

DATA LIST FILE='C:\HNP2A\ETHIOPIA 2010\EXPORTEDET10' RECORDS=1

/

QHCLUST	1-3	
QHNUMBER	4-6	
QHWHEIGHT	7-14	
QHTYPE	15-15	
HV009	16-18	
HV012	19-21	
HV013	22-24	
QH101	25-25	
QH102	26-27	
QH102A	28-29	
QH103	30-30	
QH104	31-33	
QH104A	34-34	
QH105	35-35	
QH106	36-42	(A)
QH107	43-44	
QH108	45-45	
QH109	46-47	
QH110A	48-48	
QH110B	49-49	
QH110C	50-50	
QH110D	51-51	
QH110E	52-52	
QH110F	53-53	
QH110G	54-54	
QH110H	55-55	
QH110I	56-56	
QH110J	57-57	
QH110K	58-58	
QH110L	59-59	
QH111	60-61	
QH112	62-62	
QH113	63-63	
QH114	64-65	
QH115	66-67	
QH116	68-69	
QH117	70-71	
QH118A	72-72	
QH118B	73-73	
QH118C	74-74	
QH118D	75-75	
QH119	76-76	
QH120	77-80	(1)
QH121	81-81	
QH122A	82-83	
QH122B	84-85	
QH122C	86-87	
QH122D	88-89	
QH122E	90-91	
QH122F	92-93	

QH122G	94-95
QH123	96-96
QH124	97-97
QH125	98-98
QH126	99-101 (A)
QH127	102-102
DOMESTIC	103-103
HOUSE	104-104
LAND	105-105

VARIABLE LABELS

QHCLUST	"Cluster number"
/QHNUMBER	"Household number"
/QHWHEIGHT	"Household weight (6 decimals)"
/QHATYPE	"Type of place of residence"
/HV009	"Total persons in household"
/HV012	"Number of usual residents"
/HV013	"Number who slept in HH last night"
/QH101	"Frequency of smoking inside house"
/QH102	"Source of drinking water"
/QH102A	"Source of non-drinking water"
/QH103	"Location of source for water"
/QH104	"Time to water and back (mins)"
/QH104A	"Person fetching water"
/QH105	"Do anything to water to make safe to drink"
/QH106	"What do you usually do to make water safe to drink"
/QH107	"Type of toilet facility"
/QH108	"Share facilities with other households"
/QH109	"Number of households sharing toilet"
/QH110A	"Electricity"
/QH110B	"Watch/Clock"
/QH110C	"Radio"
/QH110D	"Television"
/QH110E	"Mobile telephone"
/QH110F	"Telephone (non-mobile)"
/QH110G	"Refrigerator"
/QH110H	"Table"
/QH110I	"Chair"
/QH110J	"Bed with cotton/sponge/spring mattress"
/QH110K	"Electric mitad"
/QH110L	"Kerosene lamp/pressure lamp"
/QH111	"Type of cooking fuel"
/QH112	"Food cooked in the house / in separate building / outdoors"
/QH113	"Household has separate room used as kitchen"
/QH114	"Main material of floor"
/QH115	"Main roof material"
/QH116	"Main wall material"
/QH117	"Number of rooms used for sleeping"
/QH118A	"Bicycle"
/QH118B	"Motorcycle or Scooter"
/QH118C	"Animal-drawn cart"

/QH118D "Car or Truck"
 /QH119 "Own land usable for agriculture"
 /QH120 "Hectares for agricultural land"
 /QH121 "Livestock, herds or farm animals"
 /QH122A "Cattle"
 /QH122B "Horses / donkeys / mules"
 /QH122C "Camels"
 /QH122D "Goats"
 /QH122E "Sheep"
 /QH122F "Chickens"
 /QH122G "Beehives"
 /QH123 "Bank account"
 /QH124 "Place for handwashing observed"
 /QH125 "Presence of water observed"
 /QH126 "Presence of soap, detergent or other cleansing agent
 observed"
 /QH127 "Test salt for Iodine"
 /DOMESTIC "Domestic servant in household"
 /HOUSE "Owns a dwelling"
 /LAND "Owns agricultural land"

MISSING VALUE

QH101 (9)
 /QH102 (99)
 /QH102A (99)
 /QH103 (9)
 /QH104 (999)
 /QH104A (9)
 /QH105 (9)
 /QH107 (99)
 /QH108 (9)
 /QH109 (99)
 /QH110A (9)
 /QH110B (9)
 /QH110C (9)
 /QH110D (9)
 /QH110E (9)
 /QH110F (9)
 /QH110G (9)
 /QH110H (9)
 /QH110I (9)
 /QH110J (9)
 /QH110K (9)
 /QH110L (9)
 /QH111 (99)
 /QH112 (9)
 /QH113 (9)
 /QH114 (99)
 /QH115 (99)
 /QH116 (99)
 /QH117 (99)
 /QH118A (9)

/QH118B (9)
 /QH118C (9)
 /QH118D (9)
 /QH119 (9)
 /QH120 (100)
 /QH121 (9)
 /QH122A (99)
 /QH122B (99)
 /QH122C (99)
 /QH122D (99)
 /QH122E (99)
 /QH122F (99)
 /QH122G (99)
 /QH123 (9)
 /QH124 (9)
 /QH125 (9)
 /QH127 (9)

VALUE LABELS

QHTYPE

- 1 "Urban"
- 2 "Rural"

/QH101

- 1 "Daily"
- 2 "Weekly"
- 3 "Monthly"
- 4 "Less than monthly"
- 5 "Never"

/QH102

- 11 "Piped - into dwelling"
- 12 "Piped - into yard/plot"
- 13 "Piped - public tap / standpipe"
- 21 "Borehole"
- 31 "Dug well - protected"
- 32 "Dug well - unprotected"
- 41 "Spring - protected"
- 42 "Spring - unprotected"
- 51 "Rainwater"
- 61 "Tanker truck"
- 71 "Cart with small tank"
- 81 "Surface water
(river/dam/lake/pond/stream/canal/irrigation channel)"
- 91 "Bottled water"
- 96 "Other"

/QH102A

- 11 "Piped - into dwelling"
- 12 "Piped - into yard/plot"
- 13 "Piped - public tap / standpipe"
- 21 "Borehole"
- 31 "Dug well - protected"
- 32 "Dug well - unprotected"
- 41 "Spring - protected"

42 "Spring - unprotected"
 51 "Rainwater"
 61 "Tanker truck"
 71 "Cart with small tank"
 81 "Surface water
 (river/dam/lake/pond/stream/canal/irrigation channel"
 96 "Other"
 /QH103
 1 "In own dwelling"
 2 "In own yard/plot"
 3 "Elsewhere"
 /QH104
 996 "On premises"
 998 "Don't know"
 /QH104A
 1 "Adult woman"
 2 "Adult man"
 3 "Female child < 15 years"
 4 "Male child < 15 years"
 6 "Other"
 /QH105
 1 "Yes"
 2 "No"
 8 "Don't know"
 /QH106
 'A ' "Boil"
 'B ' "Add bleach/chlorine/water guard/pur/bishan
 gari/aquatabs"
 'C ' "Strain through a cloth"
 'D ' "Use water filter (ceramic/bio sand/composite)"
 'E ' "Solar disinfection"
 'F ' "Let it stand and settle"
 'X ' "Other"
 'Z ' "Don't know"
 /QH107
 11 "Flush - to piped sewer system"
 12 "Flush - to septic tank"
 13 "Flush - to pit latrine"
 14 "Flush - to somewhere else"
 15 "Flush - don't know where"
 21 "Pit latrine - ventilated improved pit (VIP)"
 22 "Pit latrine - with slab"
 23 "Pit latrine - without slab / open pit"
 31 "Composting toilet"
 41 "Bucket toilet"
 51 "Hanging toilet / hanging latrine"
 61 "No facility/bush/field"
 96 "Other"
 /QH108
 1 "Yes"
 2 "No"
 /QH109

95 "10 or more households"
 98 "Don't know"
 /QH110A
 1 "Yes"
 2 "No"
 /QH110B
 1 "Yes"
 2 "No"
 /QH110C
 1 "Yes"
 2 "No"
 /QH110D
 1 "Yes"
 2 "No"
 /QH110E
 1 "Yes"
 2 "No"
 /QH110F
 1 "Yes"
 2 "No"
 /QH110G
 1 "Yes"
 2 "No"
 /QH110H
 1 "Yes"
 2 "No"
 /QH110I
 1 "Yes"
 2 "No"
 /QH110J
 1 "Yes"
 2 "No"
 /QH110K
 1 "Yes"
 2 "No"
 /QH110L
 1 "Yes"
 2 "No"
 /QH111
 1 "Electricity"
 2 "LPG"
 3 "Natural gas"
 4 "Biogas"
 5 "Kerosene"
 6 "Charcoal"
 7 "Wood"
 8 "Straw / shrubs / grass"
 9 "Agricultural crop"
 10 "Animal dung"
 95 "No food cooked in HH"
 96 "Other"
 /QH112

1 "In the house"
 2 "In a separate building"
 3 "Outdoors"
 6 "Other"
 /QH113
 1 "Yes"
 2 "No"
 /QH114
 11 "Earth, sand"
 12 "Dung"
 21 "Wood planks"
 22 "Palm, bamboo"
 31 "Parquet, polished wood"
 32 "Vinyl, asphalt strips"
 33 "Ceramic tiles"
 34 "Cement"
 35 "Carpet"
 96 "Other"
 /QH115
 11 "No roof"
 12 "Thatch / palm leaf / mud"
 21 "Rustic mat"
 22 "Reed / bamboo"
 23 "Wood planks"
 24 "Cardboard"
 31 "Corrugate iron / metal"
 32 "Wood"
 33 "Asbestos / cement fiber"
 34 "Cement / concrete"
 35 "Roofing shingles"
 96 "Other"
 /QH116
 11 "No walls"
 12 "Cane / trunks / bamboo / reed"
 13 "Dirt"
 21 "Bamboo / wood with mud"
 22 "Stone with mud"
 23 "Uncovered adobe"
 24 "Plywood"
 25 "Cardboard"
 26 "Reused wood"
 31 "Cement"
 32 "Stone with lime / cement"
 33 "Bricks"
 34 "Cement blocks"
 35 "Covered adobe"
 36 "Wood planks / shingles"
 96 "Other"
 /QH118A
 1 "Yes"
 2 "No"
 /QH118B

1 "Yes"
 2 "No"
 /QH118C
 1 "Yes"
 2 "No"
 /QH118D
 1 "Yes"
 2 "No"
 /QH119
 1 "Yes"
 2 "No"
 /QH120
 95.0 "More than 95"
 99.8 "Unknown"
 /QH121
 1 "Yes"
 2 "No"
 /QH122A
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH122B
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH122C
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH122D
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH122E
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH122F
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH122G
 0 "None"
 95 "95 or more"
 98 "Unknown"
 /QH123
 1 "Yes"
 2 "No"
 /QH124
 1 "Observed"
 2 "Not observed, not in dwelling / yard / plot"
 3 "Not observed, no permission to see"


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        4 "Not observed, other reason"
/QH125
        1 "Water is available"
        2 "Water is not available"
/QH126
'A ' "Soap or detergent (bar, liquid, powder, paste)"
'B ' "Ash, mud, sand"
'C ' "None"
/QH127
        1 "Iodine present"
        2 "No iodine"
        3 "No salt in household"
        6 "Salt not tested"

```

.

EXECUTE.

*{Construct Variables}.

*{Members per sleeping room}.

```

if (hv012=0) hv012=hv013.
if (qh117>0) memsleep=trunc(hv012/qh117).
if (qh117=0) memsleep=hv012.
if (memsleep>=98) memsleep=98.

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VARIABLE LABELS

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MEMSLEEP "Number of members per sleeping room".
value labels memsleep 0 'Less than 1 per room'.

```

*{Drinking water supply}.

```

compute h2oires=0.
if (qh102=11) h2oires=1.
var labels h2oires "Piped into dwelling".
compute h2oyrd=0.
if (qh102=12) h2oyrd=1.
var labels h2oyrd "Piped into yard/plot".
compute h2opub=0.
if (qh102=13) h2opub=1.
var labels h2opub "Public tap / standpipe".
compute h2obwell=0.
if (qh102=21) h2obwell=1.
var labels h2obwell "Tube well or borehole".
compute h2ipwell=0.
if (qh102=31) h2ipwell=1.
var labels h2ipwell "Protected dug well".
compute h2iowell=0.
if (qh102=32) h2iowell=1.
var labels h2iowell "Unprotected dug well".
compute h2opspg=0.
if (qh102=41) h2opspg=1.
var labels h2opspg "Protected Spring".
compute h2ouspg=0.
if (qh102=42) h2ouspg=1.

```

```

var labels h2ouspg "Unprotected Spring".
compute h2orain=0.
if (qh102=51) h2orain=1.
var labels h2orain "Water from rain".
compute h2otruck=0.
if (qh102=61) h2otruck=1.
var labels h2otruck "Water from tanker truck".
compute h2ocart=0.
if (qh102=71) h2ocart=1.
var labels h2ocart "Water from cart with small tank".
compute h2osurf=0.
if (qh102=81) h2osurf=1.
var labels h2osurf "Surface water-river, lake, dam, etc.".
compute h2obot=0.
if (qh102=91) h2obot=1.
var labels h2obot "Water from bottle".
compute h2ooth=0.
if (qh102=96) h2ooth=1.
var labels h2ooth "Other water source".

*{Toilet facility}.
compute flushs=0.
if (qh107=11) flushs=1.
var labels flushs "Flush toilet to sewer".
compute flusht=0.
if (qh107=12) flusht=1.
var labels flusht "Flush toilet to septic tank".
compute flushp=0.
if (qh107=13) flushp=1.
var labels flushp "Flush toilet to pit latrine".
compute flushe=0.
if (qh107=14 or qh107=15) flushe=1.
var labels flushe "Flush toilet to elsewhere".
compute latvip=0.
if (qh107=21) latvip=1.
var labels latvip "VIP latrine".
compute latpits=0.
if (qh107=22) latpits=1.
var labels latpits "Pit latrine with slab".
compute latpit=0.
if (qh107=23) latpit=1.
var labels latpit "Traditional pit latrine".
compute latcomp=0.
if (qh107=31) latcomp=1.
var labels latcomp 'Composting toilet/ecosan'.
compute latpail=0.
if (qh107=41) latpail=1.
var labels latpail 'Bucket toilet'.
compute lathang=0.
if (qh107=51) lathang=1.
var labels lathang 'Hanging toilet/latrine'.
compute latbush=0.

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if (qh107=61) latbush=1.
var labels latbush "No facility/bush/field".
compute latoth=0.
if (qh107=96) latoth=1.
var labels latoth 'Other type of latrine/toilet'.

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

*{Flooring}.
compute dirtfloo=0.
if (qh114=11 or qh114=12) dirtfloo=1.
var labels dirtfloo "Earth, sand, dung floor".
compute woodfloo=0.
if (qh114=21 or qh114=22) woodfloo=1.
var labels woodfloo "Rudimentary wood plank, palm, bamboo floor".
compute prqfloo=0.
if (qh114=31) prqfloo=1.
var labels prqfloo "Polished wood floor".
compute vinlfloo=0.
if (qh114=32) vinlfloo=1.
var labels vinlfloo "Vinyl, asphalt strip floor".
compute tilefloo=0.
if (qh114=33) tilefloo=1.
var labels tilefloo "Ceramic tile floor".
compute centfloo=0.
if (qh114=34) centfloo=1.
var labels centfloo "Cement floor".
compute rugfloo=0.
if (qh114=35) rugfloo=1.
var labels rugfloo "Carpeted floor".
compute othfloo=0.
if (qh114=96) othfloo=1.
var labels othfloo "Other type of flooring".

*{Walls}.
compute nowall=0.
if (qh116=11) nowall=1.
var labels nowall "No walls".
compute natwall=0.
if (qh116=12 or qh116=13) natwall=1.
var labels natwall "Cane/palm/trunks/dirt walls".
compute mudwall=0.
if (qh116=21) mudwall=1.
var labels mudwall "Bamboo with mud walls".
compute stonwall=0.
if (qh116=22) stonwall=1.
var labels stonwall "Stone with mud walls".
compute adobwall=0.

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if (qh116=23) adobwall=1.
var labels adobwall "Uncovered adobe walls".
compute plywall=0.
if (qh116=24) plywall=1.
var labels plywall "Plywood walls".
compute cardwall=0.
if (qh116=25) cardwall=1.
var labels cardwall "Cardboard walls".
compute rwoodwall=0.
if (qh116=26) rwoodwall=1.
var labels rwoodwall "Reused wood walls".
compute cmtwall=0.
if (qh116=31) cmtwall=1.
var labels cmtwall "Cement walls".
compute stonwall=0.
if (qh116=32) stonwall=1.
var labels stonwall "Stone walls with lime/cement".
compute brkwall=0.
if (qh116=33) brkwall=1.
var labels brkwall "Baked brick walls".
compute cmtbwall=0.
if (qh116=34) cmtbwall=1.
var labels cmtbwall "Cement block walls".
compute cadobwall=0.
if (qh116=35) cadobwall=1.
var labels cadobwall "Covered adobe walls".
compute woodwall=0.
if (qh116=36) woodwall=1.
var labels woodwall "Wood planks, shingles walls".
compute othwall=0.
if (qh116=96) othwall=1.
var labels othwall "Other type of walls".

*{Roofing}.
compute noroof=0.
if (qh115=11) noroof=1.
var labels noroof "No roof".
compute natroof=0.
if (qh115=12) natroof=1.
var labels natroof "Thatch/palm/sod roof".
compute matroof=0.
if (qh115=21) matroof=1.
var labels matroof "Rustic mat / plastic roof".
compute bambroof=0.
if (qh115=22) bambroof=1.
var labels bambroof "Reed / bamboo roof".
compute wproof=0.
if (qh115=23) wproof=1.
var labels wproof "Wood planks roof".
compute cardroof=0.
if (qh115=24) cardroof=1.
var labels cardroof "Cardboard roof".

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compute metroof=0.
if (qh115=31) metroof=1.
var labels metroof "Iron sheet roof".
compute woodroof=0.
if (qh115=32) woodroof=1.
var labels woodroof "Wood roof".
compute asbroof=0.
if (qh115=33) asbroof=1.
var labels asbroof "Asbestos / cement fiber roof".
compute cmtroof=0.
if (qh115=34) cmtroof=1.
var labels cmtroof "Concrete roof".
compute shngroof=0.
if (qh115=35) shngroof=1.
var labels shngroof "Roofing shingles roof".
compute othroof=0.
if (qh115=96) othroof=1.
var labels othroof "Other type of roof".

*{Cooking Fuel}.
compute cookelec=0.
if (qh111=1) cookelec=1.
var labels cookelec "Electricity for cooking".
compute cooklpg=0.
if (qh111=2) cooklpg=1.
var labels cooklpg "LPG for cooking".
compute cookgas=0.
if (qh111=3) cookgas=1.
var labels cookgas "Natural gas for cooking".
compute cookbio=0.
if (qh111=4) cookbio=1.
var labels cookbio "Biogas for cooking".
compute cookkero=0.
if (qh111=5) cookkero=1.
var labels cookkero "Kerosene for cooking".
compute cookchar=0.
if (qh111=6) cookchar=1.
var labels cookchar "Charcoal for cooking".
compute cookwood=0.
if (qh111=7 ) cookwood=1.
var labels cookwood "Wood for cooking".
compute cookstraw=0.
if (qh111=8) cookstraw=1.
var labels cookstraw "Straw for cooking".
compute cookcrop=0.
if (qh111=9) cookcrop=1.
var labels cookcrop "Agricultural crop for cooking".
compute cookdung=0.
if (qh111=10) cookdung=1.
var labels cookdung "Dung for cooking".
compute cooknone=0.
if (qh111=95) cooknone=1.

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```

var labels cooknone 'Does not cook'.
compute cookoth=0.
if (qh111=96) cookoth=1.
var labels cookoth "Other fuel for cooking".

*{Reset missing values to "does not have", change 2 code to 0}.
if (qh110a<>1) qh110a=0.
if (qh110b<>1) qh110b=0.
if (qh110c<>1) qh110c=0.
if (qh110d<>1) qh110d=0.
if (qh110e<>1) qh110e=0.
if (qh110f<>1) qh110f=0.
if (qh110g<>1) qh110g=0.
if (qh110h<>1) qh110h=0.
if (qh110i<>1) qh110i=0.
if (qh110j<>1) qh110j=0.
if (qh110k<>1) qh110k=0.
if (qh110l<>1) qh110l=0.

if (qh118a<>1) qh118a=0.
if (qh118b<>1) qh118b=0.
if (qh118c<>1) qh118c=0.
if (qh118d<>1) qh118d=0.

if (qh119<>1) qh119=0.
if (qh119<>1) qh120=0.

compute landarea=0.
if (not(missing(qh120))) landarea=qh120.
if (qh119<>1) landarea=0.
FRECUENCIAS landarea.

if (qh121<>1) qh121=0.
if (qh121<>1) qh122a=0.
if (qh121<>1) qh122b=0.
if (qh121<>1) qh122c=0.
if (qh121<>1) qh122d=0.
if (qh121<>1) qh122e=0.
if (qh121<>1) qh122f=0.
if (qh121<>1) qh122g=0.

missing values qh122a to qh122g (98,99).

if (qh123<>1) qh123=0.

*{Lighting fuel}.
*compute eleclgt=0.
*if (qh106=1) eleclgt=1.
*var labels eleclgt "Electricity for lighting".
*compute sunlgt=0.
*if (qh106=2) sunlgt=1.
*var labels sunlgt "Solar electricity for lighting".

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*compute gaslgt=0.
*if (qh106=3) gaslgt=1.
*var labels gaslgt "Gas for lighting".
*compute hurrlgt=0.
*if (qh106=4) hurrlgt=1.
*var labels hurrlgt "Pariffin-hurricane lamp".
*compute preslgt=0.
*if (qh106=5) preslgt=1.
*var labels preslgt "Pariffin-pressure lamp".
*compute wicklgt=0.
*if (qh106=6) wicklgt=1.
*var labels wicklgt "Wick lamp for lighting".
*compute candlgt=0.
*if (qh106=8) candlgt=1.
*var labels candlgt "Candles for lighting".
*compute woodlgt=0.
*if (qh106=7) woodlgt=1.
*var labels woodlgt "Firewood for lighting".
*compute othlgt=0.
*if (qh106=96) othlgt=1.
*var labels othlgt "Other type of lighting".

*{Solid waste/garbage collection}.

execute.

FREQUENCIES VARIABLES=QHTYPE HV009 HV012 HV013 QH102 QH107 QH108
QH110A QH110B QH110C QH110D QH110E
      QH110F QH110G QH110H QH110I QH110J QH110K QH110L QH111 QH114
QH115 QH116 QH117 QH118A QH118B QH118C
      QH118D QH119 QH120 QH121 QH122A QH122B QH122C QH122D QH122E
QH122F QH122G QH123 DOMESTIC HOUSE LAND
/ORDER=ANALYSIS.
FREQUENCIES VARIABLES=memsleep h2oires h2oyrd h2opub h2obwell
h2ipwell h2iowell h2opspg h2ouspg
      h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
      latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
      cemtfluo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
      cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
      metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
      cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth
/ORDER=ANALYSIS.

save outfile="c:\hnp2a\Ethiopia 2010\etassets.sav".

```

*****.

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

FACTOR

```
/VARIABLES QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
cemtfluo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth landarea
/MISSING MEANSUB
/ANALYSIS QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
cemtfluo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth landarea
/PRINT UNIVARIATE INITIAL EXTRACTION
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/METHOD=CORRELATION.
```

*****.

*** Common Factor Analysis.

FILTER OFF.
USE ALL.
EXECUTE.

**** Redo removing area-specific variables ****.

FACTOR

```
/VARIABLES QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
QH110L QH118A QH118B QH118C QH118D QH123 DOMESTIC HOUSE LAND
h2oires h2oyrd h2opub h2obwell h2ipwell h2iowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
cemtfloo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth
```

/MISSING MEANSUB

```
/ANALYSIS QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
QH110L QH118A QH118B QH118C QH118D QH123 DOMESTIC HOUSE LAND
h2oires h2oyrd h2opub h2obwell h2ipwell h2iowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
cemtfloo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth
```

/PRINT UNIVARIATE INITIAL EXTRACTION FSCORE

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION PC

/ROTATION NOROTATE

/SAVE REG(ALL)

/METHOD=CORRELATION.

** Urban Areas.

USE ALL.

COMPUTE filter_\$(qhtype = 1).

```

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

WEIGHT
  OFF.

FACTOR
  /VARIABLES QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
  QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
  QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
  h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
  latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
  cemtfloo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
  cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
  metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
  cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth landarea
  /MISSING MEANSUB
  /ANALYSIS QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
  QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
  QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
  h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
  latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
  cemtfloo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
  cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
  metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
  cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth landarea
  /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_$=(qhtype = 2).
VARIABLE LABEL filter_$ 'qhtype = 2 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .
```

```
FACTOR
/VARIABLES QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
cemtfloo rugfloo othfloo nowall natwall mudwall stonwall
plywall cardwall rwoodwall
cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookbio cookkero
cookchar cookwood cookstraw cookcrop cookdung cooknone
cookoth landarea
/MISSING MEANSUB
/ANALYSIS QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
cemtfloo rugfloo othfloo nowall natwall mudwall stonwall
plywall cardwall rwoodwall
cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookbio cookkero
cookchar cookwood cookstraw cookcrop cookdung cooknone
```

```
cookoth landarea
/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.
COMPUTE filter_$=(qhtype = 1).
VARIABLE LABEL filter_$ 'qhtype = 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 FAC1_1
/METHOD=ENTER URB1 .
```

```
** Rural Area.
```

```
USE ALL.
COMPUTE filter_$=(qhtype = 2).
VARIABLE LABEL filter_$ 'qhtype = 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 FAC1_1
/METHOD=ENTER RUR1 .
```

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

```

*** Calculate combined wealth score from Urban and Rural Scores.
compute comb scor=0.
print formats comb scor (F11.5).
** Urban.
if (qhtype = 1) comb scor=1.232+0.856* URB1.
** Rural.
if (qhtype = 2) comb scor=(-0.544)+0.352* RUR1.
execute.

```

```

*Tabulation for histograms
weight by hhwt.
filter off.
use all.
FREQUENCIES
  VARIABLES=comb scor /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM NORMAL
  /ORDER= ANALYSIS
.

```

```

* Calculate histogram intervals.

```

```

compute histnac=trunc(facl_1/((2.5-(-2.0))/50)).
if (facl_1 ge 0 ) histnac=histnac+1.
freq var=histnac.

```

```

*Calculate quintiles and scores for data file.
compute hmemwt=qhweight*hv012/1000000.
weight by hmemwt.
VARIABLE LABELS hmemwt 'HH members weighting for Index' .

```

```

** Urban Area.
USE ALL.
COMPUTE filter_$=(qhtype = 1).
VARIABLE LABEL filter_$ 'qhtype = 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 Area.

```

```

USE ALL.

```

```

COMPUTE filter_$=(qhtype = 2).
VARIABLE LABEL filter_$ 'qhtype = 2 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .

```

```

RANK
  VARIABLES=rurl (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 .

```

frequencies variables=ncombsco.

```

compute hhwt=qhweight/1000000.
weight by hhwt.
VARIABLE LABELS hhwt 'HH weights' .

```

```

MEANS TABLES=QH108 QH110A QH110B QH110C QH110D QH110E QH110F
QH110G QH110H QH110I QH110J QH110K
  QH110L QH118A QH118B QH118C QH118D QH119 QH120 QH121 QH122A
QH122B QH122C QH122D QH122E QH122F
  QH122G QH123 DOMESTIC HOUSE LAND h2oires h2oyrd h2opub
h2obwell h2ipwell h2iowell h2opspg h2ouspg
  h2orain h2otruck h2ocart h2osurf h2obot h2ooth flushs flusht
flushp flushe latvip latpits latpit
  latcomp latpail lathang latbush latoth latshare dirtfloo
woodfloo prqfloo vinlfloo tilefloo
  cemtfluo rugfloo othfloo nowall natwall mudwall stonwall
adobwall plywall cardwall rwoodwall
  cmtwall brkwall cmtbwall cadobwall woodwall othwall noroof
natroof matroof bambroof wproof cardroof
  metroof woodroof asbroof cmtroof shngroof othroof cookelec
cooklpg cookgas cookbio cookkero
  cookchar cookwood cookstraw cookcrop cookdung cooknone

```

```

cookoth landarea
  by Ncombsco
  /CELLS MEAN COUNT STDDEV.

compute hv271=combscor.
compute hv270=ncombsco.

save outfile="c:\hnp2a\Ethiopia 2010\et10assets.sav".

WEIGHT
  OFF.
FREQUENCIES
  VARIABLES=hv271
  /ORDER= ANALYSIS .

compute hhwt=qhweight/1000000.
weight by hhwt.

GRAPH
  /HISTOGRAM(NORMAL)=combscor
  /TITLE= 'Distribution of Households by Wealth Scores Ethiopia
2010'.
FREQUENCIES
  VARIABLES=combscor /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MINIMUM MAXIMUM SEMEAN MEAN MEDIAN MODE
SKEWNESS SESKEW
  KURTOSIS SEKURT
  /ORDER= ANALYSIS .

write formats combscor (f11.5).

WRITE OUTFILE='c:\hnp2a\Ethiopia 2010\et10scores.dat'
  TABLE
  /qhclust qhnumber combscor ncombsco urb1 nurb1 rur1 nrurl.
EXECUTE.

save outfile="c:\hnp2a\Ethiopia 2010\et10assets.sav".

```