

```

* Opening the data file .
GET
  FILE='C:\DR61\WIndex\Data\DR2013EXP.sav'.

*{Construct Variables}.

*{ Usual Residents Members per sleeping room}.
COMPUTE MemSleep=98.
IF ( Resident=0 ) Resident=DeFacto.
IF ( QH40 > 0 ) MemSleep=trunc( RESIDENT / QH40 ).
IF ( QH40 = 0 ) MemSleep = RESIDENT.
VARIABLE LABELS MEMSLEEP "Number of de jure members per sleeping
room".
VALUE LABELS MemSleep 0 "Less than 1 per room" 98"Don't
kno/missing".

*{ Drinking water supply }.
*// Piped into dwelling: TUBERIA DENTRO DE VIVIENDA.
COMPUTE h2oires=0.
IF ( QH44 =11 ) h2oires=1.
VARIABLE LABELS h2oires "Piped into dwelling".
*// Piped into yard/plot: TUBERIA FUERA DE VIVIENDA.
COMPUTE h2oyrdr=0.
IF ( QH44 =12 ) h2oyrdr=1.
VARIABLE LABELS h2oyrdr "Piped into yard/plot".
*// Tube well/Borehole: POZO.
COMPUTE h2otube=0.
IF ( QH44 = 21 ) h2otube=1.
VARIABLE LABELS h2otube "Tube well/Borehole".
*// Surface water-river, lake, etc: MANANTIAL/ RIO/ ARROYO.
COMPUTE h2osurf=0.
IF ( QH44 = 31 ) h2osurf=1.
VARIABLE LABELS h2osurf "Surface water-river, lake, etc.".
*// Water from rain: LLUVIA.
COMPUTE h2orain=0.
IF ( QH44 = 41 ) h2orain=1.
VARIABLE LABELS h2orain "Water from rain".
*// Tanker truck: CAMION TANQUE.
COMPUTE h2otrk=0.
IF ( QH44 = 51 ) h2otrk=1.
VARIABLE LABELS h2otrk "Tanker truck".
*// Cart with small tank: CAMIONCITO.
COMPUTE h2otnk=0.
IF (QH44 = 61 ) h2otnk=1.
VARIABLE LABELS h2otnk "Cart with small tank".
*// Bottled water: AGUA EMBOTELLADA.
COMPUTE h2obttl=0.
IF ( QH44 = 71 ) h2obttl=1.
VARIABLE LABELS h2obttl "Bottled water".
*// Other water source: OTRA FUENTE.
COMPUTE h2ooth=0.
IF ( QH44 = 96 ) h2ooth=1.

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VARIABLE LABELS h2ooth "Other water source".

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*{Toilet facility}.
*// Flush toilet to public sewer: INODORO PRIVADO.
COMPUTE flush1=0.
IF ( QH48 = 11 ) flush1 = 1.
VARIABLE LABELS flush1 "Flush toilet to public sewer".
*// Flush toilet to public sewer: INODORO COMPARTIDO.
COMPUTE sflush=0.
IF ( QH48 = 12) sflush=1.
VARIABLE LABELS sflush "Shared flush toilet".
*// Slab pit latrine: LETRINA PRIVADA CON CAJON.
COMPUTE latpit1=0.
IF ( QH48 = 21) latpit1=1.
VARIABLE LABELS latpit1 "Slab pit latrine".
*// Slab pit latrine: LETRINA PRIVADA SIN CAJON.
COMPUTE latpit2=0.
IF ( QH48 = 22) latpit2=1.
VARIABLE LABELS latpit2 "No slab pit latrine".
*// Slab pit latrine: LETRINA COMPARTIDA CON CAJON.
COMPUTE slatpit1=0.
IF ( QH48 = 23) slatpit1=1.
VARIABLE LABELS slatpit1 "Shared slab pit latrine".
*// Slab pit latrine: LETRINA COMPARTIDA SIN CAJON.
COMPUTE slatpit2=0.
IF ( QH48 = 24) slatpit2=1.
VARIABLE LABELS slatpit2 "Shared no slab pit latrine".
*// No facility/bush/field: NO HAY SERVICIO.
COMPUTE latbush=0.
IF ( QH48 = 31) latbush=1.
VARIABLE LABELS latbush "No facility/bush/field".
*// Other type toilet/latrine: OTRO TIPO.
COMPUTE latoth=0.
IF ( QH48 = 96) latoth=1.
VARIABLE LABELS latoth "Other type toilet/latrine".
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*{Flooring}.
*// Dirt or dung floor: TIERRA.
COMPUTE dirtfloo=0.
IF ( QH37 = 11) dirtfloo=1.
VARIABLE LABELS dirtfloo "Dirt or dung floor".
*// Dirt or dung floor: MADERA.
COMPUTE woodfloo=0.
IF ( QH37 = 31) woodfloo=1.
VARIABLE LABELS woodfloo "Wood floor".
*// Dirt or dung floor: CEMENTO.
COMPUTE tilefloo=0.
IF ( QH37 = 33) tilefloo=1.
VARIABLE LABELS tilefloo "Tile/cement floor".
*// Dirt or dung floor: GRANITO.
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COMPUTE stonfloo=0.
IF ( QH37 = 34) stonfloo=1.
VARIABLE LABELS stonfloo "Ceramic/marble floor".
*// Dirt or dung floor: OTRO.
COMPUTE othfloo=0.
IF ( QH37 = 96) othfloo=1.
VARIABLE LABELS othfloo "Other type of flooring".

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*{Walls: PAREDES }.
*// Cement walls: BLOQUE DE CEMENTO.
COMPUTE cmtwall=0.
IF ( QH38 = 1 ) cmtwall=1.
VARIABLE LABELS cmtwall "Cement walls".
*// Cane/palm/trunk walls: MADERA.
COMPUTE woodwall=0.
IF ( QH38 = 2 ) woodwall=1.
VARIABLE LABELS woodwall "Wood walls".
*// Cane/palm/trunk walls: TABLA DE PALMA.
COMPUTE natwall=0.
IF ( QH38 = 3 ) natwall=1.
VARIABLE LABELS natwall "Cane/palm/trunk walls".
*// Tejamanil walls: TEJAMANIL.
COMPUTE tejawall=0.
IF ( QH38 = 4 ) tejawall=1.
VARIABLE LABELS tejawall "Tejamanil walls".
*// Cane/palm/trunk walls: YAGUA.
COMPUTE yagwall=0.
IF ( QH38 = 5 ) yagwall=1.
VARIABLE LABELS yagwall "Yagua walls".
*// dung walls: MATERIALES DE DESECHO.
COMPUTE dungwall=0.
IF ( QH38 = 6 ) dungwall=1.
VARIABLE LABELS dungwall "Dung walls".
*// Other type of walls: OTHER .
COMPUTE othwall=0.
IF ( QH38 = 96) othwall=1.
VARIABLE LABELS othwall "Other type of walls".

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*{Roofing: TECHO }.
*// Asbestos roof: CEMENTO.
COMPUTE cmtroof=0.
IF ( QH39 = 1 ) cmtroof=1.
VARIABLE LABELS cmtroof "Cement roof".
*// Zinc roof: ZINC.
COMPUTE mtlroof=0.
IF ( QH39 = 2 ) mtlroof=1.
VARIABLE LABELS mtlroof "Zinc roof".
*// Asbestos roof: ASBESTO.
COMPUTE asbroof=0.
IF ( QH39 = 3 ) asbroof=1.
VARIABLE LABELS asbroof "Asbestos roof".

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*// Palm/Cane roof: CANA / YAGUA.
COMPUTE natroof=0.
IF ( QH39 = 4 or QH39 = 5) natroof=1.
VARIABLE LABELS natroof "Palm/Cane roof".
*// Other type of roof: OTRO TIPO.
COMPUTE othroof=0.
IF ( QH39 = 96) othroof=1.
VARIABLE LABELS othroof "Other type of roof".

*{Cooking Fuel}.
*// LPG for cooking: GAS PROPANO.
COMPUTE cooklpg=0.
IF ( QH43 = 1) cooklpg=1.
VARIABLE LABELS cooklpg "LPG for cooking".
*// Charcoal for cooking: CARBON.
COMPUTE cookchar=0.
IF ( QH43 = 2) cookchar=1.
VARIABLE LABELS cookchar "Charcoal for cooking".
*// Wood for cooking: MADERA.
COMPUTE cookwood=0.
IF ( QH43 = 3) cookwood=1.
VARIABLE LABELS cookwood "Wood for cooking".
*// Electricity for cooking: ELECTRIIDAD .
COMPUTE cookelec=0.
IF ( QH43 = 4) cookelec=1.
VARIABLE LABELS cookelec "Electricity for cooking".
*// Kerosene for cooking: KEROSENE.
COMPUTE cookkero=0.
IF ( QH43 = 5) cookkero=1.
VARIABLE LABELS cookkero "Kerosene for cooking".
*// Does not cook: NO COCINAN.
COMPUTE cooknot=0.
IF ( QH43 = 6) cooknot=1.
VARIABLE LABELS cooknot "Does not cook".

*{Type of stove for cooking}.
*// NO SE PREGUNTO EN RD .

*// HAS ELECTRICITY ONLY.
COMPUTE Electric = 0.
IF ( SH42A = 1 & SH42B = 0 & SH42C = 0 ) Electric = 1.
VARIABLE LABELS Electric "Energia electrica de la red publica
solamente".

*// HAS ELECTRICITY Y PLANTA/INVERSOR.
COMPUTE Inversor = 0.
IF SH42A = 1 & (SH42B = 1 or SH42C = 1 ) Inversor = 1.
VARIABLE LABELS Inversor "Energia electrica de la red publica
solamente + planta o inversor".
FRECUENCIAS INVERSOR.

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*// NO TIENE ENERGIA ELECTRICA.
COMPUTE lampara = 0.
IF ( (SH42A = 0 & SH42B = 0 & SH42C = 0 ) & SH42D = 1 ) LAMPARA
= 1.
VARIABLE LABELS Lampara "Lampara de gas/kerosene/velas/velones".

*// BIENES DEL HOGAR.
*//Radio.
RECODE QH51A (1=1) (ELSE=0).
*// Televisor blanco/negro o a color.
RECODE QH51B (1=1) (ELSE=0).
*// Video.
RECODE QH51C (1=1) (ELSE=0).
*// Telecable.
RECODE QH51D (1=1) (ELSE=0).
*// Telefono residencial/fijo.
RECODE QH51E (1=1) (ELSE=0).
*// Nevera.
RECODE QH51F (1=1) (ELSE=0).
*// Abanico.
RECODE QH51G (1=1) (ELSE=0).
*// Estufa.
RECODE QH51H (1=1) (ELSE=0).
*// Horno microondas.
RECODE QH51I (1=1) (ELSE=0).
*// Lavadora de ropa.
RECODE QH51J (1=1) (ELSE=0).
*// Calentador de agua.
RECODE QH51K (1=1) (ELSE=0).
*// aire acondicionado.
RECODE QH51L (1=1) (ELSE=0).
*// Computadora.
RECODE QH51M (1=1) (ELSE=0).
*// Internet.
RECODE QH51N (1=1) (ELSE=0).
*// Tinaco.
RECODE QH51O (1=1) (ELSE=0).

*// TRANSPORTE.
*// Carro.
RECODE QH52A (1=1) (ELSE=0).
*// Motor.
RECODE QH52B (1=1) (ELSE=0).
*// Bicicleta.
RECODE QH52C (1=1) (ELSE=0).

*// OTROS BIENES.
*// Sofa.
RECODE QH53A (1=1) (ELSE=0).
*// Mecedora.
RECODE QH53B (1=1) (ELSE=0).

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**// Mesa o comedor.
RECODE QH53C (1=1) (ELSE=0).
**// vitrina.
RECODE QH53D (1=1) (ELSE=0).
**// Gabinete de cocina.
RECODE QH53E (1=1) (ELSE=0).

** Lighting fuel **
**// ver mas arriba .

** Dwelling type **.
**// TIPO DE VIVIENDA: CASA.
COMPUTE dwelsing=0.
IF (qh36=1) dwelsing=1.
VARIABLE LABELS dwelsing 'Single dwelling'.
**// APARTAMENTO .
COMPUTE dwelapt=0.
IF (qh36=2) dwelapt=1.
VARIABLE LABELS dwelapt 'Apartment dwelling'.
**// CASA EN HILERA/BLOQUE.
COMPUTE dwelth=0.
IF (qh36=3) dwelth=1.
VARIABLE LABELS dwelth 'Town house dwelling'.
**// BARRACON .
COMPUTE dwelbar=0.
IF (qh36=4) dwelbar=1.
VARIABLE LABELS dwelbar 'Barrancon dwelling'.
**// VIVIENDA EN PIEZA O PARTE ATRAS.
COMPUTE dwelroom=0.
IF (qh36=5) dwelroom=1.
VARIABLE LABELS dwelroom 'Room in dwelling'.
**// OTRO TIPO.
COMPUTE dweloth=0.
IF (qh36=6) dweloth=1.
VARIABLE LABELS dweloth 'Other type of dwelling'.

** House ownership: TENENCIA DE LA VIVIENDA **.
**// CASA RENTADA.
COMPUTE dwelrent=0.
IF (QH54=1) dwelrent=1.
VARIABLE LABELS dwelrent 'Rents dwelling'.
**// CASA PROPIA Y PAGADA.
COMPUTE dwelown=0.
IF (QH54=2) dwelown=1.
VARIABLE LABELS dwelown 'Dwelling owned and fully paid'.
**// CASA PROPIA Y PAGANDOSE.
COMPUTE dwelmtg=0.
IF (QH54=3) dwelmtg=1.
VARIABLE LABELS dwelmtg 'Dwelling owned with mortgage'.
**// CASA PRESTADA.
COMPUTE dwellent=0.
IF (QH54=4) dwellent=1.

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VARIABLE LABELS dwellent 'Borrowed dwelling'.
*// OTRA FORMA DE TENENCIA.
COMPUTE dweloten=0.
IF (QH54=6) dweloten=1.
VARIABLE LABELS dweloten 'Other type of tenency of dwelling'.

*{Solid waste/garbage collection: ELIMINACION DE BASURA}.
*// Trash collected by governmen: AYUNTAMIENTO.
COMPUTE gargovt=0.
IF (QH49=10) gargovt=1.
VARIABLE LABELS gargovt 'Trash collected by government'.
*// :EMPRESA CONTRATADA POR AYUNTAMIENTO.
COMPUTE gargc=0.
IF (QH49=11) gargc=1.
VARIABLE LABELS gargc 'Trash collected by govt. contractor'.
*// :EMPRESA PRIVADA.
COMPUTE garpvt=0.
IF (QH49=12) garpvt=1.
VARIABLE LABELS garpvt 'Trash collected by private
company/person'.
*// :LA QUEMAN.
COMPUTE garburn=0.
IF (QH49=21) garburn=1.
VARIABLE LABELS garburn 'Trash is burned'.
*// :LA TIRAN EN EL PATIO.
COMPUTE garyrd=0.
IF (QH49=22) garyrd=1.
VARIABLE LABELS garyrd 'Trash thrown outside patio/yard'.
*// :EN LA CAÑADA.
COMPUTE garcanal=0.
IF (QH49=23) garcanal=1.
VARIABLE LABELS garcanal 'Trash thrown in canal/gorge'.
*//: OTRA FORMA.
COMPUTE garoth=0.
IF (QH49=96) garoth=1.
VARIABLE LABELS garoth 'Trash other disposal'.
EXECUTE.

* Land: TIENE TIERRA.
DO IF (QH60 = 1).
+ COMPUTE landarea=$sysmis.
+ IF ( QH61 <= 95000) LandArea = QH61.
ELSE.
+ COMPUTE LandArea = 0.
END IF.
FRECUENCIES LandArea.

** Now do the optimal binning.
COMPUTE cattle=QH63A.
COMPUTE dairy=QH63B.
COMPUTE horse=QH63C.

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COMPUTE pigs=QH63D.
COMPUTE goats=QH63E.
COMPUTE chicks=QH63F.
COMPUTE ducks=QH63G.
EXECUTE.

DO REPEAT lgan=cattle to goats
    /lg1=SH63A1 SH63B1 SH63C1 SH63D1 SH63E1
    /lg2=SH63A2 SH63B2 SH63C2 SH63D2 SH63E2
    /lg3=SH63A3 SH63B3 SH63C3 SH63D3 SH63E3
    /lg4=SH63A4 SH63B4 SH63C4 SH63D4 SH63E4.
+ COMPUTE lg1=(lgan = 0).
+ COMPUTE lg2=(lgan ge 1 and lgan le 4).
+ COMPUTE lg3=(lgan ge 5 and lgan le 9).
+ COMPUTE lg4=(lgan ge 10 and lgan le 95).
END REPEAT.
VALUE LABELS SH63A1 SH63B1 SH63C1 SH63D1 SH63E1 1 'Zero'.
VALUE LABELS SH63A2 SH63B2 SH63C2 SH63D2 SH63E2 1 '1 to 4'.
VALUE LABELS SH63A3 SH63B3 SH63C3 SH63D3 SH63E3 1 '5 to 9'.
VALUE LABELS SH63A4 SH63B4 SH63C4 SH63D4 SH63E4 1 '10 or more'.
Variable Labels SH63A1 "Ganado vacuno - none".
Variable Labels SH63A2 "Ganado vacuno - 1-4".
Variable Labels SH63A3 "Ganado vacuno - 5-9".
Variable Labels SH63A4 "Ganado vacuno - 10-95".
Variable Labels SH63B1 "Vaca lechera - none".
Variable Labels SH63B2 "Vaca lechera - 1-4".
Variable Labels SH63B3 "Vaca lechera - 5-9".
Variable Labels SH63B4 "Vaca lechera - 10-95".
Variable Labels SH63C1 "Caballos/burros - none".
Variable Labels SH63C2 "Caballos/burros - 1-4".
Variable Labels SH63C3 "Caballos/burros - 5-9".
Variable Labels SH63C4 "Caballos/burros - 10-95".
Variable Labels SH63D1 "Puercos - none".
Variable Labels SH63D2 "Puercos - 1-4".
Variable Labels SH63D3 "Puercos - 5-9".
Variable Labels SH63D4 "Puercos - 10-95".
Variable Labels SH63E1 "Chivos/cabras - none".
Variable Labels SH63E2 "Chivos/cabras - 1-4".
Variable Labels SH63E3 "Chivos/cabras - 5-9".
Variable Labels SH63E4 "Chivos/cabras - 10-95".
EXECUTE.

DO REPEAT sman=chicks ducks
    /sm1=SH63F1 SH63G1
    /sm2=SH63F2 SH63G2
    /sm3=SH63F3 SH63G3
    /sm4=SH63F4 SH63G4.
+ COMPUTE sm1=(sman = 0).
+ COMPUTE sm2=(sman ge 1 and sman le 9).
+ COMPUTE sm3=(sman ge 10 and sman le 29).
+ COMPUTE sm4=(sman ge 30 and sman le 97).
END REPEAT.

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VALUE LABELS SH63F1 SH63G1 1 'Zero'.
VALUE LABELS SH63F2 SH63G2 1 '1 to 9'.
VALUE LABELS SH63F3 SH63G3 1 '10 to 29'.
VALUE LABELS SH63F4 SH63G4 1 '30 or more'.
Variable Labels SH63F1 "Gallinas/pollos - none".
Variable Labels SH63F2 "Gallinas/pollos - 1-9".
Variable Labels SH63F3 "Gallinas/pollos - 10-29".
Variable Labels SH63F4 "Gallinas/pollos - 30-95".
Variable Labels SH63G1 "Patos/pavos - none".
Variable Labels SH63G2 "Patos/pavos - 1-9".
Variable Labels SH63G3 "Patos/pavos - 10-29".
Variable Labels SH63G4 "Patos/pavos - 30-95".

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* Bank account.
RECODE QH64 (1=1) (ELSE=0).

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* Compute urban and rural variables coded (1/0) for filters
later.
COMPUTE urban=(QHZONA = 1).
COMPUTE rural=(QHZONA = 2).
VARIABLE LABELS urban 'Urban' / rural 'Rural'.
VALUE LABELS urban 1 'Urban' / rural 1 'Rural'.
FORMATS urban rural (f1.0).

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* Check on indicator variable creation.
* Frequencies of the original variables to be checked with
transformed variables.

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```

FREQUENCIES
  VARIABLES=HOUSE RESIDENT DEFACTO
    SH42A SH42B SH42C SH42D
    QH36  QH37  QH38 QH39  QH40  QH41 QH42 QH43 QH44 QH48 QH49
QH50
    QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M  QH51N QH51O
    QH52A QH52B QH52C QH53A QH53B QH53C QH53D QH53E
    QH54 QH61 QH62 QH63A QH63B QH63C QH63D QH63E QH63F QH63G QH64
  /ORDER= ANALYSIS .

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*// Frequencies of all transformed variables .
FREQUENCIES
  VARIABLES=DOMESTIC OWNLAND HOUSE MemSleep
    h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
    flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
    cmtwall woodwall natwall tejawall yagwall dungwall othwall
    cmtroof mtlroof asbroof natroof othroof
    cooklpg cookchar cookwood cookelec cookkero cooknot
    Electric Inversor lampara
    dwelsing dwelapt dwelth dwelbar dwelroom dweloth
    dwelrent dwelown dwelmtg dwellent dweloten
    gargovt gargc garpvt garburn garyrd garcanal garoth

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landarea
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
SH63A1 SH63A2 SH63A3 SH63A4
SH63B1 SH63B2 SH63B3 SH63B4
SH63C1 SH63C2 SH63C3 SH63C4
SH63D1 SH63D2 SH63D3 SH63D4
SH63E1 SH63E2 SH63E3 SH63E4
SH63F1 SH63F2 SH63F3 SH63F4
SH63G1 SH63G2 SH63G3 SH63G4
QH64
urban
rural
/ORDER= ANALYSIS .
EXECUTE.

*// saving the data file with different name.
SAVE OUTFILE="C:\DR61\WIndex\Data\DR2013_assets.sav".

NEW FILE.

* Opening the data file .
GET
FILE='C:\DR61\WIndex\Data\DR2013_assets.sav'.

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

FACTOR
/VARIABLES DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cookkero cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom dweloth
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
landarea
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
SH63A1 SH63A2 SH63A3 SH63A4
SH63B1 SH63B2 SH63B3 SH63B4
SH63C1 SH63C2 SH63C3 SH63C4

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SH63D1 SH63D2 SH63D3 SH63D4
SH63E1 SH63E2 SH63E3 SH63E4
SH63F1 SH63F2 SH63F3 SH63F4
SH63G1 SH63G2 SH63G3 SH63G4
QH64
/MISSING MEANSUB
/ANALYSIS DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cookkero cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom dweloth
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
landarea
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
SH63A1 SH63A2 SH63A3 SH63A4
SH63B1 SH63B2 SH63B3 SH63B4
SH63C1 SH63C2 SH63C3 SH63C4
SH63D1 SH63D2 SH63D3 SH63D4
SH63E1 SH63E2 SH63E3 SH63E4
SH63F1 SH63F2 SH63F3 SH63F4
SH63G1 SH63G2 SH63G3 SH63G4
QH64
/PRINT UNIVARIATE INITIAL EXTRACTION
/plot=EIGEN
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/METHOD=CORRELATION .

```

```

*****.
*** Common Factor Analysis.
FILTER OFF.
USE ALL.
EXECUTE.

```

```

**** Redo removing area-specific variables ****.
** Agricultural animal variables excluded.
** Any others ?.

```

```

FACTOR
/VARIABLES DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl

```

```

h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cookkero cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom dweloth
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
QH64
/MISSING MEANSUB
/ANALYSIS DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cookkero cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom dweloth
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
QH64
/PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/SAVE REG(ALL COM)
/METHOD=CORRELATION .

WEIGHT off.
FILTER OFF.
USE ALL.
EXECUTE.

**** URBANO .

USE ALL.
FILTER BY urban.
EXECUTE.

FACTOR

```

```

/VARIABLES DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom dweloth
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
QH64 landarea SH63A1 TO SH63G4
/MISSING MEANSUB
/ANALYSIS DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
dirtfloo woodfloo tilefloo stonfloo othfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom dweloth
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
QH64 landarea SH63A1 TO SH63G4
/PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/SAVE REG(ALL URB)
/METHOD=CORRELATION.

```

* ESTA VARIABLE SE SACO DEL ANALISIS: cookkero.
means urb1 by SH63A1 TO SH63G4.

```

USE ALL.
FILTER BY rural.
EXECUTE.

```

```

FACTOR
/VARIABLES DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl

```

```

h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush
dirtfloo woodfloo tilefloo stonfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cookkero cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
QH64 landarea SH63A1 TO SH63G4
/MISSING MEANSUB
/ANALYSIS DOMESTIC OWNLAND HOUSE MemSleep
h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush
dirtfloo woodfloo tilefloo stonfloo
cmtwall woodwall natwall tejawall yagwall dungwall othwall
cmtroof mtlroof asbroof natroof othroof
cooklpg cookchar cookwood cookelec cookkero cooknot
Electric Inversor lampara
dwelsing dwelapt dwelth dwelbar dwelroom
dwelrent dwelown dwelmtg dwellent dweloten
gargovt gargc garpvt garburn garyrd garcanal garoth
QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
QH52A QH52B QH52C
QH53A QH53B QH53C QH53D QH53E
QH64 landarea SH63A1 TO SH63G4
/PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
/CRITERIA FACTORS(1) ITERATE(25)
/EXTRACTION PC
/ROTATION NOROTATE
/SAVE REG(ALL RUR)
/METHOD=CORRELATION.

```

```

*othfloo dweloth latoth .
means rur1 by SH63A1 TO SH63G4.

```

```

**** REGRESIONES .

```

```

* Calculate regressions with total score.
* To be added in where the regressions take place:.
* Name the dataset window for the hh data for use later.
dataset name assets.

```

```

* label the created score variables.
variable labels

```

```

    com1 "Common wealth score"
    /urb1 "Urban wealth score"
    /rur1 "Rural wealth score".

* Add a variable used for linking later.
use all.
string ROWTYPE_ (A8).
compute ROWTYPE_ = 'EST'.

* Calculate regressions with total score.
** Urban area.
use all.
filter by urban.
execute.

* Declare a dataset to be written to in the regression.
dataset declare urbcorv.
regression
  /missing listwise
  /statistics coeff outs r anova
  /criteria=pin(.05) pout(.10)
  /noorigin
  /dependent com1
  /method=enter urb1
  /outfile=corv(urbcorv).
* Activate file of output from regression.
dataset activate urbcorv.
* Drop all rows of output except the coefficients.
select if (ROWTYPE_ = 'EST').
execute.
* Delete unnecessary variables before merging.
delete variables DEPVAR_ VARNAME_.
* Rename variables containing the constant and the coefficient.
rename variables CONST_=urbconst urb1=urbcoeff.

* Re-activate the main household data.
dataset activate assets.
* Rename the urban score.
rename variables urb1=urbscore.
* merge the coefficients.
match files
  /file = *
  /table = urbcorv
  /by ROWTYPE_.
execute.

** Rural area.

use all.
filter by rural.

```

```

* Declare a dataset to be written to in the regression.
dataset declare rurcorv.
regression
  /missing listwise
  /statistics coeff outs r anova
  /criteria=pin(.05) pout(.10)
  /noorigin
  /dependent com1
  /method=enter rur1
  /outfile=corv(rurcorv).
* Activate file of output from regression.
dataset activate rurcorv.
* Drop all rows of output except the coefficients.
select if (ROWTYPE_ = 'EST').
execute.
* Delete unnecessary variables before merging.
delete variables DEPVAR_ VARNAME_.
* Rename variables containing the constant and the coefficient.
rename variables CONST_=rurconst rur1=rurcoeff.

* Re-activate the main household data.
dataset activate assets.
* Rename the rural score.
rename variables rur1=rurscore.
* merge the coefficients.
match files
  /file = *
  /table = rurcorv
  /by ROWTYPE_.
execute.

***** QUINTILES .
use all.

dataset close urbcorv.
dataset close rurcorv.
dataset activate assets.

*** Calculate combined wealth score from Urban and Rural Scores.
* Use coefficients from urban and rural regressions above!.
compute comb scor=0.
variable labels comb scor "Combined wealth score".
formats comb scor (f11.5).
** Urban - replace values with those from the regressions above!.
if (urban = 1) comb scor=urbconst+urbcoeff*urbscore.
** Rural - replace values with those from the regressions above!.
if (rural = 1) comb scor=rurconst+rurcoeff*rurscore.
execute.

** Urban Area.

```



```

*Tabulation for histograms.
compute hhwt =qhweight/1000000.
VARIABLE LABELS hhwt 'HH weights' .
weight by hhwt.
filter off.
use all.

FREQUENCIES
  VARIABLES=combscor COM1 /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM NORMAL
  /ORDER=ANALYSIS.

USE ALL.
FILTER BY urban.
EXECUTE.

FREQUENCIES
  VARIABLES=combscor URBscore /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM NORMAL
  /ORDER=ANALYSIS.

USE ALL.
FILTER BY rural.
EXECUTE.

FREQUENCIES
  VARIABLES=combscor RURscore /FORMAT=NOTABLE
  /NTILES= 5
  /STATISTICS=STDDEV MEAN
  /HISTOGRAM NORMAL
  /ORDER=ANALYSIS.

FILTER OFF.
USE ALL.
EXECUTE.

*Calculate quintiles and scores for data file.
compute hmemwt=QHWEIGHT*RESIDENT/1000000.
weight by hmemwt.
VARIABLE LABELS hmemwt 'HH members weighting for index'.

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

```

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

```
** Rural Area.
USE ALL.
FILTER BY rural.
EXECUTE.
```

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

```
** National combined score.
FILTER OFF.
USE ALL.
EXECUTE.
```

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

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

```
*** Check on quintiles.
```

```
frequencies variables=ncombsco.
```

```
weight by hhwt.
```

```
MEANS TABLES=
  DOMESTIC OWNLAND HOUSE MemSleep
  h2oires h2oyrdr h2otube h2osurf h2orain h2otrk h2otnk h2obttl
h2ooth
  flush1 sflush latpit1 latpit2 slatpit1 slatpit2 latbush latoth
  dirtfloo woodfloo tilefloo stonfloo othfloo
  cmtwall woodwall natwall tejawall yagwall dungwall othwall
  cmtroof mtlroof asbroof natroof othroof
  cooklpg cookchar cookwood cookelec cookkero cooknot
  Electric Inversor lampara
  dwelsing dwelapt dwelth dwelbar dwelroom dweloth
  dwelrent dwelown dwelmtg dwellent dweloten
  gargovt gargc garpvt garburn garyrd garcanal garoth
  landarea
  QH51A QH51B QH51C QH51D QH51E QH51F QH51G QH51H QH51I QH51J
QH51K QH51L QH51M QH51N QH51O
  QH52A QH52B QH52C
  QH53A QH53B QH53C QH53D QH53E
  SH63A1 SH63A2 SH63A3 SH63A4
```

```
SH63B1 SH63B2 SH63B3 SH63B4
SH63C1 SH63C2 SH63C3 SH63C4
SH63D1 SH63D2 SH63D3 SH63D4
SH63E1 SH63E2 SH63E3 SH63E4
SH63F1 SH63F2 SH63F3 SH63F4
SH63G1 SH63G2 SH63G3 SH63G4
QH64
```

```
  by Ncombsco
/CELLS MEAN COUNT STDDEV.
```

```
WEIGHT OFF.
```

```
save outfile="C:\DR61\WIndex\Data\DR_assets_FINAL.sav".
```

```
*** Write out scores file.
```

```
WRITE OUTFILE="C:\DR61\WIndex\Data\DR_scores_FINAL.dat"
```

```
TABLE
```

```
 /qhcongl qhhogar comb Scor ncombsco urbscore nurbscor rurscore
nrurscor.
EXECUTE.
```