

* Uganda 2009 MIS 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 HV226 HV243A
HV243B HV243D HV244 HV245 HV246 HV247 SH104C SH104H SH104I
SH104J SH104K SH104L SH104M SH112G.

*begin recoding into dichotomized variables.

*WATER SOURCE.

COMPUTE h2oires = 0.

IF (hv201 = 11 | hv201 = 71) h2oires = 1.

VARIABLE LABELS h2oires "if water is piped into residence +25
bottled h2o".

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 h2oowell = 0.

IF (hv201 = 22 | hv201 = 23) h2oowell = 1.

VARIABLE LABELS h2oowell "if gets water from an open well".

VALUE LABELS h2oowell 0 "does not get water from an open well"
1 "gets water from an open well".

COMPUTE h2opwell = 0.

IF (hv201 = 33 | hv201 = 34) 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 h2otube = 0.

IF (hv201 = 35) h2otube = 1.

VARIABLE LABELS h2otube "if gets water from tubewell or
borehole".

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VALUE LABELS h2otube 0 "does not get water from tubewell or
borehole"
                1 "gets water from tubewell or borehole".

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

COMPUTE h2sprung = 0.
IF (hv201 = 42) h2sprung = 1.
VARIABLE LABELS h2sprung "if gets water from a spring -
unprotected".
VALUE LABELS h2sprung 0 "does not get water from a spring -
unprotected"
                1 "gets water from a spring - unprotected".

COMPUTE h2osurf = 0.
IF (hv201 > 43 & hv201 < 47) 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 h2ooth = 0.
IF (hv201 = 51 | hv201 = 61 | hv201 = 96) h2ooth = 1.
VARIABLE LABELS h2ooth "if gets water from other source".
VALUE LABELS h2ooth 0 "does not get water from other source"
                1 "gets water from other source".

*TOILET TYPES.

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

COMPUTE latvip = 0.
IF (hv205 = 21 | hv205 = 41) latvip = 1.
VARIABLE LABELS latvip "if uses pit latrine (VIP) +8 composting".
VALUE LABELS latvip 0 "does not use pit latrine"
                1 "uses pit latrine".

COMPUTE latpitns = 0.
IF (hv205 = 22 | hv205 = 96) latpitns = 1.
VARIABLE LABELS latpitns "if uses covered pit latrine without
slab +9 other".

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VALUE LABELS latpits 0 "does not use covered pit latrine without
slab"
                1 "uses covered pit latrine without
slab".
```

```
COMPUTE latpits = 0.
IF (hv205 = 23) latpits = 1.
VARIABLE LABELS latpits "if uses covered pit latrine with slab".
VALUE LABELS latpits 0 "does not use covered pit latrine with
slab"
                1 "uses covered pit latrine with slab".
```

```
COMPUTE latpiton = 0.
IF (hv205 = 24) latpiton = 1.
VARIABLE LABELS latpiton "if uses open pit latrine without slab".
VALUE LABELS latpiton 0 "does not use open pit latrine without
slab"
                1 "uses open pit latrine without slab".
```

```
COMPUTE latpitos = 0.
IF (hv205 = 25) latpitos = 1.
VARIABLE LABELS latpitos "if uses open pit latrine with slab".
VALUE LABELS latpitos 0 "does not use open pit latrine with slab"
                1 "uses open pit latrine with slab".
```

```
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".
```

*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".
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```
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".
```

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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 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 watch".
VALUE LABELS watch 0 "no watch"
                1 "has watch".

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

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

* did not include land ownership b/c no mention of how much
owned.

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COMPUTE bank = 0.
IF (hv247 = 1) bank = 1.
VARIABLE LABELS bank "if household has bank account".
VALUE LABELS bank 0 "no bank"
                1 "has bank".

COMPUTE casstt = 0.
IF (sh104c = 1) casstt = 1.
VARIABLE LABELS casstt "if household has cassette player".
VALUE LABELS casstt 0 "no cassette player"
                  1 "has cassette player".

COMPUTE table = 0.
IF (sh104h = 1) table = 1.
VARIABLE LABELS table "if household has table".
VALUE LABELS casstt 0 "no table"
                1 "has table".

COMPUTE chair = 0.
IF (sh104i = 1) chair = 1.
VARIABLE LABELS chair "if household has chair".
VALUE LABELS chair 0 "no chair"
                  1 "has chair".

COMPUTE sofaset = 0.
IF (sh104j = 1) sofaset = 1.
VARIABLE LABELS sofaset "if household has sofaset".
VALUE LABELS sofaset 0 "no sofaset"
                    1 "has sofaset".

COMPUTE bed = 0.
IF (sh104k = 1) bed = 1.
VARIABLE LABELS bed "if household has bed".
VALUE LABELS bed 0 "no bed"
                 1 "has bed".

COMPUTE cupbrd = 0.
IF (sh104l = 1) cupbrd = 1.
VARIABLE LABELS cupbrd "if household has cupboard".
VALUE LABELS cupbrd 0 "no cupboard"
                    1 "has cupboard".

COMPUTE clock = 0.
IF (sh104m = 1) clock = 1.
VARIABLE LABELS clock "if household has clock".
VALUE LABELS clock 0 "no clock"
                   1 "has clock".

EXECUTE.

IF (MISSING(hv216)) hv216 = hv012.

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```
EXECUTE.  
COMPUTE memsleep = (hv012/hv216).  
VARIABLE LABELS memsleep "number of members per sleeping room".
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*FLOOR TYPE.
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```
COMPUTE dirtfloo = 0.  
IF (hv213 = 11) dirtfloo = 1.  
VARIABLE LABELS dirtfloo "if floor is earth/sand".  
VALUE LABELS dirtfloo 0 "floor is not earthen"  
1 "floor is earthen".
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```
COMPUTE dungfloo = 0.  
IF (hv213 = 12) dungfloo = 1.  
VARIABLE LABELS dungfloo "if floor is dung".  
VALUE LABELS dungfloo 0 "floor is not dung"  
1 "floor is dung".
```

```
COMPUTE cerafloo = 0.  
IF (hv213 = 34 | hv213 = 33) cerafloo = 1.  
VARIABLE LABELS cerafloo "if flooring is of ceramic tiles (+11  
brick)".  
VALUE LABELS cerafloo 0 "floor is not of ceramic tiles"  
1 "floor is of ceramic tiles".
```

```
COMPUTE centfloo = 0.  
IF (hv213 = 35 | hv213 = 96) centfloo = 1.  
VARIABLE LABELS centfloo "if floor is of cement".  
VALUE LABELS centfloo 0 "floor is not cement"  
1 "floor is cement".
```

```
COMPUTE stonfloo = 0.  
IF (hv213 = 36) stonfloo = 1.  
VARIABLE LABELS stonfloo "if floor is of stones".  
VALUE LABELS stonfloo 0 "floor is not stones"  
1 "floor is stones".
```

```
* TYPE OF WALL MATERIALS.
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```
COMPUTE grnwall = 0.  
IF (hv214 = 11) grnwall = 1.  
VARIABLE LABELS grnwall "if wall made of cane/palm/trunks/grass  
materials".  
VALUE LABELS grnwall 0 "wall is not made of green materials"  
1 "wall is made of green materials".
```

```
COMPUTE bamwall = 0.  
IF (hv214 = 21) bamwall = 1.
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```

VARIABLE LABELS bamwall "if wall made of bamboo w mud".
VALUE LABELS bamwall 0 "wall is not made of bamboo w mud"
                    1 "wall is made of bamboo w mud".

COMPUTE ubbwall = 0.
IF (hv214 = 22 | hv214 = 96) ubbwall = 1.
VARIABLE LABELS ubbwall "if wall made of unburnt bricks".
VALUE LABELS ubbwall 0 "wall is not made of unburnt bricks"
                    1 "wall is made of unburnt bricks".

COMPUTE ubpwall = 0.
IF (hv214 = 23) ubpwall = 1.
VARIABLE LABELS ubpwall "if wall made of unburnt bricks w
plaster".
VALUE LABELS ubpwall 0 "wall is not made of unburnt bricks w
plaster"
                    1 "wall is made of unburnt bricks w
plaster".

COMPUTE brkmwall = 0.
IF (hv214 = 24) brkmwall = 1.
VARIABLE LABELS brkmwall "if wall made of brick w mud".
VALUE LABELS brkmwall 0 "wall is not made of brick w mud"
                    1 "wall is made of brick w mud".

COMPUTE brckwall = 0.
IF (hv214 = 34) brckwall = 1.
VARIABLE LABELS brckwall "if wall made of brick w cement".
VALUE LABELS brckwall 0 "wall is not made of brick w cement"
                    1 "wall is made of brick w cement".

COMPUTE blkwall = 0.
IF (hv214 = 31 | hv214 = 32 | hv214 = 33) blkwall = 1.
VARIABLE LABELS blkwall "if wall made of cent block +30
stone/timber".
VALUE LABELS blkwall 0 "wall is not made of cent block"
                    1 "wall is made of cent block".

*TYPE OF ROOFING MATERIALS.

COMPUTE natroof = 0.
IF (hv215 = 11 | hv215 = 12 | hv215 = 21) natroof = 1.
VARIABLE LABELS natroof "if has grass/thatch/palm roofing".
VALUE LABELS natroof 0 "no grass/thatch/palm roofing"
                    1 "has grass/thatch/palm roofing".

COMPUTE finroof = 0.
IF (hv215 > 22) finroof = 1.

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VARIABLE LABELS finroof "if has roof made of asbsts, tiles, tin, cement".

VALUE LABELS finroof 0 "does not have roof made of stuff"
1 "has roof made of stuff".

COMPUTE ironroof = 0.

IF (hv215 = 22) ironroof = 1.

VARIABLE LABELS ironroof "if roof made of metal".

VALUE LABELS ironroof 0 "roof not made of metal"
1 "roof made of metal".

*TYPE OF COOKING FUEL - omitted for lack of variation.

EXECUTE.

FREQ h2oires h2oyard h2opub h2oowell h2opwell h2otube h2spring
h2sprung h2osurf h2ooth flushs latvip latpitns latpits latpiton
latpitos
latbush electric radio tv fridge bicycle motobk car mphone watch
boatm boatnm bank casstt table chair sofaset bed cupbrd clock
memsleep dirtfloo dungfloo cerafloo cemtfloo stonfloo grnwall
bamwall
ubbwall ubpwall brkmwall brckwall blkwall natroof finroof
ironroof.

FACTOR

/VARIABLES h2oires h2oyard h2opub h2oowell h2opwell h2otube
h2spring
h2sprung h2osurf h2ooth flushs latvip latpitns latpits latpiton
latpitos
latbush electric radio tv fridge bicycle motobk car mphone watch
boatm bank casstt table chair sofaset bed cupbrd clock
memsleep dirtfloo dungfloo cerafloo cemtfloo stonfloo grnwall
bamwall
ubbwall ubpwall brkmwall brckwall blkwall natroof finroof
ironroof

/MISSING MEANSUB /ANALYSIS h2oires h2oyard h2opub h2oowell
h2opwell h2otube h2spring
h2sprung h2osurf h2ooth flushs latvip latpitns latpits latpiton
latpitos
latbush electric radio tv fridge bicycle motobk car mphone watch
boatm bank casstt table chair sofaset bed cupbrd clock
memsleep dirtfloo dungfloo cerafloo cemtfloo stonfloo grnwall
bamwall
ubbwall ubpwall brkmwall brckwall blkwall natroof finroof
ironroof

```

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

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

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

RECODE
fac1_1
(Lowest thru -0.7522726164905=1) (-0.7522726164905 thru
-0.4619035464589=2) (-0.4619035464589 thru
-0.1108607522457=3) (-0.1108607522457 thru 0.6260471422273=4)
(0.6260471422273 thru Highest=5) INTO wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .

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

MEANS
TABLES=h2oires h2oyard h2opub h2oowell h2opwell h2otube
h2spring
h2sprung h2osurf h2ooth flushs latvip latpitns latpits latpiton
latpitos
latbush electric radio tv fridge bicycle motobk car mphone watch
boatm bank casstt table chair sofaset bed cupbrd clock
memsleep dirtfloo dungfloo cerafloo cemtfloo stonfloo grnwall
bamwall
ubbwall ubpwall brkmwall brckwall blkwall natroof finroof
ironroof BY wlthind5
/CELLS MEAN .

freq wlthind5.

weight off.
freq wlthind5.

COMPUTE wt = hv005/1000000.
WEIGHT by wt.

```

```
EXECUTE.  
freq wlthind5.
```