

Egerton University - Tegemeo Institute/MSU
Tegemeo Agricultural Policy Research Analysis (TAPRA)
Rural Household Indicator Survey 2007

“We are part of a team at Egerton University, who are studying aspects to do with agricultural development in the country. Your participation in answering these questions is very much appreciated. Your responses will be **COMPLETELY CONFIDENTIAL**. Your responses will be added to those of 1,400 other households and analysed together. If you indicate your voluntary consent by participating in this interview, may we begin? If you have any questions or comments about this survey, you may contact the Director, Tegemeo Institute, Egerton University, P.O. Box 20498 (00200), Nairobi; **Tel: 0720 895454**; email: egerton@tegemeo.org”

Household No. **HHID** _____
 Date: (ddmmyy) **SURDATE** _____
 HH Name _____
 Respondent(s) _____ **MEM** _____

(Enumerator Instruction: Record the member number of the Respondent from the Demography table on pages 19 through 21 after the survey is completed.)

Identifying Variables:

Supervisor: _____ **SNUM** _____
 Enumerator: _____ **ENUM** _____
 Province: _____ **PROV** _____
 District: _____ **DIST** _____
 Division: _____ **DIV** _____
 Location: _____ **LOC** _____
 Sub-Location: _____ **SUBLOC** _____
 Village: _____ **VIL** _____

GPS coordinates : **HH1** : _____ (1=North 2=South) (_____ ° **DEG1** _____ `` **MIN1** _____ **SEC1**)
HH2 : East (_____ ° **DEG2** _____ `` **MIN2** _____ **SEC2**)
HH3 : Altitude MT. a.s.l **MASL** (_____)

IF THE HOUSEHOLD IS NOT ABLE TO PARTICIPATE IN THE SURVEY, WHY NOT? **INTVIEW** _____

(1 = head and spouse died 2=head and spouse separated 3 = refused 4 = household members cannot be found
 5 =family commitments (burial, wedding, etc) 6= moved from the area 7 =working outside the area 8= other, specify _____)

CROP INVENTORY AND CROP CODES: Did you plant this crop either in the main or short harvest? (Yes =1) (Leave blank for No)

| Code | Crop | M | S | Code | Crop | M | S | Code | Crop | M | S | Code | Crop | M | S |
|------|-------------------------|---|---|------|--------------------------|---|---|------|-----------------------------|---|---|------|-----------------------------|---|---|
| 119 | apple | | | 71 | eggplant | | | 80 | nappier /elephant grass | | | 8 | sorghum | | |
| 44 | arrowroots | | | 20 | flowers | | | 165 | nathi (goose berry) | | | 39 | sorghum (drought resistant) | | |
| 201 | artemesia | | | 25 | french beans | | | 147 | njahi (dolichos) | | | 160 | soyabeans | | |
| 97 | avocado | | | | | | | 37 | njugu mawe(bambara bean) | | | 66 | spinach | | |
| 50 | avocado (grafted) | | | 138 | garlic onion | | | | | | | 124 | squash | | |
| 18 | babycorn | | | 62 | gourds | | | 83 | oats | | | 190 | stefali | | |
| 10 | bananas | | | 179 | grapes | | | 77 | okra | | | 206 | stinging nettle | | |
| 202 | bananas, tc | | | 34 | green grams | | | 96 | onions | | | 177 | strawberries | | |
| 60 | barley | | | 167 | green peas | | | 61 | orange (grafted) | | | 187 | sugar beets | | |
| 7 | beans | | | 33 | groundnuts | | | 75 | oranges | | | 15 | sugarcane | | |
| 221 | beetroot | | | 72 | guava | | | 22 | other fodder leaves | | | 170 | sugarcane, chewing | | |
| 129 | brinjals /biriganya | | | | | | | 184 | other leaves (bean,njahi) | | | 64 | sukuma wiki | | |
| 169 | bulrush millet | | | 139 | indigenous grains | | | | | | | 30 | sunflower | | |
| | | | | 140 | indig veg/amaranthus | | | 59 | passion (grafted) | | | 68 | sweet melon | | |
| 93 | cabbage | | | 27 | Irish potatoes | | | 137 | passion fruit | | | 43 | sweet potatoes | | |
| 200 | camomile | | | 51 | irish potatoes, tc | | | 46 | passion fruits, tc | | | 49 | sweet potatoes, tc | | |
| 67 | capsicum /sweet peppers | | | 210 | karela | | | 85 | pasture (not eleph/napier) | | | | | | |
| 94 | carrots | | | | | | | 58 | pawpaw(grafted) | | | 3 | tamarind | | |
| 24 | cashew nuts | | | 84 | lemon (grafted) | | | 70 | pawpaws | | | 189 | tangawizi | | |
| 28 | cassava | | | 207 | lemon grass | | | 166 | peaches | | | 136 | tangerine | | |
| 48 | cassava, tc | | | 74 | lemons | | | 134 | pears | | | 12 | tea | | |
| 146 | castor oil | | | 173 | lettuce | | | 65 | pepper, bell | | | 29 | tobacco | | |
| 175 | cauliflower | | | 32 | lucerne | | | 141 | pigeon peas | | | 63 | tomatoes | | |
| 26 | chickpeas | | | 118 | lugard | | | 133 | pineapples | | | 162 | tree tomato | | |
| 131 | chillie peppers | | | | | | | 121 | plums | | | 53 | trees (multi purpose), tc | | |
| 42 | citrus, tc | | | 203 | macadamia nuts (grafted) | | | 178 | pomegranate | | | 161 | Turnips | | |
| 23 | coconuts | | | 135 | macadamia nuts | | | 35 | poyo | | | 5 | trees, commercial | | |
| 194 | coconuts, copra | | | 47 | macadamia, tc | | | 76 | pumpkin | | | | | | |
| 193 | coconuts, green | | | 1 | maize, dry | | | 172 | pumpkin leaves | | | 205 | vanilla | | |
| 6 | coffee, cherries | | | 2 | maize, green | | | 17 | pyrethrum | | | | | | |
| 176 | coffee, churned | | | 4 | maize (fodder) | | | | | | | 69 | watermelon | | |
| 11 | coffee, mbuni | | | 73 | mangoes | | | 211 | ravaya | | | 13 | wheat | | |
| 168 | corn flower | | | 204 | mangoes (grafted) | | | 31 | rice | | | 41 | wheat (drought resistant) | | |
| 14 | cotton | | | 45 | mangoes, tc | | | 86 | rosemary | | | 163 | white suppoise | | |
| 21 | cowpeas | | | 120 | matomoko | | | 171 | runner beans | | | 149 | wild berries | | |
| 19 | cowpeas leaves | | | 9 | millet | | | | | | | | | | |
| 125 | cucumber | | | 148 | miraa | | | 36 | saina | | | 95 | yellow passion fruit(mero) | | |
| | | | | 197 | mkunga | | | 40 | simsim (drought resistant) | | | 81 | yams | | |
| 192 | dates | | | 196 | mkuyu | | | 78 | simsim | | | | | | |
| 183 | dhania | | | 220 | mulberry | | | 16 | sisal | | | 174 | zambarao | | |
| 182 | dhania grains | | | 222 | medicinal plants | | | 90 | snow peas | | | | | | |
| 164 | dry peas | | | | | | | | | | | | | | |

CREDIT**A. CASH CREDIT**

Q3a. Did any household member **try to get any cash credit during the 2006/07 crop year?** (1=Yes) (2=No go to Q3g)

CASHCRD _____

Q3b. (If Yes) Did you receive the **cash credit that you tried to obtain?** (1= Yes) (2=No go to Q3f)

CASHRD _____

Q3c. (If yes) How **much cash credit** did you receive (ksh)

CASH _____

Q3d. For the **two** main sources of cash credit, what the **source** and the **amount** that you received from each?

CSRC1 ____ **CAMT1** _____

CSRC2 ____ **CAMT2** _____

(1= neighbor 2=farmer group 3=SACCO 4=commercial bank, specify _____ 5=relative/friend
6=NGO/MFI, specify _____ 7=AFC 8= group (ROSCA) 9=Village bank 10=Shopkeeper 11=other, specify _____)

Q3e. How was the **cash credit** used (1=Agricultural purposes 2=Non agricultural purposes 3=Both)

MAINPUR _____

Q3f. If you tried to get **cash credit but did not get** what was the reason for not getting?
(1=no collateral 2=Had outstanding loan 3= Don't Know 4= Other, specify_____)

NCASH _____

B. IN KIND CREDIT

Q3g. Did any household member **try to get any credit in kind** during the 2006/07 crop year? (1=Yes) (2=No go to Q3k)

INKDCRD _____

Q3h. (If Yes) Did you receive the **credit in kind that you tried to obtain?** (1= Yes) (2=No go to Q3j)

CRED _____

Q3i. In what form was the credit in kind received? (1= Agricultural inputs 2=Household consumption 3=Both)

FCREDIT _____

Q3j. If you tried to get credit in kind **but did not get** what was the reason for not getting
(1=Had outstanding loan 2= Don't Know 3= Other, specify_____)

NCRED _____

CROP INPUTS

Q3k. What CROP INPUTS did you purchase/hire on CREDIT OR IN CASH in 2006/07 cropping year? (Excluding seeds)

input07.sav Key Variables: hhid inptype

| <u>Input codes:</u> | | Input type | Quantity bought/hired | Unit | Mode of Purchase | Source of Fertilizer and other inputs | Price per unit specified | Kms from point of purchase to farm | Transport Cost per Unit of the fertilizer (KSh) (Instruction : fill for only fertilizers) | Main Crop for which input was used | How is/was the credit repaid? |
|---------------------|--|---|------------------------------|--------------|-------------------------|--|---------------------------------|---|--|---|--------------------------------------|
| | | (Select fertilizer codes from column on the left) | | | | | | | | | |
| | | inptype | qbought | Unit | mdpurch | insorce | punit | kms | trancost | mcrop | inpaid |
| 1=DAP | 32=pesticide | | | 1=90 kg bag | | | | | | | |
| 2=MAP | 33=insecticide | | | 2=kg | | | | | | | |
| 3=TSP | 34=herbicide | | | 3=litre | | | | | | | |
| 4=SSP | 35=plough | | | 13=gram | | | | | | | |
| 5=NPK (20:20:0) | 36=sprayer | | | 20=5 kg bag | 1=own cash | | | | | | 1=crop revenue |
| 6=NPK (17:17:0) | 37= AT equip | | | 8=10 kg bag | 2=borrowed cash | | | | | | 2=livestock revenue |
| 7=NPK (25:5:+5S) | 39=technical support | | | 7= 25 kg bag | 3=in kind credit | | | | | | 3=off farm income |
| 8=CAN (26:0:0) | 40=fungicide | | | 9=gorogoro | 4=own and borrowed cash | | | | | | 4=both livestock and crop revenue |
| 9=ASN (26:0:0) | 41=water | | | 10=tonnes | | | | | | | 5=other, specify_____ |
| 10=UREA (46:0:0) | 46=planter cost | | | 11=50 kg bag | | | | | | | |
| 11=SA (21:0:0) | 47=harvester cost | | | 14=w/barrow | | | | | | | |
| 13=Manure | 48=transport | | | 15=cart | | | | | | | |
| 14=Foliar feeds | 49=sheller cost | | | 21=days | | | | | | | |
| 15=NPK (23:23:23) | 50=fuel | | | 17=numbers | | | | | | | |
| 16=NPK (20:10:10) | 51=gunny bags | | | 30=acres | | | | | | | |
| 17=DAP + CAN | 52=ridger cost | | | | | | | | | | |
| 19=Magmax Lime | 53=land rent | | | | | | | | | | |
| 20=DSP | 54=land preparation cost(on credit only) | | | | | | | | | | |
| 21=NPK (23:23:0) | 55=farm implements | | | | | | | | | | |
| 22=NPK (17:17:17) | 56=farm machinery | | | | | | | | | | |
| 23=NPK (18:14:12) | 57=irrigation equipment | | | | | | | | | | |
| 24=NPK (15:15:15) | 12=other, specify_____ | | | | | | | | | | |
| 58=NPK(25:5:0) | | | | | | | | | | | |
| 25=Mavuno-basal | | | | | | | | | | | |
| 26=Kero green | | | | | | | | | | | |
| 27=Rock-phosphate | | | | | | | | | | | |
| 28=NPK 14:14:20 | | | | | | | | | | | |
| 29=Mijingu 1100 | | | | | | | | | | | |
| 30=UREA+CAN | | | | | | | | | | | |
| 31=Mavuno-top dress | | | | | | | | | | | |
| 43=NPK (22:6:12) | | | | | | | | | | | |

NON-AGRICULTURAL CREDIT

Q4a. If credit was used for non-agricultural purposes give details

nagcred07.sav (Key variables: hhid crduse)

| Main use of the credit | Type of credit received | What was the source of credit: | Value of credit (Kshs) | How is/was the credit repaid? |
|---|-------------------------|--|------------------------|--|
| 1= school fees 2 =medical 3 =business 4 =household consumption 5 =other, specify_____ | 1=Cash 2=In kind | 1= neighbor 2=farmer group 3=SACCO 4=commercial bank, specify _____ 5=relative/friend 6=NGO/MFI, specify _____ 7=AFC 8= group (ROSCA) 9=village bank 10=shopkeeper 11=other, specify _____ | | 1=crop revenue 2=livestock revenue 3=off farm income 4=both livestock and crop revenue 5=other, specify_____ |
| crduse | ctype | crdsor | cvalue | repay |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

(Enumerator Instruction: check to see if household used fertilizer from crop table. If did use then skip to Q5)

Q4b. Why didn't the household use fertilizer (if did not use chemical fertilizer in the cropping year)

NOFERT _____

- 1=no money 2=fertilizer not available 3=practicing organic farming 4=uses organic manure 5=lack of advice
6=no need to use 7=campaign against the use of chemical fertilizers 8 = other, specify _____

(Enumerator Instruction: check to see if household used fertilizer on maize from crop table. If did use then skip to Q5)

Q4c. If you didn't use chemical fertilizer on maize, why not?

NFERMZ _____

- 0=did not plant maize 1=not profitable 2=low response rate 3=couldn't obtain credit 4=not enough cash 5=too expensive
6=maize price too low 7=no cash when needed 8= fertilizer not available 9= no need to use 10=other, specify_____

LABOUR COSTS

Q5a. In total, how much did you spend on **salaried** farm worker(s) for **cropping** activities in the **main and short harvests, 2006 /07?** (Ksh)
(Enumerator Instruction: Remember to consider only the proportion of time spent on cropping activities on apportioning salary)

SALFWRK _____

Enumerator Instruction: Ask about labour activities related to **Maize Only (Exclude fodder maize)**

Q5b. Identify the **largest monocrop maize** field *otherwise* ask for the **largest intercrop maize** field in the **main season**

FIELD _____

Q5c. What is the **slope** of this field: (1=flat 2=steep 3=steep terraced 4=moderate 5=moderate terraced)

SLOPE _____

Q5d. When did you plant maize in the **main** season? (1=Early) (2=On Time) (3=Late)

TPLANT _____

Q5e. Did any of your salaried workers work on the **largest maize** field for the 2006/2007 main season? (1=Yes) (2=No)

SALLBR _____

Q5f. What **labour inputs** did you use for the **largest maize** field for the 2006/2007 main season?
labour07.sav (No key variables)

| Activity name | Code | Hired Labour | | | | Family Labour (adults) | | | | | | | | Family Labour (children) | | | Salaried Labour (ONLY if unpaid) | | |
|---------------------------|-------|--------------|-----------|-------------------------|------------------------|------------------------|-----------------------|---------------------------------|--------------|-----------------------|---------------------------------|---------------|-----------------------|---------------------------------|--------------|--------------------|-----------------------------------|------|------|
| | | # hired | # of days | Kshs per person per day | Total Kshs by contract | # of males | Total # of hours each | Total Hours for all days worked | # of females | Total # of hours each | Total Hours for all days worked | # of children | Total # of hours each | Total Hours for all days worked | # Of workers | # days worked each | # hours per day each (on average) | | |
| | ACTIV | LB01 | LB02 | LB03 | LB04 | LB05 | | | | | | | LB08 | LB09 | | LB10 | LB11 | LB12 | LB13 |
| 1 st Ploughing | 1 | | | | | | | | | | | | | | | | | | |
| 2 nd Ploughing | 2 | | | | | | | | | | | | | | | | | | |
| Harrowing | 3 | | | | | | | | | | | | | | | | | | |
| Planting | 4 | | | | | | | | | | | | | | | | | | |
| 1 st Weeding | 5 | | | | | | | | | | | | | | | | | | |
| Top-dressing | 6 | | | | | | | | | | | | | | | | | | |
| 2 nd Weeding | 7 | | | | | | | | | | | | | | | | | | |
| Field Dusting | 8 | | | | | | | | | | | | | | | | | | |
| Stooking | 9 | | | | | | | | | | | | | | | | | | |
| Harvesting | 10 | | | | | | | | | | | | | | | | | | |
| Transport | 11 | | | | | | | | | | | | | | | | | | |
| Drying | 12 | | | | | | | | | | | | | | | | | | |
| Shelling | 13 | | | | | | | | | | | | | | | | | | |
| Dusting(post harvest) | 14 | | | | | | | | | | | | | | | | | | |
| Bagging | 15 | | | | | | | | | | | | | | | | | | |
| Storage | 16 | | | | | | | | | | | | | | | | | | |
| Other, specify | 17 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

FOOD SECURITY

- Q6a.** How many 90- kg bags of **maize** did this household have **in stock** from **own production** just **before harvesting** the **2006/07 MAIN** harvest maize crop (bags) **BAGSSTK** _____
- Q6b.** How many 90- kg bags of **maize** do you have in **stock** from **own production** now (bags) **STKNOW** _____
- Q6c.** **IF Q 6b = 0** (no bags), in which **month** and **year** did the HH run out of maize stocks from **own production**? (month) **MTHFIN** _____
(1=Jan, 2=Feb, 3=Mar, 4=Apr, 5=May, 6=Jun, 7=July, 8=Aug, 9=Sept, 10=Oct, 11=Nov, 12=Dec) (year) **YRFIN** _____
- Q6d.** In the **last 12 months**, for how many months has the household relied **entirely on Staples from Own production**? **OWNPRD** _____
- Q6e.** In the **last 12 months**, for how many months has the household relied **entirely on Purchased main staples** ? **PURCH** _____
- Q6f.** In the **last 12 months**, for how many months has the household relied **entirely on Relief food**? **RELIEF** _____
- Q6g.** What **coping mechanism** do you (your household) revert to **during famine or food scarcity**? **COPING1** _____ **COPING2** _____ **COPING3** _____
(0=never 1=food relief 2=rely on relatives/friends 3=skip some meals in a day 4=skip meals for entire day 5=take reduced meals 6=eat meals that are less preferred 7=consume wild food 8=consume immature crops 9=consume taboo/toxic foods 10=consume seed stocks 11=send household members to eat elsewhere 12=beg or engage in degrading jobs 13=withdraw children from school 14=allow children to eat more than adults 15=abandonment of children, elderly and the sickly 16=purchase food on credit 17=migration out of the area 18=sell livestock 19=dispose assets 20=other, specify _____)

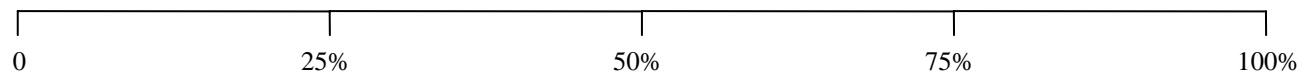
MAIZE MARKET ACCESS

- Q7.1** Now, as **compared to 6-7 years ago**, is it more convenient or less convenient a) to sell your maize **EZyseLL** _____
b) to buy maize **EZBUY** _____
1 = more convenient now 2 = more convenient 6-7 years ago 3 = the same 4 = not sure
- Q7.2** Has there been a change in the **number of private maize buyers/brokers** in this area to choose from, *compared to 6-7 years ago*? **BUYERS** _____
1 = more private traders now 2 = fewer private traders now 3 = the same 4 = not sure

TIME ALLOCATION AND DECISION MAKING

Enumerator Instructions: Introduce this section as follows: “As a farmer you may be involved in several activities such as farming, livestock, business activities and salaried activities.”

Q7.3 What Proportion of **time** did the **Household Head** allocate to **farming activities(crop/livestock)** in the last one year? **TIMEHD** _____



Q7.4 What Proportion of **time** did the **spouse** allocate to **farming activities (crop/livestock)** in the last one year? **TIMESP** _____
(no spouse use code -9)



Q7.5 Who **makes decisions** on how to use farm inputs? **DECISION** _____
(1= head 2=spouse 3=child 4=both head and spouse 5=other, specify__)

Q7.6. In which year did this household **first use improved** maize seed (hybrid/OPV)? (Enter 0 if household never used hybrid seed) **YEARHMZ** _____

Q7.7 In which year did this HH **first use inorganic/chemical fertilizer on crops?** (Enter 0 if HH never used inorganic fertilizer) **YEARFERT** _____

SOIL, WATER AND ENVIRONMENTAL CONSERVATION

Q7.8a. What Soil, Water and Environmental conservation methods are you **practising?** **SWEPRA1** _____ **SWEPRA2** _____ **SWEPRA3** _____

(0=none 1=terracing 2=mulching/cover crops 3=minimum tillage 4=wind breaks 5=contour farming 6=crop rotation 7=waterpans
8=grass strips 9=afforestation 10=re-afforestation 11=agro forestry 12=gabions 13=cut-off drains 14=fallow 15=other, specify_____)

Q7.8b. Are you practising **zero-tillage?** (1=Yes) (2=No) **ZEROTIL** _____

Q7.8c. Are you **composting manure?** (1=Yes) (2=No go to Q7.8e.) **COMPOST** _____

Q7.8d. If **Yes**, what year did you start **composting manure?** **YRCOMP** _____

Q7.8e. How do you dispose of the **maize stover** after harvest? **MZSTOVER** _____

(1= preserve as fodder 2= feed to cattle immediately 3= burn 4= sell 5= exchange for oxen service
6= make compost 7=leave to rot in the field 8=other, specify_____)

PRICES

We would like to know the prices of sifted maize flour and other fertilizer in this area.

(Enumerator Instructions: Ask the price of the item and record the price and unit of measure for the price. If the unit of measure for the fertilizer questions is a **50 kg bag**, you do not need to ask section b of questions 8.1 through 26. If the respondent does not know the price of a “50 kg bag”, record -9, do not know. These questions refer to a “**50 kg bag**” and NOT the “quantity” of 50 kgs. If the respondent does not know of price of an item in any unit record -9.)

| | | <u>Price</u> | <u>Unit</u> |
|---|--|-----------------------------|----------------------|
| Q 8.1a. What is the price of DAP in this area? | (record the price and unit of measure) | (Ksh): DAP _____ | UDAP _____ |
| (Instruction: Do not ask this question if the unit given for DAP is a 50 kg bag.) | | | |
| Q8.1b. What is the price of a 50 kg bag of DAP in this area? | (-9 = Do not know) | (Ksh): PDAP _____ | |
| Q 8.2a. What is the price of urea in this area? | (record the price and unit of measure) | (Ksh): UREA _____ | UUREA _____ |
| (Instruction: Do not ask this question if the unit given for urea is a 50 kg bag.) | | | |
| Q8.2b. What is the price of a 50 kg bag of urea in this area? | (-9 = Do not know) | (Ksh): PUREA _____ | |
| Q 8.3a. What is the price of NPK in this area? | (record the price and unit of measure) | (Ksh): NPK _____ | UNPK _____ |
| (Instruction: Do not ask this question if the unit given for NPK is a 50 kg bag.) | | | |
| Q 8.3b. What is the price of a 50 kg bag of NPK in this area? | (-9 = Do not know) | (Ksh): PNPK _____ | |
| Q 8.4a. What is the price of CAN in this area? | (record the price and unit of measure) | (Ksh): CAN _____ | UCAN _____ |
| (Instruction: Do not ask this question if the unit given for CAN is a 50 kg bag.) | | | |
| Q 8.4b. What is the price of a 50 kg bag of CAN in this area? | (-9 = Do not know) | (Ksh): PCAN _____ | |
| Q 8.5a. What is the price of sifted maize flour in this area? | (record the price and unit of measure) | (Ksh): SIFTED _____ | USIFTED _____ |
| (Instruction: Do not ask this question if the unit given for sifted maize flour is 2 kg packet.) | | | |
| Q 8.5b. What is the price of a 2 kg packet of sifted maize flour in this area? | (-9 = Do not know) | (Ksh): PSIFTED _____ | |
| Q8.6 What is Posho mill charge for 1 gorogoro (2.25 kg) of maize into straight posho meal ? (Ksh per 2 kg tin): | | POSHOR _____ | |

Unit Codes:

| | | | |
|------------|------------------|---------------|------------------|
| 2=kgs | 11= 50 kg bag | 7 = 25 kg bag | 20 = 5 kg bag |
| 9=gorogoro | 18 = 2 kg packet | 8 = 10 kg bag | 19 = 1 kg packet |

LIVESTOCK

Q9.0 Did you have any **livestock** in the period July 2006 to June 2007? (1=Yes) (2=No go to Q10.0)

LSTOCK _____

Q9.1 If YES, Please tell us about your *livestock* activities over the period **July 2006 to June 2007**.

livestock07sav (key variables: *hhid*, *livecode*)

| Livestock code | | Number owned (include Livestock kept by others) June 07 | Current Value Per Unit (Ksh) | Number Owned July 2006 | Number Purchased | Unit Price at Purchase (Ksh) | Number Sold | Average Unit Price When Sold (Ksh) |
|---------------------|----|---|------------------------------|------------------------|------------------|------------------------------|-------------|------------------------------------|
| livecode | | njun07 | Curval | numown | purch | uprice | sold | avgpric |
| Grade cow | 1 | | | | | | | |
| Grade bull | 2 | | | | | | | |
| Grade calves | 3 | | | | | | | |
| Cross cow | 4 | | | | | | | |
| Cross bull | 5 | | | | | | | |
| Cross calves | 6 | | | | | | | |
| Local cow | 7 | | | | | | | |
| Local bull | 8 | | | | | | | |
| Local calves | 9 | | | | | | | |
| Sheep | 10 | | | | | | | |
| Goat(local) | 11 | | | | | | | |
| Goat Exotic (dairy) | 12 | | | | | | | |
| Camels | 13 | | | | | | | |
| Pigs | 14 | | | | | | | |
| Chicken- indigenou | 15 | | | | | | | |
| Chicken-improved | 16 | | | | | | | |
| Ducks /Geese | 17 | | | | | | | |
| Turkeys | 18 | | | | | | | |
| Rabbits | 19 | | | | | | | |
| Doves /Quail | 20 | | | | | | | |
| Crocodiles | 21 | | | | | | | |
| Ostriches | 22 | | | | | | | |
| Butterflies | 23 | | | | | | | |
| Other, specify | 24 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

LIVESTOCK OUTPUT

Q10.0 On average, how much milk, does this household **consume per day**, whether from **own production, purchases or receipts?**

MLKCON _____

Q10.1 Did this household produce any cow milk during July 06 to June 07? (1=Yes) (2=No go to Q10.2)

MLKPRD _____

cowmilk07.sav Key Variables: hhid milk

| | | Avg # of animals producing milk | Total Quantity produced and sold in each month (in litres) Between July06 and June07 | | | | | | | | | | | | Buyer type of largest sale 1=Cooperative societies 2=K.C.C. 3=Private processors /traders 4=Hawker /informal trader 5=Institutions/Hotels 6=Consumer /Neighbor /Farmer 7=Other , specify_____ | What was the most common price you received? Ksh/litre | Km to point of sale for largest buyer | Reason for selling to this buyer 1=better prices 2=only one available 3=nearest 4= offer credit 5=other, specify_____ |
|---------------------|------|---------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|--|---------------------------------------|--|
| Product | milk | cow | Jul06 | Aug06 | Sep06 | Oct06 | Nov06 | Dec06 | Jan07 | Feb07 | Mar07 | Apr07 | May07 | June07 | buyer | price | km | whybuyr |
| Cow milk Produced | 1 | | | | | | | | | | | | | | | | | |
| Fresh cow milk Sold | 2 | | | | | | | | | | | | | | | | | |
| Sour cow milk sold | 3 | | | | | | | | | | | | | | | | | |

Q10.2 Other livestock products produced during the period July 2006 to June 2007

liveprod07.sav (Key variables: hhid, liveprod)

| Livestock Product | Average number of animals producing over the year | Number of months of production per year | Average Quantity production/month | Unit of Production. 2=Kgs 3=litres 22=Trays 5=Numbers 1=90kg bag 14=wheelbarrow 15=cart 16=canter 17=pickup | Number of months of sales per year | Average quantity sold per month | Price received per Unit (Kshs) on the largest sale | Buyer type of largest sale 1=Cooperative societies 2=K.C.C. 3=Private processors /traders 4=Hawker /informal trader 5=Institutions/Hotels 6=Consumer /Neighbor /Farmer 7=Honey refinery 8=Other, specify_____ |
|--------------------------|---|---|-----------------------------------|--|------------------------------------|---------------------------------|--|---|
| liveprod | animprod | mnthprod | avgprod | unit | Mnthsold | qtysold | price | buyer |
| Goat milk | 2 | | | | | | | |
| Camel milk | 3 | | | | | | | |
| Honey | 4 | | | | | | | |
| Eggs | 5 | | | | | | | |
| Hides and skin | 6 | | | | | | | |
| Fish (if have fish pond) | 7 | | | | | | | |
| Wool | 8 | | | | | | | |
| Other, specify_____ | 9 | | | | | | | |

Q11.0 Did this household use **Artificial Insemination (A.I)** on cattle from July 2006-June 2007? (1=Yes) (2=No go to Q11.2) **AI** _____

Q11.1 If Yes, What was the **source** of the A.I? (1=Govt 2=Private 3=NGO 4=CBO 5=cooperative 6=Other, specify_____) **SORCEAI** _____

Q11.2. In total over the period July 2006 to June 2007, how much money did you spend on **the following services** for your **livestock**?
livescost07.sav (Key variables: hhid, animsp)

| Animal Species | Purchased feeds | Vet serv+Vaccinations | Tick control | Deworming | AI service cost | Natural Insemination | Farm Structures |
|-----------------------|-----------------|-----------------------|--------------|-----------|-----------------|----------------------|-----------------|
| animsp | animfeed | vetserv | tickcont | deworm | aiserv | bullserv | frmstr |
| 1. Cattle | | | | | | | |
| 2. Dairy Goats | | | | | | | |
| 3. Goats/sheep(local) | | | | | | | |
| 4. Improved Chicken | | | | | | | |

Q11.3 In total, how much did you spend on **salaried** farm worker(s) for **livestock** activities from **July 2006 to June2007**? **SALLSTK** _____
 (Enumerator Instruction: remember to consider only the proportion of time spent on livestock activities on apportioning salary)

Q11.4 Did you receive any of **livestock** or **livestock inputs** on **credit**? (1=Yes) (2=No go to Q12.1) **LIVECRD** _____

Q11.5 If Yes, give details in the table below:

livestinput07.sav (Key variables: hhid, input)

| Input /livestock used | Form of credit | Source of credit | Value of Credit | Mode of repayment |
|---|----------------------|--|-----------------|--|
| input | mdpurch | source | cvalue | modpay |
| 1=Animal feed 2=Vet service or vaccines 3=Acaricides 4=Dewormers 5=AI service 6=Bull service 7=dairy cow 8=dairy goat 9=Other livestock 10= Other, specify_____ | 1= cash 2=In kind | 1=small trader 2=Stockist 3=large company 4=NGO /CBO 5=farmer /neighbour 6=Farmer group 7=AFC 8=Breeders 9=Banks 10=SACCOs 11=MFI 12= Self help groups 13=co-operative 14=other, specify_____ | | 1=crop revenue 2=livestock revenue 3=off farm income 4=both livestock and crop revenue 5=Other, specify_____ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Q12.1 Have you ever practiced **on-farm feed conservation**? (1=Yes) (2=No go to Q12.3) **CONSERV** _____

Q12.2 If yes, which **methods** did you use? (specify up to 2 methods)
 0=None 1=Hay 2=Silage 3=Crop Residuals 4=Other, specify____ **FEEDPRS1** _____
FEEDPRS2 _____

Q12.3 Do you practice **Zero grazing** in your farm? (1=Yes) (2=No go to Q13a) **ZGRAZE** _____

Q12.4 If Yes, which **year** did you start practising **zero grazing**? **YRGRAZ** _____

EXTENSION and GROUP PARTICIPATION

Q13a. Did you **actively seek advice** on crop or livestock between **July06 to June07**? (1=Yes) (2=No go to Q13c) **SEEKADV** _____

Q13b. If Yes, who did you **approach** for the advice? **ADVISOR1** _____ **ADVISOR2** _____
 (1=public extension agent 2=private extension agent 3=neighbour/farmer 4= ASK Shows 5=traders/input dealers 6=radio /television 7=family/friend 8=newspaper/magazines
 9=farmer organizations/cooperatives 10=field days/demonstrations 11= NGO agent 12=research organizations 13= other, specify_____)

Q13c. If No, why didn't you seek advice? (**Give up to 2 reasons**) **SEEKNOT1** _____ **SEEKNOT2** _____
 (1=long distance 2=Expensive 3=time consuming 4=extension agents not available 5=other , specify _____)

Q13d. If **extension services** in general were to be availed at a fee, would you be **willing to pay**? (1=Yes go to Q13f) (2=No) **AVAILFEE** _____

Q13e. If **not willing to pay** for extension services, why? **WHYFEE** _____
 (1=can't afford 2= it is a government role 3=free services available 4=bad past experience 5=don't need extension service 6=other, specify_____)

Q13f. How much would you be willing to compensate an extension worker who comes to train you for **three hours** on a **new technology** that you **urgently need** for the following:
extension07.sav (Key variables: hhid, serv)

| | Service | Individual | Group of 20 Members | |
|---|--|-------------------|----------------------------|--|
| | serv | indiv | grp20 | |
| 1 | Dairy production | | | 14= Above 320, specify the amount _____ |
| 2 | Maize production (fertilizer and seed use,) | | | 13 = Ksh 320 |
| 3 | Horticultural production | | | 12 = Ksh 280 |
| 4 | Other (specify) | | | 11 = Ksh 240 |
| | | | | 10 = Ksh 200 |
| | | | | 9 = Ksh 180 |
| | | | | 8 = Ksh 160 |
| | | | | 7 = Ksh 140 |
| | | | | 6 = Ksh 120 |
| | | | | 5 = Ksh 100 ← <i>Start at this level (go up and down depending on response)</i> |
| | | | | 4 = Ksh 80 |
| | | | | 3 = Ksh 60 |
| | | | | 2 = Ksh 40 |
| | | | | 1 = Ksh 20 |
| | | | | 0= Cannot pay for this specific service |

Q13g. Is anyone in this household a **member** of any **co-operative or group or out-grower group**? (1=Yes) (2=No go to Q14a) **GRPMEM** _____

Q13h. If Q12a=1 (Yes), indicate **which cooperatives/groups** the household belongs to? (Specify up to 3) **GRPMEM1** _____
GRPMEM2 _____
GRPMEM3 _____
 (1=producer cooperatives 2=multi-purpose cooperative 3=savings & credit cooperatives
 4=informal/self help groups 5=out-grower company 6=others, specify_____)

Q13i. What **services** do you get from the group or cooperative? (Specify up to 3) **SERV1** _____
SERV2 _____
SERV3 _____
 (0=none 1=Training 2=Marketing 3=Input acquisition 4= Financial services 5=A.I services)

Q15 ADDITIONAL ADULTS AND CHILDREN NOW RESIDENT BUT NOT LISTED IN 2004

Filename: demogA07.sav Key variables: hhid, mem

Reference Period: July 2006 to June 2007

| ID | Name | In which year was this person born? | What is the sex of? 1=male 2=female | Relation-ship to current head <i>See codes below</i> | Marital Status <i>See codes below</i> | Is Currently attending school? 1 = Yes 2 = No | What is the highest level of education. completed? <i>See codes below</i> | What year did come to reside here? | How many months in the period July 2006 to June 2007 has this person been living at home? | Was a member of this hh in 2004? 1 = Yes-> AD14 2 = No | How did this new member join the household ? <i>See codes below</i> | Before coming to reside in this hh, was ... engaged in 1 = yes, 2 = no, -9=don't know | | | After coming to reside in this household | | |
|-----|------|-------------------------------------|--|---|--|---|--|---|---|--|--|---|---------------------------------|-------------------------|---|---|--|
| | | | | | | | | | | | | Formal or informal business activity | Formal sector salary employment | Farming some-where else | Did this person receive cash from a formal or informal business activity between July 2006 & June 2007? 1=Yes 2=No | Did this person receive cash or payment in kind from salaried employment, wage activities, remittances, or pensions between July 2006 & June 2007? 1=Yes 2=No | Has this person been chronically ill for any 3 month period in the last 12 months and unable to perform hh duties? 1= Yes 2= No |
| mem | name | AD01 | AD02 | AD03 | AD04 | AD05 | AD06 | AD07 | AD08 | AD09 | AD10 | AD11 | AD12 | AD13 | AD14 | AD15 | AD16 |
| 71 | | | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

- | | | | |
|-----------------------------|-----------------------|-------------------------|---|
| Rship to head (AD03) | Marital Status | Education levels | New HH member (AD10) |
| 1= head | 1 = single | -9=None | 1=married into the family |
| 2= spouse | 2 = | 6=std 6 | 2=returned to hh to help with hh activities |
| 3= own child | 3 = | 7=std 7 | 3=returned to the hh because he/she is sick |
| 4= step child | 4 = | 8=std 8 | 4=hh member missed during 2004 survey |
| 5= parent | 5 = | 9= form1 | 5=lost parents (orphaned) |
| 6= brother/sister | 6 = | 10 = form 2 | 6=fostered |
| 7= nephew/niece | 7 = other, | 11=form 3 | 8=worker |
| | | 12=form 4 | 9=attend school |
| | | 13=form 5 | 10=separated/divorced |
| | | 14=form 6 | 11=death of spouse |
| | | 15= college 1 | 12=ran away from home |
| | | 16= college 2 | 13=lost job |
| | | 17= college 3 | 14=inherited household |
| | | 18= college 4 | 15=live with relatives |
| | | 19=univ 1 | 16=born |
| | | | 7=specify, other_____ |

MORTALITY: Reference Period is Since 2004

For some years, we have been following the progress of a number of households across the country including yourselves. Since we would like to monitor changes in welfare in different parts of the country, we would like to understand all the changes that happened in every household in our sample since the last time we interviewed you in 2004. We appreciate your responses.

16.0 Since 2004, has there been any household member who has died? (1=Yes) (2=No go to Q17)

DEATH _____

16.1 If 16.0 =Yes, could you tell us about them starting from the most recent.

mortality07.sav (Key variables: *pdmem, mem*)

Reference Period: Since June 2004

| Person ID | If this person is listed in the DEMOG table, indicate his or her id number (MEM). | Write the Name | Sex 1=Male 2=Female | Relationship to head <i>See codes below</i> | In which year was this person born? | In which year did this person die? | What was the cause of death? | What was the highest level of education completed? |
|--------------|---|----------------|---------------------------|--|-------------------------------------|------------------------------------|------------------------------|--|
| pdmem | mem | name | PD01 | PD02 | PD03 | PD04 | PD05 | PD06 |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |

Cause of death (PD05)

| | |
|-----------------------|---------------------------------------|
| 1 = Pneumonia | 17 = Snake bites |
| 2 = Malaria | 18 = Old age |
| 3 = TB | 19 = Other sudden death within 4 days |
| 4 = Chronic diarrhoea | 20 = Don't know |
| 5 = Meningitis | 22=Cancer |
| 6 = Anaemia | 23=Asthma |
| 7 = Fits | 24=Diabetes |
| 8 = Mental illness | 25=Yellow fever/measles |
| 9 = Heart disease | 26=Birth-miscarriage |
| 10 = Chest pains | 27=Kwashiorkor |
| 11 = Stomach disease | 28=Miscellaneous illness |
| 12 = Stroke | 29=Alcohol |
| 13 = HIV/AIDS | 30=Typhoid |
| 14 = Accident | 31=Cholera |
| 15 = Suicide | 21 = Other, specify _____ |
| 16 = Murdered | |

Relationship to head (PD02)

| |
|--------------------------|
| 1 = head |
| 2 = spouse |
| 3 = own child |
| 4 = step child |
| 5 = parent |
| 6 = brother/sister |
| 7 = nephew/niece |
| 8 = son/daughter-in-law |
| 9 = grandchild |
| 10 = other relative |
| 11 = unrelated |
| 12=brother/sister-in-law |
| 13 =parent-in-law |
| 14 =worker |

Education levels

| | |
|--------------|-------------------|
| -9=None | 14=form 6 |
| 0=pre school | 15= college 1 |
| 1=std 1 | 16= college 2 |
| 2=std 2 | 17= college 3 |
| 3=std 3 | 18= college 4 |
| 4=std 4 | 19=univ 1 |
| 5=std 5 | 20=univ 2 |
| 6=std 6 | 21=univ 3 |
| 7=std 7 | 22=univ 4 |
| 8=std 8 | 23=univ 5 & above |
| 9= form1 | |
| 10 = form 2 | |
| 11=form 3 | |
| 12=form 4 | |
| 13=form 5 | |

Q17 BUSINESS AND INFORMAL LABOUR ACTIVITIES

We would like to know about all the off-farm income earning activities, including share dividends, your household was involved in, **except salaried employment pensions and remittances**. Please list the names of all persons from the demography table who indicated they had engaged in a business or informal labour activity, then enter their corresponding person code From the list below, please list all the informal income earning activities for which this person had primary responsibility at any time during the past 12 months (July 2006-June 2007) (include jua kali and farm kibaruas). **(Probe for charcoal burning, fishing and own tree selling)**

business07.sav (Key variables: *hhid, mem, activity*)

| Person name | Person code | Activity Code | Please classify each month's net earnings as: | | | | | | | | | | | | Low earnings month | | Average earnings month | | High earnings month | |
|-------------|-------------|---------------|---|------|------|-------|-------|------|-----------|------|------|--------|------|------|--------------------|-------|------------------------|-------|---------------------|-------|
| | | | 0=none | | | 1=low | | | 2=average | | | 3=high | | | lgross | lcost | agross | acost | hgross | Hcost |
| | | | 7/06 | 8/06 | 9/06 | 10/06 | 11/06 | 12/0 | 1/07 | 2/07 | 3/07 | 4/07 | 5/07 | 6/07 | | | | | | |
| name | mem | activity | Jul | Aug | Sept | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Activity Codes:

- | | | | | | |
|--------------------------------|---------------------------------|----------------------------|----------------------------------|-----------------------|--------------------------------|
| 58 Accounting clerk | 8 Charcoal burning | 70 Harvesting | 24 Mining | 43 School business | 38 Transporter (goods) |
| 1 Agricultural trading | 9 Clothes/shoes business | 17 Hawker | 74 Non-agricultural business | 31 Selling mandasi | 55 Tree seller, commercial |
| 46 Bar operator | 51 Cobbler | 57 Hiring out a bull | 54 Nurse | 32 Selling water | 52 Vehicle mechanic |
| 64 Battery charging | 10 Curio trader | 73 Hotel | 68 Pet breeder | 69 Sheep shearer | 45 Veterinary doctor |
| 2 Bicycle (repair/transporter) | 11 Dealing ropes/sisal/firewood | 18 Jaggery | 25 Photography | 33 Spraying | 67 Video business |
| 60 Boat making | 12 Driver | 49 Laundry business | 63 Pit latrine digger | 50 Surveyor | 56 Village elder |
| 3 Brick making | 13 Earning dividends | 19 Livestock trader | 26 Planting | 34 Tailor | 39 Weaving |
| 4 Brokerage | 14 Electrician | 20 Local brewing | 27 Ploughing | 65 Teacher, part time | 40 Welding/painting/blacksmith |
| 62 Building | 72 Income from another farm | 42 Lumbering/wood cutting | 47 Plumber | 61 Thatching grass | 66 Wine tapper |
| 5 Butcher | 7 Farm kibarua | 21 Making pots | 28 Posho miller | 35 Timber trading | 71 Other, specify_____ |
| 6 Carpentry | 15 Fish trading | 22 Masonry | 29 Rental of properties | 59 Tour guide | |
| 75 Casual worker | 44 Hair dresser / barber | 23 Matau business | 30 Retail shop/kiosk/shopkeeping | 36 Tout | |
| | 16 Harrowing | 41 Medical health business | 53 Sand harvesting | 37 Traditional doctor | |

Q18 SALARIED WAGE EMPLOYMENT/PERMANENT EMPLOYMENT ACTIVITIES

We would now like to talk about all *salaries employment* that anyone in this household engaged in during the past 12 months from **July 2006 to June 2007** including **pensions and remittances**. For remittances remember to separate into local and from abroad, depending on source. Include only income remitted back to household.

salwg07.sav (Key variables: *hhid mem activity*)

| Person name Please list the names of all persons from the demography table who indicated they had engaged in <i>salaries employment activities</i> , then enter their corresponding person code | Person code | From the list below, please list all the <i>salaries employment activities</i> in which this person was engaged at any time during the past 12 months | What is this person's current monthly wage? Kshs | Did this person earn this same monthly wage during all of the past 12 months? 1=Yes (go to next activity) 2=No | If the person did <i>not</i> earn the same wage during all 12 months, please indicate the wage earned for each month individually (Kshs) | | | | | | | | | | | |
|--|-------------|---|---|--|--|------|------|-------|-------|-------|------|------|------|------|------|------|
| | | | | | <i>Skip this section if person received the same monthly wage during the whole year</i> | | | | | | | | | | | |
| Name | mem | activity | mnwage | samewage | 7/06 | 8/06 | 9/06 | 10/06 | 11/06 | 12/06 | 1/07 | 2/07 | 3/07 | 4/07 | 5/07 | 6/07 |
| | | | | | Jul | Aug | Sept | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Employment Codes:

- | | | | | |
|------------------------|----------------------|---------------------|-------------------------------|-------------------------------|
| 18 Accountant | 25 Construction | 7 House help | 64 Petrol seller | 29 Subordinate civil services |
| 5 Administrator | 51 Cook/caterer | 8 Industrial | 53 Plumber/battery | 32 Surveyor |
| 38 Banker/receptionist | 49 Craftsman/artisan | 33 Lab attendant | 11 Policeman/woman | 41 Tailor |
| 50 Butcher | 45 Driver | 58 Lawyer | 59 Postmaster | 14 Tea picker |
| 44 Cane cutter | 4 Doctor | 21 Lecturer/tutor | 12 Remittance (local) | 15 Teacher |
| 1 Caretaker/groundsman | 40 Electrician | 30 Lumber | 65 Remittance (abroad) | 54 Technician |
| 55 Carpenter/mason | 36 Engineer | 19 Manager | 63 Research | 26 Veterinary doctor |
| 34 Chief | 56 Equipment | 39 Mechanic | 22 Road constructor | 16 Waiter/cook |
| 2 Civil leader | 46 Extension agent | 28 Messenger | 13 Sales person | 17 Watchman |
| 20 Cleaner | 52 Fishing | 60 Miller | 31 Secretary | 43 Welding |
| 23 Clerk | 61 Forester | 9 Nurse | 24 Shop keeper/attendant | 42 Other, specify_____ |
| 3 Committee member | 6 General farm | 27 Pastor/religious | 57 Soldier | |
| 35 Conductor | 47 Hair dresser | 10 Pension | 62 Sports/coach | |

19a. What was the main source of the remittances?

(1=Son/Daughter 2=Other relative 3=friend 4=Well wisher 5=Other, specify_____)

REMIT _____

19b. If the household received remittance, what was the main mode of delivery?

(1= Hand delivery 2=Bus 3=Western union 4=Posta pay 5=Money gram 6=M-pesa 7=Sokotel 8=Telegraphic money Order 9= Postal Order 10=Courier 11=Other, specify_____)

MREMIT _____

ACCESS TO RURAL SAVINGS/BANK ACCOUNTS

Q20a. Does any member of the household have a savings/bank account (1=Yes) (2=No go to 21.1)

ACCOUNT _____

Q20b. Enumerator to probe for all savings accounts including cooperatives, ROSCAs e.t.c for all hh members)

savings07.sav (Key variables: *hhid, mem*)

| Person with the account | Member number (from the demog file) | Where is the savings account 1=Post Bank 2=SACCO 3=Commercial Bank, specify_____ 4=MFI, specify_____ 5=Groups (ROSCAs) 6=Village bank 7= Other, specify_____ | Km to Banking point | Which year did you open the account |
|-------------------------|-------------------------------------|--|---------------------|-------------------------------------|
| | Mem | Saves | kmbank | acopen |
| Head | | | | |
| Spouse | | | | |
| Other1 | | | | |
| Other2 | | | | |
| Other3 | | | | |

LAND OWNERSHIP AND INHERITANCE

Q21.1 In what year was this household formed (when you received land to farm on your own): write the Year (e.g., 1985)?

YRFORM _____

Q21.2 In what year did your father's family (HH heads father) settle in this area? (Use 0 if father never settled there)

YRSET _____

Q21.3 Has land been forcefully taken away from this Household in the last 10 years (1=Yes) (2=No)

LDTAKE _____

Ask about the original family of the household head and spouse (if the respondent does not know the answer, use -9)

inheritance07.sav (Key variables *hhid, mem*)

| Person | Person ID** | How much land in acres did the parents of this person have before the land was inherited by any of this person's siblings | How much land in acres did this person inherit from his/her parents? | How many wives did his/her father have? | Number of all children of his/her father | | Birth order among all children of his/her father | | Where was this person born? 1=Within sublocation 2=Within district but outside sublocation 3=Outside of district | If pborn=2 or 3, in which year, did this person start living in this sublocation? | (For enumerator) MEM number for respondent to these questions |
|----------|-------------|---|--|---|--|--------|--|--------------------------------|---|---|---|
| | | | | | Male | Female | Among all children of his/her father | Among all children of same sex | | | |
| pmem | mem | pacres | acres | wife | mchild | fchild | forder | sorder | pborn | slive | resp |
| Head=1 | | | | | | | | | | | |
| Spouse=2 | | | | | | | | | | | |

**Even if the spouse was deceased, ask the respondent about the spouse. If the deceased spouse does not have ID on the Demography section, fill -99 in the spouse's ID. If the head has not been married yet, fill 0 in the spouse's ID.

Q22 PURCHASES FOR HOME CONSUMPTION between July 2006 and June 2007

(Enumerator Instruction: Relate the periods to either food deficit or surplus periods. Note if a specific product is gift/relief if not maize grain.)

purch07.sav (Key Variables: hhid purch)

| Purchased Products | purch | About how much did you buy over the past 4 months – March 2007 - June 2007? | | Price per Unit | About how much did you buy between November 2006 and February 2007? | | Price per Unit | About how much did you buy between July 2006 and October 2006? | | Price per Unit | Complete only if the respondent cannot answer by 4 month periods | Average Price Per unit over year | |
|------------------------------|-------|---|-------|----------------|---|-------|----------------|--|-------|----------------|--|----------------------------------|----------|
| | | Qty1 | Unit1 | Price1 | Qty2 | Unit2 | Price2 | Qty3 | Unit3 | Price3 | About how much did you buy over these 12 months? | | |
| | | Qty1 | Unit1 | Price1 | Qty2 | Unit2 | Price2 | Qty3 | Unit3 | Price3 | TotQty | TotUnit | TotPrice |
| Cash or barter - maize grain | 1 | | | | | | | | | | | | |
| gift/relief-maize grain | 2 | | | | | | | | | | | | |
| Packaged sifted maize meal | 3 | | | | | | | | | | | | |
| Posho meal | 4 | | | | | | | | | | | | |
| Wheat flour | 5 | | | | | | | | | | | | |
| Rice | 6 | | | | | | | | | | | | |

Unit Codes:

1= 90 kg bag
 11= 50 kg bag
 2=kg bag

18 = 2 kg packet
 7 = 25 kg bag

9=gorogoro
 12=debe

19 = 1 kg packet
 20 = 5 kg bag
 8 = 10 kg bag

Q23 EXPENDITURES ON FRUITS AND VEGETABLES OVER THE PAST 30 DAYS

consumpt07.sav (Key variables: hhid, item)

| Food Item | Did the HH purchase this item over the PAST 30 DAYS? 1 = yes 2 = no—>go to JANPUR | If your household purchased this item during the PAST 30 DAYS | | | | | Thinking back to January 2007 , what was the approximate quantity purchased of this item (same unit code) (Enumerator Instructions: If the household did not purchase this item in the past 30 days, record the unit of measure in UNITPUR.) | What was the total expenditure on this item in January 2007 ? (KShs) |
|--------------------|---|--|---|---------|-----------------|--------|---|---|
| | | Where did HH purchase most of this product? <i>See purchase location codes bottom next page</i> | TOTAL Quantity purchased by hh over the past 30 days? (see unit codes below) | | ANSWER ONLY ONE | | | |
| Item | purch | locpur | qntpur | unitpur | price | totexp | janpur | jtotexp |
| Vegetables: | | | | | | | | |
| Irish Potatoes | 26 | | | | | | | |
| Tomatoes | 28 | | | | | | | |
| Cabbage | 29 | | | | | | | |
| Sukuma wiki | 30 | | | | | | | |
| Carrots | 31 | | | | | | | |
| Onions | 32 | | | | | | | |
| Fruits: | | | | | | | | |
| Bananas (ripe) | 34 | | | | | | | |
| Cooking Bananas | 35 | | | | | | | |
| Avocado | 36 | | | | | | | |
| Oranges | 37 | | | | | | | |
| Pawpaws | 38 | | | | | | | |
| Mangoes | 39 | | | | | | | |

Purchase Location Codes:

1=Large Supermarket Chains (Uchumi, Nakumatt, Ukwala, Tusker)
 2=small supermarket (not a chain)
 3=Duka /Shop
 4=Green grocer (building with concrete/stone walls, electricity -- permanent construction)

5=Market
 6=Hawker (seller with no physical sales infrastructure)
 7=Kiosk or Kibanda (non-permanent construction)
 8=Neighbour

9=Restaurant
 10=Institutions
 11=Other, specify _____

Unit Codes :

1=90 kg bag
 2=kgs
 4=crates
 7=25 kg bag
 5=numbers
 6=bunches(bananas)
 9=gorogoro
 11=50 kg bag
 12=debe

Q24 HOUSEHOLD ASSETS (PROMPT for each item as listed below)

At present, how much/many of the following does this household own that are usable/repairable?

(Enumerator Instructions: For value per unit, ask for the current purchase price of the asset as is or the current market value of the asset as it is.)

asset07.sav (Key Variables: *hhid, asset*)

| Agricultural asset | | Quantity | Value per Unit (Ksh) | If Value/Unit not known Ask for Total Value | Agricultural asset | | Quantity | Value per Unit (Ksh) | If Value/Unit not known Ask for Total Value |
|--------------------|----------------------|----------|----------------------|---|--------------------|------------------------|----------|----------------------|---|
| asset | | qty | value | Totval | Asset | | qty | value | Totval |
| 31 | houses (residential) | | | | 27 | bicycle | | | |
| 23 | stores | | | | 34 | motorcycle | | | |
| 43 | poultry houses | | | | 18 | car | | | |
| 44 | piggery houses | | | | 19 | truck | | | |
| 29 | zero-grazing units | | | | 17 | tractor | | | |
| 25 | wheel barrow | | | | 16 | trailer | | | |
| 39 | chaf cutter | | | | 13 | ploughs for tractor | | | |
| 28 | radio | | | | 53 | harrow/tiller | | | |
| 36 | TV | | | | 58 | ridger/weeder | | | |
| 40 | solar panels | | | | 55 | planter | | | |
| 41 | battery | | | | 47 | boom sprayer | | | |
| 46 | land line telephone | | | | 54 | sheller | | | |
| 71 | mobile Phone | | | | 26 | combine harvester | | | |
| 42 | weighing machine | | | | 57 | generator | | | |
| 52 | pestle and mortar | | | | 37 | power saw | | | |
| 22 | water tanks | | | | 35 | grinder | | | |
| 30 | beehive | | | | 38 | jaggery unit | | | |
| 45 | water pump | | | | 59 | cane crusher | | | |
| 33 | borehole | | | | 50 | donkey | | | |
| 49 | dam | | | | 61 | oxen | | | |
| 60 | well | | | | 14 | animal traction plough | | | |
| 21 | irrigation equipment | | | | 15 | cart | | | |
| 48 | cattle dip | | | | 62 | other (specify) | | | |
| 20 | spray pump | | | | | | | | |
| 51 | water trough | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

25a. If you do not own a **mobile phone**, do you **have access** to one (that you can use)? (1=Yes) (2=No)

MOBACC _____

25b. If Yes, from **whom do you access the mobile?** (1=neighbour 2= relative 3=Other, specify _____)

ACCMOB _____

INFRASTRUCTURE

(Enumerator Instruction: Distance should be recorded in kilometers (Km))

Q 26. Distances from your homestead

- | | | |
|--|------------------------------------|----------------|
| a) What is the distance from your homestead to the nearest fertilizer seller ? | FERTSKM | _____ |
| b) What is the distance from your homestead to the nearest seller of hybrid maize seed ? | CERTMAIZ | _____ |
| c) What is the distance from your homestead to the nearest NCPB depot? (-9=don't know) | NCPB | _____ |
| d) Did this household sell any maize to NCPB in the period July 2006 to June 2007? (1 =Yes) (2=No) | NCPBBUY | _____ |
| e) If d=No , why not? (1=no depot nearby 2=no maize to sell 3=inconveniences during delivery 4=delayed payment 5= strict standards 6=lower prices 7=other, specify_____) | NCPBNOT1 NCPMNOT2 | _____ _____ |
| f) What is the distance from your homestead to extension advice ? | DEXTN | _____ |
| g) What is the distance from your homestead to veterinary help ? | DVET | _____ |
| h) What is the distance to the nearest A.I service provider | AIKM | _____ |
| i) What is the distance from your homestead to the nearest market place for farm produce ? | MKTKM | _____ |
| j) What is the distance from your homestead to a motorable road ? | DMTROAD | _____ |
| k) What is the distance from your homestead to a tarmac road ? | DTMROAD | _____ |
| l) Is the nearest tarmac road better, worse or the same as in 2004? (1=better 2=worse 3=the same 4=not sure) | CTMROAD | _____ |
| m) What is the distance to the nearest pipic water source ? | DPH2O | _____ |
| n) What is the distance to the nearest health centre ? | DHLTCTR | _____ |
| o) What is the distance to the nearest electricity supply ? | DELECT | _____ |
| p) What is the distance from your homestead to the nearest livestock market place ? (-9=don't know) | ANIMKT | _____ |
| q) What is the distance to the nearest public telephone (landline or mobile)? | PHONE | _____ |

WAGE RATES AND LAND RATES

Q27a. What is the **daily wage rate** for **general farm labour** in this area? (Ksh per day): **WAGERATE** _____

Q27b. For this wage, what is the **typical number** of hours **worked per day**? (Hours): **HOURS** _____

Q27c. What is the **land rental rate for one acre of good quality land for one year** in this area? (Ksh per acre): **LRRY** _____

Q27d. What is the **land rental rate for one acre of good quality land for one season** in this area? (Ksh per acre): **LRRS** _____

Q28 Over the **past 3 years** (from 2004), have the following **situations improved, become worse, or stayed about the same**:

| | | |
|--|-----------------|---|
| | | 1 = improved 2 = same 3 = worse 4 = don't know |
| Health care in this area | HLTHCARE | |
| Education in this area | EDUC | |
| Local government - Council services in this area | LOCGOV | |
| Opportunities to buy fertilizer in this area | BUYFERT | |
| Availability of water in this area | WATER | |
| Security in this area | SECURITY | |
| Households' well-being in this area | WELLBE | |

OBSERVE AND ASK ABOUT THE FOLLOWING:

- Q29a.** What is the **roofing** material of the **main house**?
 (1=grass /makuti 2=iron sheet 3=tiles 4=other, specify_____)
- Q29b.** What is the **wall** material of the **main house**?
 (1=mud 2=bricks/stones 3=iron sheet 4=wood 5=plastered 6=other, specify_____)
- Q29c.** What is the **floor** material of the **main house**?
 (1= earth 2=cement 3=wood 4=tiles 5=other, specify_____)
- Q29d.** What is the mode of ownership of the **main house** ?
 (1= owned 2= rented 3= owned by relative 4=other, specify_____)
- Q29e.** What type of **toilet** do you use?
 (1= pit latrine 2= bush 3= flush toilet 4= other, specify_____)
- Q29f.** What is the **main** source of water for domestic use during the **wet-season**?
 (1=Pond 2=dam /sanddam 3=lake 4=stream/river 5=unprotected spring 6=protected spring 7=well 8=borehole
 9=piped into compound 10=piped outside compound 11=water tankers 12=roof catchments 13=waterhawkers-cart /bodaboda 14= other, specify_____)
- Q29g.** What is the **main** source of water for domestic use during the **dry-season**?
 (1=Pond 2=dam /sanddam 3=lake 4=stream/river 5=unprotected spring 6=protected spring 7=well 8=borehole
 9=piped into compound 10=piped outside compound 11=water tankers 12=roof catchments 13=waterhawkers-cart /bodaboda 14= other, specify_____)
- Q29h.** What is your **main cooking fuel**?
 (1=electricity 2=paraffin 3=firewood 4=gas 5=charcoal 6=solar power 7=other, specify_____)
- Q29i.** What is your **main type of lighting**?
 (1=electricity 2=pressure lamp 3=tin lamp 4=fuel wood 5=lantern 6=solar power 7=other, specify_____)
- Q30** Is your family **better off, worse off, or about the same** as most households in this area?
 (1=better off 2=worse off 3=about the same)

ROOF _____

WALL _____

FLOOR _____

HSEOWN _____

TOILET _____

MAINWET _____

MAINDRY _____

COOKFUEL _____

LITFUEL _____

COMPARE _____

(Enumerator Instruction: For the following two questions, please ask the name of the underlying tribe and fill the name but codes are only provided for the group level tribes. For example, if the group is Kalenjin, the code is 4, but the underlying tribe could be Kipsigis or Nandi so write either of those in the specify section)

Q31a. From which **tribe** is the Household **head**? *(See code below)* **TRIBEHD** _____ **SPECIFY** _____

Q31b. From which **tribe** is the **spouse** of the household head? *(See code below)* **(Use 0 if no spouse)** **TRIBESP** _____ **SPECIFY** _____

Ethnicity Codes:

1=Embu 2=Luo 3=Luhya 4=Kalenjin 5=Kamba 6=Kikuyu 7= Kisii 8= Maasai 9= Mbeere 10= Meru 11= Teso 12=Mijikenda 13=Taita 15=Taveta 16=Other, specify_____

Thank You!