

**Egerton University - Tegemeo Institute/MSU  
Tegemeo Agricultural Policy Research Analysis (TAPRA)  
Rural Household Indicator Survey 2010**

“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](mailto: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: \_\_\_\_\_  
 Enumerator: \_\_\_\_\_  
 Province: \_\_\_\_\_  
 District: \_\_\_\_\_  
 Division: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Sub-Location: \_\_\_\_\_  
 Village: \_\_\_\_\_

**SNUM** \_\_\_\_\_  
**ENUM** \_\_\_\_\_  
**PROV** \_\_\_\_\_  
**DIST** \_\_\_\_\_  
**DIV** \_\_\_\_\_  
**LOC** \_\_\_\_\_  
**SUBLOC** \_\_\_\_\_  
**VIL** \_\_\_\_\_

GPS coordinates : (1=North 2=South) NS \_\_\_\_\_  
 East \_\_\_\_\_

**HH1 :** \_\_\_\_\_ ' \_\_\_\_\_ **dd)**

**HH2 :** \_\_\_\_\_ ' \_\_\_\_\_ **dd)**

**HH3 :** Altitude **m. a.s.l** ( \_\_\_\_\_ )

**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=Displace by PEV    9= 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	mkyuyu			78	simsim						
183	dhania			220	mulberry			16	sisal			174	zambarao		
182	dhania grains			222	medicinal plants			90	snow peas						
164	dry peas														

**LAND USE**

- Q1a. How many acres in **total land holding** does the household own?  
 Q1b. How many acres of land are **currently under non fruit trees**?  
 Q1.1a. How many acres of land **were leased out** in the last **main season 2009/2010**?  
 Q1.1b. How many acres of land **were rented-in** in the last **main season 2009/2010**?  
 Q1.1c. How many acres of land were kept **fallow and/or abandoned** in the **main season 2009/2010**?

TACRES \_\_\_\_\_  
 ATREE \_\_\_\_\_  
 LEASE \_\_\_\_\_  
 RENT \_\_\_\_\_  
 FALLOW \_\_\_\_\_

Q1.1d. Did this household have any cropping activity during **MAIN CROP Season 2009/2010**? (1= Yes No=2)

MAINCROP \_\_\_\_\_

**MAIN CROP Season 2009/2010** (Eastern Kenya refers to Jan-March 2010 harvest, Western, Coast Central July/October 2009; R.Valley Nov/Dec 2009)

Q1.2 If Q1.1d =Yes, go to table below (Probe for fruits trees, vegetables, and medicinal or aromatic plants) Otherwise move to the short season crop (page 5).

*Crop10.sav* Key Variables: **hhid, harvest, field, crop harvest=1**

Crop code	Field No.	Acres	Is this field 1=owned w/ deed 2=owned w/o deed 3=rented 4=owned by parent/relative 5=government/co-munal/co-operative	system of watering used 1=Rain fed 2=Irrigated(pipe d) 3=Irrigation (gravity) 4=other specify_r	Main land prep type 0=none 1=manual 2=oxen 3=tractor	Hired land prep cost (Ksh)	Planting/ Seed Type 1=Purch /New Hybrid 2=Retained Hybrid 3=OPV 4=local var 5=local seedling/cuttings /splits 6=improved seedling /cuttings /splits 7=hybrid& local var 8=hybrid pure+retained 9=IR maize	Quantity of seed used & cost, if purchased this season			Number of productive fruit trees	1 <sup>st</sup> Fertilizer used			2 <sup>nd</sup> Fertilizer used			3 <sup>rd</sup> Fertilizer used			Harvest -777=not yet harvested		Sales		For the largest Sale				Quantity harvested that spoiled			
								Qty	Unit	Cost per unit		Type	Qty	Unit	Type	Qty	Unit	Type	Qty	Unit	Qty	Unit	Qty	Unit	Month 1= Jan. .... 12=Dec	Price received per unit	Buyer type	Km to point of sale		Use harvest unit codes (for fruits and Veg only)		
crop	field	acres	tenure	system	landprep	lpcost	Sdtype	sqt	sunit	scost	ptrees	ft1	fq1	fu1	ft2	fq2	fu2	ft3	fq3	fu3	hvt	hunit	sold	slunit	month	price	buyer	Km	spoil			

<b>Unit codes:</b> 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=2kg packet(seed) 19=bale	<b>Fertilizer codes:</b> 0=None 1=DAP 2=MAP 3=TSP 4=SSP	5=NPK (20:20:0) 6=NPK (17:17:0) 7=NPK (25:5:+5S) 8=CAN (26:0:0) 9=ASN (26:0:0) 10=UREA (46:0:0)	11=SA (21:0:0) 12=Other (specify)____ 13=manure 14=foliar feeds 15=NPK (23:23:23) 16=NPK (20:10:10) 17=DAP+ CAN 3	18=compost 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)	25=mavuno-basal 26=kero green 27=rock-phosphate 28=NPK 14:14:20 29=mijingu 1100 30=UREA+CAN 31=Mavuno-top dress.	<b>Buyer type codes:</b> 1=small trader 2=large trader 3=KTDA 4=coffee coop 5=NCPB 6=miller 7=other coop	8=NGO 9=consumer 10=Exporter 11=processor 12=supermarket 13=cereal bank 14=pyrethrum board 15=bicycle trader
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**Q1.2 (CONTINUED) MAIN CROP Season 2009/2010** (Eastern Kenya refers to Jan-March 2010 harvest, Western, Coast Central July/October 2009; R.Valley Nov/Dec 2009)

*Crop10.sav Key Variables: hhid, harvest, field, crop harvest=1*

Crop code	Field No.	Acres	Is this field w/ deed 1=owned w/ deed 2=owned w/o deed 3=rented 4=owned by parent/relative 5=government/co-mmunal/co-operative	system of watering used 1=Rain fed 2=Irrigated(pipe) 3=Irrigation (gravity) 4=other specify_r	Main land prep type 0=none 1=manual 2=oxen 3=tractor	Hired land prep cost (Ksh)	Planting/ Seed Type 1=Purch /New Hybrid 2=Retained Hybrid 3=OPV 4=local var 5=local seedling/cuttings/splits 6=improved seedling /cuttings /splits 7=hybrid& local var 8=hybrid purc+retained 9=IR maize	Quantity of seed used & cost, if purchased this season			Number of productive fruit trees	1 <sup>st</sup> Fertilizer used			2 <sup>nd</sup> Fertilizer used			3 <sup>rd</sup> Fertilizer used			Harvest -777=not yet harvested		Sales		For the largest Sale				Quantity harvested that spoiled  Use harvest unit codes  (for fruits and Veg only)				
								Qty	Unit	Cost per unit		Type	Qty	Unit	Type	Qty	Unit	Type	Qty	Unit	Qty	Unit	Qty	Unit	Qty	Unit	Month 1= Jan. ..... 12=Dec	Price received per unit		Buyer type	Km to point of sale	spoiled	
crop	field	acres	tenure	system	landprep	lpcost	sdtype	sqt	sunit	scost	ptrees	ft1	fq1	fu1	ft2	fq2	fu2	ft3	fq3	fu3	hvt	hunit	sold	slunit	month	price	buyer	Km	spoil				

- |  |  |   |  |  |   |   |  |   |   |
|--|--|---|--|--|---|---|--|---|---|
| <b>Unit codes:</b><br>1=90 kg bag<br>11=50 kg bag<br>2=kgs<br>3=litre<br>4=crates<br>5=numbers | 6=bunches(bananas)<br>7=25kg bag<br>8=10kg Bag<br>9=gorogoro<br>10=tonnes<br>12=debe<br>13=grams | 14=wheelbarrow<br>15=cart<br>16=canter<br>17=pickup<br>18=2kg packet(seed)<br>19=bale | <b>Fertilizer codes:</b><br>0=None<br>1=DAP<br>2=MAP<br>3=TSP<br>4=SSP | 5=NPK (20:20:0)<br>6=NPK (17:17:0)<br>7=NPK (25:5:+5S)<br>8=CAN (26:0:0)<br>9=ASN (26:0:0)<br>10=UREA (46:0:0) | 11=SA (21:0:0)<br>12=Other (specify)____<br>13=manure<br>14=foliar feeds<br>15=NPK (23:23:23)<br>16=NPK (20:10:10)<br>17=DAP + CAN<br>4 | 18=compost<br>19=magmax lime<br>20=DSP<br>21=NPK(23:23:0)<br>22=NPK(17:17:17)<br>23=NPK(18:14:12)<br>24=NPK(15:15:15) | 25=mavuno-basal<br>26=kero green<br>27=rock-phosphate<br>28=NPK 14:14:20<br>29=mijingu 1100<br>30=UREA+CAN<br>31=Mavuno-top dress. | <b>Buyer type codes:</b><br>1=small trader<br>2=large trader<br>3=KTDA<br>4=coffee coop<br>5=NCPB<br>6=miller<br>7=other coop | 8=NGO<br>9=consumer<br>10=Exporter<br>11=processor<br>12=supermarket<br>13=cereal bank<br>14=pyrethrum board<br>15=bicycle trader |
|--|--|---|--|--|---|---|--|---|---|



**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.)

*Maizeseed10.sav* (key variables: *hhid, field, harvest*)

Field No.	Season 1=Main 2=Short	Crop 1=Maize 2=Green Maize 4=maize fodder	Seed Type 1=Purch/New Hybrid 2=Retained Hybrid 3=OPV 4=local var 9=IR maize	Seed varieties planted  Use code below	How did you obtain this seed? 1=Cash purchase 2=Credit 3=Exchange 4=Free 5=Retained seed 6=Voucher 7=other, specify	Source of seed  (see codes below)	Quantity used on this particular field		Cash/Credit/Exchange	
							Unit code: 1=90 kg bag 2=kgs 7=25 kg bag 8=10 kg bag 9=gorogoro 11=50 kg bag 12=debe 18=2kg packet		(Give total value if cannot get price per unit)	
field	harvest	crop	sdtype	sdvar	sdoobtain	Source	qty	units	price	value

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

**CREDIT**

**A. CASH CREDIT**

**Q3a.** Did any household member **try to get** any **cash credit** during the **2009/10 crop** year? (1=Yes) (2=No go to Q3h)

**CASHCRD**\_\_\_\_\_

**Q3b.** If yes, what was the **intended** purpose: (1=Agricultural purposes 2=Non agricultural purposes 3=Both )

**CARDWHY**\_\_\_\_\_

**Q3c.** Did you receive the **cash credit** that **you tried to obtain**? (1= Yes) (2=No go to Q3g)

**CASHRD**\_\_\_\_\_

**Q3d.** (If yes) How **much cash credit in TOTAL** did you receive (Ksh)

**CASH** \_\_\_\_\_

**Q3e.** For the **two main** sources of cash credit, what was 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 \_\_\_\_\_)

**Q3f.** How was the **cash credit** used 1=Agricultural purposes 2=Nonagricultural purposes 3=Both )

**MAINPUR** \_\_\_\_\_

**Q3g.** If you tried to get **cash credit but did not get** what was the reason for not getting?

**NCASH** \_\_\_\_\_

(1=no collateral 2=Had outstanding loan 3= Don't Know 4= did not have an account 5= lender lacked cash 6= not processed yet 7=Other, specify\_\_\_\_\_)

**B. IN KIND CREDIT**

**Q3h.** Did any household member **try to get** any **credit in kind** during the 2009/10 crop year? (1=Yes) (2=No go to Q3l)

**INKDCRD** \_\_\_\_\_

**Q3i.** **If yes**, what was the intended purpose? 1=Agricultural purposes 2=Non-agricultural purposes 3=Both)

**NCREDWHY**\_\_\_\_\_

**Q3j.** Did you receive the **credit** in kind **that you tried to obtain**? (1= Yes) (2=No go to Q4)

**CRED** \_\_\_\_\_

**Q3k.** In what form was the credit in kind received? (1= Agricultural inputs 2=Household consumption 3=Both)

**FCREDIT** \_\_\_\_\_

**C. NON-AGRICULTURAL CREDIT**

**Q3l.** **If credit was used for non-agricultural purposes (if Q3f and/or Q3k=2 or =3) give details**

*Nagcred10.sav (Key variables: hhid crduse)*

Main use of the credit 1= school fees 5 =buy land 2 =medical 6=build a house 3 =business 7=other, specify_____ 4 =household consumption	Type of credit received 1=Cash 2=In kind	What was the source of credit:	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=other, specify_____	Sources of Credit 1= neighbor 6=NGO/MFI 2=farmer group 7=AFC 3=SACCO 8= group (ROSCA) 4=commercial bank 9=village bank 5=relative/friend 10=shopkeeper 11=other, specify
<b>crduse</b>	<b>ctype</b>	<b>crdsor</b>	<b>cvalue</b>	<b>repay</b>	





**Fertilizer Subsidy and Availability**

**Q5a.** Did you receive any fertilizer subsidy over the last three years? (1=Yes 2=No skip to Q5c)

**SUBSIDY**\_\_\_\_\_

**Q5b.** Please fill the table if the household received any fertilizer subsidy

*(Enumerator Instruction: payment for partial subsidy and the market price should be recorded for the same unit as specified in Sbunit)*

*Fertsubsidy10.sav (Key variables (hhid)*

Fertilizer type received ( <i>use fertilizer codes</i> )	Year you received	source of the subsidised fertilizer	Quantity received	Unit	What form of subsidy was it 1=Partial 2=Full	If partial, how much did you pay per unit	What was the market price per unit during that period
<b>sfert</b>	<b>subsidyr</b>	<b>fsorc</b>	<b>sqnty</b>	<b>sbunit</b>	<b>sform</b>	<b>sprice</b>	<b>Mktprice</b>

**Fsorc codes** 1=Government NAAIAP 2=Govt Other 3=NGO 4= Other, specify\_\_\_\_\_

**Unit codes:** 2=kg, 3=litre, 13=gram, 8=10 kg bag, 7= 25 kg bag, 9=gorogoro, 11=50 kg bag.

**Q5c.** Have there been any periods during the **last 3 years** that you have tried to get fertilizer and have not been able to at the normal location?

*(1=Yes 2= No; If no go to Q5e)* **FERTGET**\_\_\_\_\_

**Q5d. Fill the table below:**

*Fertaval10.sav*

Year	Month (1=Jan.....12=Dec)	Main reason you were unable to get the fertilizer at the <b>normal source</b>	Did you travel to another location to get fertilizers? 1=Yes 2=No	Distance <b>travelled to another location</b> to get fertilizer during this period?	Did you get <b>the quantity</b> you wanted to buy <b>at this new location</b> ? <i>(1=Yes 2=No)</i>	If <i>Fqnty</i> =2, why? <b>Main reason</b>
<b>fyear</b>	<b>fmnth</b>	<b>freason</b>	<b>travel</b>	<b>fkm</b>	<b>fqty</b>	<b>Whyno</b>

**Freason codes:**

- 1=high prices
- 2=Outstock
- 3=National shortage
- 4=Other specify\_\_\_\_\_

**Whyno codes:**

- 1=high prices
- 2=rationing of the commodity
- 3=high transport cost
- 4=lack of appropriate transport
- 5=Other specify\_\_\_\_\_

**(Enumerator Instruction:** check to see if household used fertilizer on maize from crop table. *(If did use then skip to Q6a)*

**Q5e.** 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\_\_\_\_\_

**(Enumerator Instruction:** check to see if household used fertilizer from crop table.)

**Q5f.** 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 \_\_\_\_\_

### LABOUR COSTS

**Q6a.** In total, how much did you spend on salaried farm worker(s) for cropping activities in the main and short harvests, 2009/10? (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)

**Q6b.** Identify the largest monocrop maize field *otherwise* consider the largest intercrop maize field in the main season

**FIELD** \_\_\_\_\_

**Q6c.** What is the **slope** of this field: (1=flat 2=steep 3=steep terraced 4=moderate 5=moderate terraced)

**SLOPE** \_\_\_\_\_

**Q6d.** When did you plant maize in the **main** season (*relative to the usual planting time*)? (1=Early) (2=On Time) (3=Late)

**TPLANT** \_\_\_\_\_

**Q6e.** Did any of your salaried workers work on the largest maize field for the 2009/10 main season? (1=Yes) (2=No)

**SALLBR** \_\_\_\_\_

Ask about the largest monocrop maize field. If no maize monocrop field ask for the largest intercrop maize field in the **main** season.

**Q6f.** What **labour inputs** did you use for **the largest maize field** for the 2009/10 **main** season?

*Labour10.sav* (No key variables)

Activity name	Code	Hired Labour				Family Labour (adults)								Family Labour (children)			Salaried Labour (ONLY if unpaid)						
		No hired	No of days	Kshs per person per day	Total Kshs by contract	No of males	Total No of hours each				Total Hours for all days worked	No of females	Total No of hours each		Total Hours for all days worked	No of children	Total No of hours each		Total Hours for all days worked	No of workers	No of days worked each	No of hours per day each (on average)	
	ACTIV	LB01	LB02	LB03	LB04	LB05					LB06	LB07			LB08	LB09			LB10	LB11	LB12	LB13	
1 <sup>st</sup> Ploughing	1																						
2 <sup>nd</sup> Ploughing	2																						
Harrowing	3																						
Planting	4																						
1 <sup>st</sup> Weeding	5																						
Top-dressing	6																						
2 <sup>nd</sup> 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																						

**WAGE RATES.** (Ref: June09 – May10).

**Q6g.** What is the **daily wage rate** for **general farm labour** in this area? (Ksh per day): **MALEWAGE** \_\_\_\_\_ **MALEHOUR** \_\_\_\_\_  
**FEMWAGE** \_\_\_\_\_ **FEMHOUR** \_\_\_\_\_

**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** \_\_\_\_\_

**Q7.2a** 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** \_\_\_\_\_

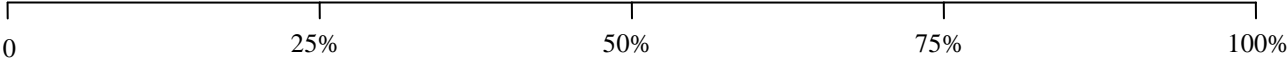
1 = more private traders now    2 = fewer private traders now    3 = the same    4 = not sure

**Q7.2b** In the **last main season** how many traders came into this village within the first 4-5 months after harvest to buy maize? (-9=Don't Know) **TRADENUM** \_\_\_\_\_

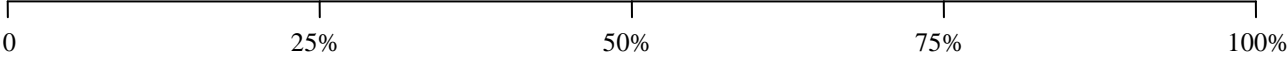
**TIME ALLOCATION AND DECISION MAKING**

**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.” Show the respondent the lines and let him/her mark for you the points.

**Q8.1** What Proportion of **time** did the **Household Head** allocate to **farming activities (crop/livestock)** in the last one year? **TIMEHD** \_\_\_\_\_



**Q8.2** What Proportion of **time** did the **spouse** allocate to **farming activities (crop/livestock)** in the last one year? **TIMESP** \_\_\_\_\_  
(no spouse use code -9)



**Q8.3** Indicate in the table below who in the household is the main decision maker on production marketing and income of the following enterprises in this Household

*Decision10.sav (Key variables hhid, enterp)*

Enterprise		Main decision maker on...			Decision maker
		Production	Marketing	Use of income generated	
Enterp		prodec	makdec	useinc	
Maize	1				1=Head 2=Spouse 3=Male Children 4=Female Children 5= Head and Spouse 6=Head, spouse & children 7= Household non members
Cash crops	2				
Fruits and Vegetables	3				
Other crops	4				
Large Livestock	5				
Small livestock	6				

**Q8.4** In which year did this household **first use improved** maize seed (hybrid/OPV)? (Enter 0 if household never used hybrid seed) **YEARHMZ** \_\_\_\_\_

**Q8.5** 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**

**Q9a.** 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\_\_\_\_\_)

**Q9b.** Are you practising **zero-tillage**? (1=Yes) (2=No) **ZEROTIL** \_\_\_\_\_

**Q9c.** Are you **composting manure**? (1=Yes) (2=No go to Q9e.) **COMPOST** \_\_\_\_\_

**Q9d.** If **Yes**, which year did you start **composting manure**? **YRCOMP** \_\_\_\_\_

**Q9e.** 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 the following commodities in this area during the 2009/2010 main season?

**(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 9.1 through 9.4. 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>
<b>Q 9.1a.</b> What is the price of <b>DAP</b> in this area? (record the price and unit of measure)	(Ksh):	<b>DAP</b> _____	<b>UDAP</b> _____
<b>(Instruction:</b> Do not ask this question if the unit given for DAP is a 50 kg bag.)			
<b>Q9.1b.</b> What is the price of a <b>50 kg bag</b> of <b>DAP</b> in this area? (-9 = Do not know)	(Ksh):	<b>PDAP</b> _____	
<b>Q 9.2a.</b> What is the price of <b>urea</b> in this area? (record the price and unit of measure)	(Ksh):	<b>UREA</b> _____	<b>UUREA</b> _____
<b>(Instruction:</b> Do not ask this question if the unit given for urea is a 50 kg bag.)			
<b>Q9.2b.</b> What is the price of a <b>50 kg bag</b> of <b>urea</b> in this area? (-9 = Do not know)	(Ksh):	<b>PUREA</b> _____	
<b>Q 9.3a.</b> What is the price of <b>NPK</b> in this area? (record the price and unit of measure)	(Ksh):	<b>NPK</b> _____	<b>UNPK</b> _____
<b>(Instruction:</b> Do not ask this question if the unit given for NPK is a 50 kg bag.)			
<b>Q 9.3b.</b> What is the price of a 50 kg bag of <b>NPK</b> in this area? (-9 = Do not know)	(Ksh):	<b>PNPK</b> _____	
<b>Q 9.4a.</b> What is the price of <b>CAN</b> in this area? (record the price and unit of measure)	(Ksh):	<b>CAN</b> _____	<b>UCAN</b> _____
<b>(Instruction:</b> Do not ask this question if the unit given for CAN is a 50 kg bag.)			
<b>Q 9.4b.</b> What is the price of a 50 kg bag of <b>CAN</b> in this area? (-9 = Do not know)	(Ksh):	<b>PCAN</b> _____	
<b>Q 9.5a.</b> What is the price of <b>sifted maize flour</b> in this area? (record the price and unit of measure)	(Ksh):	<b>SIFTED</b> _____	<b>USIFTED</b> _____
<b>(Instruction:</b> Do not ask this question if the unit given for sifted maize flour is 2 kg packet.)			
<b>Q 9.5b.</b> What is <b>the price of a 2 kg packet of sifted maize flour in this area?</b> (-9 = Do not know)	(Ksh):	<b>PSIFTED</b> _____	
<b>Q9.6</b> What is Posho mill charge for 1 gorogoro (2.25 kg) of maize into <b>straight run posho meal</b> ? (Ksh per 2 kg tin):		<b>POSHOR</b> _____	

**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

**LAND MARKETS**

**Q10** Did this household purchase or sell land in the **past 10 years** (since 1999)? 1=yes 2=no (if no, skip Q10b):

**LANDPS**\_\_\_\_\_

**Q10a.** Please indicate the type of land transactions that the household was engaged in the table below.

**Landmkt10.sav** (Key variables: hhid, Pid)

Parcel purchased or sold	Bought or sold the plot 1=purchased 2=sold	Size in acres	Year of purchase /sale	Value of transaction at that time	Current market value of land <b>now</b> if sale were to take place today	If <b>Transc=1</b> , how is the plot used? 1=Agricultural 2=Non Agricultural 3=Both	If <b>purpose=1 or 3</b> , did you use it for cropping activities in the last cropping year? 1=yes 2=No	What was the main reason for...?		Was it bought/sold with title deed? 1=Yes 2=No	Is the parcel adjoining any of your other land properties? 1=Yes 2=No	Distance from the motorable road <b>(km)</b>	Distance from the nearest important water source <b>(km)</b>	Slope of the parcel 1=Flat 2=Steep slope 3=Steep terraced 4=moderate slope 5=Moderate terraced
								Purchasing	Selling					
pid	transc	acres	year	pusalval	curval	purpose	cropping	pureas	salreas	title	adjoin	distroad	distwter	slope

**Pur reasons (Pureas)**

- 1=Fertile soil
- 2=Good climate for agriculture
- 3=Insecurity
- 4=More land to farm
- 5=Cheap
- 10=Other specify

**Sale reasons (Salreas)**

- 6=Needed money
- 7=Insecurity
- 8=Poor quality
- 9=Good price
- 11=Other specify

**Q10b.** Has land been **forcefully taken away** from this Household in the last **10 years**(1=Yes) (2=No)

**LDTAKE**\_\_\_\_\_

**Q10c.** What is the **land rental rate for one acre of good quality agricultural land for one year** in this area? (Ksh per acre):

**LRRY** \_\_\_\_\_

**Q10d.** What is the **land rental rate for one acre of good quality agricultural land for one season** in this area? (Ksh per acre):

**LRRS** \_\_\_\_\_

**Q10e.** Is it possible to borrow land in this area? 1=Yes 2=No 3=don't know

**LNDBOROW** \_\_\_\_\_

**LIVESTOCK**

**Q11.0** Did you have any **livestock** in the period June 2009 to May 2010? (1=Yes) (2=No go to Q11.2)

**LSTOCK**\_\_\_\_\_

**Q11.1** If **YES**, Please tell us about your **livestock** activities over the period **June 2009 to May 2010**.

*Livestock10.sav* (key variables: hhid, livecode)

Livestock code		Number owned (include Livestock kept by others) May 2010	Current Average Value (Ksh)	Number Owned <b>June 2009</b>	Number Purchased	Unit Price at Purchase (Ksh)	Number Received as Donation/ Dowry	Number Consumed/ Slaughtered	Number Given out as Donation/ Dowry	Number stolen/ died	Number Sold	Average Unit Price When Sold (Ksh)
livecode		May10	curval	Jun09	purch	uprice	recdon	consume	givdon	stolen	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											
Other, specify	24											

**LIVESTOCK OUTPUT**

**Q11.2** On average, how much milk, does this household **consume per day**, whether from **own production, purchases or receipts?**

**MLKCON** \_\_\_\_\_

**Q11.3** Did this household produce any **cow milk** during **June09 to May 2010?** (1=Yes) (2=No go to Q11.4)

**MLKPRD** \_\_\_\_\_

*Cowmilk10.sav*

*Key Variables: hhid milk*

		Avg No of animals producing milk	Total Quantity produced and sold in each month (in litres) Between June09 and May 2010												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=Reliable 6=other, specify _____
Product	milk	cow	Jun09	Jul09	Aug09	Sep09	Oct09	Nov09	Dec09	Jan10	Feb10	Mar10	Apr10	May10	buyer	price	km	whybuyr
Cow milk Produced	1																	
Fresh cow milk Sold	2																	
Sour cow milk sold	3																	

**Q11.4** Other livestock products produced during the period **June 2009 to May 2010**

*Liveprod10.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(excluding hatched)	5							
Hides and skin	6							
Fish (if have fish pond)	7							
Wool	8							
Manure (Only if sold)	10							
Other, specify _____	9							



**Q12.0** Did this household use **Artificial Insemination (A.I)** on cattle from June 2009-May 2010? (1=Yes) (2=No go to Q12.2) **AI**\_\_\_\_\_

**Q12.1** If Yes, What was the **source** of the A.I? (1=Govt 2=Private 3=NGO 4=CBO 5=cooperative 6=Other, specify\_\_\_\_\_ ) **SORCEAI**\_\_\_\_\_

**Q12.2.** In total **over the period** June 2009 to May 2010, how much money did you spend on **the following services** for your **livestock**?

*Livescost10.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							

**Q12.3** In total, how much did you spend on **salaried** farm worker(s) for **livestock** activities from **June 2009 to May 2010**? **SALLSTK** \_\_\_\_\_  
 (Enumerator Instruction: remember to consider only the proportion of time spent on livestock activities on apportioning salary)

**Q12.4** Did you receive any **livestock** or **livestock inputs** on **credit**? (1=Yes) (2=No go to Q13.1) **LIVECRD** \_\_\_\_\_

**Q12.5** If Yes, give details in the table below:

*Livestinput10.sav (Key variables: hhid, input)*

Input /livestock used	Form of credit	Source of credit	Value of Credit	Mode of repayment
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 credit 2=In kind 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=other, specify_____		1=crop revenue 2=livestock revenue 3=off farm income 4=both livestock and crop revenue 5=Other, specify_____
input	mdpurch	source	cvalue	modpay

**Q13.1** Have you ever practiced **on-farm feed conservation**? (1=Yes) (2=No go to Q13.3) **CONSERV** \_\_\_\_\_

**Q13.2** If yes, which **methods** did you use? (Specify up to 2 methods) **FEEDPRS1** \_\_\_\_\_  
**FEEDPRS2** \_\_\_\_\_  
 1=Hay 2=Silage 3=Crop Residuals 4=Other, specify\_\_\_\_\_

**Q13.3** Do you practice **Zero grazing** in your farm? (1=Yes) (2=No go to Q14a) **ZGRAZE** \_\_\_\_\_

**Q13.4** If yes, which **year** did you start practising **zero grazing**? **YRGRAZ** \_\_\_\_\_

**EXTENSION and GROUP PARTICIPATION**

**Q14a.** Did you **actively seek advice** on crop or livestock between **June09 to May2010**? (1=Yes) (2=No go to Q14c) **SEEKADV** \_\_\_\_\_

**Q14b. 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\_\_\_\_\_)

**Q14c. 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=don't need extension service 6=other, specify\_\_\_\_\_)

**Q14d.** Are you paying for **extension services**? (1=Yes go to 14f) 2=No) **PAYSERV** \_\_\_\_\_

**Q14e.** If **extension services** in general were to be availed at a fee, would you be **willing to pay**? (1=Yes) (2=No go to Q14g) **AVAILFEE** \_\_\_\_\_

**Q14f.** 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:

*Extension10.sav (Key variables: hhid, serv)*

Service	Individual	Other people	Group of 20 Members	
serv	indiv	Others	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 = <b>Ksh 100</b> ← Start at this level (go up or down depending on response)
				4 = Ksh 80
				3 = Ksk 60
				2 = Ksh 40
				1 = Ksh 20
				0= Cannot pay for this specific service

**Q14g. 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\_\_\_\_\_)

**Q14h.** Is anyone in this household a **member** of any **co-operative or group or out-grower group**? (1=Yes) (2=No go to Q15) **GRPMEM** \_\_\_\_\_

**Q14i.** If Q14h=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 6=others, specify\_\_\_\_\_ **GRPMEM3** \_\_\_\_\_)

**Q14j.** 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= Other specify\_\_\_\_\_) **SERV2** \_\_\_\_\_  
**SERV3** \_\_\_\_\_

**Q15. DEMOGRAPHIC CHARACTERISTICS OF HOUSEHOLD MEMBERS (OLD MEMBERS ONLY- Adults and Children listed in 2007)**

Demog10.sav (Key variables: hhid, mem)

**Reference Period: June 2009 to May 2010**

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>	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 June 2009 to May 2010 has this person been living at home?	Did this person receive cash from informal /business activity? Include farm kibarua, dividends Between June 2009 & May 2010?  1=Yes 2=No	Did this person receive cash or payment in kind from salaried employment, wage activities, remittances, or pensions between June 2009 & May 2010?  1=Yes 2=No	Has this person been chronically ill for a 3 consecutive month period in the last 12 months and unable to perform hh duties?  1= Yes 2= No
MEM	NAME	DA01	DA02	DA03	DA04	DA05	DA06	DA07	DA08	DA09	DA10	DA11	DA12

**Relation to head(DA03)**  
1= head            8= son/daughter-in-law  
2= spouse         9= grandchild  
3= own child      10=other relative  
4= step child     11=unrelated  
5= parent         12=brother /sister-in-law  
6= brother /sister 13=parent-in-law  
7= nephew /niece 14=worker  
                          15=Other specify

**Marital Status(DA04)**  
1 = single  
2 = monogamously married  
3 = polygamously married  
4 = divorced  
5 = widowed  
6 = separated  
7 = other, specify\_\_\_\_\_

**Education levels(DAO6)**  
-99=don't know    6=std 6  
-9=None            7=std 7  
0=pre school      8=std 8  
1=std 1             9= form 1  
2=std 2             10 = form 2  
3=std 3             11=form 3  
4=std 4             12=form 4  
5=std 5

13=form 5            20=univ 2  
14=form 6            21=univ 3  
15= college 1       22=univ 4  
16= college 2       23=univ 5 &  
17= college 3       above  
18= college 4  
19=univ 1

**Reason for absence(DA08)**  
1=left to find a job     8=went back home  
2=left to attend school 9=another household  
3=married away        10=went missing  
4=deceased             7= Other, specify\_\_\_\_  
5=divorced /separated  
6=living with other relatives

**Q15 (cont'd) DEMOGRAPHIC CHARACTERISTICS OF HOUSEHOLD MEMBERS (OLD MEMBERS ONLY- Adults and Children listed in 2007)**  
*demog10.sav* (Key variables: *hhid, mem*)

**Reference Period: June 2009 to May 2010**

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>	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 June 2009 to May 2010 has this person been living at home?	Did this person receive cash from informal /business activity? Include farm kibarua, dividends between June 2009 & May 2010? 1=Yes 2=No	Did this person receive cash or payment in kind from salaried employment, wage activities, remittances, or pensions between June 2009 & May 2010? 1=Yes 2=No	Has this person been chronically ill for a 3 consecutive month period in the last 12 months and unable to perform hh duties? 1= Yes 2= No
Mem	name	DA01	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-law
- 9= grandchild
- 10=other relative
- 11=unrelated
- 12=brother /sister-in-law
- 13=parent-in-law
- 14=worker
- 15=Other specify

**Marital Status(DA04)**

- 1 = single
- 2 = monogamously married
- 3 = polygamously married
- 4 = divorced
- 5 = widowed
- 6 = separated
- 7 = other, specify \_\_\_\_\_

**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= form 1
- 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
- 7= Other, specify \_\_\_\_\_

**Q16 ADDITIONAL ADULTS AND CHILDREN NOW RESIDENT BUT NOT LISTED IN 2007**

demogA10.sav (Key variables: hhid, mem)

Reference Period: June 2009 to May 2010

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 June 2009 to May 2010 has this person been living at home?	Was ..... a member of this hh in 2007? 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 ...			After coming to reside in this household		Has this person been chronically ill for any 3 consecutive month period in the last 12 months and unable to perform hh duties? 1= Yes 2= No
												engaged in 1 = yes, 2 = no, -9=don't know	formal or informal business activity	Formal sector salary employment	Farmin g somewhere else	Did this person receive cash from a formal or informal business activity between June 2009 & May 2010? 1=Yes 2=No	
mem	name	AD01	AD02	AD03	AD04	AD05	AD06	AD07	AD08	AD09	AD10	AD11	AD12	AD13	AD14	AD15	AD16
91																	
92																	

- |  |   |  |   |  |   |  |
|--|---|--|---|--|---|--|
| <p><b>Rship to head (AD03)</b><br/>         1= head<br/>         2= spouse<br/>         3= own child<br/>         4= step child<br/>         5= parent<br/>         6= brother/sister<br/>         7= nephew/niece</p> | <p><b>Marital Status (AD04)</b><br/>         1 = single<br/>         2 = monogamously married<br/>         3 = polygamously married<br/>         4 = divorced<br/>         5 = widowed<br/>         6 = separated<br/>         7 = other, specify _____<br/>         15=Other specify</p> | <p><b>Education levels</b><br/>         -99=don't<br/>         -9=None<br/>         0=nursery<br/>         1=std 1<br/>         2=std 2<br/>         3=std 3<br/>         4=std 4<br/>         5=std 5</p> | <p>6=std 6<br/>         7=std 7<br/>         8=std 8<br/>         9= form1<br/>         10 = form<br/>         11=form 3<br/>         12=form 4</p> | <p>13=form 5<br/>         14=form 6<br/>         15= college<br/>         16= college<br/>         17= college<br/>         18= college<br/>         19=univ 1</p> | <p><b>New HH member (AD10)</b><br/>         1=married into the family<br/>         2=returned to hh to help with hh activities<br/>         3=returned to the hh because he/she is sick<br/>         4=hh member missed during 2007survey<br/>         5=lost parents (orphaned)<br/>         6=fostered<br/>         8=worker<br/>         9=attend school</p> | <p>10=separated/divorced<br/>         11=death of spouse<br/>         12=ran away from home<br/>         13=lost job<br/>         14=inherited household<br/>         15=live with relatives<br/>         16=born<br/>         7=specify, other_____</p> |
|--|---|--|---|--|---|--|

**MORTALITY: Reference Period is since 2007**

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 2007. We appreciate your responses.

**Q17.0** Since 2007, has there been any household member who has died? (1=Yes) (2=No go to Q18)

**DEATH**\_\_\_\_\_

**Q17.1** If 17.0 =Yes, could you tell us about them starting from the most recent.

*Mortality10.sav* (Key variables: *pdmem, mem*) **Reference Period: Since July 2007**

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 the current 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?
<b>PDMEM</b>	<b>MEM</b>	<b>NAME</b>	<b>PD01</b>	<b>PD02</b>	<b>PD03</b>	<b>PD04</b>	<b>PD05</b>	<b>PD06</b>
1								
2								
3								
4								
5								
6								

**Cause of death (PD05)**

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

**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

**Q18 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 (June 2009-May 2010) (include jua kali and farm kibaruas). **(Probe for charcoal burning, fishing and own tree selling)**

*Business10.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	acots	hgross	Hcost
			6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10						
name	mem	activity	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May						

**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 Matatu business         | 30 Retail shop/kiosk/shopkeeping | 36 Tout/turnboys      |                                |
|                                | 16 Harrowing                    | 41 Medical health business | 53 Sand harvesting               | 37 Traditional doctor |                                |

**Q19 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 **June 2009 to May 2010** including **pensions and remittances**. For remittances remember to separate into local and from abroad, depending on source. Include only income remitted back to household.

*Salwg10.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>											
					6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10
Name	mem	activity	mnwage	samee	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May

**Employment Codes:**

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

**19a. What were the two main sources of the remittances?**

REMIT1\_\_\_\_\_REMIT2\_\_\_\_\_

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

**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=Zap 8=Telegraphic money Order 9= Postal Order 10=Courier 11= yuCash

12Other, specify\_\_\_\_\_)



**ACCESS TO RURAL SAVINGS/BANK ACCOUNTS**

**Q20a.** Does any member of the household have a savings/bank account

**Enumerator to probe for all savings accounts including cooperatives, ROSCAs e.t.c for all hh members)** (1=Yes) (2=No go to 21) **ACCOUNT** \_\_\_\_\_

**Q20b. Fill the details for the accounts held by the hh members**

*Savings10.sav* (Key variables: *hhid, mem*)

Person with the account	Member number (from the demog file)	Where is the savings account	Km to Banking point	Which year did you open the account
	MEM	SAVES	KMBANK	ACCOPEN
Head				
Spouse				
Joint				
Other1				
Other2				
Other3				

**Saves codes:**

1= Post bank    2 =SACCO    3=Commercial Bank,    4=MFI,    5=Groups (ROSCAs)    6=Village bank    7=Phone banking    8 = other, specify\_\_\_\_\_

**Q21 PURCHASES FOR HOME CONSUMPTION between June 2009 and May 2010**

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

*Purch10.sav (Key Variables: hhid purch )*

Purchased Products	About how much did you buy over the past 4 months – February 2010 - May 2010?		Price per Unit	About how much did you buy between October 2009 and January 2010?		Price per Unit	About how much did you buy between June 2009 and Sept 2009?		Price per Unit	Complete only if the respondent cannot answer by 4 month periods			Main source of this staple purchased by the household
	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												
Cassava	7												
Sweet potato	8												
Millet	9												
Sorghum	10												
Irish potatoes	11												
Cooking bananas	12												

**Source- (purchase location codes)**

**Unit Codes:**

- 1= 90 kg bag
- 11= 50 kg bag
- 2=kg
- 18 = 2 kg packet
- 7 = 25 kg bag
- 9=gorogoro
- 12=debe
- 6=Bunches
- 19 = 1 kg packet
- 20 = 5 kg bag
- 8 = 10 kg bag

- 1=Large Supermarket Chains (Uchumi, Nakumatt, Ukwala, Tuskys)
- 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/Farmer
- 9=Restaurant
- 10=Institutions
- 11= poshomill
- 12= Other, specify\_\_\_\_\_

**CLIMATE CHANGE**

**Q22a** Do you feel that there have been any changes **between now and 10 years ago** with regards to rainfall patterns

**RAIN10**\_\_\_\_\_

1=Yes 2=No (go to Q22c) 3=Don't Know

**Q22b.** If Q22a=Yes in what ways has the rainfall pattern changed?

**RPCHANGE**\_\_\_\_\_

1=Increased amount 2=decreased amounts 3=timeliness 4=other specify\_\_\_\_\_

**Q22c.** Do you feel that there have been any changes **between now and 10 years ago** with regards to Temperature

**TEMP10**\_\_\_\_\_

1=Yes 2=No (go to Q22e) 3=Don't Know

**Q22d.** If Q22c=Yes in what ways has the temperature changed?

**TPCHANGE**\_\_\_\_\_

1=Increased 2=decreased 4=other specify\_\_\_\_\_

**Q22e** Please, fill the following table if the household responds **yes** to **Q22a or 22c above**. *Climate10.sav* (Key variable *hhid, weather*)

Weather Pattern	Has this affected your farming? 1=Yes 2=No	If yes, how has it affected your farming? (Give three reasons)			Have you adopted any measures to deal with this change 1=yes 2=No	If yes, which measures are you using?			If not, why are you not using any measures	Did the household require any assistance in the adoption measures 1=Yes 2=No	Main source of support that was most useful
		AFFCT1	AFFCT2	AFFCT3		ADPT1	ADPT2	ADPT3			
WEATHER	AFFCT	AFFCT1	AFFCT2	AFFCT3	ADPTN	ADPT1	ADPT2	ADPT3	WHYNOT	ADHELP	ADSORCE
Rainfall	1										
Temperature	2										

**Effect on farming**

**Negative**

- 1=Decline in yields
- 2=Difficult to time seasons
- 3=Increased weeds
- 4=Increased pests
- 5=Increased diseases
- 6=Decrease in land quality

**Positive**

- 7=Increase in yields
- 8=Good timing of seasons
- 9=Reduced weeds
- 10=Reduction of pests
- 11=Reduction of diseases
- 12= Increase in land quality
- 13=other, specify\_\_\_\_\_

**Adoption Measures**

- 1=Changing crop varieties,
- 2= Tree planting
- 3= water harvesting
- 4=Soil & water conservation measures
- 5= irrigation
- 6= Other Specify\_\_\_\_\_

**Whynot codes**

- 1=expensive/lack money
- 2=shortage of labour
- 3=don't know what to do
- 4=Other specify\_\_\_\_\_

**Main source of help (Adsorte)**

- 1=family and friends
- 2=media
- 3=government aid
- 4=NGO aid
- 5=Religious group
- 6=Others (specify)\_\_\_\_\_

**Q22f.** List any practices you know of that can lead to changes in rainfall patterns and temperature.

**FAMPRAC1**\_\_\_\_\_

**FAMPRAC2**\_\_\_\_\_

**FAMPRAC3**\_\_\_\_\_

**FAMPRAC4**\_\_\_\_\_

**POST ELECTION VIOLENCE**

**Q23a.** Was your household affected by the 2008 post-election violence? 1=Yes 2=No (*Skip to Q24a*) PEV\_\_\_\_\_

**Q23b.** How was the households affected by the violence? 1=directly 2= indirectly (*got to Q23d*) 3= both directly and indirectly HOW\_\_\_\_\_

**Q23c.** *If directly affected, please answer the following questions (Pev10.sav)(Key variable hhid, Deffct)*

How were you directly affected?	If direct effect=1 Kilometers covered to household to relocate?	If direct effect=2 or 3, how many were they?	If effect=4,5,6 or 7, Value of property lost in Ksh	Were you compensated for this loss. 1=yes 2=No 3=Partially	<b>Deffct codes</b> 1= displaced 2=lost family member 3=injury of HH members 4=property destroyed 5=crops destroyed 6=lost livestock 7= lost property 8=other specify
<b>deffct</b>	<b>dkm</b>	<b>dnum</b>	<b>dval</b>	<b>compsn</b>	

**Q23d.** If indirectly affected what were the **three main** effects **INDIREC1**\_\_\_\_\_ **INDIREC2**\_\_\_\_\_ **INDIREC3**\_\_\_\_\_

1=Hosted IDPs 2=supported IDPs 3=disruption of produce market 4=high commodity prices 5=disruption of schooling 6=general insecurity  
7=disruption of transport 8=heighten land insecurity 9=farming delayed 10=relative property destroyed

**CELL PHONE USAGE**

**Q24a.** If a member of this household owns a mobile phone, skip to table): If a member of this household *does not own a mobile phone*, do you **have access** to one (that you can use)? (1=Yes) (2=No) **MOBACC** \_\_\_\_\_

**Q24b.** If Yes, from **whom do you access the mobile?** (1=neighbour 2= relative 3=Other, specify\_\_\_\_\_ ) **ACCMOB** \_\_\_\_\_

**Q24c** Please fill the table if the household has access to a mobile phone from any source. **cellphone10.sav** (key variable: hhid, usephone)

Type of use of mobile phone		Has anyone in your hh used a phone for this purpose during .....(1=yes, 2=no)		Please rate the importance for your hh of this use of a mobile phone 1=not important 2=important 3=very important
		Past month	Past 12 months	
	<b>usephone</b>	<b>usemonth</b>	<b>useyear</b>	<b>phonimp</b>
Staying in contact with <b>family and friends</b>	1			
To gather information about farm produce prices	2			
To locate buyers for your farm products	3			
To assist in running your <b>own non-farm business</b>	4			
To <b>send or receive money</b>	5			
To <b>get extension information</b> from the provider	6			
Other uses (please list)	7			

**Q25 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.)

*Asset10.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	chaff 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				63	poshomill			
51	water trough				64	Sewing/knitting machine			

**INFRASTRUCTURE**

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

**Q26. Distances from your homestead**

- a) What is the distance from your homestead to the nearest **fertilizer seller**? **FERTSKM** \_\_\_\_\_
- b) How much does it cost to transport a 50 kilo bag of fertilizer from the nearest seller to homestead? **FERTRANS** \_\_\_\_\_
- c) With what type of transport from seller to homestead?  
(1=car, 2=bus, 3=matatu, 4=bicycle, 5=ox cart 6=other specify\_\_\_\_) **TRANTYPE** \_\_\_\_\_
- d) What is the distance from your homestead to the nearest seller of **hybrid maize seed**? **CERTMAIZ** \_\_\_\_\_
- e) What is the distance from your homestead to the nearest **NCPB** depot? (-9=don't know; skip to h) **NCPB** \_\_\_\_\_
- f) Did this household **sell any maize to NCPB** in the period June 2009 to May 2010? (1 =Yes) (2=No) **NCPBBUY** \_\_\_\_\_
- g) If **f=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** \_\_\_\_\_  
**NCPBNOT2** \_\_\_\_\_
- h) What is the distance from your homestead to **extension advice**? **DEXTN** \_\_\_\_\_
- i) What is the distance from your homestead to **veterinary help**? **DVET** \_\_\_\_\_
- j) What is the distance to the nearest **A.I** service provider **AIKM** \_\_\_\_\_
- k) What is the distance from your homestead to the nearest **market place** for **farm produce**? **MKTKM** \_\_\_\_\_
- l) What is the distance from your homestead to a **motorable road**? **DMTROAD** \_\_\_\_\_
- m) What is the distance from your homestead to a **tarmac road**? **DTMROAD** \_\_\_\_\_
- n) Is the nearest **tarmac** road better, worse or the same as in 2007?  
(1=better 2=worse 3=the same 4=not sure) **CTMROAD** \_\_\_\_\_
- o) What is the distance to the nearest **piped water source**? **DPH2O** \_\_\_\_\_
- p) What is the distance to the nearest **health centre**? **DHLTCTR** \_\_\_\_\_
- q) What is the distance to the nearest **electricity supply**? **DELECT** \_\_\_\_\_
- r) What is the distance from your homestead to the nearest **livestock market place**? (-9=don't know) **ANIMKT** \_\_\_\_\_
- s) What is the distance to the nearest **public telephone** (landline or mobile)? **PHONE** \_\_\_\_\_
- t) How much does it cost to transport one 90 kilo bag of maize to the nearest town ? **MZTRANS** \_\_\_\_\_
- u) With what type of transport from your homestead to the nearest town ?  
(1=car, 2=bus, 3=matatu, 4=bicycle, 5=ox cart 6=Other specify\_\_\_\_\_) **MZTRATYP** \_\_\_\_\_
- v) What is the distance to the nearest **town** or **headquarters**? **DISTOWN** \_\_\_\_\_

**FOOD SECURITY**

**Q27a.** In the **last 12 months**, for how many months has the household relied **entirely on Relief food**? **RELIEF** \_\_\_\_\_

**Q27b.** 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 \_\_\_\_\_ )

**Q27c.** In the **last 12 months**, have you participated in a cash transfer program, either for senior citizens, orphans, or food security? **TRANSF** \_\_\_\_\_  
(1 =Yes) (2=No)

**Q27d** If 27c=yes, what was the amount and frequency (number of times) of transfer? **AMTTR1**\_\_\_\_\_ **TRAFREQ**\_\_\_\_\_

**STORAGE FACILITIES FOR STAPLES**

**Q28a.** Do you have a store for **grains**? 1=Yes 2=No (Go to **Q 29a**) **GSTORE**\_\_\_\_\_

**Q28b.** What type of store and capacity do you have? **STORET1**\_\_\_\_\_ **CAPACIT1**\_\_\_\_\_ **SUNIT1**\_\_\_\_\_  
**STORET2**\_\_\_\_\_ **CAPACIT2**\_\_\_\_\_ **SUNIT2**\_\_\_\_\_

**Store type codes:** 1=Improved store 2=Traditional store 3=Room in the main house 4=Room in other houses

**Unit codes :** 1=90kg bag 11=50kg bag 10=tons

**Q28c.** Did you use any of your stores to store grains during the **2009/2010** cropping year? 1=Yes 2=No (Go to **Q 29a**) **STORED**\_\_\_\_\_

**Q28d.** If **yes to Q 28c**, indicate the **grains** you stored, the duration (**no. of months**) of storage and any storage losses that you incurred?

*Store10.sav (Key variables: hhid, store, grain)*

<b>Unit codes:</b> 1=90 kg bag 2=kgs 7=25kg bag 8=10kg bag 9=gorogoro (2kg tin) 10=tones 11=50 kg bag 12=debe (18kg tin)	<b>Type of store</b> 1=Improved 2=Traditional 3=Room in main house 4=Room in other houses	<b>Type of Grain stored (Use crop codes)</b>	<b>Quantity stored</b>		<b>Month into store.</b>	<b>Month most of the grain was out of store. (1=Jan..12=Dec -13=most still in store)</b>	<b>Quantity lost in storage (in stunit)</b>	<b>Main cause for storage losses</b>	<b>Cause for storage losses</b> 1=storage pests 2=rotting 3=sprouting 4=theft 5=other (specify)____
			<b>Quantity</b>	<b>Unit</b>					
	<b>store</b>	<b>grain</b>							

**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\_\_\_\_\_)

**ROOF** \_\_\_\_\_

**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\_\_\_\_\_)

**WALL** \_\_\_\_\_

**Q29c.** What is the **floor** material of the **main house**?

(1= earth 2=cement 3=wood 4=tiles 5=other, specify\_\_\_\_\_)

**FLOOR** \_\_\_\_\_

**Q29d.** What is the mode of ownership of the **main house**?

(1= owned 2= rented 3= owned by relative 4=other, specify\_\_\_\_\_)

**HSEOWN** \_\_\_\_\_

**Q29e.** What type of **toilet** do you use?

(1= pit latrine 2= bush 3= flush toilet 4= other, specify\_\_\_\_\_)

**TOILET** \_\_\_\_\_

**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\_\_\_\_\_)

**MAINWET** \_\_\_\_\_

**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\_\_\_\_\_)

**MAINDRY** \_\_\_\_\_

**Q29h.** What is your **main cooking fuel**?

(1=electricity 2=paraffin 3=firewood 4=gas 5=charcoal 6=solar power 7=other, specify\_\_\_\_\_)

**COOKFUEL** \_\_\_\_\_

**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\_\_\_\_\_)

**LITFUEL** \_\_\_\_\_

**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)

**COMPARE** \_\_\_\_\_

*Thank You!*