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* Congo 2008 AIS wealth index - Kiersten.

FREQ hv015.
SELECT IF hv015 = 1.
FREQ hv015.

FREQ HV201 HV205 HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV213
HV214 HV215 HV216 HV221 HV225 HV226 HV243A HV243B HV243D SH101
SH104F SH104H SH104I SH110E.


*begin recoding into dichotomized variables.

*WATER SOURCE.

COMPUTE h2oires = 0.
IF (hv201 = 11) h2oires = 1.
VARIABLE LABELS h2oires "if water is piped into residence".
VALUE LABELS h2oires 0 "water not piped into residence"
                1 "water is piped into residence".

COMPUTE h2oyard = 0.
IF (hv201 = 12) h2oyard = 1.
VARIABLE LABELS h2oyard "if water is piped into compound/plot".
VALUE LABELS h2oyard 0 "water is not piped into compound/plot"
                  1 "water is piped into compound/plot".

COMPUTE h2opub = 0.
IF (hv201 = 13) h2opub = 1.
VARIABLE LABELS h2opub "if gets water from a public tap".
VALUE LABELS h2opub 0 "does not get water from a public tap"
                1 "gets water from a public tap".

COMPUTE h2otube = 0.
IF (hv201 = 21) h2otube = 1.
VARIABLE LABELS h2otube "if gets water from tubewell or
borehole".
VALUE LABELS h2otube 0 "does not get water from tubewell or
borehole"
                  1 "gets water from tubewell or borehole".

COMPUTE h2opwell = 0.
IF (hv201 = 31) h2opwell = 1.
VARIABLE LABELS h2opwell "if gets water from a protected well".
VALUE LABELS h2opwell 0 "does not get water from a protected
well"
                  1 "gets water from a protected well".

COMPUTE h2upwell = 0.
IF (hv201 = 32) h2upwell = 1.
VARIABLE LABELS h2upwell "if gets water from an unprotected
well".
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VALUE LABELS h2upwell 0 "does not get water from an unprotected
well"
                    1 "gets water from an unprotected well".

COMPUTE h2spring = 0.
IF (hv201 = 41 | hv201 = 42) h2spring = 1.
VARIABLE LABELS h2spring "if gets water from a spring (383
protected)".
VALUE LABELS h2spring 0 "does not get water from a spring"
                    1 "gets water from a spring".

COMPUTE h2osurf = 0.
IF (hv201 = 43) h2osurf = 1.
VARIABLE LABELS h2osurf "if gets water from river, stream, pond,
lake or dam".
VALUE LABELS h2osurf 0 "does not get water from surface sources"
                1 "gets water from surface sources".

COMPUTE h2orain = 0.
IF (hv201 = 51) h2orain = 1.
VARIABLE LABELS h2orain "if collects rainwater for drinking".
VALUE LABELS h2orain 0 "does not collect rainwater for drinking"
                1 "collects rainwater for drinking".

COMPUTE h2ooth = 0.
IF (hv201 = 61 | hv201 = 96) h2ooth = 1.
VARIABLE LABELS h2ooth "if gets water from some other source".
VALUE LABELS h2ooth 0 "does not get water from other source"
                1 "gets water from other source".

COMPUTE h2obottl = 0.
IF (hv201 = 71) h2obottl = 1.
VARIABLE LABELS h2obottl "if uses bottled drinking water".
VALUE LABELS h2obottl 0 "does not use bottled drinking water"
                  1 "uses bottled drinking water".


*TOILET TYPES.

COMPUTE flushs = 0.
IF (hv205 = 11 & hv225 = 0) flushs = 1.
VARIABLE LABELS flushs "if has own flush toilet".
VALUE LABELS flushs 0 "does not have own flush toilet"
                    1 "has own flush toilet".

COMPUTE shflushs = 0.
IF (hv205 = 11 & hv225 = 1) shflushs = 1.
VARIABLE LABELS shflushs "if uses shared flush toilet".
VALUE LABELS shflushs 0 "does not use shared flush toilet"
                1 "uses shared flush toilet".

COMPUTE latvip = 0.
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IF (hv205 = 21 & hv225 = 0) latvip = 1.
VARIABLE LABELS latvip "if uses own pit latrine (VIP)".
VALUE LABELS latvip 0 "does not use own pit latrine"
                    1 "uses own pit latrine".

COMPUTE shlatvip = 0.
IF (hv205 = 21 & hv225 = 1) shlatvip = 1.
VARIABLE LABELS shlatvip "if uses a shared pit latrine (VIP)".
VALUE LABELS shlatvip 0 "does not use a shared pit latrine"
                  1 "uses a shared pit latrine".

COMPUTE latpits = 0.
IF (hv205 = 22 & hv225 = 0) latpits = 1.
VARIABLE LABELS latpits "if uses own pit latrine (trad)".
VALUE LABELS latpits 0 "does not use own pit latrine (trad)"
                    1 "uses own pit latrine (trad)".

COMPUTE slatpits = 0.
IF (hv205 = 22 & hv225 = 1) slatpits = 1.
VARIABLE LABELS slatpits "if uses a shared pit latrine (trad)".
VALUE LABELS slatpits 0 "does not use a shared pit latrine
(trad)"
                  1 "uses a shared pit latrine (trad)".

COMPUTE latbush = 0.
IF (hv205 = 31) latbush = 1.
VARIABLE LABELS latbush "if uses the bush".
VALUE LABELS latbush 0 "does not use the bush"
                  1 "uses the bush".

COMPUTE latother = 0.
IF (hv205 = 96) latother = 1.
VARIABLE LABELS latother "if uses some other type of facility".
VALUE LABELS latother 0 "does not use some other type of
facility"
                 1 "uses some other type of facility".


*AMENITIES.

COMPUTE electric = 0.
IF (hv206 = 1) electric = 1.
VARIABLE LABELS electric "if household has electric".
VALUE LABELS electric 0 "no electric"
                  1 "has electric".

COMPUTE radio = 0.
IF (hv207 = 1) radio = 1.
VARIABLE LABELS radio "if household has radio".
VALUE LABELS radio 0 "no radio"
                  1 "has radio".
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COMPUTE tv = 0.
IF (hv208 = 1) tv = 1.
VARIABLE LABELS tv "if household has tv".
VALUE LABELS tv 0 "no tv"
                1 "has tv".

COMPUTE fridge = 0.
IF (hv209 = 1) fridge = 1.
VARIABLE LABELS fridge "if household has fridge".
VALUE LABELS fridge 0 "no fridge"
                     1 "has fridge".

COMPUTE bicycle = 0.
IF (hv210 = 1) bicycle = 1.
VARIABLE LABELS bicycle "if household has bicycle".
VALUE LABELS bicycle 0 "no bicycle"
                       1 "has bicycle".

COMPUTE motobk = 0.
IF (hv211 = 1) motobk = 1.
VARIABLE LABELS motobk "if household has motorcycle or scooter".
VALUE LABELS motobk 0 "no motorbike/scooter"
                       1 "has motorbike/scooter".

COMPUTE car = 0.
IF (hv212 = 1) car = 1.
VARIABLE LABELS car "if household has car or truck".
VALUE LABELS car 0 "no car/truck"
                  1 "has car/truck".

COMPUTE phone = 0.
IF (hv221 = 1) phone = 1.
VARIABLE LABELS phone "if household has phone (landline)".
VALUE LABELS phone 0 "no phone"
                     1 "has phone".

COMPUTE mphone = 0.
IF (hv243a = 1) mphone = 1.
VARIABLE LABELS mphone "if household has mobile phone".
VALUE LABELS mphone 0 "no mobile phone"
                    1 "house has mobile phone".

COMPUTE watch = 0.
IF (hv243b = 1) watch = 1.
VARIABLE LABELS watch "if household has a watch".
VALUE LABELS watch 0 "no watch"
                    1 "has watch".

COMPUTE boat = 0.
IF (hv243d = 1) boat = 1.
VARIABLE LABELS boat "if household has boat w motor".
VALUE LABELS boat 0 "no boat"
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                    1 "has boat".

COMPUTE computer = 0.
IF (sh104f = 1) computer = 1.
VARIABLE LABELS computer "if household has a computer".
VALUE LABELS computer 0 "no computer"
                    1 "house has a computer".

COMPUTE rechagas = 0.
IF (sh104h = 1) rechagas = 1.
VARIABLE LABELS rechagas "if household has rechaud a gaz".
VALUE LABELS rechagas 0 "no rechaud a gaz"
                      1 "house has rechaud a gaz".

COMPUTE rechapet = 0.
IF (sh104i = 1) rechapet = 1.
VARIABLE LABELS rechapet "if household has rechaud a petrol".
VALUE LABELS rechapet 0 "no rechaud a petrol"
                      1 "house has rechaud a petrol".

COMPUTE boatsans = 0.
IF (sh110e = 1) boatsans = 1.
VARIABLE LABELS boatsans "if household has a boat w no motor".
VALUE LABELS boatsans 0 "no boat w no motor"
                      1 "house has a boat w no motor".


IF (MISSING(hv216)) hv216 = hv012.
EXECUTE.

COMPUTE memsleep = (hv012/hv216).
VARIABLE LABELS memsleep "number of members per sleeping room".

* for households where there are no de jure members.
IF (hv012 = 0) memsleep = (hv013/hv216).



*FLOOR TYPE.

COMPUTE dirtfloo = 0.
IF (hv213 = 11 | hv213 = 21) dirtfloo = 1.
VARIABLE LABELS dirtfloo "if floor is earth/sand (+18
woodplank)".
VALUE LABELS dirtfloo 0 "floor is not earthen"
                  1 "floor is earthen".

COMPUTE vinfloo = 0.
IF (hv213 = 32) vinfloo = 1.
VARIABLE LABELS vinfloo "if has linoleum flooring".
VALUE LABELS vinfloo 0 "does not have vinyl/asphalt strip
flooring"
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                1 "has vinyl/asphalt strip flooring".

COMPUTE cerafloo = 0.
IF (hv213 = 31 | hv213 = 33) cerafloo = 1.
VARIABLE LABELS cerafloo "if flooring is of ceramic tiles (+1
parquet)".
VALUE LABELS cerafloo 0 "floor is not of ceramic tiles"
                  1 "floor is of ceramic tiles".

COMPUTE cemtfloo = 0.
IF (hv213 = 34 | hv213 = 96) cemtfloo = 1.
VARIABLE LABELS cemtfloo "if floor is of cement (+23 other)".
VALUE LABELS cemtfloo 0 "floor is not cement"
                  1 "floor is cement".

COMPUTE carpfloo = 0.
IF ( hv213 = 35) carpfloo = 1.
VARIABLE LABELS carpfloo "if has carpeted flooring".
VALUE LABELS carpfloo 0 "does not have carpeted flooring"
                 1 "has carpeted flooring".



* TYPE OF WALL MATERIALS.

COMPUTE sandwall = 0.
IF (hv214 = 11) sandwall = 1.
VARIABLE LABELS sandwall "if wall made of sand".
VALUE LABELS sandwall 0 "wall is not made of sand"
                      1 "wall is made of sand".

COMPUTE woodwall = 0.
IF (hv214 = 21) woodwall = 1.
VARIABLE LABELS woodwall "if wall made of wood planks".
VALUE LABELS woodwall 0 "wall is not made of wood planks"
                      1 "wall is made of wood planks".

COMPUTE sbrwall = 0.
IF (hv214 = 22) sbrwall = 1.
VARIABLE LABELS sbrwall "if wall made of sand bricks".
VALUE LABELS sbrwall  0 "wall is not made of sand bricks"
                1 "wall is made of sand bricks".

COMPUTE mtlwall = 0.
IF (hv214 = 23) mtlwall = 1.
VARIABLE LABELS mtlwall "if wall made of metal".
VALUE LABELS mtlwall       0 "wall is not made of metal"
                      1 "wall is made of metal".

COMPUTE brckwall = 0.
IF (hv214 = 31) brckwall = 1.
VARIABLE LABELS brckwall "if wall made of brick".
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VALUE LABELS brckwall 0 "wall is not made of brick"
                      1 "wall is made of brick".

COMPUTE cmtwall = 0.
IF (hv214 = 32) cmtwall = 1.
VARIABLE LABELS cmtwall "if wall made of cement".
VALUE LABELS cmtwall  0 "wall is not made of cement"
                      1 "wall is made of cement".

COMPUTE othwall = 0.
IF (hv214 = 96) othwall = 1.
VARIABLE LABELS othwall "if wall made of other materials".
VALUE LABELS othwall       0 "wall is not made of other
materials"
                      1 "wall is made of other materials".



*TYPE OF ROOFING MATERIALS.
* Not using roofing materials variables for Congo - there is no
variation - all grass or metal.



*TYPE OF COOKING FUEL.

COMPUTE cookelec = 0.
IF (hv226 = 1) cookelec = 1.
VARIABLE LABELS cookelec "if uses electricity for cooking".
VALUE LABELS cookelec 0 "does not use electricity for cooking"
                    1 "uses electricity for cooking".

COMPUTE cookgas = 0.
IF (hv226 = 2) cookgas = 1.
VARIABLE LABELS cookgas "if uses LPG for cooking".
VALUE LABELS cookgas 0 "does not use gas for cooking"
                    1 "uses gas for cooking".

COMPUTE cookkero = 0.
IF (hv226 = 5) cookkero = 1.
VARIABLE LABELS cookkero "if uses kerosene for cooking".
VALUE LABELS cookkero 0 "does not use kerosene for cooking"
                    1 "uses kerosene for cooking".

COMPUTE cookcoal = 0.
IF (hv226 = 6) cookcoal = 1.
VARIABLE LABELS cookcoal "if uses coal/lignite for cooking".
VALUE LABELS cookcoal 0 "does not use coal/lignite for cooking"
                    1 "uses coal/lignite for cooking".

COMPUTE cookchar = 0.
IF (hv226 = 7) cookchar = 1.
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VARIABLE LABELS cookchar "if uses charcoal for cooking".
VALUE LABELS cookchar 0 "does not use charcoal for cooking"
                      1 "uses charcoal for cooking".

COMPUTE cookwood = 0.
IF (hv226 = 8 | hv226 = 9 | hv226 = 96) cookwood = 1.
VARIABLE LABELS cookwood "if uses wood (+14 straw +7 other) for
cooking fuel".
VALUE LABELS cookwood 0 "does not use firewood for cooking"
                      1 "uses firewood for cooking".

COMPUTE cookoth = 0.
IF (hv226 = 95) cookoth = 1.
VARIABLE LABELS cookoth "no food cooked in HH".
VALUE LABELS cookoth 0 "food is cooked in HH"
                     1 "no food cooked in hh".


EXECUTE.



FREQ h2oires h2oyard h2opub h2otube h2opwell h2upwell h2spring
h2osurf
h2orain h2ooth h2obottl flushs shflushs latvip shlatvip latpits
slatpits latbush
latother electric radio tv fridge bicycle motobk car phone mphone
watch boat
computer rechagas rechapet boatsans memsleep dirtfloo vinfloo
cerafloo cemtfloo
carpfloo sandwall woodwall sbrwall mtlwall brckwall cmtwall
othwall cookelec
cookgas cookkero cookcoal cookchar cookwood cookoth.


FACTOR
  /VARIABLES h2oires h2oyard h2opub h2otube h2opwell h2upwell
h2spring h2osurf
h2orain h2ooth h2obottl flushs shflushs latvip shlatvip latpits
slatpits latbush
latother electric radio tv fridge bicycle motobk car phone mphone
watch boat
computer rechagas rechapet boatsans memsleep dirtfloo vinfloo
cerafloo cemtfloo
carpfloo sandwall woodwall sbrwall mtlwall brckwall cmtwall
othwall cookelec
cookgas cookkero cookcoal cookchar cookwood cookoth
  /MISSING MEANSUB /ANALYSIS h2oires h2oyard h2opub h2otube
h2opwell h2upwell h2spring h2osurf
h2orain h2ooth h2obottl flushs shflushs latvip shlatvip latpits
slatpits latbush
latother electric radio tv fridge bicycle motobk car phone mphone
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watch boat
computer rechagas rechapet boatsans memsleep dirtfloo vinfloo
cerafloo cemtfloo
carpfloo sandwall woodwall sbrwall mtlwall brckwall cmtwall
othwall cookelec
cookgas cookkero cookcoal cookchar cookwood cookoth
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION .

FREQ hv012.

COMPUTE hhmemwt = (hv005/1000000 * hv012) .
VARIABLE LABELS hhmemwt 'HH members weighting for Index' .

IF (hv012 = 0) hhmemwt = (hv005/1000000 * hv013) .
EXECUTE.

WEIGHT
BY hhmemwt .
FREQUENCIES
VARIABLES=fac1_1  /FORMAT=NOTABLE
/NTILES= 5
/STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN /ORDER  ANALYSIS .

RECODE
fac1_1
(Lowest thru -0.5406841628153=1)  (-0.5406841628153 thru
0.3905112746578=2)  (0.3905112746578 thru
0.9553194644319=3)  (0.9553194644319 thru 1.553193972837=4)
(1.553193972837 thru Highest=5)  INTO wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .

write outfile='C:\Users\kiersten.b.johnson\Desktop\projects
\wealth index\Congo AIS\scores.dat' records=1 table
/hhid fac1_1 wlthind5.
execute.


MEANS
  TABLES=h2oires h2oyard h2opub h2otube h2opwell h2upwell
h2spring h2osurf
h2orain h2ooth h2obottl flushs shflushs latvip shlatvip latpits
slatpits latbush
latother electric radio tv fridge bicycle motobk car phone mphone
watch boat
computer rechagas rechapet boatsans memsleep dirtfloo vinfloo
cerafloo cemtfloo
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carpfloo sandwall woodwall sbrwall mtlwall brckwall cmtwall
  BY wlthind5
  /CELLS MEAN  .

freq wlthind5.
weight off.
freq wlthind5.
COMPUTE wt = hv005/1000000.
WEIGHT by wt.
EXECUTE.
freq wlthind5.
```