```
*{Construct Variables}.

*{Members per sleeping room}.
if (hv012=0) hv012=hv013.
if (qh72>0) memsleep=trunc(hv012/qh72).
if (qh72=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 (qh40=11) h2oires=1.
var labels h2oires "Piped into dwelling".
compute h2oyrd=0.
if (qh40=12) h2oyrd=1.
var labels h2oyrd "Piped into building".
compute h2opub=0.
if (qh40=13) h2opub=1.
var labels h2opub "Public tap / standpipe".
compute h2oiwell=0.
if (qh40=21) h2oiwell=1.
var labels h2oiwell "Private well in dwelling, patio, lot".
compute h2opwell=0.
if (qh40=22) h2opwell=1.
var labels h2opwell "Public well".
compute h2ospg=0.
if (qh40=31) h2ospg=1.
var labels h2ospg "Spring".
compute h2osurf=0.
if (qh40=32) h2osurf=1.
var labels h2osurf "Surface water-river, lake, dam, etc.".
compute h2orain=0.
if (qh40=41) h2orain=1.
var labels h2orain "Water from rain".
compute h2otruck=0.
if (qh40=51) h2otruck=1.
var labels h2otruck "Water from tanker truck".
compute h2obot=0.
if (qh40=91) h2obot=1.
var labels h2obot "Water from bottle".
compute h2ooth=0.
if (qh40=96) h2ooth=1.
var labels h2ooth "Other water source".

*{Toilet facility}.
compute flushs=0.
if (qh53=11) flushs=1.
var labels flushs "Flush toilet in dwelling".
compute flusht=0.
```

```
if (qh53=12) flusht=1.
var labels flusht "Flush toilet in building".
compute flushp=0.
if (qh53=21) flushp=1.
var labels flushp "Flush toilet to septic tank".
compute latvip=0.
if (qh53=31) latvip=1.
var labels latvip "VIP latrine".
compute latcomp=0.
if (qh53=32) latcomp=1.
var labels latcomp 'Composting toilet/ecosan'.
compute lathang=0.
if (qh53=33) lathang=1.
var labels lathang 'Hanging, floating latrine'.
compute latpits=0.
if (qh53=34) latpits=1.
var labels latpits "Pit latrine with treatment".
compute latpit=0.
if (qh53=35) latpit=1.
var labels latpit "Traditional pit latrine".
compute latbush=0.
if (qh53=41 or qh53=51) latbush=1.
var labels latbush "No facility/river/canal/bush/field".
compute latoth=0.
if (qh53=96) latoth=1.
var labels latoth 'Other type of latrine/toilet'.

compute latshare=0.
if (qh54=2) latshare=1.
var labels latshare 'Shares latrine/toilet with other
households'.

compute sflushs=0.
var labels Sflushs "Shared Flush toilet to sewer".
compute sflusht=0.
var labels sflusht "Shared Flush toilet to septic tank".
compute sflushp=0.
var labels sflushp "Shared Flush toilet to pit latrine".
compute slatvip=0.
var labels slatvip "Shared VIP latrine".
compute slatcomp=0.
var labels slatcomp "Shared composting latrine".
compute slatpits=0.
var labels slatpits "Shared Pit latrine with treatment".
compute slatpit=0.
var labels slatpit "Shared Traditional pit latrine".
compute slatoth=0.
var labels slatoth 'Other type of latrine/toilet'.

do if (latshare=1).
  if (qh53=11) sflushs=1.
  if (qh53=12) sflusht=1.
```

```
  if (qh53=21) sflushp=1.
  if (qh53=31) slatvip=1.
  if (qh53=32) slatcomp=1.
  if (qh53=34) slatpits=1.
  if (qh53=35) slatpit=1.
  if (qh53=96) slatoth=1.
end if.


*{Flooring}.
compute dirtfloo=0.
if (qh73=31) dirtfloo=1.
var labels dirtfloo "Earth, sand, dung floor".
compute woodfloo=0.
if (qh73=21 or qh73=22) woodfloo=1.
var labels woodfloo "Rudimentary wood plank, palm, bamboo floor".
compute cemtfloo=0.
if (qh73=14) cemtfloo=1.
var labels cemtfloo "Cement/brick floor".
compute vinlfloo=0.
if (qh73=12) vinlfloo=1.
var labels vinlfloo "Vinyl, asphalt strip floor".
compute tilefloo=0.
if (qh73=13) tilefloo=1.
var labels tilefloo "Ceramic tile/terrazo floor".
compute prqfloo=0.
if (qh73=11) prqfloo=1.
var labels prqfloo "Polished wood floor".
compute othfloo=0.
if (qh73=96) othfloo=1.
var labels othfloo "Other type of flooring".

*{Walls}.
compute brkwall=0.
if (qh74=11) brkwall=1.
var labels brkwall "Baked brick or cement block walls".
compute stonwall=0.
if (qh74=12) stonwall=1.
var labels stonwall "Stone walls with lime/cement".
compute cadobwall=0.
if (qh74=13) cadobwall=1.
var labels cadobwall "Covered adobe walls".
compute adobwall=0.
if (qh74=21) adobwall=1.
var labels adobwall "Adobe walls".
compute rwoodwall=0.
if (qh74=22) rwoodwall=1.
var labels rwoodwall "Reused wood walls".
compute natwall=0.
if (qh74=23 or qh74=31) natwall=1.
var labels natwall "Cane/palm/trunks/dirt walls".
compute stonwall=0.
```

```
if (qh74=24) stonwall=1.
var labels stonwall "Stone with mud walls".
compute matwall=0.
if (qh74=32) matwall=1.
var labels matwall "Woven mat walls".
compute cardwall=0.
if (qh74=33) cardwall=1.
var labels cardwall "Cardboard walls".
compute plywall=0.
if (qh74=34) plywall=1.
var labels plywall "Plywood walls".
compute nowall=0.
if (qh74=35) nowall=1.
var labels nowall "No walls".
compute othwall=0.
if (qh74=96) othwall=1.
var labels othwall "Other type of walls".

*{Roofing}.
compute cmtroof=0.
if (qh75=11) cmtroof=1.
var labels cmtroof "Concrete roof".
compute tileroof=0.
if (qh75=12) tileroof=1.
var labels tileroof "Ceramic tile roof".
compute asbroof=0.
if (qh75=21) asbroof=1.
var labels asbroof "Calamine / cement fiber roof".
compute woodroof=0.
if (qh75=22) woodroof=1.
var labels woodroof "Wood roof".
compute matmroof=0.
if (qh75=23) matmroof=1.
var labels matmroof "Mat/cane with mud roof".
compute natroof=0.
if (qh75=31) natroof=1.
var labels natroof "Thatch/palm/sod roof".
compute matroof=0.
if (qh75=32) matroof=1.
var labels matroof "Mat roof".
compute cardroof=0.
if (qh75=33) cardroof=1.
var labels cardroof "Cardboard roof".
compute noroof=0.
if (qh75=34) noroof=1.
var labels noroof "Without a roof".
compute othroof=0.
if (qh75=96) othroof=1.
var labels othroof "Other type of roof".

*{Cooking Fuel}.
compute cookelec=0.
```

```
if (qh62=1) cookelec=1.
var labels cookelec "Electricity for cooking".
compute cooklpg=0.
if (qh62=2) cooklpg=1.
var labels cooklpg "LPG for cooking".
compute cookngas=0.
if (qh62=3) cookngas=1.
var labels cookngas "Natural gas for cooking".
compute cookkero=0.
if (qh62=4) cookkero=1.
var labels cookkero "Kerosene for cooking".
compute cookchar=0.
if (qh62=5) cookchar=1.
var labels cookchar "Charcoal for cooking".
compute cookcoal=0.
if (qh62=6) cookcoal=1.
var labels cookcoal "Coal for cooking".
compute cookwood=0.
if (qh62=7 ) cookwood=1.
var labels cookwood "Wood for cooking".
compute cookdung=0.
if (qh62=8) cookdung=1.
var labels cookdung "Dung for cooking".
compute cookcrop=0.
if (qh62=9) cookcrop=1.
var labels cookcrop "Agricultural crop for cooking".
compute cookstraw=0.
if (qh62=10) cookstraw=1.
var labels cookstraw "Straw/bushes/canes for cooking".
compute cooknone=0.
if (qh62=95) cooknone=1.
var labels cooknone 'Does not cook'.
compute cookoth=0.
if (qh62=96) cookoth=1.
var labels cookoth "Other fuel for cooking".

*{Lighting Fuel}.
compute liteelec=0.
if (qh70=1) liteelec=1.
var labels liteelec "Electricity for lighting".
compute litelpg=0.
if (qh70=2) litelpg=1.
var labels litelpg "Gas lighting".
compute litengas=0.
if (qh70=3) litengas=1.
var labels litengas "Natural gas lighting".
compute litekero=0.
if (qh70=4 ) litekero=1.
var labels litekero "Kerosene lamp for lighting".
compute candle=0.
if (qh70=5) candle=1.
var labels candle 'Candels for lighting'.
```

```
compute litebatt=0.
if (qh70=6) litebatt=1.
var labels litebatt "Battery lamp for lighting".
compute liteoth=0.
if (qh70=96) liteoth=1.
var labels liteoth "Other fuel for lighting".

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

if (qh61a<>1) qh61a=0.
if (qh61b<>1) qh61b=0.
if (qh61c<>1) qh61c=0.
if (qh61d<>1) qh61d=0.
if (qh61e<>1)  qh61e=0.
if (qh61f<>1) qh61f=0.
if (qh61g<>1) qh61g=0.
if (qh61h<>1) qh61h=0.
if (qh61i<>1) qh61i=0.
if (qh61j<>1) qh61j=0.
if (qh61k<>1) qh61k=0.
if (qh61l<>1) qh61l=0.
if (qh61m<>1) qh61m=0.
if (qh61n<>1) qh61n=0.
if (qh61n1<>1) qh61n1=0.
if (qh61o<>1) qh61o=0.
if (qh61p<>1) qh61p=0.
if (qh61q<>1) qh61q=0.
if (qh61r<>1) qh61r=0.
if (qh61s<>1) qh61s=0.

if (qh76a<>1) qh76a=0.
if (qh76b<>1) qh76b=0.
if (qh76c<>1) qh76c=0.
if (qh76d<>1) qh76d=0.
if (qh76e<>1) qh76e=0.

if (qh77a<>1) qh77a=0.
if (qh77b<>1) qh77b=0.
if (qh77c<>1) qh77c=0.
if (qh77d<>1) qh77d=0.
if (qh77e<>1) qh77e=0.
if (qh77f<>1) qh77f=0.

compute landarea=0.
missing values qh79 (999.0).
if (qh79>900) qh79=$sysmis.
if (not(missing(qh79))) landarea=qh79.
if (qh78<>1) landarea=0.

*{Livestock}.
if (qh80a<>1) qh80an=0.
if (qh80an>95) qh80an=$sysmis.
```

```
if (qh80b<>1) qh80bn=0.
if (qh80bn>95) qh80bn=$sysmis.
if (qh80c<>1) qh80cn=0.
if (qh80cn>95) qh80cn=$sysmis.
if (qh80d<>1) qh80dn=0.
if (qh80dn>95) qh80dn=$sysmis.
if (qh80e<>1) qh80en=0.
if (qh80en>95) qh80en=$sysmis.
if (qh80f<>1) qh80fn=0.
if (qh80fn>95) qh80fn=$sysmis.
if (qh80g<>1) qh80gn=0.
if (qh80gn>95) qh80gn=$sysmis.
if (qh80h<>1) qh80hn=0.
if (qh80hn>95) qh80hn=$sysmis.
if (qh80i<>1) qh80in=0.
if (qh80in>95) qh80in=$sysmis.

FREQUENCIES variables=landarea.


*{Solid waste/garbage collection}.
compute garbcoll=0.
if (qh58>=11 and qh58<=15) garbcoll=1.
var labels garbcoll "Garbage collected from home".

compute garbcont=0.
if (qh58>=21 and qh58<=24) garbcont=1.
var labels garbcont "Garbage placed in public container".
compute garbtossed=0.
if (qh58>=31 and qh58<=44) garbtossed=1.
var labels garbtossed "Garbage tossed into
field/street/yard/distant place/stream".
compute garbburn=0.
if (qh58=51) garbburn=1.
var labels garbburn "Garbage burned".
compute garbbury=0.
if (qh58=61) garbbury=1.
var labels garbbury "Garbage buried".
compute garbcomp=0.
if (qh58=71) garbcomp=1.
var labels garbcomp "Garbage composted".
compute garbfeed=0.
if (qh58=81) garbfeed=1.
var labels garbfeed "Garbage fed to animals".
compute garboth=0.
if (qh58>=96 and qh58<=98) garboth=1.
var labels garboth "Garbage other disposal or DK".



execute.
```

```
FREQUENCIES VARIABLES=HV009 HV012 HV013 QH40 QH53 QH54 QH58 QH61A
QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S QH62
    QH70 QH72 QH73 QH74 QH75 QH76A QH76B QH76C QH76D QH76E QH77A
QH77B QH77C QH77D QH77E QH77F QH78
    QH79 QH80A QH80AN QH80B QH80BN QH80C QH80CN QH80D QH80DN
QH80E QH80EN QH80F QH80FN QH80G QH80GN
    QH80H QH80HN QH80I QH80IN domestic
  /ORDER=ANALYSIS.

FREQUENCIES VARIABLES=memsleep h2oires h2oyrd h2opub h2oiwell
h2opwell h2ospg h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
lathang latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatcomp slatpits
slatpit slatoth dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    landarea garbcoll garbcont garbtossed garbburn garbbury
garbcomp garbfeed garboth
  /ORDER=ANALYSIS.

save outfile="c:\macro stuff\Peru 2012\DATA UP TO OCT\ENDES_2S
\pe12assets.sav".

**********************************.
*** Factor Analysis to Test Distribution of created variables.
*  Add domestic.
FACTOR
  /VARIABLES  QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
```

```
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
  /MISSING MEANSUB
  /ANALYSIS  QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
        /PRINT UNIVARIATE INITIAL CORRELATION EXTRACTION
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /METHOD=CORRELATION.

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

FILTER OFF.
USE ALL.
EXECUTE.

**** Redo removing area-specific variables ****.
weight off.
FACTOR
 /VARIABLES QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
```

```
QH77F domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth
  /MISSING MEANSUB
  /ANALYSIS QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL com)
  /METHOD=CORRELATION.

weight off.

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


**  Urban Areas.
```

```
USE ALL.
COMPUTE filter_$=(qhtype = 1).
VARIABLE LABEL filter_$ 'qhtype = 1 (FILTER)'.
VALUE LABELS filter_$  0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .

WEIGHT
  OFF.


FACTOR
   /VARIABLES QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
  /MISSING MEANSUB
  /ANALYSIS QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
```

```
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL URB)
  /METHOD=CORRELATION.


** Rural Area.

USE ALL.
COMPUTE filter_$=(qhtype = 2).
VARIABLE LABEL filter_$ 'qhtype = 2 (FILTER)'.
VALUE LABELS filter_$  0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .


FACTOR
  /VARIABLES QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
```

```
  /MISSING MEANSUB
  /ANALYSIS QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN domestic
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL RUR)
  /METHOD=CORRELATION.



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

USE ALL.
COMPUTE filter_$=(qhtype = 1).
VARIABLE LABEL filter_$ 'qhtype = 1 (FILTER)'.
VALUE LABELS filter_$  0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .


REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT com1
  /METHOD=ENTER URB1  .
```

```
** Rural Area.

USE ALL.
COMPUTE filter_$=(qhtype = 2).
VARIABLE LABEL filter_$ 'qhtype = 2 (FILTER)'.
VALUE LABELS filter_$  0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .


REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT com1
  /METHOD=ENTER RUR1  .

FILTER OFF.
USE ALL.
EXECUTE .


*** Calculate combined wealth score from Urban and Rural Scores.
compute combscor=0.
print formats combscor (F11.5).
** Urban.
if (qhtype = 1) combscor=1.193+1.008* URB1.
** Rural.
if (qhtype = 2) combscor=(-0.347)+0.671* RUR1.
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.
COMPUTE filter_$=(qhtype = 1).
VARIABLE LABEL filter_$ 'qhtype = 1 (FILTER)'.
VALUE LABELS filter_$  0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .

RANK
  VARIABLES=urb1  (A) /RANK /NTILES (5) /PRINT=YES
  /TIES=MEAN .
```

```
** Rural Area.

USE ALL.
COMPUTE filter_$=(qhtype = 2).
VARIABLE LABEL filter_$ 'qhtype = 2 (FILTER)'.
VALUE LABELS filter_$  0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .

RANK
  VARIABLES=rur1  (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  /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN MODE SKEWNESS
SESKEW
  KURTOSIS SEKURT
  /ORDER=  ANALYSIS .

frequencies variables=ncombsco.

compute hhwt=qhweight/1000000.
weight by hhwt.
VARIABLE LABELS hhwt 'HH weights' .

MEANS TABLES= QH61A QH61B QH61C QH61D QH61E
    QH61F QH61G QH61H QH61I QH61J QH61K QH61L QH61M QH61N QH61N1
QH61O QH61P QH61Q QH61R QH61S
    QH76A QH76B QH76C QH76D QH76E QH77A QH77B QH77C QH77D QH77E
QH77F
    QH80AN QH80BN QH80CN QH80DN QH80EN QH80FN QH80GN QH80HN
QH80IN
    memsleep h2oires h2oyrd h2opub h2oiwell h2opwell h2ospg
h2osurf h2orain
    h2otruck h2obot h2ooth flushs flusht flushp latvip latcomp
latpits latpit latbush latoth
    latshare sflushs sflusht sflushp slatvip slatpits slatpit
dirtfloo woodfloo
```

```
    cemtfloo vinlfloo tilefloo prqfloo othfloo brkwall stonwall
cadobwall adobwall rwoodwall natwall
    matwall cardwall plywall nowall othwall cmtroof tileroof
asbroof woodroof matmroof natroof matroof
    cardroof noroof othroof cookelec cooklpg cookngas cookkero
cookchar cookcoal cookwood cookdung
    cookcrop cookstraw cooknone cookoth liteelec litelpg litengas
litekero candle litebatt liteoth
    garbcoll garbcont garbtossed garbburn garbbury garbcomp
garbfeed garboth landarea
    by Ncombsco
  /CELLS MEAN COUNT STDDEV.


compute hv271=combscor.
compute hv270=ncombsco.

save outfile="c:\macro stuff\Peru 2012\DATA UP TO OCT\ENDES_2S
\pe12assets.sav".

WEIGHT
  OFF.


compute hhwt=qhweight/1000000.
weight by hhwt.

GRAPH
  /HISTOGRAM(NORMAL)=combscor
  /TITLE= 'Distribution of Households by Wealth Scores Peru DHS
2012'.
FREQUENCIES
  VARIABLES=combscor  /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM SEMEAN MEAN MEDIAN MODE
SKEWNESS SESKEW
  KURTOSIS SEKURT
  /ORDER=  ANALYSIS .

write formats combscor urb1 rur1 (f11.5).

WRITE OUTFILE='c:\macro stuff\Peru 2012\DATA UP TO OCT\ENDES_2S
\pe12scores.dat'
  TABLE
  /qhclust qhnumber combscor ncombsco urb1 nurb1 rur1 nrur1.
EXECUTE.

save outfile="c:\macro stuff\Peru 2012\DATA UP TO OCT\ENDES_2S
\pe12assets.sav".
```