

** For Togo 2013 .
 *{Construct Variables}.

compute husual =hv012.
 compute hhslept=hv013.

*{Members per sleeping room}.
 if (husual=0) husual=hhslept.
 if (qh117>0) memsleep=trunc(husual /qh117).
 if (qh117=0) memsleep=husual .
 if (memsleep>=98) memsleep=98.
 if (missing(qh117) or qh117>=99) memsleep=\$sysmis.
 variable labels memsleep "Number of members per sleeping room".
 value labels memsleep 0 'Less than 1 per room'.

*{Drinking water supply}.
 compute h2oi res=0.
 if (qh102=11) h2oi res=1.
 variable labels h2oi res "Piped into dwelling".
 compute h2oyrd=0.
 if (qh102=12) h2oyrd=1.
 variable labels h2oyrd "Piped into yard/plot".
 compute h2opub=0.
 if (qh102=13) h2opub=1.
 variable labels h2opub "Public tap / standpipe".
 compute h2obwell =0.
 if (qh102=21) h2obwell =1.
 variable labels h2obwell "Tube well or borehole".
 compute h2opwell =0.
 if (qh102=31) h2opwell =1.
 variable labels h2opwell "Protected dug well".
 compute h2oowell =0.
 if (qh102=32) h2oowell =1.
 variable labels h2oowell "Unprotected dug well".
 compute h2opspg=0.
 if (qh102=41) h2opspg=1.
 variable labels h2opspg "Protected Spring".
 compute h2ouspg=0.
 if (qh102=42) h2ouspg=1.
 variable labels h2ouspg "Unprotected Spring".
 compute h2orain=0.
 if (qh102=51) h2orain=1.
 variable labels h2orain "Water from rain".
 compute h2otruck=0.
 if (qh102=61) h2otruck=1.
 variable labels h2otruck "Water from tanker truck".
 compute h2ocart=0.
 if (qh102=71) h2ocart=1.
 variable labels h2ocart "Water from cart with small tank".
 compute h2osurf=0.
 if (qh102=81) h2osurf=1.
 variable labels h2osurf "Surface water-river, lake, dam, etc.".
 compute h2obot=0.
 if (qh102=91 or qh102=92) h2obot=1.
 variable labels h2obot "Water from bottle/pure water".
 compute h2ooth=0.
 if (qh102=96) h2ooth=1.
 variable labels h2ooth "Other water source".
 formats h2oi res h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg h2orain
 h2otruck h2ocart h2osurf h2obot h2ooth (f1.0).

*{Toilet facility}.

tg13assets. sps

```

compute flushs=0.
if (qh107=11) flushs=1.
variable labels flushs "Flush toilet to sewer".
compute flusht=0.
if (qh107=12) flusht=1.
variable labels flusht "Flush toilet to septic tank".
compute flushp=0.
if (qh107=13) flushp=1.
variable labels flushp "Flush toilet to pit latrine".
compute flushes=0.
if (qh107=14 or qh107=15) flushes=1.
variable labels flushes "Flush toilet to elsewhere or to unknown".
compute latvip=0.
if (qh107=21) latvip=1.
variable labels latvip "VIP latrine".
compute latpits=0.
if (qh107=22) latpits=1.
variable labels latpits "Pit latrine with slab".
compute latpit=0.
if (qh107=23) latpit=1.
variable labels latpit "Traditional pit latrine".
compute latcomp=0.
if (qh107=31) latcomp=1.
variable labels latcomp 'Composting toilet/ecosan'.
compute latpail=0.
if (qh107=41) latpail=1.
variable labels latpail 'Bucket toilet'.
compute lathang=0.
if (qh107=51) lathang=1.
variable labels lathang 'Hanging toilet/latrine'.
compute latbush=0.
if (qh107=61) latbush=1.
variable labels latbush "No facility/bush/field".
compute latoth=0.
if (qh107=96) latoth=1.
variable labels latoth 'Other type of latrine/toilet'.
formats flushs flusht flushp flushes latvip latpits latpit latcomp latpail lathang
latbush latoth (f1.0).

compute latshare=0.
if (qh108=1) latshare=1.
variable labels latshare 'Shares latrine/toilet with other households'.
formats latshare (f1.0).

compute sflushs=0.
variable labels sflushs "Shared Flush toilet to sewer".
compute sflusht=0.
variable labels sflusht "Shared Flush toilet to septic tank".
compute sflushp=0.
variable labels sflushp "Shared Flush toilet to pit latrine".
compute sflushes=0.
variable labels sflushes "Shared Flush toilet to elsewhere".
compute slatvip=0.
variable labels slatvip "Shared VIP latrine".
compute slatpits=0.
variable labels slatpits "Shared Pit latrine with washable slab".
compute slatpitn=0.
variable labels slatpitn "Shared Pit latrine with non-washable slab".
compute slatpit=0.
variable labels slatpit "Shared Traditional pit latrine".
compute slatcomp=0.
variable labels slatcomp "Shared composting latrine".
compute slathang=0.

```

tg13assets.sps

```
var labels slathang "Shared hanging latrine".
compute slatoth=0.
var labels slatoth 'Other type of latrine/toilet'.
```

```
do if (latshare=1).
  if (qh107=11) sflushs=1.
  if (qh107=12) sflusht=1.
  if (qh107=13) sflushp=1.
  if (qh107=14 or qh107=15) sflushe=1.
  if (qh107=21) slatvip=1.
  if (qh107=22) slatpits=1.
  if (qh107=23) slatpitn=1.
  if (qh107=24) slatpit=1.
  if (qh107=31) slatcomp=1.
  if (qh107=51) slathang=1.
  if (qh107=96) slatoth=1.
end if.
```

```
*{Flooring}.
compute dirtfl oo=0.
if (qh114=11 or qh114=12) dirtfl oo=1.
variable labels dirtfl oo "Earth, sand, dung floor".
compute woodfl oo=0.
if (qh114=21 or qh114=22) woodfl oo=1.
variable labels woodfl oo "Rudimentary wood plank, palm, bamboo floor".
compute prqfl oo=0.
if (qh114=31) prqfl oo=1.
variable labels prqfl oo "Polished wood floor".
compute vinyl fl oo=0.
if (qh114=32) vinyl fl oo=1.
variable labels vinyl fl oo "Vinyl, asphalt strip floor".
compute tilefl oo=0.
if (qh114=33) tilefl oo=1.
variable labels tilefl oo "Ceramic tile floor".
compute centfl oo=0.
if (qh114=34) centfl oo=1.
variable labels centfl oo "Cement floor".
compute rugfl oo=0.
if (qh114=35) rugfl oo=1.
variable labels rugfl oo "Carpeted floor".
compute othfl oo=0.
if (qh114=96) othfl oo=1.
variable labels othfl oo "Other type of flooring".
formats dirtfl oo woodfl oo prqfl oo vinyl fl oo tilefl oo centfl oo rugfl oo othfl oo (f1.0).
```

```
*{Roofing}.
compute noroof=0.
if (qh115=11) noroof=1.
variable labels noroof "No roof".
compute natroof=0.
if (qh115=12 or qh115=13) natroof=1.
variable labels natroof "Thatch, palm, sod roof".
compute matroof=0.
if (qh115=21) matroof=1.
variable labels matroof "Rustic mat roof".
compute bambroof=0.
if (qh115=22) bambroof=1.
variable labels bambroof "Palm / bamboo roof".
compute wproof=0.
if (qh115=23) wproof=1.
variable labels wproof "Wood planks roof".
compute cardroof=0.
if (qh115=24) cardroof=1.
```

tg13assets.sps

```
variable labels cardroof "Cardboard roof".
compute paileroof=0.
if (qh115=24) paileroof=1.
variable labels paileroof "Paille roof".
compute tinroof=0.
if (qh115=31) tinroof=1.
variable labels tinroof "Metal roof".
compute woodroof=0.
if (qh115=32) woodroof=1.
variable labels woodroof "Wood roof".
compute calroof=0.
if (qh115=33) calroof=1.
variable labels calroof "Calamine, cement fiber roof".
compute cerroof=0.
if (qh115=34) cerroof=1.
variable labels cerroof "Ceramic tiles roof".
compute cmtroof=0.
if (qh115=35) cmtroof=1.
variable labels cmtroof "Cement roof".
compute shngroof=0.
if (qh115=36) shngroof=1.
variable labels shngroof "Roofing shingles roof".
compute othroof=0.
if (qh115=96) othroof=1.
variable labels othroof "Other type of roof".
formats noroof natroof bambroof wproof cardroof paileroof tinroof woodroof calroof
cerroof cmtroof shngroof othroof (f1.0).
```

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

tg13assets.sps

```
if (qh116=34) cmtbwall=1.
variable labels cmtbwall "Cement block walls".
compute cadobwall=0.
if (qh116=35) cadobwall=1.
variable labels cadobwall "Covered adobe walls".
compute woodwall=0.
if (qh116=36) woodwall=1.
variable labels woodwall "Wood planks, shingles walls".
compute othwall=0.
if (qh116=96) othwall=1.
variable labels othwall "Other type of walls".
formats nowall natwall mudwall stomwall adobwall plywall cardwall rwoodwall cmtwall
stonwall brkwall cmtbwall cadobwall woodwall othwall (f1.0).
```

```
*{Cooking Fuel}.
compute cookelec=0.
if (qh111=1) cookelec=1.
variable labels cookelec "Electricity for cooking".
compute cookgas=0.
if (qh111=2) cookgas=1.
variable labels cookgas "LPG/Natural gas/Butane for cooking".
compute cookbio=0.
if (qh111=3) cookbio=1.
variable labels cookbio "Biogas for cooking".
compute cookkero=0.
if (qh111=4) cookkero=1.
variable labels cookkero "Kerosene for cooking".
compute cookcoal=0.
if (qh111=5) cookcoal=1.
variable labels cookcoal "Coal, lignite for cooking".
compute cookchar=0.
if (qh111=6) cookchar=1.
variable labels cookchar "Charcoal for cooking".
compute cookwood=0.
if (qh111=7) cookwood=1.
variable labels cookwood "Wood for cooking".
compute cookstraw=0.
if (qh111=8) cookstraw=1.
variable labels cookstraw "Brush, twigs, straw for cooking".
compute cookcrop=0.
if (qh111=9) cookcrop=1.
variable labels cookcrop "Agricultural crop residue for cooking".
compute cookdung=0.
if (qh111=10) cookdung=1.
variable labels cookdung "Dung for cooking".
compute cooksciure=0.
if (qh111=11) cooksciure=1.
variable labels cooksciure "Sciure for cooking".
compute cooknone=0.
if (qh111=95) cooknone=1.
variable labels cooknone 'Does not cook'.
compute cookoth=0.
if (qh111=96) cookoth=1.
variable labels cookoth "Other fuel for cooking".
formats cookelec cookgas cookbio cookkero cookcoal cookchar cookwood cookstraw
cookcrop cookdung cooksciure cooknone cookoth (f1.0).
```

```
*{Reset missing values to "does not have", change 2 code to 0}.
if (missing(qh110a) | qh110a<>1) qh110a=0.
if (missing(qh110b) | qh110b<>1) qh110b=0.
if (missing(qh110c) | qh110c<>1) qh110c=0.
if (missing(qh110d) | qh110d<>1) qh110d=0.
```

tg13assets. sps

```
if (missing(qh110e) | qh110e<>1) qh110e=0.
if (missing(qh110f) | qh110f<>1) qh110f=0.
if (missing(qh110g) | qh110g<>1) qh110g=0.
if (missing(qh110h) | qh110h<>1) qh110h=0.
if (missing(qh110i) | qh110i <>1) qh110i =0.
if (missing(qh110j) | qh110j <>1) qh110j =0.
if (missing(qh110k) | qh110k<>1) qh110k=0.
if (missing(qh110l) | qh110l <>1) qh110l =0.
if (missing(qh110m) | qh110m<>1) qh110m=0.
if (missing(qh110n) | qh110n<>1) qh110n=0.

if (missing(qh118a) | qh118a<>1) qh118a=0.
if (missing(qh118b) | qh118b<>1) qh118b=0.
if (missing(qh118c) | qh118c<>1) qh118c=0.
if (missing(qh118d) | qh118d<>1) qh118d=0.
if (missing(qh118e) | qh118e<>1) qh118e=0.
if (missing(qh118f) | qh118f<>1) qh118f=0.
if (missing(qh118g) | qh118g<>1) qh118g=0.
if (missing(qh118h) | qh118h<>1) qh118h=0.
if (missing(qh118i) | qh118i <>1) qh118i =0.

if (not(missing(qh120)) & qh120 < 99.8) landarea=qh120.
if (qh120=95.0) landarea=95.
if (missing(qh119) | qh119<>1) landarea=0.
frequencies landarea.
```

```
if (missing(qh121) | qh121 <>1) qh121=0.
if (missing(qh122a) | qh121 <>1) qh122a=0.
if (missing(qh122b) | qh121 <>1) qh122b=0.
if (missing(qh122c) | qh121 <>1) qh122c=0.
if (missing(qh122d) | qh121 <>1) qh122d=0.
if (missing(qh122e) | qh121 <>1) qh122e=0.
if (missing(qh122f) | qh121<>1) qh122f=0.
if (missing(qh122g) | qh121<>1) qh122g=0.
if (missing(qh122h) | qh121<>1) qh122h=0.
if (missing(qh122i) | qh121<>1) qh122i =0.
```

missing values qh122a to qh122i (98,99).

```
if (missing(qh123) | qh123<>1) qh123=0.
```

```
* 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.

* Check on indicator variable creation.

```
FREQUENCIES VARIABLES=QHTYPE HV009 HV012 HV013 QH102 QH107 QH108 QH110A QH110B
QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N QH111 QH114 QH115
QH116 QH117 QH118A
QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I QH119 QH120 QH121 QH122A
QH122B QH122C
QH122D QH122E QH122F QH122G QH122H QH122I QH123 DOMESTIC HOUSE LAND
/ORDER=ANALYSIS.
```

tg13assets. sps

FREQUENCIES VARIABLES=memsleep h2oi res h2oyrd h2opub h2obwell h2opwell h2oowell
h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht flushp flush
latvip latpits latpit
latcomp latpail lathang latbush latoth latshare sflushs sflusht sflushp sflush
slatvip slatpits
slatpitn slatpit slatcomp slathang slatoth dirtfl oo woodfl oo prqfl oo vinyl fl oo
tilefl oo centfl oo
rugfl oo othfl oo noroof natroof matroof bambroof wproof cardroof pail leroof
tinroof woodroof cal roof
cerroof cmtreeof shngroof othroof nowall natwall mudwall stomwall adobwall
plywall cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooksci ure
cooknone cookoth
landarea urban rural
/ORDER=ANALYSIS.

* Turn off weights before all factor analysis.
WEIGHT OFF.

save outfile="c:\hnp2a\Togo 2013\tg13assets. sav".

*** Factor Analysis to Test Distribution of created variables.

FACTOR

/VARIABLES QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH122A QH122B QH122C QH122D QH122E QH122F QH122G QH122H QH122I
QH123 DOMESTIC HOUSE LAND
memsleep h2oi res h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flushs flusht flushp flush latvip
latpits latpit
latcomp lathang latbush latoth latshare sflushs sflusht sflushp sflush slatvip
slatpits
slatpitn slatcomp slathang slatoth dirtfl oo woodfl oo prqfl oo vinyl fl oo tilefl oo
centfl oo
rugfl oo othfl oo noroof natroof bambroof wproof cardroof pail leroof tinroof
woodroof cal roof
cerroof cmtreeof shngroof othroof nowall natwall mudwall stomwall adobwall
plywall cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
landarea
/MISSING MEANSUB
/ANALYSIS QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH122A QH122B QH122C QH122D QH122E QH122F QH122G QH122H QH122I

QH123 DOMESTIC HOUSE LAND
memsleep h2oi res h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flushs flusht flushp flush latvip
latpits latpit
latcomp lathang latbush latoth latshare sflushs sflusht sflushp sflush slatvip
slatpits
slatpitn slatcomp slathang slatoth dirtfl oo woodfl oo prqfl oo vinyl fl oo tilefl oo
centfl oo
rugfl oo othfl oo noroof natroof bambroof wproof cardroof pail leroof tinroof

```

woodroof cal roof
cerroof cmtroof shngroof othroof nowall natwall mudwall stomwall adobwall
plywall cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
landarea
/PRINT UNIVARIATE INITIAL 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 ****.

** Agricultural animal variables excluded.

** Any others ?.

FACTOR

```

/VARIABLES QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH123 DOMESTIC HOUSE LAND
memsleep h2oires h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flushs flusht flushp flushel atvip
latpits latpit
latcomp lathang latbush latoth latshare sflushs flusht flushp flushel atvip
slatpits
slatpitn slatcomp slathang slatoth dirtfl oo woodfl oo prqfl oo vinyl fl oo tilefl oo
cemtfl oo
rugfl oo othfl oo noroof natroof bambroof wproof cardroof paileroof tinroof
woodroof cal roof
cerroof cmtroof shngroof othroof nowall natwall mudwall stomwall adobwall
plywall cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
/MISSING MEANSUB
/ANALYSIS QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH123 DOMESTIC HOUSE LAND
memsleep h2oires h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flushs flusht flushp flushel atvip
latpits latpit
latcomp lathang latbush latoth latshare sflushs flusht flushp flushel atvip
slatpits
slatpitn slatcomp slathang slatoth dirtfl oo woodfl oo prqfl oo vinyl fl oo tilefl oo
cemtfl oo
rugfl oo othfl oo noroof natroof bambroof wproof cardroof paileroof tinroof
woodroof cal roof
cerroof cmtroof shngroof othroof nowall natwall mudwall stomwall adobwall
plywall cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone

```


tg13assets.sps

```
/PRINT UNIVARIATE INITIAL EXTRACTION fscore  
/CRITERIA FACTORS(1) ITERATE(25)  
/EXTRACTION PC  
/ROTATION NOROTATE  
/SAVE REG(ALL COM)  
/METHOD=CORRELATION.
```

** Now do the optimal binning.

```
compute cattle=qh122a.  
compute equine=qh122b.  
compute pigs=qh122c.  
compute goats=qh122d.  
compute sheep=qh122e.  
compute chicks=qh122f.  
compute gfowl=qh122g.  
compute ducks=qh122h.  
compute turkeys=qh122i.  
execute.
```

FREQUENCIES VARIABLES=cattle to turkeys.

** Classify large animals (cattle, dairy, beef, equine, goats, sheep, pigs.) into the following categories
0, 1-4, 5-9, 10+.

** Classify small animals (chicks, rabbits) into the following categories:
0, 1-9, 10-29, 30+.

```
use all.  
filter off.  
execute.
```

```
numeric cattle0 to cattle3 equine0 to equine3 pigs0 to pigs3 goats0 to goats3 sheep0  
to sheep3 chicks0 to chicks3 gfowl0 to gfowl3, ducks0 to ducks3, turkeys0 to  
turkeys3.
```

** Large animals.

```
do repeat lgan=cattle to sheep  
    /lg1=cattle0 equine0 pigs0 goats0 sheep0  
    /lg2=cattle1 equine1 pigs1 goats1 sheep1  
    /lg3=cattle2 equine2 pigs2 goats2 sheep2  
    /lg4=cattle3 equine3 pigs3 goats3 sheep3 .
```

```
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 cattle0 equine0 goats0 sheep0 pigs0 1 'Zero'.  
value labels cattle1 equine1 goats1 sheep1 pigs1 1 '1 to 4'.  
value labels cattle2 equine2 goats2 sheep2 pigs2 1 '5 to 9'.  
value labels cattle3 equine3 goats3 sheep3 pigs3 1 '10 or more'.
```

** Small animals.

```
do repeat sman=chicks to turkeys  
    /sm1=chicks0 gfowl0 ducks0 turkeys0  
    /sm2=chicks1 gfowl1 ducks1 turkeys1  
    /sm3=chicks2 gfowl2 ducks2 turkeys2  
    /sm4=chicks3 gfowl3 ducks3 turkeys3.
```

```
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.
```

tg13assets. sps

execute.
value labels chicks0 gfowl0 ducks0 turkeys0 1 'Zero'.
value labels chicks1 gfowl1 ducks1 turkeys1 1 '1 to 9'.
value labels chicks2 gfowl2 ducks2 turkeys2 1 '10 to 29'.
value labels chicks3 gfowl3 ducks3 turkeys3 1 '30 or more'.
frequencies cattle0 to turkeys3.

** Urban Area.

USE ALL.
FILTER BY urban.
EXECUTE.

FACTOR

```
/VARIABLES QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH123 DOMESTIC HOUSE LAND
memsleep h2oires h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2osurf h2obot flushs flusht flushp flushp latvip latpits latpit
latbush latoth latshare sflushs sflusht sflushp sflushp slatvip slatpits
slatpitn slatoth dirtfl oo woodfl oo vinyl fl oo tilefl oo cementfl oo
rugfl oo othfl oo noroof natroof bambroof wproof tinroof woodroof cal roof
cerroof cmtreeof shngroof othroof nowall natwall stomwall adobwall plywall
cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cooknone
landarea cattle0 to equine1 equine3 to turkeys3
/MISSING MEANSUB
/ANALYSIS QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH123 DOMESTIC HOUSE LAND
memsleep h2oires h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2osurf h2obot flushs flusht flushp flushp latvip latpits latpit
latbush latoth latshare sflushs sflusht sflushp sflushp slatvip slatpits
slatpitn slatoth dirtfl oo woodfl oo vinyl fl oo tilefl oo cementfl oo
rugfl oo othfl oo noroof natroof bambroof wproof tinroof woodroof cal roof
cerroof cmtreeof shngroof othroof nowall natwall stomwall adobwall plywall
cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cooknone
landarea cattle0 to equine1 equine3 to turkeys3
/PRINT UNIVARIATE INITIAL EXTRACTION fscore
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/SAVE REG(ALL URB)
/METHOD=CORRELATION.
```

** Rural Area.

USE ALL.
FILTER BY rural.
EXECUTE.

FACTOR

```
/VARIABLES QH110A QH110B QH110C QH110D QH110E
```

```

                                tg13assets.sps
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
                                QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
                                QH123 DOMESTIC HOUSE LAND
memsleep h2oi res h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flusht flushp latvip latpits latpit
latcomp lathang latbush latoth latshare sflusht sflushp slatvip slatpits
slatpitn slatcomp slathang slatoth dirfl oo prqfl oo vinyl oo tilefl oo cementfl oo
rugfl oo noroof natroof bambroof wproof cardroof paileroof tinroof calroof
cerroof cmtreeof shngroof othroof nowall natwall mudwall stonwall adobwall
cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec cookgas
cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
landarea cattle0 to turkeys3
/MISSING MEANSUB
/ANALYSIS QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH123 DOMESTIC HOUSE LAND
memsleep h2oi res h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flusht flushp latvip latpits latpit
latcomp lathang latbush latoth latshare sflusht sflushp slatvip slatpits
slatpitn slatcomp slathang slatoth dirfl oo prqfl oo vinyl oo tilefl oo cementfl oo
rugfl oo noroof natroof bambroof wproof cardroof paileroof tinroof calroof
cerroof cmtreeof shngroof othroof nowall natwall mudwall stonwall adobwall
cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec cookgas
cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
landarea cattle0 to turkeys3
/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.
FILTER BY urban.
EXECUTE.

```

```

REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT COM1
/METHOD=ENTER URB1.

```

** Rural Area.

```

USE ALL.
FILTER BY rural.
EXECUTE.

```

```

REGRESSION
/MISSING LISTWISE
/STATISTICS COEFF OUTS R ANOVA
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN

```

tg13assets. sps

```
/DEPENDENT COM1  
/METHOD=ENTER RUR1.
```

```
FILTER OFF.  
USE ALL.  
EXECUTE.
```

```
*** Calculate combined wealth score from Urban and Rural Scores.  
compute comb scor=0.  
print formats comb scor (F11.5).  
write formats comb scor (f11.5).  
** Urban.  
if (qh type = 1) comb scor=0.938+0.868* URB1.  
** Rural.  
if (qh type = 2) comb scor=(-0.577)+0.350* RUR1.  
execute.
```

```
*Tabulation for histograms.  
compute hhwt = qhwei ght/1000000.  
VARIABLE LABELS hhwt 'HH wei ghts' .  
weight by hhwt.  
filter off.  
use all.
```

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

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

```
FREQUENCIES  
VARIABLES=comb scor URB1 /FORMAT=NOTABLE  
/NTILES= 5  
/STATISTICS=STDDEV MEAN  
/HISTOGRAM NORMAL  
/ORDER=ANALYSIS.
```

```
USE ALL.  
FILTER BY rural.  
EXECUTE.
```

```
FREQUENCIES  
VARIABLES=comb scor RUR1 /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=qhwei ght*hhusual /1000000.  
weight by hhmemwt.  
VARIABLE LABELS hhmemwt 'HH members weighti ng for i ndex' .
```

tg13assets. sps

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

RANK VARIABLES=urb1 (A) /RANK /NTILES (5) /PRINT=YES /TI ES=MEAN.

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

RANK VARIABLES=rur1 (A) /RANK /NTILES (5) /PRINT=YES /TI ES=MEAN.

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

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

FREQUENCIES
VARIABLES=combscor
/FORMAT=NOTABLE
/NTILES=5
/STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIUM 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 QH110N
QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
QH122A QH122B QH122C QH122D QH122E QH122F QH122G QH122H QH122I
QH123 DOMESTIC HOUSE LAND
memsleep h2oires h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot flushs flusht flushp flushel atvip
latpits latpit
latcomp lathang latbush latoth latshare sflushs sflusht sflushp sflushel atvip
slatpits
slatpitn slatcomp slathang slatoth dirtfl oo woodfl oo prqfl oo vinyl fl oo tilefl oo
cemtfl oo
rugfl oo othfl oo noroof natroof bambroof wproof cardroof pail leroof tinroof
woodroof cal roof
cerroof cmtroof shngroof othroof nowall natwall mudwall stonwall adobwall
plywall cardwall
rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookel ec
cookgas cookbio
cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
landarea
by Ncombsco
/CELLS MEAN COUNT STDDEV.

MEANS TABLES=
QH110A QH110B QH110C QH110D QH110E
QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH110M QH110N

```

                                tg13assets.sps
                QH118A QH118B QH118C QH118D QH118E QH118F QH118G QH118H QH118I
                QH122A QH122B QH122C QH122D QH122E QH122F QH122G QH122H QH122I
QH123 DOMESTIC HOUSE LAND
    memsleep h2oir es h2oyrd h2opub h2obwell h2opwell h2oowell h2opspg h2ouspg
    h2orain h2otruck h2ocart h2osurf h2obot flushs flusht flushp flushes latvip
latpits latpit
    latcomp lathang latbush latoth latshare sflushs sflusht sflushp sflushes slatvip
slatpits
    slatpitn slatcomp slathang slatoth dirtfloo woodfloo prqfloo vinylfloo tilefloo
centfloo
    rugfloo othfloo noroof natroof bambroof wproof cardroof paileroof tinroof
woodroof calroof
    cerroof cmtroof shngroof othroof nowall natwall mudwall stomwall adobwall
plywall cardwall
    rwoodwall cmtwall stonwall brkwall cmtbwall cadobwall woodwall othwall cookelec
cookgas cookbio
    cookkero cookcoal cookchar cookwood cookstraw cookcrop cookdung cooknone
landarea
    by Ncombsco by urban, rural
/CELLS MEAN COUNT STDDEV.

```

WEIGHT OFF.

save outfile="c:\hnp2a\Togo 2013\tg13assets.sav".

*** Write out scores file.

WRITE OUTFILE="c:\hnp2a\Togo 2013\tg13scores.dat"

TABLE

/qhclust qhnumber comb Scor ncombsco urb1 nurb1 rur1 nrur1.

EXECUTE.