

DATA LIST FILE='C:\HNP2A\UGANDA 2011 AIS AND DHS\UGANDA DHS 2011
\EXPORTED' RECORDS=1

/

HV001	1-8
HV002	9-12
HV005	13-20
HV025	21-21
HV009	22-23
HV012	24-25
HV013	26-27
HV201	28-29
HV202	30-31
HV204	32-34
HV205	35-36
HV206	37-37
HV207	38-38
HV208	39-39
HV209	40-40
HV210	41-41
HV211	42-42
HV212	43-43
HV213	44-45
HV214	46-47
HV215	48-49
HV216	50-51
HV217	52-52
HV218	53-54
HV219	55-55
HV220	56-57
HV221	58-58
HV225	59-59
HV226	60-61
HV227	62-62
HV228	63-63
HV230A	64-64
HV230B	65-65
HV232	66-66
HV232B	67-67
HV232C	68-68
HV232D	69-69
HV232E	70-70
HV232Y	71-71
HV234	72-74
HV234A	75-75
HV235	76-76
HV236	77-77
HV237	78-78
HV237A	79-79
HV237B	80-80
HV237C	81-81
HV237D	82-82
HV237E	83-83

HV237F	84-84
HV237G	85-85
HV237H	86-86
HV237I	87-87
HV237J	88-88
HV237K	89-89
HV237X	90-90
HV237Z	91-91
HV238	92-93
HV239	94-94
HV240	95-95
HV241	96-96
HV242	97-97
HV243A	98-98
HV243B	99-99
HV243C	100-100
HV243D	101-101
HV244	102-102
HV245	103-105
HV246	106-106
HV246A	107-108
HV246B	109-110
HV246C	111-112
HV246D	113-114
HV246E	115-116
HV246F	117-118
HV246G	119-120
HV246H	121-122
HV246I	123-124
HV246J	125-126
HV246K	127-128
HV247	129-129
HV252	130-130
HV253	131-131
HV253A	132-132
HV253B	133-133
HV253C	134-134
HV253D	135-135
HV253E	136-136
HV253F	137-137
HV253G	138-138
HV253H	139-139
HV253X	140-140
HV253Z	141-141
HV270	142-142
HV271	143-150
HML1	151-152
HML1A	153-153
HML2	154-155
SHTYPE	156-156
SHNUMB2	157-160
SHELIGDV	161-161

SHUNHS	162-162
SHUNHSEL	163-172
SHSRTYPE	173-173
SHQLANG	174-175
SHILANG	176-177
SHRLANG	178-179
SHTRANS	180-180
SHSTRTH	181-182
SHSTRTM	183-184
SH109A	185-185
SH110C	186-186
SH110H	187-187
SH110I	188-188
SH110J	189-189
SH110K	190-190
SH110L	191-191
SH110M	192-192
SH118G	193-193
SHENDH	194-195
SHENDM	196-197
DOMESTIC	198-198
HOUSE	199-199
LAND	200-200

VARIABLE LABELS

HV001	"Cluster number"
/HV002	"Household number"
/HV005	"Household sample weight (6 decimals)"
/HV025	"Type of place of residence"
/HV009	"Number of household members"
/HV012	"Number of de jure members"
/HV013	"Number of de facto members"
/HV201	"Source of drinking water"
/HV202	"Source of non-drinking water"
/HV204	"Time to get to water source (minutes)"
/HV205	"Type of toilet facility"
/HV206	"Has electricity"
/HV207	"Has radio"
/HV208	"Has television"
/HV209	"Has refrigerator"
/HV210	"Has bicycle"
/HV211	"Has motorcycle/scooter"
/HV212	"Has car/truck"
/HV213	"Main floor material"
/HV214	"Main wall material"
/HV215	"Main roof material"
/HV216	"Number of rooms used for sleeping"
/HV217	"Relationship structure"
/HV218	"Line number of head of household"
/HV219	"Sex of head of household"
/HV220	"Age of head of household"
/HV221	"Has telephone (land-line)"

/HV225 "Share toilet with other households"
 /HV226 "Type of cooking fuel"
 /HV227 "Has mosquito bed net for sleeping"
 /HV228 "Children under 5 slept under mosquito bed net last
 night"
 /HV230A "Place where household members wash their hands"
 /HV230B "Presence of water at hand washing place"
 /HV232 "Items present: Soap or detergent"
 /HV232B "Items present: Ash, mud, sand"
 /HV232C "NA - Items present: CS"
 /HV232D "NA - Items present: CS"
 /HV232E "NA - Items present: CS"
 /HV232Y "Items present: None"
 /HV234 "Result of salt test for iodine (PPM)"
 /HV234A "Result of salt test for iodine"
 /HV235 "Location of source for water"
 /HV236 "Person fetching water"
 /HV237 "Anything done to water to make safe to drink"
 /HV237A "Water usually treated by: boil"
 /HV237B "Water usually treated by: add bleach/chlorine"
 /HV237C "Water usually treated by: strain through a cloth"
 /HV237D "Water usually treated by: use water filter"
 /HV237E "Water usually treated by: solar disinfection"
 /HV237F "Water usually treated by: let it stand and settle"
 /HV237G "Water usually treated by: add water guard"
 /HV237H "NA - Water usually treated by: CS"
 /HV237I "NA - Water usually treated by: CS"
 /HV237J "NA - Water usually treated by: CS"
 /HV237K "NA - Water usually treated by: CS"
 /HV237X "Water usually treated by: other"
 /HV237Z "Water usually treated by: don't know"
 /HV238 "Number of households sharing toilet"
 /HV239 "Food cooked on stove or open fire"
 /HV240 "Household has a chimney, hood or neither"
 /HV241 "Food cooked in the house/ separate building/
 outdoors"
 /HV242 "Household has separate room used as kitchen"
 /HV243A "Has mobile telephone"
 /HV243B "Has watch"
 /HV243C "Has animal-drawn cart"
 /HV243D "Has boat with a motor"
 /HV244 "Owns land usable for agriculture"
 /HV245 "Hectares of agricultural land (1 decimal)"
 /HV246 "Owns livestock, herds or farm animals"
 /HV246A "Owns cattle"
 /HV246B "NA - Owns cows/ bulls"
 /HV246C "Owns horses/ donkeys/ mules"
 /HV246D "Owns goats"
 /HV246E "Owns sheep"
 /HV246F "Owns chickens"
 /HV246G "CS Owns pigs"
 /HV246H "CS Owns exotic/cross cattle"

/HV246I "NA - Owns CS"
 /HV246J "NA - Owns CS"
 /HV246K "NA - Owns CS"
 /HV247 "NA - Has bank account"
 /HV252 "Frequency household members smoke inside the house"
 /HV253 "Has dwelling been sprayed against mosquitoes in last
 12 months"
 /HV253A "Dwelling sprayed by: government worker/program"
 /HV253B "Dwelling sprayed by: private company"
 /HV253C "Dwelling sprayed by: NGO"
 /HV253D "NA - Dwelling sprayed by: CS"
 /HV253E "NA - Dwelling sprayed by: CS"
 /HV253F "NA - Dwelling sprayed by: CS"
 /HV253G "NA - Dwelling sprayed by: CS"
 /HV253H "NA - Dwelling sprayed by: CS"
 /HV253X "Dwelling sprayed by: other"
 /HV253Z "Dwelling sprayed by: don't know"
 /HV270 "Wealth index"
 /HV271 "Wealth index factor score (5 decimals)"
 /HML1 "Number of mosquito bed nets"
 /HML1A "Number of mosquito bed nets with specific
 information"
 /HML2 "Number of children under mosquito bed net previous
 night"
 /SHTYPE "type of place of residence"
 /SHNUMB2 "Household number 2"
 /SHELIGDV "Eligibility for domestic violence"
 /SHUNHS "Household selected for UNHS"
 /SHUNHSEL "UNHS Household number"
 /SHSRTYPE "Survey type"
 /SHQLANG "Language of questionnaire"
 /SHILANG "Language of interview"
 /SHRLANG "Native language of respondent"
 /SHTRANS "Translator used"
 /SHSTRTH "Household start time hours"
 /SHSTRTM "Household start time minutes"
 /SH109A "Toilet has facility of handwashing after use"
 /SH110C "Household has a cassette player"
 /SH110H "Household has a table"
 /SH110I "Household has a chair"
 /SH110J "household has a sofa set"
 /SH110K "Household has a bed"
 /SH110L "Household has a cupboard"
 /SH110M "Household has a clock"
 /SH118G "Household has a boat without a motor"
 /SHENDH "Household survey end time hours"
 /SHENDM "Household survey end time minutes"
 /DOMESTIC "domestic"
 /HOUSE "house"
 /LAND "land"

.
 MISSING VALUE

HV201 (99)
/HV202 (99)
/HV204 (999)
/HV205 (99)
/HV206 (9)
/HV207 (9)
/HV208 (9)
/HV209 (9)
/HV210 (9)
/HV211 (9)
/HV212 (9)
/HV213 (99)
/HV214 (99)
/HV215 (99)
/HV216 (99)
/HV219 (9)
/HV220 (99)
/HV221 (9)
/HV225 (9)
/HV226 (99)
/HV227 (9)
/HV228 (9)
/HV230A (9)
/HV230B (9)
/HV232 (9)
/HV232B (9)
/HV232C (9)
/HV232D (9)
/HV232E (9)
/HV232Y (9)
/HV234 (999)
/HV234A (9)
/HV235 (9)
/HV236 (9)
/HV237 (9)
/HV237A (9)
/HV237B (9)
/HV237C (9)
/HV237D (9)
/HV237E (9)
/HV237F (9)
/HV237G (9)
/HV237H (9)
/HV237I (9)
/HV237J (9)
/HV237K (9)
/HV237X (9)
/HV237Z (9)
/HV238 (99)
/HV239 (9)
/HV240 (9)
/HV241 (9)

/HV242 (9)
/HV243A (9)
/HV243B (9)
/HV243C (9)
/HV243D (9)
/HV244 (9)
/HV245 (999)
/HV246 (9)
/HV246A (99)
/HV246B (99)
/HV246C (99)
/HV246D (99)
/HV246E (99)
/HV246F (99)
/HV246G (99)
/HV246H (99)
/HV246I (99)
/HV246J (99)
/HV246K (99)
/HV247 (9)
/HV252 (9)
/HV253 (9)
/HV253A (9)
/HV253B (9)
/HV253C (9)
/HV253D (9)
/HV253E (9)
/HV253F (9)
/HV253G (9)
/HV253H (9)
/HV253X (9)
/HV253Z (9)
/HML1 (99)
/HML2 (99)
/SHATYPE (9)
/SHUNHS (9)
/SHILANG (99)
/SHRLANG (99)
/SHTRANS (9)
/SHSTRTH (99)
/SHSTRTM (99)
/SH109A (9)
/SH110C (9)
/SH110H (9)
/SH110I (9)
/SH110J (9)
/SH110K (9)
/SH110L (9)
/SH110M (9)
/SH118G (9)
/SHENDH (99)
/SHENDM (99)

VALUE LABELS

HV025

- 1 "Urban"
- 2 "Rural"

/HV201

- 10 "PIPED WATER"
- 11 "Piped into dwelling"
- 12 "Piped to yard/plot"
- 13 "Public tap/standpipe"
- 20 "TUBE WELL WATER"
- 21 "Tube well or borehole"
- 22 "Borehole in yard/plot"
- 23 "Public borehole"
- 30 "DUG WELL (OPEN/PROTECTED)"
- 31 "Protected well"
- 32 "Unprotected well"
- 33 "Protected well/spring in yard/plot"
- 34 "Protected public well/spring"
- 35 "Unprotected well/spring in yard/plot"
- 36 "Unprotected public well/spring"
- 40 "SURFACE WATER"
- 41 "Protected spring"
- 42 "Unprotected spring"
- 43 "River/dam/lake/ponds/stream/canal/irrigation channel"
- 44 "River/stream"
- 45 "Pond/lake"
- 46 "Dam"
- 51 "Rainwater"
- 61 "Tanker truck"
- 62 "Vendor: Cart with small tank"
- 71 "Bottled water"
- 96 "Other"

/HV202

- 10 "PIPED WATER"
- 11 "Piped into dwelling"
- 12 "Piped to yard/plot"
- 13 "Public tap/standpipe"
- 20 "TUBE WELL WATER"
- 21 "Tube well or borehole"
- 30 "DUG WELL (OPEN/PROTECTED)"
- 31 "Protected well"
- 32 "Unprotected well"
- 40 "SURFACE WATER"
- 41 "Protected spring"
- 42 "Unprotected spring"
- 43 "River/dam/lake/ponds/stream/canal/irrigation channel"
- 51 "Rainwater"
- 61 "Tanker truck"
- 62 "Cart with small tank"
- 71 "Bottled water"
- 96 "Other"


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/HV204
  996 "On premises"
  998 "Don't know"
/HV205
  10 "FLUSH TOILET"
  11 "Flush or pour flush toilet"
  20 "PIT TOILET LATRINE"
  21 "Ventilated Improved Pit latrine (VIP)"
  22 "Covered pit latrine no slab"
  23 "Covered pit latrine with slab"
  24 "Uncovered pit latrine no slab"
  25 "Uncovered pit latrine with slab"
  30 "NO FACILITY"
  31 "No facility/bush/field"
  41 "Composting toilet"
  43 "Hanging toilet/latrine"
  44 "Ecosan"
  96 "Other"
/HV206
  0 "No"
  1 "Yes"
/HV207
  0 "No"
  1 "Yes"
/HV208
  0 "No"
  1 "Yes"
/HV209
  0 "No"
  1 "Yes"
/HV210
  0 "No"
  1 "Yes"
/HV211
  0 "No"
  1 "Yes"
/HV212
  0 "No"
  1 "Yes"
/HV213
  10 "NATURAL"
  11 "Earth/sand"
  12 "Earth and dung"
  20 "RUDIMENTARY"
  30 "FINISHED"
  31 "Parquet or polished wood"
  33 "Mosaic or tiles"
  34 "Bricks"
  35 "Cement"
  36 "Stones"
  96 "OTHER"
/HV214

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10 "NATURAL"
 11 "Thatched/straw"
 20 "RUDIMENTARY"
 21 "Mud and poles"
 22 "Un-burnt bricks"
 23 "Un-burnt bricks and plaster"
 24 "Burnt bricks with mud"
 30 "FINISHED"
 31 "Cement blocks"
 32 "Stone"
 33 "Timber"
 34 "Burnt bricks with cement"
 96 "OTHER"
 /HV215
 10 "NATURAL"
 11 "Thatched"
 12 "Mud"
 20 "RUDIMENTARY"
 21 "Wood/planks"
 22 "Iron sheets"
 23 "Asbestos"
 24 "Tiles"
 25 "Tin"
 26 "Cement"
 30 "FINISHED"
 96 "OTHER"
 /HV217
 0 "No adults"
 1 "One adult"
 2 "Two adults, opposite sex"
 3 "Two adults, same sex"
 4 "Three+ related adults"
 5 "Unrelated adults"
 /HV219
 1 "Male"
 2 "Female"
 /HV220
 95 "95+ "
 98 "Don't know"
 /HV221
 0 "No"
 1 "Yes"
 /HV225
 0 "No"
 1 "Yes"
 /HV226
 1 "Electricity"
 2 "LPG/natural gas"
 4 "Biogas"
 5 "Kerosene"
 6 "Coal, lignite"
 7 "Charcoal"

8 "Wood"
 9 "Straw/shrubs/grass"
 11 "Animal dung"
 95 "No food cooked in house"
 96 "Other"
 /HV227
 0 "No"
 1 "Yes"
 /HV228
 0 "No"
 1 "All children"
 2 "Some children"
 3 "No net in household"
 /HV230A
 1 "Observed"
 2 "Not observed: not in dwelling, yard, plot"
 3 "Not observed: no permission to see"
 4 "Not observed: other reason"
 /HV230B
 0 "Water not available"
 1 "Water is available"
 /HV232
 0 "No"
 1 "Yes"
 /HV232B
 0 "No"
 1 "Yes"
 /HV232C
 0 "No"
 1 "Yes"
 /HV232D
 0 "No"
 1 "Yes"
 /HV232E
 0 "No"
 1 "Yes"
 /HV232Y
 0 "No"
 1 "Yes: no cleansing agent observed"
 /HV234
 0 "0 PPM (no iodine)"
 7 "Below 15 PPM"
 15 "15 PPM and above"
 30 "30 PPM"
 994 "Salt not tested"
 995 "No salt in household"
 /HV234A
 0 "No iodine"
 1 "Iodine present"
 3 "No salt in household"
 6 "Salt not tested"
 /HV235

```
1 "In own dwelling"
2 "In own yard/plot"
3 "Elsewhere"
/HV236
1 "Adult woman"
2 "Adult man"
3 "Female child under 15 years old"
4 "Male child under 15 years old"
6 "Other"
/HV237
0 "No"
1 "Yes"
8 "Don't know"
/HV237A
0 "No"
1 "Yes"
8 "Don't know"
/HV237B
0 "No"
1 "Yes"
8 "Don't know"
/HV237C
0 "No"
1 "Yes"
8 "Don't know"
/HV237D
0 "No"
1 "Yes"
8 "Don't know"
/HV237E
0 "No"
1 "Yes"
8 "Don't know"
/HV237F
0 "No"
1 "Yes"
8 "Don't know"
/HV237G
0 "No"
1 "Yes"
8 "Don't know"
/HV237H
0 "No"
1 "Yes"
8 "Don't know"
/HV237I
0 "No"
1 "Yes"
8 "Don't know"
/HV237J
0 "No"
1 "Yes"
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8 "Don't know"
 /HV237K
 0 "No"
 1 "Yes"
 8 "Don't know"
 /HV237X
 0 "No"
 1 "Yes"
 8 "Don't know"
 /HV237Z
 0 "No"
 1 "Yes: don't know what is done to water"
 8 "Don't know"
 /HV238
 95 "10 or more households"
 98 "Don't know"
 /HV239
 1 "Open fire"
 2 "Open stove"
 3 "Closed stove with chimney"
 6 "Other"
 /HV240
 0 "Neither chimney or hood"
 1 "Chimney"
 2 "Hood"
 /HV241
 1 "In the house"
 2 "In a separate building"
 3 "Outdoors"
 6 "Other"
 /HV242
 0 "No"
 1 "Yes"
 /HV243A
 0 "No"
 1 "Yes"
 /HV243B
 0 "No"
 1 "Yes"
 /HV243C
 0 "No"
 1 "Yes"
 /HV243D
 0 "No"
 1 "Yes"
 /HV244
 0 "No"
 1 "Yes"
 /HV245
 380 "38 or more hectares"
 998 "Unknown"
 /HV246

0 "No"
1 "Yes"
/HV246A
0 "None"
95 "95 or more"
98 "Unknown"
/HV246B
0 "None"
95 "95 or more"
98 "Unknown"
/HV246C
0 "None"
95 "95 or more"
98 "Unknown"
/HV246D
0 "None"
95 "95 or more"
98 "Unknown"
/HV246E
0 "None"
95 "95 or more"
98 "Unknown"
/HV246F
0 "None"
95 "95 or more"
98 "Unknown"
/HV246G
0 "None"
95 "95 or more"
98 "Unknown"
/HV246H
0 "None"
95 "95 or more"
98 "Unknown"
/HV246I
0 "None"
95 "95 or more"
98 "Unknown"
/HV246J
0 "None"
95 "95 or more"
98 "Unknown"
/HV246K
0 "None"
95 "95 or more"
98 "Unknown"
/HV247
0 "No"
1 "Yes"
/HV252
0 "Never"
1 "Daily"

2 "Weekly"
3 "Monthly"
4 "Less than monthly"
/HV253
0 "No"
1 "Yes"
8 "Don't know"
/HV253A
0 "No"
1 "Yes"
8 "Don't know"
/HV253B
0 "No"
1 "Yes"
8 "Don't know"
/HV253C
0 "No"
1 "Yes"
8 "Don't know"
/HV253D
0 "No"
1 "Yes"
8 "Don't know"
/HV253E
0 "No"
1 "Yes"
8 "Don't know"
/HV253F
0 "No"
1 "Yes"
8 "Don't know"
/HV253G
0 "No"
1 "Yes"
8 "Don't know"
/HV253H
0 "No"
1 "Yes"
8 "Don't know"
/HV253X
0 "No"
1 "Yes"
8 "Don't know"
/HV253Z
0 "No"
1 "Yes: don't know who sprayed the dwelling"
8 "Don't know if it was sprayed"
/HV270
1 "Poorest"
2 "Poorer"
3 "Middle"
4 "Richer"

5 "Richest"
 /HML1
 98 "Don't know"
 /SHTYPE
 1 "Urban"
 2 "Semi-urban"
 3 "Rural"
 /SHELIGDV
 0 "No"
 1 "Female"
 2 "Male"
 /SHUNHS
 1 "Yes"
 2 "No"
 /SHSRTYPE
 1 "DHS"
 2 "Maternal mortality"
 /SHQLANG
 1 "Ateso"
 2 "Luganda"
 3 "Lugbara"
 4 "Luo"
 5 "Runyankole-rukiga"
 6 "Runyoro-rutoto"
 7 "Ngakaramojong"
 8 "English"
 96 "Other"
 /SHILANG
 1 "Ateso"
 2 "Luganda"
 3 "Lugbara"
 4 "Luo"
 5 "Runyankole-rukiga"
 6 "Runyoro-rutoto"
 7 "Ngakaramojong"
 8 "English"
 96 "Other"
 /SHRLANG
 1 "Ateso"
 2 "Luganda"
 3 "Lugbara"
 4 "Luo"
 5 "Runyankole-rukiga"
 6 "Runyoro-rutoto"
 7 "Ngakaramojong"
 8 "English"
 9 "Japadhola"
 10 "Kumam"
 11 "Lugishu"
 12 "Lugwere"
 13 "Lusamia"
 14 "Lusoga"


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    15 "Madi"
    16 "Rufumbira"
    17 "Runyarwande"
    96 "Other"
  /SHTRANS
    1 "Not at all"
    2 "Sometimes"
    3 "All the time"
  /SH109A
    0 "No"
    1 "Yes"
  /SH110C
    0 "No"
    1 "Yes"
  /SH110H
    0 "No"
    1 "Yes"
  /SH110I
    0 "No"
    1 "Yes"
  /SH110J
    0 "No"
    1 "Yes"
  /SH110K
    0 "No"
    1 "Yes"
  /SH110L
    0 "No"
    1 "Yes"
  /SH110M
    0 "No"
    1 "Yes"
  /SH118G
    0 "No"
    1 "Yes"
  /SHENDH
    97 "Inconsistent"
  /SHENDM
    97 "Inconsistent"
.
EXECUTE.

**** -----> This index construction uses the factors score
coefficients and cutpoints of the Uganda 2011 AIS wealth score.

*{Construct Variables}.

*{Members per sleeping room}.
if (hv012=0) hv012=hv013.
if (hv216>0) memsleep=trunc(hv012/hv216).
if (hv216=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 (hv201=11) h2oires=1.
var labels h2oires "Piped into dwelling".
compute h2oyrd=0.
if (hv201=12) h2oyrd=1.
var labels h2oyrd "Piped into yard/plot".
compute h2opub=0.
if (hv201=13) h2opub=1.
var labels h2opub "Communal tap".

compute h2obore=0.
if (hv201=21) h2obore=1.
var labels h2obore "Borehole/tube well".
compute h2obory=0.
if (hv201=22) h2obory=1.
var labels h2obory "Borehole/tube well in yard/plot".
compute h2oborp=0.
if (hv201=23) h2oborp=1.
var labels h2oborp "Public borehole/tube well".

compute h2opwel=0.
if (hv201=31) h2opwel=1.
var labels h2opwel "Protected well".
compute h2iowel=0.
if (hv201=32) h2iowel=1.
var labels h2iowel "Unprotected well".
compute h2opwely=0.
if (hv201=33) h2opwely=1.
var labels h2opwely "Protected well/spring in yard/plot".
compute h2opwelp=0.
if (hv201=34) h2opwelp=1.
var labels h2opwelp "Public protected well/spring".
compute h2iowely=0.
if (hv201=35) h2iowely=1.
var labels h2iowely "Unprotected well in yard/plot".
compute h2owelp=0.
if (hv201=36) h2owelp=1.
var labels h2owelp "Public unprotected well".

compute h2opspg=0.
if (hv201=41) h2opspg=1.
var labels h2opspg "Protected spring".
compute h2ouspg=0.
if (hv201=42) h2ouspg=1.

```

var labels h2ouspg "Unprotected spring".
compute h2osurf=0.
if (hv201>=43 and hv201<=46) h2osurf=1.
var labels h2osurf "Surface water-river, lake, dam, etc.".
compute h2orain=0.
if (hv201=51) h2orain=1.
var labels h2orain "Water from rain".
compute h2otruck=0.
if (hv201=61) h2otruck=1.
var labels h2otruck "Water from tanker truck".
compute h2ovend=0.
if (hv201=62) h2ovend=1.
var labels h2ovend "Water from vendor".
compute h2obot=0.
if (hv201=71) h2obot=1.
var labels h2obot "Bottled water".

compute h2ooth=0.
if (hv201=96) h2ooth=1.
var labels h2ooth "Other water source".

*{Toilet facility}.
compute flushs=0.
if (hv205=11) flushs=1.
var labels flushs "Flush or pour flush toilet".

compute latvip=0.
if (hv205=21) latvip=1.
var labels latvip "VIP latrine".
compute clatpit=0.
if (hv205=22) clatpit=1.
var labels clatpit "Covered pit latrine with no slab".
compute clatpits=0.
if (hv205=23) clatpits=1.
var labels clatpits "Covered pit latrine with slab".
compute latpit=0.
if (hv205=24) latpit=1.
var labels latpit "Uncovered pit latrine with no slab".
compute latpits=0.
if (hv205=25) latpits=1.
var labels latpits "Uncovered pit latrine with slab".
compute latcomp=0.
if (hv205=41) latcomp=1.
var labels latcomp 'Composting toilet/ecosan'.
compute latpail=0.
if (hv205=42) latpail=1.
var labels latpail 'Bucket toilet'.
compute lathang=0.
if (hv205=43) lathang=1.
var labels lathang 'Hanging toilet'.
compute lateco=0.
if (hv205=44) lateco=1.

```

```

var labels lateco 'Ecosan toilet'.

compute latbush=0.
if (hv205=31) latbush=1.
var labels latbush "No facility/bush/field".
compute latoth=0.
if (hv205=96) latoth=1.
var labels latoth 'Other type of latrine/toilet'.

compute latshare=0.
if (hv225=1) latshare=1.
var labels latshare 'Shares latrine/toilet with other
households'.

*{Flooring}.
compute dirtfloo=0.
if (hv213=11 or hv213=12) dirtfloo=1.
var labels dirtfloo "Earth, sand, dung floor".
compute rudfloo=0.
if (hv213=20) rudfloo=1.
var labels rudfloo "Rudimentary floor".
compute prqfloo=0.
if (hv213=31) prqfloo=1.
var labels prqfloo "Polished wood floor".
compute tilefloo=0.
if (hv213=33) tilefloo=1.
var labels tilefloo "Ceramic tile floor".
compute brkfloo=0.
if (hv213=34) brkfloo=1.
var labels brkfloo "Brick floor".
compute centfloo=0.
if (hv213=35) centfloo=1.
var labels centfloo "Cement floor".
compute stonfloo=0.
if (hv213=36) stonfloo=1.
var labels stonfloo "Stone floor".
compute othfloo=0.
if (hv213=96) othfloo=1.
var labels othfloo "Other type of flooring".

*{Walls}.
compute natwall=0.
if (hv214=11) natwall=1.
var labels natwall "Grass/thatch/mud walls".
compute mudwall=0.
if (hv214=21) mudwall=1.
var labels mudwall "Mud and poles walls".
compute adobwall=0.
if (hv214=22) adobwall=1.
var labels adobwall "Unburnt brick walls".
compute cadobwall=0.

```

```

if (hv214=23) cadobwall=1.
var labels cadobwall "Unburnt bricks and plaster walls".
compute brkwall=0.
if (hv214=24) brkwall=1.
var labels brkwall "Baked brick walls with mud".
compute cmtwall=0.
if (hv214=31) cmtwall=1.
var labels cmtwall "Cement block walls".
compute stonwall=0.
if (hv214=32) stonwall=1.
var labels stonwall "Stone walls".
compute woodwall=0.
if (hv214=33) woodwall=1.
var labels woodwall "Timber, wood walls".
compute brkcwall=0.
if (hv214=34) brkcwall=1.
var labels brkcwall "Baked brick walls with cement".
compute othwall=0.
if (hv214=96) othwall=1.
var labels othwall "Other type of walls".

*{Roofing}.
compute natroof=0.
if (hv215=11 or hv215=12) natroof=1.
var labels natroof "Grass/thatch/mud roof".
compute rudroof=0.
if (hv215=20) rudroof=1.
var labels rudroof "Rudimentary roof".
compute woodroof=0.
if (hv215=21) woodroof=1.
var labels woodroof "Wood/planks roof".
compute metroof=0.
if (hv215=22) metroof=1.
var labels metroof "Iron sheet roof".
compute asbroof=0.
if (hv215=23) asbroof=1.
var labels asbroof "Asbestos roof".
compute tileroof=0.
if (hv215=24) tileroof=1.
var labels tileroof "Tile roof".
compute tinroof=0.
if (hv215=25) tinroof=1.
var labels tinroof "Tin roof".
compute cmtroof=0.
if (hv215=26) cmtroof=1.
var labels cmtroof "Cement (concrete) roof".
compute othroof=0.
if (hv215=96) othroof=1.
var labels othroof "Other type of roof".

*{Cooking Fuel}.
compute cookelec=0.

```

```

if (hv226=1) cookelec=1.
var labels cookelec "Electricity for cooking".
compute cookgas=0.
if (hv226=2 or hv225=3) cookgas=1.
var labels cookgas "LPG, natural gas for cooking".
compute cookbio=0.
if (hv226=4) cookbio=1.
var labels cookbio "Biogas for cooking".
compute cookkero=0.
if (hv226=5) cookkero=1.
var labels cookkero "Kerosene for cooking".
compute cookcoal=0.
if (hv226=6) cookcoal=1.
var labels cookcoal "Coal/lignite for cooking".
compute cookchar=0.
if (hv226=7) cookchar=1.
var labels cookchar "Charcoal for cooking".
compute cookwood=0.
if (hv226=8) cookwood=1.
var labels cookwood "Wood for cooking".
compute cookstraw=0.
if (hv226=9) cookstraw=1.
var labels cookstraw "Straw, shrubs, grass for cooking".
compute cookcrop=0.
if (hv226=10) cookcrop=1.
var labels cookcrop "Agric. residue for cooking".
compute cookdung=0.
if (hv226=11) cookdung=1.
var labels cookdung "Dung for cooking".
compute cooknone=0.
if (hv226=95) cooknone=1.
var labels cooknone 'Does not cook'.
compute cookoth=0.
if (hv226=96) cookoth=1.
var labels cookoth "Other fuel for cooking".

*{Reset missing values to "does not have", change 2 code to 0}.
if (hv206<>1) hv206=0.
if (hv207<>1) hv207=0.
if (hv208<>1) hv208=0.
if (hv209<>1) hv209=0.
if (hv210<>1) hv210=0.
if (hv211<>1) hv211=0.
if (hv212<>1) hv212=0.

if (hv243a<>1) hv243a=0.
if (hv243b<>1) hv243b=0.
if (hv243c<>1) hv243c=0.
if (hv243d<>1) hv243d=0.

* Country-specific items.
if (sh110c<>1) sh110c=0.

```

```
if (sh110h<>1) sh110h=0.
if (sh110i<>1) sh110i=0.
if (sh110j<>1) sh110j=0.
if (sh110k<>1) sh110k=0.
if (sh110l<>1) sh110l=0.
if (sh110m<>1) sh110m=0.
if (sh118g<>1) sh118g=0.
```

```
* Farmland.
```

```
if (hv244=0) hv245=0.
```

```
*set out of range codes to unknown-missing.
```

```
if (hv245>950) hv245=999.
```

```
missing values hv245(999).
```

```
*Farm animals.
```

```
if (hv246=0) hv246a=0.
```

```
if (hv246=0) hv246c=0.
```

```
if (hv246=0) hv246d=0.
```

```
if (hv246=0) hv246e=0.
```

```
if (hv246=0) hv246f=0.
```

```
if (hv246=0) hv246g=0.
```

```
if (hv246=0) hv246h=0.
```

```
execute.
```

```
FILTER OFF.
```

```
USE ALL.
```

```
SELECT IF (SHSRTYPE = 1).
```

```
EXECUTE.
```

```
weight off.
```

```
FREQUENCIES VARIABLES=HV025 HV201 HV205 HV206 HV207 HV208 HV209
HV210 HV211 HV212 HV213 HV214 HV215
HV216 HV221 HV225 HV226 HV243A HV243B HV243C HV243D HV244
HV245 HV246 HV246A HV246B HV246C HV246D
HV246E HV246F HV246G HV246H HV246I HV246J HV246K HV247 SH110C
SH110H SH110I SH110J SH110K SH110L
SH110M SH118G DOMESTIC HOUSE LAND
/ORDER=ANALYSIS.
FREQUENCIES VARIABLES=memsleep h2oires h2oyrd h2opub h2obory
h2oborp
h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
```

```
othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkwall
othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
/ORDER=ANALYSIS.
```

```
save outfile="C:\HNP2A\UGANDA 2011 AIS AND DHS\UGANDA DHS 2011
\ugdhs2011.sav".
```

```
*****.
** Do factor analysis to check on valid variables.
```

```
FACTOR
/VARIABLES HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
HV243A HV243B HV243C HV243D
  HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
HV246H
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkwall
othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
/MISSING MEANSUB
/ANALYSIS HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
HV243A HV243B HV243C HV243D
  HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
HV246H
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkwall
othwall natroof woodroof
```



```

metroof asbroof tileroof tinroof cmtroof othroof cookelec
cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
/PRINT UNIVARIATE EXTRACTION
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/METHOD=CORRELATION.

```

** Common factor analysis.

FACTOR

```

/VARIABLES HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
HV243A HV243B HV243C HV243D
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G memsleep h2oires h2oyrd h2opub h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkwall
othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
/MISSING MEANSUB
/ANALYSIS HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
HV243A HV243B HV243C HV243D
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G memsleep h2oires h2oyrd h2opub h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkwall
othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
/PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/SAVE REG(ALL com)
/METHOD=CORRELATION.

```

** Urban Area

```

USE ALL.
COMPUTE filter_$=(hv025 = 1).
VARIABLE LABEL filter_$ 'hv025 = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .

WEIGHT
  OFF.

FACTOR
  /VARIABLES HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
  HV243A HV243B HV243C HV243D
  HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
  HV246H
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
  h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
  h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
  latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
  othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkcwall
  othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
  cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
  /MISSING MEANSUB
  /ANALYSIS HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
  HV243A HV243B HV243C HV243D
  HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
  HV246H
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
  h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
  h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
  latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
  othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkcwall
  othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
  cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
  /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_$(hv025 = 2).
VARIABLE LABEL filter_$ 'hv025 = 2 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .

FACTOR
/VARIABLES HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
HV243A HV243B HV243C HV243D
HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
HV246H
SH110C SH110H SH110I SH110J SH110K SH110L
SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obory h2oborp
h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
othfloo natwall mudwall
adobwall cadobwall brkwall cmtwall stonwall woodwall brkcwall
othwall natroof woodroof
metroof asbroof tinroof cmtroof othroof cookelec cookgas
cookkero
cookchar cookwood cookstraw cooknone cookoth
/MISSING MEANSUB
/ANALYSIS HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221
HV243A HV243B HV243C HV243D
HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
HV246H
SH110C SH110H SH110I SH110J SH110K SH110L
SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obory h2oborp
h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
latshare dirtfloo prqfloo tilefloo brkfloo cemtfloo stonfloo
othfloo natwall mudwall
adobwall cadobwall brkwall cmtwall stonwall woodwall brkcwall
othwall natroof woodroof
metroof asbroof tinroof cmtroof othroof cookelec cookgas
cookkero

```

```

    cookchar cookwood cookstraw cooknone cookoth
/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 areas.
USE ALL.
COMPUTE filter_$=(hv025 = 1).
VARIABLE LABEL filter_$ 'hv025 = 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 areas.
USE ALL.
COMPUTE filter_$=(hv025 = 2).
VARIABLE LABEL filter_$ 'v025 = 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 comb scor=0.
** Urban.
if (hv025 eq 1) comb scor=1.070+0.941* URB1.
** Rural.
if (hv025 eq 2) comb scor=(-0.421)+0.638* RUR1.
execute.

*Calculate quintiles and scores for data file.

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

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

FREQUENCIES
  VARIABLES=comb scor /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN MODE SKEWNESS
  SESKEW
  KURTOSIS SEKURT
  /ORDER= ANALYSIS .

frequencies variables=ncomb sco.

** Urban areas.
USE ALL.
COMPUTE filter_$(hv025 = 1).
VARIABLE LABEL filter_$(hv025 = 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 areas.
USE ALL.
COMPUTE filter_$(hv025 = 2).
VARIABLE LABEL filter_$(hv025 = 1 (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 .

compute hhwt=hhwt/1000000.
weight by hhwt.
VARIABLE LABELS hhwt 'HH weights' .
MEANS
  TABLES= HV206 HV207 HV208 HV209 HV210 HV211 HV212 HV221 HV243A
HV243B HV243C HV243D
  HV244 HV245 HV246 HV246A HV246C HV246D HV246E HV246F HV246G
HV246H
  SH110C SH110H SH110I SH110J SH110K SH110L
  SH110M SH118G HOUSE LAND memsleep h2oires h2oyrd h2opub
h2obory h2oborp
  h2opwely h2opwelp h2iowely h2owelp h2osurf h2orain h2otruck
h2ovend h2obot h2ooth
  flushs latvip clatpit clatpits latpits latcomp lateco latbush
latoth
  latshare dirtfloo prqfloo tilefloo brkfloo cemtffloo stonfloo
othfloo natwall mudwall
  adobwall cadobwall brkwall cmtwall stonwall woodwall brkwall
othwall natroof woodroof
  metroof asbroof tileroof tinroof cmtroof othroof cookelec
cookgas cookbio cookkero
  cookchar cookwood cookstraw cooknone cookoth
BY ncombsco
  /CELLS MEAN COUNT STDDEV .

compute hv271=combscor.
compute hv270=ncombsco.

save outfile="C:\HNP2A\UGANDA 2011 AIS AND DHS\UGANDA DHS 2011
\ugdhs2011.sav".

WEIGHT
  OFF.
FREQUENCIES
  VARIABLES=hhwt
  /ORDER= ANALYSIS .

compute hhwt=hhwt/1000000.
weight by hhwt.

GRAPH
  /HISTOGRAM(NORMAL)=combscor
  /TITLE= 'Distribution of Households by Wealth Scores Uganda DHS
2011'.
FREQUENCIES
  VARIABLES=combscor /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM SEMEAN MEAN MEDIAN MODE
SKEWNESS SESKEW

```

```
KURTOSIS SEKURT
/ORDER= ANALYSIS .

**** set output formats.
formats comb Scor, urb1, rur1 (f11.5).

weight off.
WRITE OUTFILE='C:\HNP2A\UGANDA 2011 AIS AND DHS\UGANDA DHS 2011
\ugdhs11scores.dat'
TABLE
/hv001 hv002 comb Scor ncombsco urb1 nurb1 rur1 nrur1 .
EXECUTE.

*****.
```