

```
** For Yemen 2013 .
*{Construct Variables}.
```

```
compute husual =hv012.
compute hhslept=hv013.
```

```
*{Members per sleeping room}.
if (husual=0) husual=hhslept.
if (qh116>0) memsleep=trunc(husual/qh116).
if (qh116=0) memsleep=husual.
if (memsleep>=98) memsleep=98.
if (missing(qh116) or qh116>=99) memsleep=$sysmis.
variable labels memsleep "Number of members per sleeping room".
value labels memsleep 0 'Less than 1 per room'.
```

```
*{Drinking water supply}.
* Find out categories to use.
```

```
CROSSTABS
  /TABLES=QH102 BY QH103
  /FORMAT=AVALUE TABLES
  /CELLS=COUNT
  /COUNT ROUND CELL.
```

```
compute h2oi res=0.
if (qh102<=2 and qh103=1) h2oi res=1.
variable labels h2oi res "Piped into dwelling".
compute h2oyrd=0.
if (qh102<=2 and qh103=2) h2oyrd=1.
variable labels h2oyrd "Piped into yard/plot".
compute h2opub=0.
if (qh102<=2 and (qh103=5 or qh103=6)) h2opub=1.
variable labels h2opub "Piped water outside house or elsewhere".
compute h2obwell=0.
if (qh102=3) h2obwell=1.
variable labels h2obwell "Tube well or borehole".
compute h2owell=0.
if (qh102=4) h2owell=1.
variable labels h2owell "Regular well".
compute h2ospg=0.
if (qh102=5) h2ospg=1.
variable labels h2ospg "Spring".
compute h2orain=0.
if (qh102=9) h2orain=1.
variable labels h2orain "Water from rain".
compute h2otruck=0.
if (qh102=8) h2otruck=1.
variable labels h2otruck "Water from tanker truck".
compute h2opsurf=0.
if (qh102=6) h2opsurf=1.
variable labels h2opsurf "Protected Surface water-river, lake, dam, etc.".
compute h2ousurf=0.
if (qh102=7) h2ousurf=1.
variable labels h2ousurf "Unprotected Surface water-river, lake, dam, etc.".
compute h2obot=0.
if (qh102=10 or qh102=11) h2obot=1.
variable labels h2obot "Water from bottle/container".
compute h2ooth=0.
if (qh102=96) h2ooth=1.
variable labels h2ooth "Other water source".
formats h2oi res h2oyrd h2opub h2obwell h2owell h2ospg h2orain h2otruck h2opsurf
h2ousurf h2obot h2ooth (f1.0).
```

```

*{Toilet facility.
  compute flushsin=0.
  variable labels flushsin "Flush toilet inside to sewer".
  compute flushsout=0.
  variable labels flushsout "Flush toilet outside to sewer".
  compute flushtin=0.
  variable labels flushtin "Flush toilet inside to septic tank".
  compute flushtout=0.
  variable labels flushtout "Flush toilet outside to septic tank".
  compute latpail=0.
  variable labels latpail 'Bucket toilet'.
  compute latpitt=0.
  variable labels latpitt "Traditional pit latrine".
  compute latvip=0.
  variable labels latvip "Latrine".
  compute latoth=0.
  variable labels latoth 'Other type of latrine/toilet'.
  compute latbush=0.
  variable labels latbush "No facility/bush/field".
  compute latbush=0.
  variable labels latbush "No facility/bush/field".
  compute latpub=0.
  variable labels latpub "Public toilet/latrine".
  compute latoth=0.
  variable labels latoth 'Other type of latrine/toilet'.

do if (qh107=1 or qh107=2).
  if (qh108a=1 and qh107=1) flushsin=1.
  if (qh108a=1 and qh107=2) flushsout=1.
  if (qh108a=2 and qh107=1) flushtin=1.
  if (qh108a=2 and qh107=2) flushtout=1.
  if (qh108a=3) latpail=1.
  if (qh108a=4) latpitt=1.
  if (qh108a=5) latvip=1.
  if (qh108a=6) latoth=1.
  if (qh108a=7) latbush=1.
ELSE.
  if (qh108a=1) latbush=1.
  if (qh108a=2) latpub=1.
  if (qh108a=3) latoth=1.
end if.
formats flushsin flushsout flushtin flushtout latvip latpitt latpail latbush latpub
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 sflushsin=0.
var labels sflushsin "Inside Shared Flush toilet to sewer".
compute sflushtin=0.
var labels sflushtin "Inside Shared Flush toilet to septic tank".
compute sflushsout=0.
var labels sflushsout "Outside Shared Flush toilet to sewer".
compute sflushtout=0.
var labels sflushtout "Outside Shared Flush toilet to septic tank".
compute slatvip=0.
var labels slatvip "Shared VIP latrine".
compute slatpitt=0.
var labels slatpitt "Shared Traditional pit latrine".
compute slatoth=0.
var labels slatoth 'Other type of latrine/toilet'.

```

```

do if (latshare=1).
  if (fl ushsin=1) sfl ushsin=1.
  if (fl ushtin=1) sfl ushtin=1.
  if (fl ushsout=1) sfl ushsout=1.
  if (fl ushtout=1) sfl ushtout=1.
  if (latvip=1) slatvip=1.
  if (latpit=1) slatpit=1.
  if (latoth=1) slatoth=1.
end if.

*{Flooring}.

compute centfloor=0.
if (qh112=1) centfloor=1.
variable labels centfloor "Cement floor".
compute tilefloor=0.
if (qh112=2) tilefloor=1.
variable labels tilefloor "Ceramic tile floor".
compute plastfloor=0.
if (qh112=3) plastfloor=1.
VARIABLE LABELS plastfloor "Plaster floor".
compute dirtfloor=0.
if (qh112=4) dirtfloor=1.
variable labels dirtfloor "Dirt, clay floor".
compute stonfloor=0.
if (qh112=5) stonfloor=1.
variable labels stonfloor "Stone floor".
compute marbfloor=0.
if (qh112=6) marbfloor=1.
variable labels marbfloor "Marble floor".
compute othfloor=0.
if (qh112=96) othfloor=1.
variable labels othfloor "Other type of flooring".
formats dirtfloor stonfloor plastfloor marbfloor tilefloor centfloor othfloor (f1.0).

*{Roofing}.
compute cmtroof=0.
if (qh113=1) cmtroof=1.
variable labels cmtroof "Cement roof".
compute wcroof=0.
if (qh113=2) wcroof=1.
variable labels wcroof "Wood and cement roof".
compute wdroof=0.
if (qh113=3) wdroof=1.
variable labels wdroof "Wood and dirt roof".
compute woodroof=0.
if (qh113=4) woodroof=1.
variable labels woodroof "Wood roof".
compute tinroof=0.
if (qh113=5) tinroof=1.
variable labels tinroof "Metal roof".
compute natroof=0.
if (qh113=6) natroof=1.
variable labels natroof "Thatch, palm, sod roof".
compute caneroof=0.
if (qh113=7) caneroof=1.
variable labels caneroof "Cane and mud roof".
compute mtiroof=0.
if (qh113=8) mtiroof=1.
variable labels mtiroof "Metal plates and mud roof".
compute othroof=0.
if (qh113=96) othroof=1.

```

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```
variable labels othroof "Other type of roof".
formats natroof wcroof wdroof tinroof woodroof caneroof mtinroof cmtroof othroof
(f1.0).
```

```
*{Walls}.
```

```
compute cstonewall=0.
if (qh114=1) cstonewall=1.
variable labels cstonewall "Carved Stone walls".
compute stonewall=0.
if (qh114=2) stonewall=1.
variable labels stonewall "Plain Stone walls".
compute cmtbwall=0.
if (qh114=3) cmtbwall=1.
variable labels cmtbwall "Cement block walls".
compute adobwall=0.
if (qh114=4) adobwall=1.
variable labels adobwall "Uncovered adobe walls".
compute cadobwall=0.
if (qh114=5) cadobwall=1.
variable labels cadobwall "Covered adobe walls".
compute natwall=0.
if (qh114=6) natwall=1.
variable labels natwall "Dirt walls".
compute canewall=0.
if (qh114=7) canewall=1.
variable labels canewall "Straw/cane walls".
compute clothwall=0.
if (qh114=8) clothwall=1.
variable labels clothwall "Cloth/wool walls".
compute othwall=0.
if (qh114=96) othwall=1.
variable labels othwall "Other type of walls".
formats natwall cstonewall adobwall stonewall cmtbwall cadobwall canewall clothwall
othwall (f1.0).
```

```
*{Cooking Fuel}.
```

```
compute cookelec=0.
if (qh110=1) cookelec=1.
variable labels cookelec "Electricity for cooking".
compute cookbio=0.
if (qh110=2) cookbio=1.
variable labels cookbio "Biogas for cooking".
compute cookkero=0.
if (qh110=3) cookkero=1.
variable labels cookkero "Kerosene for cooking".
compute cookchar=0.
if (qh110=4) cookchar=1.
variable labels cookchar "Charcoal for cooking".
compute cookwood=0.
if (qh110=5) cookwood=1.
variable labels cookwood "Wood for cooking".
compute cookdung=0.
if (qh110=6) cookdung=1.
variable labels cookdung "Dung for cooking".
compute cooknone=0.
if (qh110=95) cooknone=1.
variable labels cooknone 'Does not cook'.
compute cookoth=0.
if (qh110=96) cookoth=1.
variable labels cookoth "Other fuel for cooking".
formats cookelec cookbio cookkero cookchar cookwood cookdung cooknone cookoth
```

(f1. 0).

```

*{Illumination}.
compute pubelec=0.
if (qh111=1) pubelec=1.
variable labels pubelec "Public Electric Network for illumination".
compute coopelec=0.
if (qh111=2) coopelec=1.
variable labels coopelec "Coop. Electric Network for illumination".
compute pvtelec=0.
if (qh111=3) pvtelec=1.
variable labels pvtelec "Private Electric Network for illumination".
compute geneltec=0.
if (qh111=4) geneltec=1.
variable labels geneltec "Special Generator for illumination".
compute solelec=0.
if (qh111=5) solelec=1.
variable labels solelec "Solar Electricity for illumination".
compute gazlight=0.
if (qh111=6) gazlight=1.
variable labels gazlight "Gaz (kerosene) for illumination".
compute alamp=0.
if (qh111=7) alamp=1.
variable labels alamp "Aterek gaz or battery lamp for illumination".
compute glamp=0.
if (qh111=8) glamp=1.
variable labels glamp "Gaz or battery lamp for illumination".
compute otherlight=0.
if (qh111=96) otherlight=1.
variable labels otherlight "Other source for illumination".
compute nolamp=0.
if (qh111=97) nolamp=1.
variable labels nolamp "No artificial illumination".

```

```

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

```

```

if (missing(qh117_a) | qh117_a<>1) qh117_a=0.
if (missing(qh117_b) | qh117_b<>1) qh117_b=0.
if (missing(qh117_c) | qh117_c<>1) qh117_c=0.
if (missing(qh117_d) | qh117_d<>1) qh117_d=0.
if (missing(qh117_e) | qh117_e<>1) qh117_e=0.
if (missing(qh117_f) | qh117_f<>1) qh117_f=0.
if (missing(qh117_g) | qh117_g<>1) qh117_g=0.
if (missing(qh117_h) | qh117_h<>1) qh117_h=0.
if (missing(qh117_i) | qh117_i<>1) qh117_i=0.
if (missing(qh117_j) | qh117_j<>1) qh117_j=0.
if (missing(qh117_k) | qh117_k<>1) qh117_k=0.
if (missing(qh117_l) | qh117_l<>1) qh117_l=0.
if (missing(qh117_m) | qh117_m<>1) qh117_m=0.
if (missing(qh117_n) | qh117_n<>1) qh117_n=0.
if (missing(qh117_o) | qh117_o<>1) qh117_o=0.

```

```

if (missing(qh118_a) | qh118_a<>1) qh118_a=0.
if (missing(qh118_b) | qh118_b<>1) qh118_b=0.
if (missing(qh118_c) | qh118_c<>1) qh118_c=0.

```

```

if (missing(qh121) | qh121<>1) qh121=0.
if (missing(qh122_a) | qh122_a<>1) qh122_a=0.
if (missing(qh122_b) | qh122_b<>1) qh122_b=0.
if (missing(qh122_c) | qh122_c<>1) qh122_c=0.
if (missing(qh122_d) | qh122_d<>1) qh122_d=0.

```

```

                                ye13assets. sps
if (missing(qh122_e) | qh121 <>1) qh122_e=0.
if (missing(qh122_f) | qh121<>1) qh122_f=0.

missing values qh122_a to qh122_f (98,99).

```

```

*** Type of housing.
compute indephouse=0.
if (qh100=1) indephouse=1.
VARIABLE LABELS indephouse "Independent house/room".
compute villahouse=0.
if (qh100=2) villahouse=1.
VARIABLE LABELS villahouse "Villa".
compute apthouse=0.
if (qh100=3) apthouse=1.
VARIABLE LABELS apthouse "Apartment in building".
compute tenthouse=0.
if (qh100=4) tenthouse=1.
VARIABLE LABELS tenthouse "Tent".
compute huthouse=0.
if (qh100=5) huthouse=1.
VARIABLE LABELS huthouse "Hut".
compute tmphouse=0.
if (qh100=6) tmphouse=1.
VARIABLE LABELS tmphouse "Temporary shelter".
compute othhouse=0.
if (qh100=96) othhouse=1.
VARIABLE LABELS othhouse "Other type of dwelling".
execute.

```

```

* Compute urban and rural variables coded (1/0) for filters later.
COMPUTE urban=(qh100 = 1).
COMPUTE rural=(qh100 = 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=QH100 QH102 QH103 QH107 QH107A QH108
QH108A QH110
    QH111 QH112 QH113 QH114 QH116 QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F
QH117_G QH117_H
    QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C
QH121 QH122_A
    QH122_B QH122_C QH122_D QH122_E QH122_F QH140A QH140B QH140C
/ORDER=ANALYSIS.

```

```

FREQUENCIES VARIABLES=husual hslsept memsleep h2oi res h2oyrd h2opub h2obwell
h2owel l
    h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushin flushout
flushin flushout
    latpail latpitt latvip latoth latbush latpub latshare sflushin sflushout
sflushout sflushout
    slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor
othfloor cmtrroof
    wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall
stonewall cmtbwall
    adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero

```

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cookchar cookwood  
cookdung cooknone cookoth pubel ec coopel ec pvtel ec genel ec sol el ec gazl ight  
al amp gl amp otherl ight  
nol amp urban rural indephouse villahouse apthouse tenthouse huthouse tmphouse  
othhouse  
/ORDER=ANALYSIS.

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

save outfile="c:\hnp2a\Yemen 2013\ye13assets.sav".

\*\*\*\*\*.  
\*\*\* Factor Analysis to Test Distribution of created variables.  
use all.  
filter off.

FREQUENCIES QH117\_A QH117\_B QH117\_C QH117\_D QH117\_E QH117\_F QH117\_G QH117\_H  
QH117\_I QH117\_J QH117\_K QH117\_L QH117\_M QH117\_N QH117\_O QH118\_A QH118\_B QH118\_C  
QH121 QH122\_A  
QH122\_B QH122\_C QH122\_D QH122\_E QH122\_F  
memsleep h2oi res h2oyrd h2opub h2obwell h2owell  
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout  
flushtin flushtout  
latpail latpitt latvip latoth latbush latpub latshare sflushsin sflushtin  
sflushsout sflushtout  
slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor  
othfloor cmtrroof  
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall  
stonewall cmtbwall  
adobwall cadobwall natwall canewall clothwall othwall cookel ec cookbio cookkero  
cookchar cookwood  
cookdung cooknone cookoth pubel ec coopel ec pvtel ec genel ec sol el ec gazl ight  
al amp gl amp otherl ight  
nol amp indephouse villahouse apthouse tenthouse huthouse tmphouse othhouse.

FACTOR  
/VARIABLES QH117\_A QH117\_B QH117\_C QH117\_D QH117\_E QH117\_F QH117\_G QH117\_H  
QH117\_I QH117\_J QH117\_K QH117\_L QH117\_M QH117\_N QH117\_O QH118\_A QH118\_B QH118\_C  
QH121 QH122\_A  
QH122\_B QH122\_C QH122\_D QH122\_E QH122\_F  
memsleep h2oi res h2oyrd h2opub h2obwell h2owell  
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout  
flushtin flushtout  
latpail latpitt latvip latoth latbush latpub latshare sflushsin sflushtin  
sflushsout sflushtout  
slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor  
othfloor cmtrroof  
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall  
stonewall cmtbwall  
adobwall cadobwall natwall canewall clothwall othwall cookel ec cookbio cookkero  
cookchar cookwood  
cookdung cooknone cookoth pubel ec coopel ec pvtel ec genel ec sol el ec gazl ight  
al amp gl amp otherl ight  
nol amp indephouse villahouse apthouse tenthouse huthouse tmphouse othhouse  
/MISSING MEANSUB  
/ANALYSIS QH117\_A QH117\_B QH117\_C QH117\_D QH117\_E QH117\_F QH117\_G QH117\_H  
QH117\_I QH117\_J QH117\_K QH117\_L QH117\_M QH117\_N QH117\_O QH118\_A QH118\_B QH118\_C  
QH121 QH122\_A  
QH122\_B QH122\_C QH122\_D QH122\_E QH122\_F  
memsleep h2oi res h2oyrd h2opub h2obwell h2owell  
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout  
flushtin flushtout

```

latpail latpitt latvip latoth latbush latpub latshare sflushsin sflushstin
sflushsout sflushstout
slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor
othfloor cmtrroof
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall
stonewall cmtbwall
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero
cookchar cookwood
cookdung cooknone cookoth pubelec coopelec pvtel ec genelec sol elec gazlight
alamp glamp otherlight
nolamp indephouse villa house apthouse tenthouse huthouse tmphouse othhouse
/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 QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F QH117_G QH117_H
QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C
memsleep h2oires h2oyrd h2opub h2obwell h2owell
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout
flushstin flushstout
latpail latpitt latvip latoth latbush latpub latshare sflushsin sflushstin
sflushsout sflushstout
slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor
othfloor cmtrroof
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall
stonewall cmtbwall
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero
cookchar cookwood
cookdung cooknone cookoth pubelec coopelec pvtel ec genelec sol elec gazlight
alamp glamp otherlight
nolamp indephouse villa house apthouse tenthouse huthouse tmphouse othhouse
/MISSING MEANSUB
/ANALYSIS QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F QH117_G QH117_H
QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C
memsleep h2oires h2oyrd h2opub h2obwell h2owell
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout
flushstin flushstout
latpail latpitt latvip latoth latbush latpub latshare sflushsin sflushstin
sflushsout sflushstout
slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor
othfloor cmtrroof
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall
stonewall cmtbwall
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero
cookchar cookwood
cookdung cooknone cookoth pubelec coopelec pvtel ec genelec sol elec gazlight
alamp glamp otherlight
nolamp indephouse villa house apthouse tenthouse huthouse tmphouse othhouse

```



```

ye13assets. 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=qh122_a.
compute equine=qh122_b.
compute camels=qh122_c.
compute goats=qh122_d.
compute sheep=qh122_e.
compute chicks=qh122_f.
execute.

FREQUENCIES VARIABLES=cattle to chicks.

** 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 camels0 to camels3 goats0 to goats3
sheep0 to sheep3 chicks0 to chicks3.

** Large animals.
do repeat lgan=cattle to sheep
    /lg1=cattle0 equine0 camels0 goats0 sheep0
    /lg2=cattle1 equine1 camels1 goats1 sheep1
    /lg3=cattle2 equine2 camels2 goats2 sheep2
    /lg4=cattle3 equine3 camels3 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 camels0 1 'Zero'.
value labels cattle1 equine1 goats1 sheep1 camels1 1 '1 to 4'.
value labels cattle2 equine2 goats2 sheep2 camels2 1 '5 to 9'.
value labels cattle3 equine3 goats3 sheep3 camels3 1 '10 or more'.

** Small animals.
do repeat sman=chicks
    /sm1=chicks0
    /sm2=chicks1
    /sm3=chicks2
    /sm4=chicks3.
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 chicks0 1 'Zero'.
value labels chicks1 1 '1 to 9'.
value labels chicks2 1 '10 to 29'.

```

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value labels chicks3 1 '30 or more'.  
frequencies cattle0 to chicks3.

\*\* Urban Area.

USE ALL.  
FILTER BY urban.  
EXECUTE.

FACTOR

```
/VARIABLES QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F QH117_G QH117_H  
QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C  
memsleep h2oi res h2oyrd h2opub h2obwell h2owell  
h2ospg h2orain h2otruck h2opsurf h2obot h2ooth flushsin flushsout flushtin  
flushtout  
latpail latpilt latvip latoth latbush latpub latshare sflushsin sflushtin  
sflushsout sflushtout  
slatvip slatpilt cementfl oo tilefl oo plastfl oo dirtfl oo stonfl oo marbfl oo othfl oo  
cmroof  
wroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall  
stonewall cmtbwall  
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero  
cookchar cookwood  
cooknone pubelec coopelec pvtel ec genel ec sol el ec gazlight alamp glamp  
otherlight  
nolamp indephouse villahouse apthouse tenthouse huthouse tmphouse othouse  
cattle0 cattle1 cattle3 equine0 equine1 camel s0 to chicks3  
/MISSING MEANSUB  
/ANALYSIS QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F QH117_G QH117_H  
QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C  
memsleep h2oi res h2oyrd h2opub h2obwell h2owell  
h2ospg h2orain h2otruck h2opsurf h2obot h2ooth flushsin flushsout flushtin  
flushtout  
latpail latpilt latvip latoth latbush latpub latshare sflushsin sflushtin  
sflushsout sflushtout  
slatvip slatpilt cementfl oo tilefl oo plastfl oo dirtfl oo stonfl oo marbfl oo othfl oo  
cmroof  
wroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall  
stonewall cmtbwall  
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero  
cookchar cookwood  
cooknone pubelec coopelec pvtel ec genel ec sol el ec gazlight alamp glamp  
otherlight  
nolamp indephouse villahouse apthouse tenthouse huthouse tmphouse othouse  
cattle0 cattle1 cattle3 equine0 equine1 camel s0 to chicks3  
/PRINT UNIVARIATE INITIAL EXTRACTION fscore  
/CRITERIA FACTORS(1) ITERATE(25)  
/EXTRACTION PC  
/ROTATION NOROTATE  
/SAVE REG(ALL URB)  
/METHOD=CORRELATION.
```

compute urb1=-urb1.  
execute.

\*\* Rural Area.

USE ALL.  
FILTER BY rural.  
EXECUTE.

FACTOR

```

/VARIABLES QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F QH117_G QH117_H
QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C
memsleep h2oi res h2oyrd h2opub h2obwell h2owell
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout
flushtin flushtout
latpail latpilt latvip latoth latbush latpub latshare sflushsin sflushtin
sflushsout sflushtout
slatvip slatpilt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor
othfloor cmroof
wroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall
stonewall cmtbwall
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero
cookchar cookwood
cookdung cooknone cookoth pubelec coopelec pvtel ec genelec sol elec gazlight
alamp glamp otherlight
nolamp indephouse villa house athouse tenthouse huthouse tmphouse othouse
cattle0 to chicks3
/MISSING MEANSUB
/ANALYSIS QH117_A QH117_B QH117_C QH117_D QH117_E QH117_F QH117_G QH117_H
QH117_I QH117_J QH117_K QH117_L QH117_M QH117_N QH117_O QH118_A QH118_B QH118_C
memsleep h2oi res h2oyrd h2opub h2obwell h2owell
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout
flushtin flushtout
latpail latpilt latvip latoth latbush latpub latshare sflushsin sflushtin
sflushsout sflushtout
slatvip slatpilt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor
othfloor cmroof
wroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall
stonewall cmtbwall
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero
cookchar cookwood
cookdung cooknone cookoth pubelec coopelec pvtel ec genelec sol elec gazlight
alamp glamp otherlight
nolamp indephouse villa house athouse tenthouse huthouse tmphouse othouse
cattle0 to chicks3
/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  
/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).  
write formats combscor (f11.5).  
\*\* Urban.  
if (qhotype = 1) combscor=1.026+(0.523)\* URB1.  
\*\* Rural.  
if (qhotype = 2) combscor=(-0.380)+0.821\* RUR1.  
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 URB1 /FORMAT=NOTABLE  
/NTILES= 5  
/STATISTICS=STDDEV MEAN  
/HISTOGRAM NORMAL  
/ORDER=ANALYSIS.

USE ALL.  
FILTER BY rural.  
EXECUTE.

FREQUENCIES  
VARIABLES=combscor 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 hmemwt=qhwei ght\*husual /1000000.  
weight by hmemwt.  
VARIABLE LABELS hmemwt 'HH members weighting for index'.

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

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

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

\*\*\* Check on quintiles.

frequencies variables=ncombsco.

weight by hhwt.

MEANS TABLES=  
QH117\_A QH117\_B QH117\_C QH117\_D QH117\_E QH117\_F QH117\_G QH117\_H  
QH117\_I QH117\_J QH117\_K QH117\_L QH117\_M QH117\_N QH117\_O QH118\_A QH118\_B QH118\_C  
QH121 QH122\_A  
QH122\_B QH122\_C QH122\_D QH122\_E QH122\_F  
memsleep h2oi res h2oyrd h2opub h2obwell h2owel l  
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushsout  
flushtin flushtout  
latpail latpiti latvip latoth latbush latpub latshare sflushsin sflushtin  
sflushsout sflushtout  
slatvip slatpiti slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor  
othfloor cmtroof  
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall  
stonewall cmtbwall  
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero  
cookchar cookwood  
cookdung cooknone cookoth pubelec coopelec pvtel ec genel ec sol el ec gazlight  
alamp glamp otherlight  
nolamp urban rural indephouse villahouse apthouse tenthouse huthouse tmphouse

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othouse  
by Ncombsco  
/CELLS MEAN COUNT STDDEV.

MEANS TABLES=

QH117\_A QH117\_B QH117\_C QH117\_D QH117\_E QH117\_F QH117\_G QH117\_H  
QH117\_I QH117\_J QH117\_K QH117\_L QH117\_M QH117\_N QH117\_O QH118\_A QH118\_B QH118\_C  
QH121 QH122\_A  
QH122\_B QH122\_C QH122\_D QH122\_E QH122\_F  
memsleep h2oi res h2oyrd h2opub h2obwell h2owell  
h2ospg h2orain h2otruck h2opsurf h2ousurf h2obot h2ooth flushsin flushout  
flushsin flushout  
latpail latpitt latvip latoth latbush latpub latshare sflushsin sflushsin  
sflushout sflushout  
slatvip slatpitt slatoth cementfloor tilefloor plastfloor dirtfloor stonfloor marbfloor  
othfloor cmtrroof  
wcroof wdroof woodroof tinroof natroof caneroof mtinroof othroof cstonewall  
stonewall cmtbwall  
adobwall cadobwall natwall canewall clothwall othwall cookelec cookbio cookkero  
cookchar cookwood  
cookdung cooknone cookoth pubelec coopelec pvtel ec genelec sol el ec gazlight  
alamp glamp otherlight  
nolamp urban rural indephouse villahouse apthouse tenthouse huthouse tmphouse  
othouse  
by Ncombsco by urban, rural  
/CELLS MEAN COUNT STDDEV.

WEIGHT OFF.

save outfile="c:\hnp2a\Yemen 2013\ye13assets. sav".

\*\*\* Write out scores file.

WRITE OUTFILE="c:\hnp2a\Yemen 2013\ye13scores. dat"

TABLE  
/qhclust qhnumber combscor ncombsco urb1 nurb1 rur1 nrur1.  
EXECUTE.