

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

Location of data files: C:\docs\Kenya\Kenyahh2007\augdata

Files created for this questionnaire

File Name	Level of Data	Page	Table Description
Allhhid07	Household	4	Contains all the households that were to be interviewed
Hhidfinal07	Household	4	Contains all the households that completed the interview
Hh07	Household	5	General household level questions
Incrop07	Household, harvest, crop	14	Crop inventory- field crops, fruit trees, vegetables
Field07	Household, harvest, field	15	Acreage, tenure systems, land preparation types and costs
Croplev07	Household, harvest, field, crop	15	Details on crops grown, seeds used, quantities harvested and sold (and spoiled for fruits and vegetables only), buyer types
Fert07	Household, harvest, field	16	Types and quantity of fertilizer used per field
Maizeseed07	Household, field, harvest	17	Types of maize seed varieties used and their sources
Input07	Household, input type	18	Inputs bought in cash or on credit
Nagred07	Household, main use of credit	19	Sources, uses and value of credit for non-agricultural purposes
Labour07	Household, activity	19	Labour inputs for the largest maize field
Livestock07	Household, livestock type	20	Livestock inventory, purchases and sales
Cowmilk07	Household, cow milk (produced, sold-fresh or sour)	21	Quantities of cow milk produced and sold fresh or in sour form
Liveprod07	Household, livestock product	21	Livestock products produced and sold apart from cow milk
Livescost07	Household, animal species	22	Costs incurred with regard to livestock
Livestinput07	Household, livestock input	22	Livestock and livestock inputs acquired on credit
Extension07	Household, extension service	22	Gauges the amounts respondents are willing to pay for various extension services
Demog07	Household, member number	23	Details about all household members listed in 2004
DemogA07	Household, member number	24	Details about additional members not listed in 2004
Mortality07	Household, member number	25	Details about deaths in the households since 2004
Business07	Household, member number, activity	26	Business and informal labour activities
Salwg07	Household, member number, activity	27	Salaried wage/ permanent employment activities including pension and remittances
Savings07	Household, member number	28	Details on savings accounts held by household members
Inheritance07	Household, member number	28	Land ownership and inheritance details for head and spouse
Purch07	Household, item purchased	29	Quantities of selected dry food items bought. Includes maize grain obtained as gift or relief
Consumpt07	Household, item purchased	30	Quantities of selected fruits and vegetables bought
Assets07	Household, asset	31	Household agricultural assets

Identifying Location Variables: in all files.

Province:

1= Coast
3= Eastern
4= Nyanza
5= Western
6= Central
7= Rift Valley

Variable
prov _____

District:

11 Kilifi	32 Machakos	36 Embu	43 Siaya	52 Kakamega	62 Nyeri	71 Bomet	75 Uasin Gishu
12 Kwale	33 Makueni	37 Mbeere	44 Nyamira	53 Vihiga	63 Kiambu	72 Nakuru	77 Nandi North
13 Taita Taveta	34 Meru	41 Kisii	45 Homabay	54 Busia	64 Nyandarua	73 Narok	78 Nandi South
31 Kitui	35 Mwingi	42 Kisumu	51 Bungoma	61 Muranga	65 Thika	74 Trans Nzoia	81 Laikipia

dist _____

Division:

111 Kalolenii	342 E. Abothogucii	432 Uranga	613 Kiharu	711 Kimulot	755 Kapseret
112 Bahari	343 Miriga_Meru East	441 Borabu	614 Maragwa	712 Central Bomet	772 Kosirai
121 Kinango	351 Migwani	451 Asego	622 Mukurweini	713 Siongiroi	773 Kapsabet
122 Msambweni	361 Manyatta	511 Kanduyi	623 Othaya	721 Mbogoine	774 Kibiyet
131 Mwatate	362 Kyeni	512 Kimilili	624 Kieni West	722 Molo	781 Kaptumo
132 Magarini	371 Siakago	513 Tongaren	625 Kieni East	723 Njoro	811 Lamuria
135 Malindi	372 Gachoka	521 Kabras	631 Githunguri	724 Rongai	
311 Chuluni	373 Mwea	522 Mumias	632 Lari	731 Ololunga	
321 Mwala	411 Marani	523 Lugari/Likuyani	633 Kikuyu	741 Cherangani	
322 Masinga	421 Kadibo	524 Municipality	634 Limuru	742 Saboti	
331 Kilome	422 Nyando	531 Sabatia	641 N. Kinangop	743 Kaplamai	
332 Kisau	423 Winam	541 Matayos	642 OIKalou	751 Ainabkoi	
333 Kaiti	424 Maseno East	611 Kandara	651 Gatanga	752 Moiben	
334 Matiliku	431 Bondo	612 Kangema	652 Kamwangi	753 Turbo	

div _____

Location:

111 Buni	612 Gikindu	3611 Nginda	6332 Kikuyu
112 Rabai	613 Muguru	3612 Ruguru	6341 Ndeiya
121 Vigurugani	621 Muhito	3621 Kyeni North	6421 Ruiiri
122 Pongwe/ Kidimwi	622 Chinga	3711 Muminji	6511 Gatanga
131 Mwakitau	711 Kimulot	3721 Kithunthiri	6521 Chania
311 Mbitini	721 Sachangwan	3731 Makima	7121 Merigi
321 Mwala,	722 Ngata	4212 East Kochieng	7131 Moqor
331 Itaani	723 Weseges	4241 Seme	7531 Kapyemit
332 Kithangathini	731 Melelo	4411 Nyansiongo	7532 Soiani
333 Kilungu	741 Kinyoro	4412 Esise	7533 Kamagut
334 Kilome/ Kilungu	742 Kaplamai	4511 Homabay Township	7551 Kapseret
341 Githongo	751 Sergoit	5112 Bukembe	7721 Itigo
342 Katheri	752 Olare	5113 Kibabii	7722 Lelmoko
343 Katheri East	753 Chepkiolel/Kapsoya	5131 Mbakalu	7723 Sigot
351 Migwani	754 Karona	5231 Nzoia	7724 Kapisaka
411 Mwamunari	755 Sergoit	5232 Sinoko	7725 Chepterit
412 Kegogi,	811 Thigiti	5241 Bukhungu	7731 Kapsabet
421 Kobura	821 Katuli	5411 Bukhaya West	7732 Kipture
422 Awasi	1121 Matsangoni	6108 Ngararia	7733 Baraton
423 C. Kolwa	1311 Ganda	6112 Kambirwa	7811 Kaptumo
431 Usonga	1312 Chakama	6121 Ichagaki	7812 Kabois
432 N. Sakwa	1321 Magarini	6122 Nginda	8111 Ngobit
511 Bukembe	2110 Dadawa	6221 Gakindu	
512 Kamukunywa	3221 Masii/Kivaa	6222 Githi	
521 Etenje	3321 Kiteta	6241 Endarasha	
522 Shiruku	3331 Kilala	6251 Kabaru	
523 Likuyani	3332 Ukia	6311 Githunguri	
531 North Maragoli	3341 Kalamba	6312 Githiga	
601 Ithiru	3421 Mwanganthia	6321 Kinale	
611 Mbiri	3431 Munithu	6331 Karai	

loc

Zone – Agro-regional zone

2 = Coastal Lowlands
3 = Eastern Lowlands

4 = Western Lowlands
5 = Western Transitional

6 = High Potential Maize Zone
7 = Western Highlands

8 = Central Highlands
9 = Marginal Rain Shadow

zone

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"

Filename : hhidfinal07.sav – *only households interviewed*

Key variables : hhid

Filename : allhhid07.sav – *(all households to be interviewed)*

Key variables : hhid

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

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

_____ **MEMNUM**

Identifying Variables:

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

GPS coordinates : **HH1** : _____ (1=North 2=South) (_____ ° **DEG1** _____ `` **MIN1** _____ **SEC1**)
HH2 : _____ (1=East) (_____ ° **DEG2** _____ `` **MIN2** _____ **SEC2**)
 Altitude (Meters above sea level) **MASL** _____

IF THE HOUSEHOLD IS NOT ABLE TO PARTICIPATE IN THE SURVEY, WHY NOT? **INTVIEW** _____
 0 = Interviewed 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 9=sick 10= too old

LAND USE

- Q1a. How many **acres in total land holdings** does the household own? TACRES _____
- Q1b. How many acres of land **is currently under trees**? ATREE _____
- Q1.1a. Did this household have any cropping activity during **MAIN CROP Season 2006/2007?** (1= Yes No=2)
(Eastern Kenya refers to Jan-March 2007 harvest, Western, Coast Central July/October 2006; R.Valley Nov/Dec 2006) MAINCROP _____
- Q1.1b. How many acres of land **were leased out** in the last **main season 2006/2007?** LEASE _____
- Q1.1c. How many acres of land **were rented in** the last **main season 2006/2007?** RENT _____
- Q1.1d. How many acres of land were kept **fallow and/or abandoned** in the last **main season 2006/2007?** FALLOW _____
- Q1.2 Did this household have any cropping activity during **SHORT CROP Season 2006/2007?** (1=Yes 2=No)
(Eastern Kenya refers to Jul-Sept 2006 harvest, Western, Central Kenya Nov 2006-Jan 2007 harvests) SHOTCROP _____

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 was the **source** and the **amount** that you received from each?

CSRC1 & CSRC2	SRCCRD1 & SRCCRD2	CSRC1
1= neighbor	8= group (ROSCA)	1=Barclay's
2=farmer group	9=Village bank	8=BIMAS
3=SACCO	10=Shopkeeper	2=Equity
4=commercial bank, specify _____	11=Church	9=SAGA
5=relative/friend	12=Employer	3=Family Finance
6=NGO/MFI, specify _____	13=HELB	10=KCB
7=AFC	14=Shylock	4=K Rep
		11=Family Bank
		5=National
		6=KWFT
		7=FAULU Kenya
- Q3e. How was the **cash credit** used (1=Agricultural purposes 2=Non agricultural purposes 3=Both) CREDWHY _____
- 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= did not have an account 5=lender lacked cash 6=not yet processed) 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 – crop inputs) 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) **NCRED** _____

(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= no cropping activity 9=lowers soil productivity
10=scorching effect

(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 fertilizer 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 fertilizer 10=excessive vegetation
11=lacked advice on use 12=scorching effect

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** _____

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) **BAGSTK07** _____

Q6c. **IF Q 6b = 0** (no bags), in which **month** and **year** did the HH run out of maize stocks from **own production**? (Month) **MTHFIN07** _____
(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) **YRFIN07** _____

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 _____

0=never

7=consume wild food

14=allow children to eat more than adults

COPING2 _____

1=food relief

8=consume immature crops

15=abandonment of children, elderly and the sickly

COPING3 _____

2=rely on relatives/friends

9=consume taboo/toxic foods

16=purchase food on credit

3=skip some meals in a day

10=consume seed stocks

17=migration out of the area

4=skip meals for entire day

11=send household members to eat elsewhere

18=sell livestock

5=take reduced meals

12=beg or engage in degrading jobs

19=dispose assets

6=eat meals that are less preferred

13=withdraw children from school

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 _____

1 = more convenient now

2 = more convenient 6-7 years ago

3 = the same

4 = not sure

b) to buy maize

EZBUY _____

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

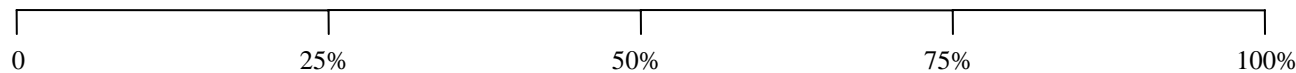
4 = not sure

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."

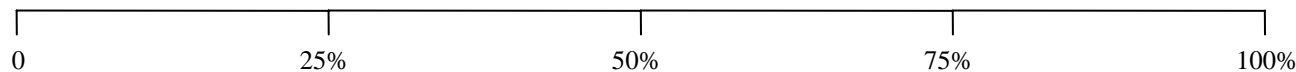
Q7.3 What proportion of **time** did the **Household Head** allocate to **farming activities (crop/livestock)** in the last one year?

TIMEHD _____



Q7.4 What proportion of **time** did the **spouse** allocate to **farming activities (crop/livestock)** in the last one year? (-9=no spouse)

TIMESP _____



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

DECISION _____

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

YEARHYMZ _____

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?**

- | | | | |
|------------------------|-------------------|---------------------|--------------|
| 0=none | 5=contour farming | 10=re-afforestation | 15=manuring |
| 1=terracing | 6=crop rotation | 11=agro forestry | 16=sand bags |
| 2=mulching/cover crops | 7=water pans | 12=gabions | |
| 3=minimum tillage | 8=grass strips | 13=cut-off drains | |
| 4=wind breaks | 9=afforestation | 14=fallow | |

SWEPRA1 _____
SWEPRA2 _____
SWEPRA3 _____

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 | 5= exchange for oxen service | 9=no maize field |
| 2= feed to cattle immediately | 6= make compost | 10=exchange for manure |
| 3= burn | 7=leave to rot in the field | 11=mulch |
| 4= sell | 8=cooking fuel | |

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

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 _____

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 _____

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=Government 2=Private 3=NGO 4=CBO 5=Cooperative)

SORCEAI _____

Q11.3 In total, how much did you spend on **salaried** farm worker(s) for **livestock** activities from **July 2006 to June2007?**

SALLVSTK _____

(**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 _____

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)

FEEDPRS1 _____

0=None 1=Hay 2=Silage 3=Crop Residuals

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

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 6=no need
7=knowledgeable 8=old/sick 9=no information 10=extension calls us)

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=no new knowledge)

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** _____
(1=producer cooperatives 2=multi-purpose cooperative 3=savings & credit cooperatives **GRPMEM2** _____
4=informal/self help groups 5=out-grower company **GRPMEM3** _____

Q13i. What **services** do you get from the group or cooperative? (Specify up to 3) **SERV1** _____
(0=none 1=Training 2=Marketing 3=Input acquisition 4= Financial services 5=A.I services 6= welfare 7=dairy goat placement) **SERV2** _____
SERV3 _____

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

19a. What was the **main** source of the **remittances**? **REMIT** _____
(1=Son/Daughter 2=Other relative 3=friend 4=Well wisher)

19b. If the household received **remittance**, what was the **main mode** of delivery? **MREMIT** _____
(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=Deposit into account)

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

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 head's 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** _____

Q25a. If you do not own a **mobile phone**, do you **have access** to one (that you can use)? (1=Yes) (2=No) **MOBACC** _____

Q25b. If Yes, from **whom do you access the mobile?** (1=neighbour 2= relative 3=simu ya jamii 4=market) **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=sells to brokers 8=high transport cost) | 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 piped 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)? | DTELEP | _____ |

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	WELL_BE	

OBSERVE AND ASK ABOUT THE FOLLOWING:

Q29a. What is the **roofing** material of the **main house**? **ROOF** _____
(1=grass /makuti 2=iron sheet 3=tiles)

Q29b. What is the **wall** material of the **main house**? **WALL** _____
(1=mud 2=bricks/stones 3=iron sheet 4=wood 5=plastered 6=wood/ brick 7=stone/ iron sheet)

Q29c. What is the **floor** material of the **main house**? **FLOOR** _____
(1= earth 2=cement 3=wood 4=tiles)

Q29d. What is the mode of ownership of the **main house**? **HSEOWN** _____
(1= owner occupier 2= rented 3= owned by relative)

- Q29e.** What type of **toilet** do you use? **TOILET** _____
 (1= pit latrine 2= bush 3= flush toilet)
- Q29f.** What is the **main** source of water for domestic use during the **wet-season**? **MAINWET** _____
 (1=pond 2=dam /sand dam 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=water hawkers-cart /bodaboda)
- Q29g.** What is the **main** source of water for domestic use during the **dry-season**? **MAINDRY** _____
 (1=pond 2=dam /sand dam 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=water hawkers-cart /bodaboda)
- Q29h.** What is your **main cooking fuel**? **COOKFUEL** _____
 (1=electricity 2=paraffin 3=firewood 4=gas 5=charcoal 6=solar power)
- Q29i.** What is your **main type of lighting**? **LITFUEL** _____
 (1=electricity 2=pressure lamp 3=tin lamp 4=fuel wood 5=lantern 6=solar power)
- Q30** Is your family **better off, worse off, or about the same** as most households in this area? **COMPARE** _____
 (1=better off 2=worse off 3=about the same)

(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)* **TRIBESP** _____ **SPECIFY** _____

Ethnicity Codes:

0=No spouse 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=Swahili 17=Baganda 18=Boran

Thank You!

CROP INVENTORY AND CROP CODES: Did you plant this crop either in the main or short harvest? (1=main 2=short 3=both)

Filename: incrop07.sav Key variables: hhid, crop

Crop Code	season	Crop Code	season	Crop Code	season	Crop Code	season
119		71		80		8	
44		20		165		39	
201		25		147		160	
97				37		66	
50		138				124	
18		62		83		190	
10		179		77		206	
202		34		96		177	
60		167		61		187	
7		33		75		15	
221		72		22		170	
129				184		64	
169		139				30	
		140		59		68	
93		27		137		43	
200		51		46		49	
67		210		85			
94				58		3	
24		84		70		189	
28		207		166		136	
48		74		134		12	
146		173		65		29	
175		32		141		63	
26		118		133		162	
131				121		53	
42		203		178		161	
23		135		35		5	
194		47		76			
193		1		172		205	
6		2		17			
176		4				69	
11		73		211		13	
168		204		31		41	
14		45		86		163	
21		120		171		149	
19		9					
125		148		36		95	
192		197		40		81	
183		196		78			
182		220		16		174	
164		222		90			
164							

If Q1.1a =Yes, go to table below (Probe for fruits trees, vegetables, and medicinal or aromatic plants). Otherwise move to the short season crop.

Q1.3 MAIN CROP Season 2006/2007 (Eastern Kenya refers to Jan-March 2007 harvest, Western, Coast Central July/October 2006; R.Valley Nov/Dec 2006) (harvest=1)

Q1.4 SHORT CROP 2006/2007 (Eastern Kenya refers to Jul-Sept 2006 harvest, Western, Coast, Central Nov 2006-Jan 2007)(harvest=2)

Filename: Field07.sav Key variables: *hhid, harvest, field*

Harvest season 1=main 2=short	Field No.	Acres	Is this field 1=owned with title deed 2=owned without title deed 3=rented 4=owned by parent / relative 5=government/communal/co-operative	System of watering used 1=Rain fed 2=Irrigated (piped) 3=Irrigation (gravity) 5=Can / Bucket irrigation	Main land prep type 0=none 1=manual 2=oxen 3=tractor	Hired land prep cost (Ksh)
Harvest	field	acres	tenure	watersrc	landprep	lpcost

Filename: Croplev07.sav Key variables: *hhid, harvest, field, crop*

Harvest season 1=main 2=short	Field No	Crop code	Planting/ Seed Type	Quantity of seed used & cost, if purchased this season			Number of productive fruit trees	Harvest -777=not yet harvested		Sales		For the largest Sale				Quantity harvested that spoiled Use harvest unit codes (for fruits and veg only)	Seed kg conversion	Kgs of seed quantity used	Harvest kg conversion	Kgs harvested	Sale kg conversion	Kgs sold	Quantity of fruit and vegetable that got spoiled after harvest
				Qty	Unit	Cost per unit		Qty	Unit	Qty	Unit	Month 1= Jan. 12=Dec	Price received per unit	Buyer type	Km to point of sale								
harvest	field	crop	sdtype	sqt	sunit	scost	ptrees	hvt	hunit	sold	slunit	mon	price	buyer	km	spoil	sdconver	seedkg	hvtconv	kgharv	slconver	kgsold	kgspoil

Seed Type: 1=purchased new hybrid 2=retained hybrid 3=OPV 4=local var 5=local seedling/ cuttings/splits	6=improved seedling /cuttings /splits 7=hybrid & local variety 8=purchased hybrid and retained 9=IR maize	Unit codes: 1=90 kg bag 11=50 kg bag 2=kgs 3=litre 4=crates 5=numbers	6=bunches(bananas) 7=25kg bag 8=10kg Bag 9=gorogoro 10=tonnes 12=debe 13=grams	14=wheelbarrow 15=cart 16=canter 17=pickup 18=2 kg packet (seed) 19=bale	Buyer type codes: 1=small trader 2=large trader 3=KTDA 4=coffee coop 5=NCPB 6=millar 7=other coop	8=NGO 9=consumer 10=exporter 11=processor 12=supermarket 13=cereal bank 14=Pyrethrum Board 16=National Irrigation Board
---	--	--	--	---	---	--

Filename: Fert07.sav

Key variables: harvest, field, ferttype

Harvest season 1=main 2=short	Field No.	Fertilizer type	Fertilizer quantity used	Unit of fertilizer used	Kg conversion value	Kgs of fertilizer
harvest	field	ferttype	fertqty	fertunit	kgconver	ferttotal

<u>Fertunit:</u>			<u>Ferttype codes:</u>						
1=90 kg bag	8=10 kg Bag	14=wheelbarrow	0=None	5=NPK (20:20:0)	11=SA (21:0:0)	18=compost	25=mavuno-basal	58=NPK+CAN	
11=50 kg bag	9=gorogoro	15=cart	1=DAP	6=NPK (17:17:0)	12=Other (specify)___	19=magmax lime	26=kero green	59=NPK:22:6:12 + TE	
2=kgs	10=tonnes	16=canter	2=MAP	7=NPK (25:5:+5S)	13=manure	20=DSP	27=rock-phosphate	60=NPK:26:5:5	
3=litre	12=debe	17=pickup	3=TSP	8=CAN (26:0:0)	14=foliar feeds	21=NPK(23:23:0)	28=NPK 14:14:20	61=NPK:22:11:11	
7=25 kg bag	13=grams	18=2kg packet	4=SSP	9=ASN (26:0:0)	15=NPK (23:23:23)	22=NPK(17:17:17)	29=mijingu 1100	62=mavuno top dress+urea	
				10=UREA (46:0:0)	16=NPK (20:10:10)	23=NPK(18:14:12)	30=UREA+CAN		
					17=DAP + CAN	24=NPK(15:15:15)	31=Mavuno-top dress.		

USE OF MAIZE SEED

Q2. Indicate the types of maize seed planted in the main and short seasons:

(Enumerator Instructions: Refer back to the crop table and copy the field and seasons, where maize was planted, to this table. Then ask the questions.)

Filename: **maizeseed07.sav** Key variables: *hhid, harvest, field, crop, sdvar*

Field No.	Season 1=Main 2=Short	Crop 1=Maize 2=Green Maize 4=maize fodder	Seed varieties planted Use code below.	Seed Type 1=Purchased /New Hybrid 2=Retained Hybrid 3=OPV 4=local variety 9=IR maize	How did you obtain this seed? 1=Cash purchase 2=Credit 3=Exchange 4=Free 5=Retained seed	Source of seed (see codes below)	Quantity used on this particular field and Unit		Con- version to kgs	Kgs of seed planted	Cash/Credit/Exchange		
							Units: 1=90 kg bag 7=25 kg bag 9=gorogoro 12=debe	2=kgs 8=10 kg bag 11=50 kg bag 18=2 kg packet			Price per unit	Value per quantity	Total value of purchased seed
field	harvest	crop	sdvar	sdtype	sdobtain	Source	qty	units	Kgcon- ver	kgseed	price	value	totval

Maize Seed Codes: (sdvar)							Source type codes (source):
1=KS 614	17=Pan 5243	33=KS 613	50=PH 1033	65=Resistant Maize (IR)/ua kayongo	81= WS 205	1=Small trader	
2=KS 611	18=Pan 99	34=KS 626	51=DK 8071	66=Kakamega Synthetic	82= WS 500	2= Stockist/agent	
3=KS 622	19=Maseno DC	35=KS 636	83=DK 3081	67=KSTP 94	84=WS105	3=Large company	
4=KS 623	20=DLC	36=KS 9401	52=KS 629	68= Pan 612	85=6213	4=NGO /CBO	
5=KS 625	21=DH1	37=Kinyanya	53=KS 621	69=Sadvil A	86=DK8035	5=KFA	
6=KS 627	22=DH2	38=Makueni	54=WS 502	70=Sadvil B	87=Fresh core	6=Cooperative	
7=KS 628	23=DH3	39=PH4	55=KS 515	71=Sadvil Composite	88=H6210	7=Own seed	
8=KS 511	24=DH4	40=WS 699	56=DH 02	72=Simba	89=KH 600-11D	8=Farmer /Neighbour	
9=KS 512	25=Katumani	41=WS 904	57=SCDUMA43	74= WS 402	90=KS209	9=General market	
10=KS 513	26=PH1	42=KS 612	58=KH500-21A	75= WS 505	91=KS516	10=GoK	
11=Pioneer	27=PH2	43=Pan67	59=KS 6213	76= WS 403	92=Lagrotech	11=Farmer group	
12=CG 4141	28=Coast Composite	44=Monsanto	60=KS 9201	77= WS 503	93=Punda Milia	12= Other, specify____	
13=CG 5051	29=Indigenous/Local type	45=WS 501	61=WS 404	78= WS 504	94=SCDUMA 41	13=Church	
14=CG 5252,	30=other , specify__	46=Faida Seed 650	62=KS 615	79= WS 905	95=SCDUMA 42	14=Employer	
15=Pan 5195	31=Don't know	48=Rwanda	63=KS 616	80= WS 909	96=WS 202		
16=Pan 5355	32=KS 514	49=Pan 691	64=KS6 210				

CROP INPUTS

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

Filename: input07.sav Key Variables: *hhid inputype mcrop numpur punit inputpr*

Input codes (inputype):	Unit	Input type	Main Crop for which input was used	Quantity bought/hired	Price per unit specified	Mode of Purchase	Source of Fertilizer and other inputs Source type codes:	Kms from point of purchase to farm	Transport Cost per Unit of the fertilizer (KSh) (Instruction: fill for only fertilizers)	How is/was the credit repaid?	comment	
		(Select codes from column on the left)										
		inputype	mcrop	numpur	punit	inputpr	inpurch	insorce	kms	trancost	inppaid	comment
1=DAP	1=90 kg bag						1=Small trader			1=crop revenue		
2=MAP	2=kg						2=Stockist			2=livestock revenue		
3=TSP	3=litre						3=Large company			3=off farm income		
4=SSP	8=10 kg bag						4=CBO			4=both livestock and crop revenue		
5=NPK (20:20:0)	7= 25 kg bag						5=KFA					
6=NPK (17:17:0)	9=gorogoro						6=Coffee coop					
7=NPK (25:5:+5S)	10=tonnes						7=Farmer /neighbour					
8=CAN (26:0:0)	11=50 kg bag						8=KTDA					
9=ASN (26:0:0)	13=gram						9=Other coop					
10=UREA (46:0:0)	14=w/barrow						11=Farmer group					
11=SA (21:0:0)	15=cart						12=Relative or friend					
13=Manure	21=days						14=Research/ learning institution					
14=Foliar feeds	17=numbers						15=Fuel station					
15=NPK (23:23:23)	20=5 kg bag											
16=NPK (20:10:10)	30=acres											
17=DAP + CAN												
19=Magmax Lime												
20=DSP												
21=NPK (23:23:0)												
22=NPK (17:17:17)												
23=NPK (18:14:12)												
24=NPK (15:15:15)												
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)												
32=pesticide												
33=insecticide												
34=herbicide												
35=plough												
36=sprayer												
37= AT equipment												
39=technical support												
40=fungicide												
41=water												
46=planter cost												
47=harvester cost												
48=transport												
49=sheller cost												
50=fuel												
51=gunny bags												
52=ridger cost												
53=land rent												
54=land preparation cost (on credit only)												
55=farm implements												
56=farm machinery												
57=irrigation equipment												
59=NPK:22:6:12+TE												
60=NPK:26:5:5												
61=NPK:22:11:11												
62=Baler												

NON-AGRICULTURAL CREDIT

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

Filename: nagcred07.sav Key variables: hhid crduse

Main use of the credit 1= school fees 2 =medical 3 =business 4 =household consumption 5=buy land 6=build house	Type of credit received 1=Cash 2=In kind	What was the source of credit: 1= neighbor 2=farmer group 3=SACCO 4.1=commercial bank – Barclays 4.2=commercial bank – Cooperative 4.3=commercial bank – Equity 4.4=commercial bank – Family finance 4.5=commercial bank - Krep 5=relative/friend 6.1=NGO/MFI – Bimas		6.2=NGO/MFI – FAULU Kenya 6.3 NGO/MFI – KREP 6.4=NGO/MFI - KWFT 7=AFC 8= group (ROSCA) 9=village bank 10=shopkeeper 11=HELB 12=employer 13=shylock 14=church	Value of credit (Kshs)	How is/was the credit repaid? 1=crop revenue 2=livestock revenue 3=off farm income 4=both livestock and crop revenue 5=in-kind labour
crduse	ctype	crdsor		cvalue	repay	

Q5f. What labour inputs did you use for the largest maize field for the 2006/2007 main season?

Filename: labour07.sav Key variables: hhid, activity

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 Hours for all days worked	# of females	Total Hours for all days worked	# of children	Total Hours for all days worked	# of workers	# days worked each	# hours per day each (on average)
	ACTIVITY	LB01	LB02	LB03	LB04	LB05	LB06	LB07	LB08	LB09	LB10	LB11	LB12	LB13

Activity codes:		
1=1st Ploughing	8=Field Dusting	15=Bagging
2=2nd Ploughing	9=Stooking	16=Storage
3=Harrowing	10=Harvesting	18=Security
4=Planting	11=Transport	19=Irrigation
5=1st Weeding	12=Drying	
6=Top-dressing	13=Shelling	
7=2nd Weeding	14=Dusting (post harvest)	

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

Filename: 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-indigenous	15							
Chicken-improved	16							
Ducks /Geese	17							
Turkeys	18							
Rabbits	19							
Doves /Quail	20							
Crocodiles	21							
Ostriches	22							
Butterflies	23							

LIVESTOCK OUTPUT

Filename: cowmilk07.sav Key Variables: hhid, milk

		Avg # of animals producing milk	Total Quantity produced and sold in each month (in litres) Between July 06 and June 07												Buyer type of largest sale	What was the most common price you received? Ksh/litre	Km to point of sale for largest buyer	Reason for selling to this buyer	
milk		cowmilk	Jul06	Aug06	Sep06	Oct06	Nov06	Dec06	Jan07	Feb07	Mar07	Apr07	May07	Jun07	totmilk	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

Filename: 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 1=90 kg bag 2=kgs 3=litres 5=numbers 17=pickup 22=Trays	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
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								
Manure	9								

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**?

Filename: livescost07.sav Key variables: *hhid, animsp*

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

Q11.5 Did you receive any of **livestock** or **livestock inputs** on **credit** If **Yes**, give details in the table below:

Filename: livestinput07.sav Key variables: *hhid, input*

Input /livestock used 1=Animal feed 2=Vet service or vaccines 3=Acaricides 4=Dewormers 5=AI service 6=Bull service 7=dairy cow 8=dairy goat 10= sheep	Form of credit 1= cash 2=In kind	Source of credit 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=Private vet	Value of Credit	Mode of repayment 1=crop revenue 2=livestock revenue 3=off farm income 4=both livestock and crop revenue
input	mdpurch	source	cvalue	modpay

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: **Filename: extension07.sav** Key variables: *hhid, serv*

Service (See codes below)	Individual Amount	Group of 20 Members amount
serv	indamt	grp20amt

Service codes (serv):		
1 Dairy production	6 Dairy goats	11 On farm feed preservation
2 Maize production (fertilizer and seed use,)	7 Fish farming	12 Soil testing and sampling
3 Horticultural production	8 Mushrooms	13 Sugarcane
5 Bee keeping	9 Poultry farming	14 Use of agrochemicals
	10 Tree/ nursery management	15 Wheat production

Q14. DEMOGRAPHIC CHARACTERISTICS OF HOUSEHOLD MEMBERS (OLD MEMBERS ONLY- Adults and Children listed in 2004)

Filename: demog07.sav Key variables: *hhid, mem*

Reference Period: July 2006 to June 2007

ID	Name	In which year was this person born?	Age in 2007	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>	Is this person currently considered a member of this household? 1=Yes -> DA09 2=No	If this person is not a member of this household anymore, why? <i>See codes below</i>	How many months in the period July 2006 to June 2007 has this person been living at home? <i>See codes below</i>	Did this person receive cash from informal /business activity? Include farm kibarua, dividends between July2006& 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	DA01	age	DA02	DA03	DA04	DA05	DA06	DA07	DA08	DA09	DA10	DA11	DA12

Relation to head (DA03)

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

Marital Status (DA04)

- 1 = single
- 2 = monogamously married
- 3 = polygamously married
- 4 = divorced
- 5 = widowed
- 6 = separated

Education levels (DA06)

- 99=don't know
- 9=None
- 0=pre school
- 1=std 1
- 2=std 2
- 3=std 3
- 4=std 4
- 5=std 5
- 6=std 6
- 7=std 7
- 8=std 8
- 9= form1
- 10 = form 2
- 11=form 3
- 12=form 4
- 13=form 5
- 14=form 6
- 15= college 1
- 16= college 2
- 17= college 3
- 18= college 4
- 19=univ 1
- 20=univ 2
- 21=univ 3
- 22=univ 4
- 23=univ 5 & above

Reason for absence (DA08)

- 1=left to find a job
- 2=left to attend school
- 3=married away
- 4=deceased
- 5=divorced /separated
- 6=living with other relatives
- 8=went back home
- 9=another household
- 10=went missing
- 11=jailed
- 12=left after death of husband
- 13=left with mother
- 14=ran away from home
- 15=stays with parent who lives away
- 16-born
- 17=came back to hh
- 19=came with parents
- 20=joined father after separation

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?	Age in 2007	What is the sex of? 1=male 2=female	Relationship 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 somewhere 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	age	AD02	AD03	AD04	AD05	AD06	AD07	AD08	AD09	AD10	AD11	AD12	AD13	AD14	AD15	AD16
71																		
72																		

Relationship to head (AD03)

- 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

Marital Status (AD04)

- 1 = single
- 2 = monogamously married
- 3 = polygamously married
- 4 = divorced
- 5 = widowed
- 6 = separated

Education levels (AD06)

- 99=don't know
- 0=nursery
- 1=std 1
- 2=std 2
- 3=std 3
- 4=std 4
- 5=std 5
- 6=std 6
- 7=std 7
- 8=std 8
- 9= form1
- 10 = form 2
- 11=form 3
- 12=form 4
- 13=form 5
- 14=form 6
- 15= college 1
- 16= college 2
- 17= college 3
- 18= college 4
- 19=univ 1
- 20=univ 2
- 21=univ 3
- 22=univ 4
- 23=univ 5
- & above

New HH member (AD10)

- 1=married into the family
- 2=returned to hh to help with hh activities
- 3=returned to the hh because he/she is sick
- 4=hh member missed during 2004 survey
- 5=lost parents (orphaned)
- 6=fostered
- 8=worker
- 9=attend school
- 10=separated/divorced

- 11=death of spouse
- 12=ran away from home
- 13=lost job
- 14=inherited household
- 15=live with relatives
- 16=born
- 17=came back after separation
- 19=came with parents
- 20=joined father after separation

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.

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

Filename: mortality07.sav

Key variables: hhid, pdmem

Reference Period: Since June 2004

Person ID	If this person is listed in the DEMOG table, indicate his or her id number (MEM) or mem number in previous surveys.	Write the Name	Sex 1=Male 2=Female	In which year did this person die?	In which year was this person born?	What was the cause of death?	Relationship to head <i>See codes below</i>	What was the highest level of education completed?
pdmem	mem	name	PD01	PD02	PD04	PD05	PD13	PD15
1								
2								
3								

Cause of death (PD05)

- | | |
|-----------------------|---------------------------------------|
| 1 = Pneumonia | 19 = Other sudden death within 4 days |
| 2 = Malaria | 20 = Don't know |
| 3 = TB | 22=Cancer |
| 4 = Chronic diarrhoea | 23=Asthma |
| 5 = Meningitis | 24=Diabetes |
| 6 = Anaemia | 25=Yellow fever/measles |
| 7 = Fits | 26=Birth-miscarriage |
| 8 = Mental illness | 27=Kwashiorkor |
| 9 = Heart disease | 28=Miscellaneous illness |
| 10 = Chest pains | 29=Alcohol |
| 11 = Stomach disease | 30=Typhoid |
| 12 = Stroke | 31=Cholera |
| 13 = HIV/AIDS | 32=brucellosis |
| 14 = Accident | 33=liver cirrhosis |
| 15 = Suicide | 34=tetanus |
| 16 = Murdered | 35=malnutrition |
| 17 = Snake bites | 36=goitre |
| 18 = Old age | 37=jiggers |
| | 38=food poisoning |

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
- 0=pre school
- 1=std 1
- 2=std 2
- 3=std 3
- 4=std 4
- 5=std 5
- 6=std 6
- 7=std 7
- 8=std 8
- 9= form1
- 10 = form 2
- 11=form 3
- 12=form 4
- 13=form 5
- 14=form 6
- 15= college 1
- 16= college 2
- 17= college 3
- 18= college 4
- 19=univ 1
- 20=univ 2
- 21=univ 3
- 22=univ 4
- 23=univ 5 & above
- 99=don't know

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)**

Filename: 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		Total business income	
			0=none			1=low			2=average			3=high			lgross	lcost	agross	acost	hgross	hcost		totbus
			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	lgross	lcost	agross	acost	hgross	hcost	totbus	

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	78	Evangelist	42	Lumbering/wood cutting	47	Plumber	61	Thatching grass	66	Wine tapper
5	Butcher	72	Income from another farm	21	Making pots	28	Posho miller	35	Timber trading	79	Sale of land/plot
6	Carpentry	7	Farm kibarua	22	Masonry	29	Rental of properties	59	Tour guide	80	Sale of pasture/maize stover
75	Casual worker	15	Fish trading	23	Matatu business	30	Retail shop/kiosk/shopkeeping	36	Tout	81	Sitting allowance
76	Boat transport business	44	Hair dresser / barber	41	Medical health business	53	Sand harvesting	37	Traditional doctor	82	Tree nursery
77	Car wash	16	Harrowing	83	Midwife						

Q18 SALARIED WAGE EMPLOYMENT/PERMANENT EMPLOYMENT ACTIVITIES

We would now like to talk about all *salaried 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>salaried employment activities</i> , then enter their corresponding person code	Person code	From the list below, please list all the <i>salaried 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>												Total salary income
					7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	
Name	mem	activity	mnwage	samewage	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	totsal

Employment Codes:

- | | | | | |
|------------------------|-----------------------|---------------------|-----------------------------------|-------------------------------|
| 18 Accountant | 25 Construction | 7 House help | 64 Petrol seller | 29 Subordinate civil services |
| 5 Administrator | 51 Cook/caterer | 8 Industrial worker | 53 Plumber/battery charger/barber | 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 operator | 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 | 66 Matron |
| 3 Committee member | 6 General farm worker | 27 Pastor/religious | 57 Soldier | 67 Bursary |
| 35 Conductor | 47 Hair dresser | 10 Pension | 62 Sports/coach | |

ACCESS TO RURAL SAVINGS/BANK ACCOUNTS

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

Filename: savings07.sav Key variables: none

Person with the account	Member number (from the demog file)	Where is the savings account			Specific bank / MFI		Km to Banking point	Which year did you open the account -9 – don't know
		1=Post Bank 2=SACCO	3=Commercial Bank, specify _____ 4=MFI, specify _____	5=Groups (ROSCAs) 6=Village bank	1=Barclays 2=Consolidated 3=Cooperative 4=Equity 5=Family finance 6=HFCK 7=K-rep 8=KCB	9=National 10=Standard charter 11=Trans-national 12=BIMAS 13=FAULU KENYA 14=KWFT 15=SAGA 16=SMEP		
	mem	saves			acct		kmbank	acopen
Head								
Spouse								
Other1								
Other2								
Other3								

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

Filename: inheritance07.sav Key variables *hhid, mem*

Person	Person ID** -99=no spouse 0=not married	How much land <u>in acres</u> did the parents of this person have before the land was inherited by any of this person's siblings	How much land <u>in acres</u> 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.)

Filename: purch07.sav *Key Variables: hhid purch*

Purchased products	About how much did you buy over the past 4 months – Mar- Jun 2007?		Price per Unit	About how much did you buy between Nov 2006 and Feb 2007?		Price per Unit	About how much did you buy between July 2006 and Oct 2006?		Price per Unit	Complete <i>only</i> if the respondent cannot answer by 4 month periods About how much did you buy over these 12 months?		Average Price Per unit over year	comments	Period 1 - Kg conversion	Kgs Mar-Jun 07	Period 2 - Kg conversion	Kgs Nov 06 - Feb 07	Period 3 - Kg conversion	Kgs July - Oct 07	12 month period - Kg conversion	Kgs July 06 - June 07	Total kgs purchased	
	qty1	unit1		price1	qty2		unit2	price2		qty3	unit3												price3
1																							
2																							
3																							
4																							
5																							
6																							

Purchased products

- 1=Cash or barter - maize grain
- 2=gift/relief-maize grain
- 3=Packaged sifted maize meal
- 4=Posho meal
- 5=Wheat flour

6=Rice

Unit code:

- 1=90 kg bag
- 11=50 kg bag
- 2=kgs
- 7=25 kg bag
- 9=gorogoro

12=debe

- 18 = 1 kg packet
- 19 = 2 kg packet

Q23 EXPENDITURES ON FRUITS AND VEGETABLES OVER THE PAST 30 DAYS

Filename: consumpt07.sav Key variables: hhid, fooditem

Food Item	Did the HH purchase this item over the PAST 30 DAYS? 1 = yes 2 = no— >go to JANPUR	Where did HH purchase most of this product? See purchase location codes bottom next page	If your household purchased this item during the PAST 30 DAYS				ANSWER ONLY ONE		Thinking back to January 2007, what was the approximate quantity purchased of this item (same unit code) (Instructions: If the household did not purchase this item in the past 30 days, record the unit of measure in UNITPUR.)	Total kgs purchased in January	What was the total expenditure on this item in January 2007? (KShs)	Comments
			TOTAL Quantity purchased by hh over the past 30 days? (see unit codes below)				Most common price HH paid for this item over past 30 days? (Ksh/unit) Instructions: Use same unit as for purchases)	TOTAL EXPENDITURE on this item over the past 30 days				
fooditem	purch	locpur	qntpur	unitpur	kgconver	totkgs	price	totexp	janpur	kgsjan	jtotexp	comment
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

Unit Codes :

1=90 kg bag
 2=kgs
 4=crates
 5=numbers
 6=bunches(bananas)
 7=25 kg bag
 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.)

Filename: asset07.sav Key Variables: hhid, asset

Agricultural asset	Quantity	Value per Unit (Ksh)	If Value/Unit not known Ask for Total Value	Total asset value	Comments
asset	qty	value	totval	assetval	comment

13	ploughs for tractor	23	stores	35	grinder	45	water pump	55	planter	66	posho mill
14	animal traction plough	25	wheel barrow	36	TV	46	land line telephone	57	generator	67	sewing machine
15	cart	26	combine harvester	37	power saw	47	boom sprayer	58	ridger/weeder	68	pay phone
16	trailer	27	bicycle	38	jaggery unit	48	cattle dip	59	cane crusher	69	wheel chair
17	tractor	28	radio	39	chaf cutter	49	dam	60	well		
18	car	29	zero-grazing units	40	solar panels	50	donkey	61	oxen	71	mobile phone
19	truck	30	beehive	41	battery	51	water trough	62	other (specify)		
20	spray pump	31	houses (residential)	42	weighing machine	52	pestle and mortar	63	biogas		
21	irrigation equipment	33	borehole	43	poultry houses	53	harrow/tiller	64	boat / dhow		
22	water tanks	34	motorcycle	44	piggery houses	54	sheller	65	electronics		