```
* Sao Tome y Principe Wealth Index.

FREQ hv015.
SELECT IF hv015 = 1.
FREQ hv015.


FREQ HV201 HV205 HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV213
HV216 HV217 HV221 HV225 HV226 HV243A HV243B HV243D HV244 HV245
HV246 HV246A HV246B HV246C HV246D HV246E HV246F SH105A SH110A
SH111E SH111F SH111G
SH111H SH119A SH121F SH121G.

*---------------------.

*begin recoding into dichotomized variables.

*WATER SOURCE.

COMPUTE h2oires = 0.
IF (hv201 = 11) h2oires = 1.
VARIABLE LABELS h2oires "if water is piped into residence".
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 h2opub = 0.
IF (hv201 = 13) h2opub = 1.
VARIABLE LABELS h2opub "if gets water from a public tap or
standpipe".
VALUE LABELS h2opub 0 "does not get water from a public tap"
                1 "gets water from a public tap".

FREQ hv201.
COMPUTE h2owell = 0.
IF (hv201 = 21 | hv201 = 31 | hv201 = 32 | hv201 = 51 | hv201 =
71) h2owell = 1.
VARIABLE LABELS h2owell "if gets water from tubewell or borehole
+4 other".
VALUE LABELS h2owell  0 "does not get water from tubewell or
borehole"
                    1 "gets water from tubewell or borehole".
FREQ h2owell.

COMPUTE h2spring = 0.
IF (hv201 = 41) h2spring = 1.
VARIABLE LABELS h2spring "if gets water from a spring".
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1

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VALUE LABELS h2spring 0 "does not get water from a spring"
                     1 "gets water from a 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".




*TOILET TYPES.
* I did not incl whether shared toilet fac bc only 7% used shared
fac.

COMPUTE flushs = 0.
IF (hv205 = 11) flushs = 1.
VARIABLE LABELS flushs "if has flush toilet to sewer".
VALUE LABELS flushs 0 "does not have flush toilet to sewer"
                   1 "has flush toilet to sewer".


COMPUTE flushspt = 0.
IF (hv205 = 12) flushspt = 1.
VARIABLE LABELS flushspt "if has flush toilet to septic".
VALUE LABELS flushspt 0 "does not have flush toilet to septic"
                         1 "has flush toilet to septic".


COMPUTE flusho = 0.
IF (hv205 = 13) flusho = 1.
VARIABLE LABELS flusho "if has flush toilet to pit latrine".
VALUE LABELS flusho 0 "does not have flush toilet to pit latrine"
                   1 "has flush toilet to pit latrine".


COMPUTE latvip = 0.
IF (hv205 = 21) latvip = 1.
VARIABLE LABELS latvip "if uses pit latrine (VIP)".
VALUE LABELS latvip 0 "does not use pit latrine"
                   1 "uses pit latrine".


COMPUTE latbush = 0.
IF (hv205 = 31 | hv205 = 96) latbush = 1.
VARIABLE LABELS latbush "if uses the bush +18other".
VALUE LABELS latbush 0 "does not use the bush"
                   1 "uses the bush".




*AMENITIES.

COMPUTE electric = 0.
IF (hv206 = 1) electric = 1.
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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 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 mobile watch"
                    1 "house has watch".
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COMPUTE dvd = 0.
IF (sh111e = 1) dvd = 1.
VARIABLE LABELS dvd "if household has dvd/video".
VALUE LABELS dvd 0 "no cart"
                 1 "has cart".


COMPUTE antenna = 0.
IF (sh111f = 1) antenna = 1.
VARIABLE LABELS antenna "if household has parabolic antenna".
VALUE LABELS antenna  0 "no cart"
                      1 "has cart".


COMPUTE puter = 0.
IF (sh111g = 1) puter = 1.
VARIABLE LABELS puter "if household has computer".
VALUE LABELS puter 0 "no computer"
                   1 "has computer".


COMPUTE internet = 0.
IF (sh111h = 1) internet = 1.
VARIABLE LABELS internet "if household has internet".
VALUE LABELS internet 0 "no internet"
                      1 "has internet".


COMPUTE wdboat = 0.
IF (sh121g = 1) wdboat = 1.
VARIABLE LABELS wdboat "if household has wooden boat".
VALUE LABELS wdboat 0 "no wooden boat"
                    1 "has wooden boat".



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



*FLOOR TYPE.
freq hv213.
COMPUTE dirtfloo = 0.
IF (hv213 = 11 | hv213 = 22) dirtfloo = 1.
VARIABLE LABELS dirtfloo "if floor is earth/sand".
VALUE LABELS dirtfloo 0 "floor is not earthen"
                      1 "floor is earthen".


COMPUTE stonfloo = 0.
IF (hv213 = 12) stonfloo = 1.
VARIABLE LABELS stonfloo "if floor is stone".
VALUE LABELS stonfloo 0 "floor is not stone"
                      1 "floor is stone".
```

```
COMPUTE plnkfloo = 0.
IF (hv213 = 21 | hv213 = 96) plnkfloo = 1.
VARIABLE LABELS plnkfloo "if floor is wood plank +24 other".
VALUE LABELS plnkfloo 0 "floor is not wood plank"
                1 "floor is wood plank".


COMPUTE cemtfloo = 0.
IF (hv213 = 31 | hv213 = 32) cemtfloo = 1.
VARIABLE LABELS cemtfloo "if floor is of cement".
VALUE LABELS cemtfloo 0 "floor is not cement"
                 1 "floor is cement".



*TYPE OF COOKING FUEL.

COMPUTE cookkero = 0.
IF (hv226 < 6) cookkero = 1.
VARIABLE LABELS cookkero "if uses kero for cooking (+9 elec)".
VALUE LABELS cookkero 0 "does not use kero for cooking"
                      1 "uses kero for cooking".

COMPUTE cookcoal = 0.
IF (hv226 = 7) cookcoal = 1.
VARIABLE LABELS cookcoal "if uses charcoal for cooking".
VALUE LABELS cookcoal 0 "does not use charcoal for cooking"
                  1 "uses charcoal for cooking".

COMPUTE cookwood = 0.
IF (hv226 = 8) cookwood = 1.
VARIABLE LABELS cookwood "if uses straw/shrubs/grass for cooking
fuel".
VALUE LABELS cookwood 0 "does not use straw/shrubs/grass for
cooking"
                      1 "uses straw/shrubs/grass for cooking".


COMPUTE cooknone = 0.
IF (hv226 = 95) cooknone = 1.
VARIABLE LABELS cooknone "if doesn't cook".
VALUE LABELS cooknone 0 "does cook"
                      1 "doesn't cook".



EXECUTE.

* Ag land ownership.
FREQ HV244 HV245.
* not going to include bc too many hhs don't know how much land
```

they own.

```
FREQ h2oires h2oyard h2opub h2owell  h2spring h2osurf flushs
flushspt flusho latvip latbush
electric radio tv fridge bicycle motobk car mphone watch dvd
antenna puter internet wdboat memsleep
cookkero cookcoal cookwood cooknone.


FACTOR
   /VARIABLES electric radio tv fridge bicycle motobk car mphone
watch dvd antenna puter internet memsleep
h2oires h2oyard h2opub h2owell h2spring
flushs flushspt flusho latvip
cookkero cookcoal cooknone wdboat
   /MISSING MEANSUB /ANALYSIS electric radio tv fridge bicycle
motobk car mphone watch dvd antenna puter internet memsleep
h2oires h2oyard h2opub h2owell h2spring
flushs flushspt flusho latvip
cookkero cookcoal cooknone wdboat
   /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
   /CRITERIA FACTORS(1) ITERATE(25)
   /EXTRACTION PC
   /ROTATION NOROTATE
   /SAVE REG(ALL)
   /METHOD=CORRELATION .


FREQ h2osurf latbush cookwood .
CORR h2osurf latbush cookwood.


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 -0.7477908607484=1)  (-0.7477908607484 thru
-0.2554707856563=2)  (-0.2554707856563 thru
0.4626613092363=3)  (0.4626613092363 thru 1.236599701438=4)
(1.236599701438 thru Highest=5)  INTO wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .
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```
write outfile='C:\Users\kiersten.b.johnson\Desktop\projects
\wealth index\saotome\scores.dat' records=1 table
/hhid fac1_1 wlthind5.
execute.


MEANS
  TABLES=h2oires h2oyard h2opub h2owell  h2spring h2osurf flushs
flushspt flusho latvip latbush
electric radio tv fridge bicycle motobk car mphone watch dvd
antenna puter internet wdboat memsleep
cookkero cookcoal cookwood cooknone BY wlthind5
  /CELLS MEAN  .

freq wlthind5.

weight off.
freq wlthind5.

COMPUTE wt = hv005/1000000.
WEIGHT by wt.
EXECUTE.
freq wlthind5.
```