```
*{Construct Variables}.

*{Members per sleeping room}.
if (hv012=0) hv012=hv013.
if (qh117>0) memsleep=trunc(hv012/qh117).
if (qh117=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'.

*{Drinking water supply}.
compute h2oires=0.
if (qh102=11) h2oires=1.
var labels h2oires "Piped into dwelling".
compute h2oyrd=0.
if (qh102=12) h2oyrd=1.
var labels h2oyrd "Piped into yard/plot".
compute h2opub=0.
if (qh102=13) h2opub=1.
var labels h2opub "Public tap / standpipe".
compute h2obwell=0.
if (qh102=21) h2obwell=1.
var labels h2obwell "Tube well or borehole".
compute h2ipwell=0.
if (qh102=31) h2ipwell=1.
var labels h2ipwell "Protected dug well".
compute h2iowell=0.
if (qh102=32) h2iowell=1.
var labels h2iowell "Unprotected dug well".
compute h2pspg=0.
if (qh102=41) h2pspg=1.
var labels h2pspg "Protected spring".
compute h2uspg=0.
if (qh102=42) h2uspg=1.
var labels h2uspg "Unprotected spring".
compute h2orain=0.
if (qh102=51) h2orain=1.
var labels h2orain 'Rainwater'.
compute h2otruck=0.
if (qh102=61) h2otruck=1.
var labels h2otruck 'Tanker truck'.
compute h2ocart=0.
if (qh102=71) h2ocart=1.
var labels h2ocart 'Cart with small tank'.
compute h2osurf=0.
if (qh102=81) h2osurf=1.
var labels h2osurf "Surface water-river, lake, dam, etc.".
compute h2obot=0.
if (qh102=91) h2obot=1.
```

```
var labels h2obot "Water from bottle".
compute h2ooth=0.
if (qh102=96) h2ooth=1.
var labels h2ooth "Other water source".

*{Toilet facility}.
compute flushs=0.
if (qh107=11) flushs=1.
var labels flushs "Flush toilet to sewer".
compute flusht=0.
if (qh107=12) flusht=1.
var labels flusht "Flush toilet to septic tank".
compute flushp=0.
if (qh107=13) flushp=1.
var labels flushp "Flush toilet to pit latrine".
compute flushe=0.
if (qh107=14) flushe=1.
var labels flushe "Flush toilet to elsewhere".
compute flushdk=0.
if (qh107=15) flushdk=1.
var labels flushdk "Flush toilet to don't know".
compute latvip=0.
if (qh107=21) latvip=1.
var labels latvip "VIP latrine".
compute latpits=0.
if (qh107=22) latpits=1.
var labels latpits "Pit latrine with slab".
compute latpit=0.
if (qh107=23) latpit=1.
var labels latpit "Traditional pit latrine".
compute latcomp=0.
if (qh107=31) latcomp=1.
var labels latcomp "Composting latrine".
compute latpail=0.
if (qh107=41) latpail=1.
var labels latpail "Bucket toilet".
compute lathang=0.
if (qh107=51) lathang=1.
var labels lathang "Hanging toilet/latrine".
compute latbush=0.
if (qh107=61) latbush=1.
var labels latbush "No facility/bush/field".
compute latoth=0.
if (qh107=96) latoth=1.
var labels latoth 'Other type of latrine/toilet'.

compute latshare=0.
if (qh108=1) latshare=1.
var labels latshare 'Shares latrine/toilet with other
households'.

compute sflushs=0.
```

```
compute sflusht=0.
compute sflushp=0.
compute sflushe=0.
compute sflushdk=0.
compute slatpit=0.
compute slatpits=0.
compute slatvip=0.
compute slatcomp=0.
compute slathang=0.

variable labels
   sflushs 'Shared flush toilet to sewer'
  /sflusht 'Shared flush toilet to septic tank'
  /sflushp 'Shared flush toilet to pit latrine'
  /sflushe 'Shared flush toilet to elsewhere'
  /sflushdk "Shared flush toilet to don't know"
  /slatpit 'Shared tradtional pit latrine'
  /slatpits 'Shared pit latrine with slab'
  /slatvip 'Shared VIP latrine'
  /slatcomp 'Shared composting toilet'
  /slathang 'Shared hanging toilet/latrine'.

do if (latshare=1).
 if (flushs=1) sflushs=1.
 if (flusht=1) sflusht=1.
 if (sflushp=1) sflushp=1.
 if (flushe=1) sflushe=1.
 if (sflushdk=1) sflushdk=1.
 if (latpit=1) slatpit=1.
 if (latpits=1) slatpits=1.
 if (latvip=1) slatvip=1.
 if (latcomp=1) slatcomp=1.
 if (lathang=1) slathang=1.
end if.


*{Flooring}.
compute dirtfloo=0.
if (qh114=11 and qh114<=13) dirtfloo=1.
var labels dirtfloo "Earth, sand, dung floor".
compute woodfloo=0.
if (qh114=21) woodfloo=1.
var labels woodfloo "Rudimentary wood plank".
compute bambfloo=0.
if (qh114=22) bambfloo=1.
var labels bambfloo "Rudimentary palm, bamboo floor".
compute prqfloo=0.
if (qh114=31) prqfloo=1.
var labels prqfloo "Polished wood floor".
compute vinlfloo=0.
if (qh114=32) vinlfloo=1.
var labels vinlfloo "Vinyl, asphalt strip floor".
```

```
compute tilefloo=0.
if (qh114=33) tilefloo=1.
var labels tilefloo "Ceramic tile floor".
compute cemtfloo=0.
if (qh114=34) cemtfloo=1.
var labels cemtfloo "Cement floor".
compute rugfloo=0.
if (qh114=35) rugfloo=1.
var labels rugfloo "Carpeted floor".
compute othfloo=0.
if (qh114=96) othfloo=1.
var labels othfloo "Other type of flooring".

*{Walls}.
compute nowall=0.
if (qh116=11) nowall=1.
var labels nowall "No walls".
compute natwall=0.
if (qh116=12 or qh116=13) natwall=1.
var labels natwall "Cane/palm/trunks/dirt walls".
compute mudwall=0.
if (qh116=22) mudwall=1.
var labels mudwall "Sticks with mud/clay/dung walls".
compute bambwall=0.
if (qh116=21) bambwall=1.
var labels bambwall "Bamboo with mud walls".
compute stonwall=0.
if (qh116=23) stonwall=1.
var labels stonwall "Stone with mud walls".
compute adobwall=0.
if (qh116=24) adobwall=1.
var labels adobwall "Uncovered adobe walls".
compute plywall=0.
if (qh116=25) plywall=1.
var labels plywall "Plywood walls".
compute cardwall=0.
if (qh116=26) cardwall=1.
var labels cardwall "Cardboard walls".
compute rwoodwall=0.
if (qh116=27) rwoodwall=1.
var labels rwoodwall "Reused wood walls".
compute cmtwall=0.
if (qh116=31) cmtwall=1.
var labels cmtwall "Cement walls".
compute stoncwall=0.
if (qh116=32) stoncwall=1.
var labels stoncwall "Stone walls with lime cement".
compute brkwall=0.
if (qh116=33) brkwall=1.
var labels brkwall "Brick walls".
compute cmtbwall=0.
if (qh116=34) cmtbwall=1.
```

```
var labels cmtbwall "Cement block walls".
compute cadobwall=0.
if (qh116=35) cadobwall=1.
var labels cadobwall "Covered adobe walls".
compute woodwall=0.
if (qh116=36) woodwall=1.
var labels woodwall "Wood planks, shingles walls".
compute metlwall=0.
if (qh116=37) metlwall=1.
var labels metlwall "Corrugated iron/zing".
compute tinwall=0.
if (qh116=38) tinwall=1.
var labels tinwall "Tin walls".
compute othwall=0.
if (qh116=96) othwall=1.
var labels othwall "Other type of walls".

*{Roofing}.
compute noroof=0.
if (qh115=11) noroof=1.
var labels noroof "No roof".
compute natroof=0.
if (qh115=12 or qh115=13) natroof=1.
var labels natroof "Thatch/palm/sod roof".
compute matroof=0.
if (qh115=21) matroof=1.
var labels matroof "Rustic mat roof".
compute bambroof=0.
if (qh115=22) bambroof=1.
var labels bambroof "Palm / bamboo roof".
compute wproof=0.
if (qh115=23) wproof=1.
var labels wproof "Wood planks roof".
compute cardroof=0.
if (qh115=24) cardroof=1.
var labels cardroof "Cardboard roof".
compute stkroof=0.
if (qh115=25) stkroof=1.
var labels stkroof "Sticks with mud and dung roof".
compute PVCroof=0.
if (qh115=26) PVCroof=1.
var labels PVCroof "Plastic/PVC roof".
compute metroof=0.
if (qh115=31) metroof=1.
var labels metroof "Corrugated Iron sheet roof".
compute woodroof=0.
if (qh115=32) woodroof=1.
var labels woodroof "Wood roof".
compute cfroof=0.
if (qh115=33) cfroof=1.
var labels cfroof "Calamine / cement fiber roof".
compute tileroof=0.
```

```
if (qh115=34) tileroof=1.
var labels tileroof "Ceramic tile roof".
compute cmtroof=0.
if (qh115=35) cmtroof=1.
var labels cmtroof "Concrete roof".
compute shngroof=0.
if (qh115=36) shngroof=1.
var labels shngroof "Roofing shingles roof".
compute tinroof=0.
if (qh115=37) tinroof=1.
var labels tinroof "Tin roof".
compute asbroof=0.
if (qh115=38) asbroof=1.
var labels asbroof "Asbestos sheet roof".
compute slateroof=0.
if (qh115=39) slateroof=1.
var labels slateroof "Slate roof".
compute othroof=0.
if (qh115=96) othroof=1.
var labels othroof "Other type of roof".

*{Cooking Fuel}.
compute cookelec=0.
if (qh111=1) cookelec=1.
var labels cookelec "Electricity for cooking".
compute coolpg=0.
if (qh111=2) coolpg=1.
var labels coolpg "LPG for cooking".
compute cookng=0.
if (qh111=3) cookng=1.
var labels cookng "Natural gas for cooking".
compute cookbio=0.
if (qh111=4) cookbio=1.
var labels cookbio "Biogas for cooking".
compute cookkero=0.
if (qh111=5) cookkero=1.
var labels cookkero "Kerosene for cooking".
compute cookcoal=0.
if (qh111=6) cookcoal=1.
var labels cookcoal "Coal/lignite for cooking".
compute cookchar=0.
if (qh111=7) cookchar=1.
var labels cookchar "Charcoal for cooking".
compute cookwood=0.
if (qh111=8 ) cookwood=1.
var labels cookwood "Wood for cooking".
compute cookcrop=0.
if (qh111=10) cookcrop=1.
var labels cookcrop "Agricultural crop".
compute cookdung=0.
if (qh111=11) cookdung=1.
var labels cookdung "Dung for cooking".
```

```
compute cooknone=0.
if (qh111=95) cooknone=1.
var labels cooknone 'Does not cook'.
compute cookoth=0.
if (qh111=96) cookoth=1.
var labels cookoth "Other fuel for cooking".

*{Reset missing values to "does not have", change 2 code to 0}.

*if (qh111<>1) qh111=0.

if (qh110a<>1) qh110a=0.
if (qh110b<>1) qh110b=0.
if (qh110c<>1) qh110c=0.
if (qh110d<>1) qh110d=0.
if (qh110e<>1) qh110e=0.
if (qh110f<>1)  qh110f=0.
if (qh110g<>1) qh110g=0.
if (qh110h<>1) qh110h=0.
if (qh110i<>1) qh110i=0.
if (qh110j<>1) qh110j=0.
if (qh110k<>1) qh110k=0.
if (qh110l<>1) qh110l=0.
if (qh110m<>1) qh110m=0.
if (qh110n<>1) qh110n=0.
if (qh110o<>1) qh110o=0.

if (qh118a<>1) qh118a=0.
if (qh118b<>1) qh118b=0.
if (qh118c<>1) qh118c=0.
if (qh118d<>1) qh118d=0.
if (qh118e<>1) qh118e=0.
if (qh118f<>1)  qh118f=0.


if (qh119<>1) qh119=0.
if (qh119<>1) qh120=0.

compute landarea=0.

if (not(missing(qh120))) landarea=qh120.
if (qh119<>1) landarea=0.
FREQUENCIES landarea.


*Animals.
do repeat anim=qh122a to qh122f.
if (missing(qh121) | qh121 <>1) anim=0.
end repeat.

missing values qh122a to qh122f (98,99).
```

```
** Bank account.

if (qh123<>1) qh123=0.

*{Lighting fuel}.
*compute eleclgt=0.
*if (qh106=1) eleclgt=1.
*var labels eleclgt "Electricity for lighting".
*compute sunlgt=0.
*if (qh106=2) sunlgt=1.
*var labels sunlgt "Solar electricity for lighting".
*compute gaslgt=0.
*if (qh106=3) gaslgt=1.
*var labels gaslgt "Gas for lighting".
*compute hurrlgt=0.
*if (qh106=4) hurrlgt=1.
*var labels hurrlgt "Pariffin-hurricane lamp".
*compute preslgt=0.
*if (qh106=5) preslgt=1.
*var labels preslgt "Pariffin-pressure lamp".
*compute wicklgt=0.
*if (qh106=6) wicklgt=1.
*var labels wicklgt "Wick lamp for lighting".
*compute candlgt=0.
*if (qh106=8) candlgt=1.
*var labels candlgt "Candles for lighting".
*compute woodlgt=0.
*if (qh106=7) woodlgt=1.
*var labels woodlgt "Firewood for lighting".
*compute othlgt=0.
*if (qh106=96) othlgt=1.
*var labels othlgt "Other type of lighting".


*{Solid waste/garbage collection}.

* Compute urban and rural variables coded (1/0) for filters
later.
COMPUTE urban=(qhtype = 1).
COMPUTE rural=(qhtype = 2).
VARIABLE LABELS urban 'Urban' / rural 'Rural'.
VALUE LABELS urban 1 'Urban' / rural 1 'Rural'.
FORMATS urban rural (f1.0).

execute.

DATASET ACTIVATE DataSet1.
FREQUENCIES VARIABLES=QHTYPE HV009 HV012 HV013 QH102 QH107 QH108
QH110A QH110B QH110C QH110D QH110E
    QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M
QH110O QH110N QH111 QH114 QH115 QH116 QH117
    QH118A QH118B QH118C QH118D QH118E QH118F QH119 QH121 QH122A
```

```
QH122B QH122C QH122D QH122E QH122F
    QH123 house land
  /ORDER=ANALYSIS.


FREQUENCIES VARIABLES=memsleep h2oires h2oyrd h2opub h2obwell
h2ipwell h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushp sflushe sflushdk
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof stkroof PVCroof
metroof woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth landarea
urban rural
  /ORDER=ANALYSIS.

save outfile="c:\hnp2a\Namibia 2013\nm13assets.sav".
weight off.
**********************************.
*** Factor Analysis to Test Distribution of created variables.

FACTOR
  /VARIABLES QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F QH122A QH122B QH122C QH122D QH122E
    QH122F QH123 HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof stkroof PVCroof
metroof woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth landarea
```

```
  /MISSING LISTWISE
  /ANALYSIS QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F QH122A QH122B QH122C QH122D QH122E
    QH122F QH123 HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof stkroof PVCroof
metroof woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth landarea
  /PRINT UNIVARIATE INITIAL EXTRACTION
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /METHOD=CORRELATION.



**********.
*** Common Factor Analysis.

**** Redo removing area-specific variables ****.
** Agricultural animal variables excluded.
** Any others ?.

FILTER OFF.
USE ALL.
EXECUTE.
weight off.

FACTOR
 /VARIABLES  QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118E QH118F QH123
HOUSE LAND memsleep h2oires h2oyrd h2opub h2obwell h2ipwell
h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
```

```
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof stkroof PVCroof
metroof woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth
  /MISSING MEANSUB
  /ANALYSIS QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118E QH118F QH123
HOUSE LAND memsleep h2oires h2oyrd h2opub h2obwell h2ipwell
h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof stkroof PVCroof
metroof woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
   /PLOT EIGEN
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL COM)
  /METHOD=CORRELATION.

** Now do the optimal binning.

compute cattle=qh122a.
compute dairy=qh122b.
compute equine=qh122c.
compute goats=qh122d.
compute sheep=qh122e.
compute chicks=qh122f.
execute.

FREQUENCIES VARIABLES=cattle to chicks.
```

```
** Classify large animals (cattle, dairy, traction, hogs, goats,
sheep, etc.) into the following categories
0, 1-4, 5-9, 10+.

** Classifiy small animals into the following categories:
0, 1-9, 10-29, 30+.
use all.
filter off.
execute.
numeric cattle1 to cattle4 dairy1 to dairy4 equine1 to equine4,
goats1 to goats4, sheep1 to sheep4 chicks1 to chicks4  .
do repeat  lgan=cattle to sheep
                /lg1=cattle1 dairy1 equine1 goats1 sheep1
                /lg2=cattle2 dairy2 equine2 goats2 sheep2
                /lg3=cattle3 dairy3 equine3 goats3 sheep3
                /lg4=cattle4 dairy4 equine4 goats4 sheep4 .
compute lg1=(lgan = 0).
compute lg2=(lgan ge 1 and lgan le 4).
compute lg3=(lgan ge 5 and lgan le 9).
compute lg4=(lgan ge 10 and lgan le 97).
end repeat.
execute.
value labels cattle1 dairy1 equine1 goats1 sheep1  1 'Zero'.
value labels cattle2 dairy2 equine2 goats2 sheep2  1 '1 to 4'.
value labels cattle3 dairy3 equine3 goats3 sheep3  1 '5 to 9'.
value labels cattle4 dairy4 equine4 goats4 sheep4  1 '10 or
more'.


do repeat sman=chicks
                /sm1=chicks1
                /sm2=chicks2
                /sm3=chicks3
                /sm4=chicks4.
compute sm1=(sman = 0).
compute sm2=(sman ge 1 and sman le 9).
compute sm3=(sman ge 10 and sman le 29).
compute sm4=(sman ge 30 and sman le 97).
end repeat.
execute.
value labels chicks1 1 'Zero'.
value labels chicks2 1 '1 to 9'.
value labels chicks3 1 '10 to 29'.
value labels chicks4 1 '30 or more'.
frequencies cattle1 to chicks4.


** Standard wealth index for DHS by urban and rural areas.


**  Urban Areas.
```

```
USE ALL.
FILTER BY urban.
EXECUTE .

WEIGHT
  OFF.


FACTOR
   /VARIABLES  QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F  QH123 HOUSE LAND memsleep
   h2oires h2oyrd h2opub h2obwell h2ipwell h2iowell h2pspg
   h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht flushp
flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof PVCroof metroof
woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero
    cookchar cookwood cookdung cooknone cookoth landarea
   cattle1 to cattle4 dairy1 to dairy4 equine1 to equine4, goats1
to goats4, sheep1 to sheep4 chicks1 to chicks4
  /MISSING MEANSUB
  /ANALYSIS   QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F  QH123 HOUSE LAND memsleep
   h2oires h2oyrd h2opub h2obwell h2ipwell h2iowell h2pspg
   h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht flushp
flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof PVCroof metroof
woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero
    cookchar cookwood cookdung cooknone cookoth landarea
```

```
   cattle1 to cattle4 dairy1 to dairy4 equine1 to equine4, goats1
to goats4, sheep1 to sheep4 chicks1 to chicks4
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL URB)
  /METHOD=CORRELATION.

means urb1 by  cattle1 to chicks4.

** Rural Area.

USE ALL.
FILTER BY rural.
EXECUTE.

FACTOR
  /VARIABLES  QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F  QH123 HOUSE LAND memsleep h2oires h2oyrd h2opub h2obwell
h2ipwell h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latshare sflushs
sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof wproof cardroof stkroof PVCroof metroof
woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof othroof cookelec coolpg cookng
cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth landarea
   cattle1 to cattle4 dairy1 to dairy4 equine1 to equine4, goats1
to goats4, sheep1 to sheep4 chicks1 to chicks4
  /MISSING MEANSUB
  /ANALYSIS QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F  QH123 HOUSE LAND memsleep h2oires h2oyrd h2opub h2obwell
h2ipwell h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latshare sflushs
sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
```

```
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof wproof cardroof stkroof PVCroof metroof
woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof othroof cookelec coolpg cookng
cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth landarea
   cattle1 to cattle4 dairy1 to dairy4 equine1 to equine4, goats1
to goats4, sheep1 to sheep4 chicks1 to chicks4
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL RUR)
  /METHOD=CORRELATION.

means rur1 by  cattle1 to chicks4.

* Calculate regressions with total score.

* To be added in where the regressions take place:.

* Name the dataset window for the hh data for use later.
dataset name assets.

* label the created score variables.
variable labels
  com1 "Common wealth score"
 /urb1 "Urban wealth score"
 /rur1 "Rural wealth score".

* Add a variable used for linking later.
use all.
string ROWTYPE_ (A8).
compute ROWTYPE_ = 'EST'.

* Calculate regressions with total score.
** Urban area.

use all.
filter by urban.
execute.

* Declare a dataset to be written to in the regression.
dataset declare urbcorv.
regression
  /missing listwise
  /statistics coeff outs r anova
  /criteria=pin(.05) pout(.10)
  /noorigin
```

```
  /dependent com1
  /method=enter urb1
  /outfile=corv(urbcorv).
* Activate file of output from regression.
dataset activate urbcorv.
* Drop all rows of output except the coefficients.
select if (ROWTYPE_ = 'EST').
execute.
* Delete unnecessary variables before merging.
delete variables DEPVAR_ VARNAME_.
* Rename variables containing the constant and the coefficient.
rename variables CONST_=urbconst urb1=urbcoeff.

* Re-activitate the main household data.
dataset activate assets.
* Rename the urban score.
rename variables urb1=urbscore.
* merge the coefficients.
match files
  /file = *
  /table = urbcorv
  /by ROWTYPE_.
execute.

** Rural area.

use all.
filter by rural.

* Declare a dataset to be written to in the regression.
dataset declare rurcorv.
regression
  /missing listwise
  /statistics coeff outs r anova
  /criteria=pin(.05) pout(.10)
  /noorigin
  /dependent com1
  /method=enter rur1
  /outfile=corv(rurcorv).
* Activate file of output from regression.
dataset activate rurcorv.
* Drop all rows of output except the coefficients.
select if (ROWTYPE_ = 'EST').
execute.
* Delete unnecessary variables before merging.
delete variables DEPVAR_ VARNAME_.
* Rename variables containing the constant and the coefficient.
rename variables CONST_=rurconst rur1=rurcoeff.

* Re-activitate the main household data.
dataset activate assets.
* Rename the rural score.
```

```
rename variables rur1=rurscore.
* merge the coefficients.
match files
  /file = *
  /table = rurcorv
  /by ROWTYPE_.
execute.

use all.

dataset close urbcorv.
dataset close rurcorv.
dataset activate assets.

*** Calculate combined wealth score from Urban and Rural Scores.
* Use coefficients from urban and rural regressions above!.
compute combscor=0.
variable labels combscor "Combined wealth score".
formats combscor (f11.5).
** Urban - replace values with those from the regressions above!.
if (urban = 1) combscor=urbconst+urbcoeff*urbscore.
** Rural - replace values with those from the regressions above!.
if (rural = 1) combscor=rurconst+rurcoeff*rurscore.
execute.


FILTER OFF.
USE ALL.
EXECUTE .


*Tabulation for histograms.
compute hhwt = qhweight/1000000.
VARIABLE LABELS hhwt 'HH weights' .
weight by hhwt.
filter off.
use all.

FREQUENCIES
  VARIABLES=combscor COM1 /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM  NORMAL
  /ORDER=ANALYSIS.

USE ALL.
FILTER BY urban.
EXECUTE.

FREQUENCIES
  VARIABLES=combscor URBscore /FORMAT=NOTABLE
  /NTILES= 5
```

```
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM  NORMAL
  /ORDER=ANALYSIS.

USE ALL.
FILTER BY rural.
EXECUTE.

FREQUENCIES
  VARIABLES=combscor RURscore /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM  NORMAL
  /ORDER=ANALYSIS.

FILTER OFF.
USE ALL.
EXECUTE.


*Calculate quintiles and scores for data file.
compute hhmemwt=qhweight*hv012/1000000.
weight by hhmemwt.
VARIABLE LABELS hhmemwt 'HH members weighting for index'.

** Urban Area.
USE ALL.
FILTER BY urban.
EXECUTE.

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

** Rural Area.
USE ALL.
FILTER BY rural.
EXECUTE.

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

** National combined score.
FILTER OFF.
USE ALL.
EXECUTE.

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

FREQUENCIES
  VARIABLES=combscor urbscore rurscore
     /FORMAT=NOTABLE
```

```
  /NTILES=5
  /STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN MODE SKEWNESS
SESKEW KURTOSIS SEKURT
  /ORDER=ANALYSIS.

*** Check on quintiles.

frequencies variables=ncombsco.


weight by hhwt.

MEANS TABLES=QH110A QH110B QH110C QH110D QH110E QH110F QH110G
QH110H QH110I QH110J QH110K QH110L
    QH110M QH110O QH110N QH118A QH118B QH118C QH118D QH118E
QH118F QH122A QH122B QH122C QH122D QH122E
    QH122F QH123 HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2pspg h2uspg
    h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe flushdk latvip latpits
    latpit latcomp latpail lathang latbush latoth latshare
sflushs sflusht sflushe
    slatpit slatpits slatvip slatcomp slathang dirtfloo woodfloo
bambfloo prqfloo vinlfloo tilefloo
    cemtfloo rugfloo othfloo nowall natwall mudwall bambwall
stonwall adobwall plywall cardwall
    rwoodwall cmtwall stoncwall brkwall cmtbwall cadobwall
woodwall metlwall tinwall othwall noroof
    natroof matroof bambroof wproof cardroof stkroof PVCroof
metroof woodroof cfroof tileroof cmtroof
    shngroof tinroof asbroof slateroof othroof cookelec coolpg
cookng cookbio cookkero cookcoal
    cookchar cookwood cookcrop cookdung cooknone cookoth landarea
cattle1 to chicks4
    by Ncombsco, nurbscor, nrurscor
  /CELLS MEAN COUNT STDDEV.

WEIGHT
  OFF.
save outfile="c:\hnp2a\Namibia 2013\nm13assets.sav".


weight by hhwt.

GRAPH
  /HISTOGRAM(NORMAL)=combscor
  /TITLE= 'Distribution of Households by Wealth Scores Namibia
2013'.
FREQUENCIES
  VARIABLES=combscor  /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM SEMEAN MEAN MEDIAN MODE
```

```
SKEWNESS SESKEW
  KURTOSIS SEKURT
  /ORDER=  ANALYSIS .

weight off.
use all.
write formats combscor urbscore rurscore (f11.5).

WRITE OUTFILE='c:\hnp2a\Namibia 2013\nm13scores.dat'
  TABLE
  /qhclust qhnumber combscor ncombsco urbscore nurbscor rurscore
nrurscor.
EXECUTE.
```