```
DATA LIST FILE='C:\HNP2A\NIGERIA MIS 2010\EXPORT.DAT' RECORDS=1
 /
 QHCLUST     1-3
 QHBUILD     4-6
 QHNUMBER    7-9
 QHWEIGHT    10-17
 QHTYPE      18-18
 HV009       19-20
 HV012       21-22
 HV013       23-24
 QH15        25-26
 QH16        27-28
 QH17A       29-29
 QH17B       30-30
 QH17C       31-31
 QH17D       32-32
 QH17E       33-33
 QH17F       34-34
 QH17G       35-35
 QH17H       36-36
 QH17I       37-37
 QH17J       38-38
 QH17K       39-39
 QH17L       40-40
 QH18        41-42
 QH19        43-44
 QH20        45-46
 QH21        47-48
 QH21A       49-50
 QH21B       51-52
 QH21C       53-54
 QH22A       55-55
 QH22B       56-56
 QH22C       57-57
 QH22D       58-58
 QH22E       59-59
 QH22F       60-60
 QH23        61-61
 QH24        62-62
 QH25        63-63
 QH26        64-68    (A)
 QH27        69-69
 .
 VARIABLE LABELS
   QHCLUST   "Cluster number"
 /QHBUILD   "Building number"
 /QHNUMBER "Household number"
 /QHWEIGHT "Household weight (6 decimals)"
 /QHTYPE    "Type of place of residence"
 /HV009     "HH members"
 /HV012     "Dejure members"
 /HV013     "Defacto members"
```

```
 /QH15      "Source of drinking water"
 /QH16      "Type of toilet facility"
 /QH17A     "Electricity"
 /QH17B     "Radio"
 /QH17C     "Television"
 /QH17D     "Mobile telephone"
 /QH17E     "Telephone (non-mobile)"
 /QH17F     "Refrigerator"
 /QH17G     "Cable TV"
 /QH17H     "Generating set"
 /QH17I     "Air conditioner"
 /QH17J     "Computer"
 /QH17K     "Electric iron"
 /QH17L     "Fan"
 /QH18      "Type of cooking fuel"
 /QH19      "Main material of floor"
 /QH20      "Main roof material"
 /QH21      "Main wall material"
 /QH21A     "Total rooms in household"
 /QH21B     "Number of rooms used for sleeping"
 /QH21C     "Number of sleeping facilities"
 /QH22A     "Canoe"
 /QH22B     "Bicycle"
 /QH22C     "Motorcycle or Scooter"
 /QH22D     "Animal-drawn cart"
 /QH22E     "Car or Truck"
 /QH22F     "Boat with a motor"
 /QH23      "Interior walls sprayed against insecticide in past 12
months"
 /QH24      "Dwelling sprayed by government, private company or
NGO"
 /QH25      "Mosquito nets used while sleeping"
 /QH26      "Why household doesn't have mosquito nets"
 /QH27      "Number of mosquito nets"
 .
MISSING VALUE
  QH15      (99)
 /QH16      (99)
 /QH17A     (9)
 /QH17B     (9)
 /QH17C     (9)
 /QH17D     (9)
 /QH17E     (9)
 /QH17F     (9)
 /QH17G     (9)
 /QH17H     (9)
 /QH17I     (9)
 /QH17J     (9)
 /QH17K     (9)
 /QH17L     (9)
 /QH18      (99)
 /QH19      (99)
```

```
 /QH20      (99)
 /QH21      (99)
 /QH21A     (99)
 /QH21B     (99)
 /QH21C     (99)
 /QH22A     (9)
 /QH22B     (9)
 /QH22C     (9)
 /QH22D     (9)
 /QH22E     (9)
 /QH22F     (9)
 /QH23      (9)
 /QH25      (9)
 /QH27      (9)
.
VALUE LABELS
  QHTYPE
      1 "Urban"
      2 "Rural"
 /QH15
    11 "Piped - into dwelling"
    12 "Piped - into yard/plot"
    13 "Piped - public tap / standpipe"
    21 "Tube well or borehole"
    31 "Dug well - hand pump, protected"
    32 "Dug well - unprotected"
    41 "Spring - protected"
    42 "Spring - unprotected"
    51 "Rainwater"
    61 "Tanker truck"
    71 "Cart with small tank"
    81 "Surface water
(river/dam/lake/pond/stream/canal/irrigation channel"
    91 "Bottled water"
    92 "Water sachets (pure water)"
    96 "Other"
 /QH16
    11 "Flush - to piped sewer system"
    12 "Flush - to septic tank"
    13 "Flush - to pit latrine"
    14 "Flush - to somewhere else"
    15 "Flush - don't know where"
    21 "Pit latrine - ventilated improved pit (VIP)"
    22 "Pit latrine - with slab"
    23 "Pit latrine - without slab / open pit"
    31 "Composting toilet"
    41 "Bucket toilet"
    51 "Hanging toilet / hanging latrine"
    61 "No facility/bush/field"
    96 "Other"
 /QH17A
      1 "Yes"
```

```
    2 "No"
/QH17B
    1 "Yes"
    2 "No"
/QH17C
    1 "Yes"
    2 "No"
/QH17D
    1 "Yes"
    2 "No"
/QH17E
    1 "Yes"
    2 "No"
/QH17F
    1 "Yes"
    2 "No"
/QH17G
    1 "Yes"
    2 "No"
/QH17H
    1 "Yes"
    2 "No"
/QH17I
    1 "Yes"
    2 "No"
/QH17J
    1 "Yes"
    2 "No"
/QH17K
    1 "Yes"
    2 "No"
/QH17L
    1 "Yes"
    2 "No"
/QH18
    1 "Electricity"
    2 "LPG/cooking gas"
    3 "Natural gas"
    4 "Biogas"
    5 "Kerosene"
    6 "Coal, lignite"
    7 "Charcoal"
    8 "Wood"
    9 "Straw / shrubs / grass"
   10 "Agricultural crop"
   11 "Animal dung"
   95 "No food cooked in HH"
   96 "Other"
/QH19
   11 "Earth, sand"
   21 "Wood planks"
   31 "Parquet, polished wood"
```

```
   32 "Floor mat, linoleum, vinyl"
   33 "Ceramic tiles"
   34 "Concrete, cement"
   35 "Carpet"
   96 "Other"
/QH20
   11 "Thatch / palm leaf"
   21 "Palm / bamboo/mats"
   22 "Wood planks"
   23 "Tarpaulin, plastic"
   31 "Zinc, metal"
   32 "Wood"
   34 "Ceramic tiles"
   35 "Concrete, cement"
   36 "Asbestos sheets, shingles"
   96 "Other"
/QH21
   11 "Mud and sticks"
   12 "Cane / palm / trunks"
   13 "Straw, thatch mats"
   21 "Mud bricks"
   22 "Plywood, reused wood"
   23 "Cardboard, plastic"
   31 "Cement or stone blocks"
   32 "Bricks"
   33 "Wood planks / shingles"
   96 "Other"
/QH21A
   60 "60+"
/QH21B
   60 "60+"
/QH21C
   60 "60+"
/QH22A
    1 "Yes"
    2 "No"
/QH22B
    1 "Yes"
    2 "No"
/QH22C
    1 "Yes"
    2 "No"
/QH22D
    1 "Yes"
    2 "No"
/QH22E
    1 "Yes"
    2 "No"
/QH22F
    1 "Yes"
    2 "No"
/QH23
```

```
     1 "Yes"
     2 "No"
     8 "Don't know"
 /QH24
     1 "Government worker / program"
     2 "Private company"
     6 "Other"
     8 "Don't know"
 /QH25
     1 "Yes"
     2 "No"
 /QH26
'A    ' "No mosquitos"
'B    ' "Not available"
'C    ' "Don't like t use nets"
'D    ' "Too expensive"
'X    ' "Other"
 /QH27
     7 "7+"
.
EXECUTE.
*{Construct Variables}.

*{Members per sleeping room}.
if (hv012=0) hv012=hv013.
if (qh21b>0) memsleep=trunc(hv012/qh21b).
if (qh21b=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'.

* water supply.
compute h2oires=0.
if (qh15=11) h2oires=1.
var labels h2oires "Piped into dwelling".
compute h2oyrd=0.
if (qh15=12) h2oyrd=1.
var labels h2oyrd "Piped into yard/plot".
compute h2opub=0.
if (qh15=13) h2opub=1.
var labels h2opub "Communal tap".
compute h2tube=0.
if (qh15=21) h2tube=1.
var labels h2tube "Tube well or borehole".
compute h2pmpwel=0.
if (qh15=31) h2pmpwel=1.
var labels h2pmpwel "Dug well with pump, protected".
compute h2upwel=0.
if (qh15=32) h2upwel=1.
var labels h2upwel "Dug well, unprotected".
```

```
compute h2psprng=0.
if (qh15=41) h2psprng=1.
var labels h2psprng "Protected spring".
compute h2usprng=0.
if (qh15=41) h2usprng=1.
var labels h2usprng "Unprotected spring".
compute h2osurf=0.
if (qh15=81) h2osurf=1.
var labels h2osurf "Surface water-river, lake, dam, spring,
etc.".
compute h2otruck=0.
if (qh15=61) h2otruck=1.
var labels h2otruck "Water from tanker truck".
compute h2ovend=0.
if (qh15=71) h2ovend=1.
var labels h2ovend "Water from vendor".
compute h2obot=0.
if (qh15=91 or qh15=92) h2obot=1.
var labels h2obot "Bottled Water or water sachets (pure water)".
compute h2orain=0.
if (qh15=51) h2orain=1.
var labels h2orain "Water from rain".
compute h2ooth=0.
if (qh15=96) h2ooth=1.
var labels h2ooth "Other water source".

*{Toilet facility}.
compute flushs=0.
if (qh16=11) flushs=1.
var labels flushs "Flush toilet to sewer".
compute flusht=0.
if (qh16=12) flusht=1.
var labels flusht "Flush toilet to septic tank".
compute flushp=0.
if (qh16=13) flushp=1.
var labels flushp "Flush toilet to pit latrine".
compute flushe=0.
if (qh16=14) flushe=1.
var labels flushe "Flush toilet to somewhere else".
compute flushnd=0.
if (qh16=13) flushnd=1.
var labels flushnd "Flush toilet--doesn't know where".
compute latvip=0.
if (qh16=21) latvip=1.
var labels latvip "VIP latrine".
compute latslab=0.
if (qh16=22) latslab=1.
var labels latslab "Pit latrine with slab".
compute latpit=0.
if (qh16=23) latpit=1.
var labels latpit "Traditional pit latrine".
compute latcomp=0.
```

```
if (qh16=31) latcomp=1.
var labels latcomp "Composting toilet".
compute latpail=0.
if (qh16=41) latpail=1.
var labels latpail "Bucket toilet".
compute lathang=0.
if (qh16=51) lathang=1.
var labels lathang "Hanging toilet".
compute latbush=0.
if (qh16=61) latbush=1.
var labels latbush "No facility/bush/field".
compute latoth=0.
if (qh16=96) latoth=1.
var labels latoth 'Other type of latrine/toilet'.


*{Flooring}.
compute dirtfloo=0.
if (qh19=11) dirtfloo=1.
var labels dirtfloo "Earth, sand, dung floor".
compute woodfloo=0.
if (qh19=21) woodfloo=1.
var labels woodfloo "Rudimentary wood plank, bamboo floor".
compute cemtfloo=0.
if (qh19=34) cemtfloo=1.
var labels cemtfloo "Cement floor".
compute vinlfloo=0.
if (qh19=32) vinlfloo=1.
var labels vinlfloo "Vinyl, linoleum, floor mat".
compute tilefloo=0.
if (qh19=33) tilefloo=1.
var labels tilefloo "Tile floor".
compute rugfloo=0.
if (qh19=35) rugfloo=1.
var labels rugfloo "Carpeted floor".
compute prqfloo=0.
if (qh19=31) prqfloo=1.
var labels prqfloo "Polished wood floor".
compute othfloo=0.
if (qh19=96) othfloo=1.
var labels othfloo "Other type of flooring".

*{Walls}.
compute mudwall=0.
if (qh21=11) mudwall=1.
var labels mudwall "Mud and sticks walls".
compute adobwall=0.
if (qh21=21) adobwall=1.
var labels adobwall "Sundried brick walls".
compute brwall=0.
if (qh21=12) brwall=1.
var labels brwall "Cane, palm, trunks".
```

```
compute bnrwall=0.
if (qh21=13) bnrwall=1.
var labels bnrwall "Uncovered woven cane walls".
compute plywall=0.
if (qh21=22) plywall=1.
var labels plywall "Plywood, reused wood walls".
compute cbwall=0.
if (qh21=31) cbwall=1.
var labels cbwall "Cement block,stone block".
compute brkwall=0.
if (qh21=32) brkwall=1.
var labels brkwall "Brick walls".
compute shngwall=0.
if (qh21=33) shngwall=1.
var labels shngwall "Shingles, finished wood walls".
compute recwall=0.
if (qh21=23) recwall=1.
var labels recwall "Used materials: zinc, cloth, carton, plastics
walls".
compute othwall=0.
if (qh21=96) othwall=1.
var labels othwall "Other type of walls".

*{Roofing}.
compute natroof=0.
if (qh20=11) natroof=1.
var labels natroof "Thatch, palm leaf roof".
compute matroof=0.
if (qh20=21) matroof=1.
var labels matroof "Palm, bamboo mat roof".
compute wproof=0.
if (qh20=22) wproof=1.
var labels wproof "Wood planks roof".
compute tarproof=0.
if (qh20=23) tarproof=1.
var labels tarproof "Tarpaulin, plastic roof".
compute metlroof=0.
if (qh20=31) metlroof=1.
var labels metlroof "Zinc, metal roof".
compute woodroof=0.
if (qh20=32) woodroof=1.
var labels woodroof "Wood roof".
compute tileroof=0.
if (qh20=34) tileroof=1.
var labels tileroof "Ceramic tile roof".
compute cmtroof=0.
if (qh20=35) cmtroof=1.
var labels cmtroof "Concrete, cement roof".
compute shngroof=0.
if (qh20=36) shngroof=1.
var labels shngroof "Asbestos sheets, shingles roof".
compute othroof=0.
```

```
if (qh20=96) othroof=1.
var labels othroof "Other roof".

*{Cooking Fuel}.

compute cookgas=0.
if (qh18=3) cookgas=1.
var labels cookgas "Natural gas for cooking".
compute cooklpg=0.
if (qh18=2) cooklpg=1.
var labels cooklpg "LPG for cooking".
compute cookbio=0.
if (qh18=4) cookbio=1.
var labels cookbio "Biogas for cooking".
compute cookkero=0.
if (qh18=5) cookkero=1.
var labels cookkero "Kerosene, oil, alcohol, gasoline for
cooking".
compute cookelec=0.
if (qh18=1) cookelec=1.
var labels cookelec "Electricity for cooking".
compute cookchar=0.
if (qh18=7) cookchar=1.
var labels cookchar "Charcoal for cooking".
compute cookwood=0.
if (qh18=8) cookwood=1.
var labels cookwood "Wood for cooking".
compute cookstrw=0.
if (qh18=9) cookstrw=1.
var labels cookstrw "Straw, shrubs, grass for cooking".
compute cookcoal=0.
if (qh18=6) cookcoal=1.
var labels cookcoal "Coal for cooking".
compute cookresid=0.
if (qh18=10) cookresid=1.
var labels cookresid "Ag. crops for cooking".
compute cookdung=0.
if (qh18=11) cookdung=1.
var labels cookdung "Animal dung for cooking".
compute cooknone=0.
if (qh18=95) cooknone=1.
var labels cooknone 'Does not cook'.
compute cookoth=0.
if (qh18=96) cookoth=1.
var labels cookoth "Other fuel for cooking".

*{Reset missing values to "does not have", change 2 code to 0}.
if (qh17a<>1) qh17a=0.
if (qh17b<>1) qh17b=0.
if (qh17c<>1) qh17c=0.
if (qh17d<>1) qh17d=0.
if (qh17e<>1) qh17e=0.
```

```
if (qh17f<>1) qh17f=0.
if (qh17g<>1) qh17g=0.
if (qh17h<>1) qh17h=0.
if (qh17i<>1) qh17i=0.
if (qh17j<>1) qh17j=0.
if (qh17k<>1) qh17k=0.
if (qh17l<>1) qh17l=0.


if (qh22a<>1) qh22a=0.
if (qh22b<>1) qh22b=0.
if (qh22c<>1) qh22c=0.
if (qh22d<>1) qh22d=0.
if (qh22e<>1) qh22e=0.
if (qh22f<>1) qh22f=0.


*{Solid waste/garbage collection}.

execute.

FREQUENCIES VARIABLES=QHtype HV009 HV012 HV013 qh17A qh17B qh17C
qh17D qh17E qh17g qh17h qh17i qh17j qh17k qh17l qh16 qh15
    qh18 qh19 qh20 qh21 qh22A qh22B qh22C qh22D qh22E qh22F
  /ORDER=ANALYSIS.

save outfile="c:\hnp2a\nigeria mis 2010\assetsng10.sav".

FREQUENCIES VARIABLES=memsleep h2oires h2oyrd h2opub h2tube
h2pmpwel h2upwel h2psprng h2usprng
    h2osurf h2otruck h2ovend h2obot h2orain h2ooth flushs flusht
flushp flushe flushnd latvip latslab
    latpit latcomp latpail lathang latbush latoth dirtfloo
woodfloo cemtfloo vinlfloo tilefloo rugfloo
    prqfloo othfloo mudwall adobwall brwall bnrwall plywall
cbwall brkwall shngwall recwall othwall
    natroof matroof wproof tarproof metlroof woodroof tileroof
cmtroof shngroof othroof cookgas cooklpg
    cookbio cookkero cookelec cookchar cookwood cookstrw cookcoal
cookresid cookdung cooknone cookoth
  /ORDER=ANALYSIS.

*********************************.
FACTOR
  /VARIABLES QH17A QH17B QH17C QH17D QH17E QH17F QH17G QH17H
QH17I QH17J QH17K QH17L QH22A QH22B
    QH22C QH22D QH22E QH22F memsleep h2oires h2oyrd h2opub h2tube
h2pmpwel h2upwel h2psprng h2usprng
    h2osurf h2otruck h2ovend h2obot h2orain flushs flusht flushp
flushe flushnd latvip latslab
    latpit latcomp latpail lathang latbush latoth dirtfloo
woodfloo cemtfloo vinlfloo tilefloo rugfloo
    prqfloo mudwall adobwall brwall bnrwall plywall brkwall
```

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```
cbwall shngwall recwall othwall
    natroof matroof wproof tarproof metlroof woodroof tileroof
cmtroof shngroof cookgas cooklpg
    cookbio cookkero cookelec cookchar cookwood cookstrw cookcoal
cookresid cooknone
  /MISSING MEANSUB
  /ANALYSIS QH17A QH17B QH17C QH17D QH17E QH17F QH17G QH17H QH17I
QH17J QH17K QH17L QH22A QH22B
    QH22C QH22D QH22E QH22F memsleep h2oires h2oyrd h2opub h2tube
h2pmpwel h2upwel h2psprng h2usprng
    h2osurf h2otruck h2ovend h2obot h2orain flushs flusht flushp
flushe flushnd latvip latslab
    latpit latcomp latpail lathang latbush latoth dirtfloo
woodfloo cemtfloo vinlfloo tilefloo rugfloo
    prqfloo mudwall adobwall brwall bnrwall plywall brkwall
cbwall shngwall recwall othwall
    natroof matroof wproof tarproof metlroof woodroof tileroof
cmtroof shngroof cookgas cooklpg
    cookbio cookkero cookelec cookchar cookwood cookstrw cookcoal
cookresid cooknone
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION.




compute hhmemwt=hv012*qhweight/1000000.
weight by hhmemwt.
VARIABLE LABELS hhmemwt 'HH members weighting for Index' .

RANK
  VARIABLES=fac1_1  (A) /RANK /NTILES (5) /PRINT=YES
  /TIES=MEAN .

FREQUENCIES
  VARIABLES=fac1_1  /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN MODE SKEWNESS
SESKEW
  KURTOSIS SEKURT
  /ORDER=  ANALYSIS .

frequencies variables=nfac1_1.

compute hhwt=qhweight/1000000.
weight by hhwt.
VARIABLE LABELS hhwt 'HH weights' .
MEANS
  TABLES QH17A QH17B QH17C QH17D QH17E QH17F QH17G QH17H QH17I
```

```
QH17J QH17K QH17L QH22A QH22B
    QH22C QH22D QH22E QH22F memsleep h2oires h2oyrd h2opub h2tube
h2pmpwel h2upwel h2psprng h2usprng
    h2osurf h2otruck h2ovend h2obot h2orain flushs flusht flushp
flushe flushnd latvip latslab
    latpit latcomp latpail lathang latbush latoth dirtfloo
woodfloo cemtfloo vinlfloo tilefloo rugfloo
    prqfloo mudwall adobwall brwall bnrwall plywall brkwall
cbwall shngwall recwall othwall
    natroof matroof wproof tarproof metlroof woodroof tileroof
cmtroof shngroof cookgas cooklpg
    cookbio cookkero cookelec cookchar cookwood cookstrw cookcoal
cookresid cooknone BY nfac1_1
  /CELLS MEAN COUNT STDDEV  .

compute hv271=fac1_1*100000.
compute hv270=nfac1_1.

save outfile="c:\hnp2a\Nigeria MIS 2010\assetsng10.sav".

WEIGHT
  OFF.


FREQUENCIES
  VARIABLES=hv271
  /ORDER=  ANALYSIS .

compute hhwt=qhweight/1000000.
weight by hhwt.

GRAPH
  /HISTOGRAM(NORMAL)=fac1_1
  /TITLE= 'Distribution of Households by Wealth Scores Nigeria
MIS  2010'.
FREQUENCIES
  VARIABLES=fac1_1  /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM SEMEAN MEAN MEDIAN MODE
SKEWNESS SESKEW
  KURTOSIS SEKURT
  /ORDER=  ANALYSIS .

WRITE OUTFILE='c:\hnp2a\Nigeria MIS 2010\NG10scores.dat'
  TABLE
  /qhclust qhbuild qhnumber fac1_1 nfac1_1.
EXECUTE.
```