe
h2oyard h2opub h2otube h2ppvwel h2pydwel h2spring h2osurf
h2oraint h2ooth
flpvt flshr latpvt latshr vipvvt vipshr latbush dirtfloo dungfloo
vinfloo tilefloo centfloo carpfloo
earthw bboomudw stonmudw centw stncemt看 brickw cmtblkw mudblkw
etcw strawr metalr
asbestor tiler cookelec cookng cookchar cookwood cookkero kitchen
memsleep agland cookoth sh111g
BY
wlthind5
/CELLS MEAN .
```

```
FREQ wlthind5.
```