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GlobE Wetlands in East Africa Project Household Survey

| SECTION A: PRELIMINARIES | | | |
|-------------------------------------------------|---------------------|-----------------------------|-----------------------------------------------------|
| Survey Date: (dd/mm/yy)SURDATE[|] | | HHID [] |
| HH Name []HH | NAME | Cell phone number | CELLPH[] |
| Respondents name[| _]RESPO | | MEM[] |
| (Enumerator Instruction: Record the member numb | er of the Responden | t from the demography table | on section K after the survey is completed.) |
| Identifying Variables: | | | |
| | | | |
| Supervisor: [] | | | SNUM[] |
| Enumerator: [] | | | ENUM [] |
| District[] | | | DIST[] |
| Ward: [] | | | SCONT[] |
| Village: [] | | | VIL[] |
| | | | |
| GPS coordinates: | | | |
| | (1=North 2=So | uth) NS | Northing:dd) |
| | East _ | | Eastings:'dd) |
| | | | Alt: Altitude m. a.s.l() |

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| B1. When did y | ou stai | rt us | sing the | e wetland (y | ear)? | wets | tart [_ | |
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B2. Which time of the day do you usually spend in wetlands?wetime [_____]

1=Morning (before 11 am) 2=Noon (11am-2pm) 3=Afternoon (2-6 Pm) 4=Evening(after 6 pm)

B3. For the different ways in which you use the wetland, please answer the following questions

(ENUME: First probe for all uses then ask the questions that follow)

| Wetland use | Do you usually use the wetland for this purpose? (<i>Enume</i> : Include cases where the farmer was using and stopped) | Which year did you start using the wetland for this purpose? | Which Months of the Year is this activity mostly intensive in the wetland? 1=Jan,12=Dec 13=All months | wetland for th | the first two in | Other than the wetland, do you usually obtain these products/servi ce from | If othersrc =1, what are the alternative sources (atmost 2) | | | | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------|------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|----------|--|--|--|
| | 1= Yes; No=2 | | (Use coma to separate multiple responses) | | | elsewhere? 1= Yes; No=2 | | | | | |
| Wetuse | Wetused | Yearstart | useint | Prefere1 | Prefere2 | othersrc | altesrc1 | altesrc2 | | | |
| 1=Crop Production | | | | | | | | | | | |
| 2=Livestock grazing | | | | | | | | | | | |
| 3=Domestic Water | | | | | | | | | | | |
| 4=Medicinal plants | | | | | | | | | | | |
| 5=Fuel (firewood, charcoal.) | | | | | | | | | | | |
| 6=Weaving and Basketry | | | - | | | | | | | | |
| 7=Building poles | | | | | | | | | | | |
| 8=Roofing materials | | | | | | | | | | | |
| 9=Cut and Curry fodder | | | | | | | | | | | |
| 10=Brick making | | | | | | | | | | | |
| 11=Irrigation water | | | | | | | | | | | |
| 12=Fishing (natural) | | | | | | | | | | | |
| 13=Fish ponds | | | | | | | | | | | |
| 14=0ther (specify) | | | | | | | | | | | |

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| prefer1 -2 1=the only source 2=Conducive environment 3=Its a pu 9=Other(specify) | ublic resource 4=It's my land 5=Its close to my home 6 | =Quality fodder 7=Land is scarce 8=Scarcity of fodder |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| altsrc: 1=Government land 2=Own farm-upland 3=Hired land -u | upland 4= River 5=Communal land 6=Other(specify)_ | |
| ENUME : If Brick Making was one of the activities reported to | under B3, follow up with questions B4-B7. | |
| B4. What is the land size where you have been producing b. B5. Approximately how many bricks did you make in the la B6. How many of these did you sell? B7. What was the average sales price for one brick (Tshs)? | | brickland[] |

B8: Indicate your opinion on the following statements, indicating to what extent you either agree or disagree

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| | Statement | 1=Strongly Agree | 2=Agree | 3=Neutral /Don't know | 4=Disagree | 5=Stron gly disagree |
|----|----------------------------------------------------------------------------------------------------------|---------------------|---------|-----------------------------|------------|----------------------------|
| 1 | Compared to the past, the use of the wetlands for crop production in this area has increased | | | | | |
| | Reason: | | | | | • |
| 2 | Compared to the past, the use of wetlands for material collection (fuels, building, e.t.c) has increased | | | | | |
| | Reason: | | | | | |
| 3 | Compared to the past, the level of fertility in the wetland has declined | | | | | |
| 4 | People in this community would support efforts to conserve the wetland(s) | | | | | |
| 5 | Compared to 10 years ago, the amount of water in the wetlands in this area has declined | | | | | |
| 6 | Compared to the last 10 years, fishing activities in the wetland have increased | | | | | |
| | Reason: | | | | | |
| 7 | People in this area feel that they own the wetland | | | | | |
| 8 | People in this area care about public natural resources | | | | | |
| 9 | I have witnessed some form of conflict over wetland resources in the past | | | | | |
| 10 | Government officials are effective in protecting the wetland | | | | | |
| 11 | It is safe to leave my home unattended because no one can steal anything | | | | | |
| 12 | People in this area feel generally secure when dealing with outsiders | | | | | |
| 13 | If I drop my wallet/purse somewhere within this village, I am likely to get it back | | | | | |
| 14 | People in this area have strong traditional attachment to wetlands | | | | | |
| 15 | Most of my neighbours have lost some assets or livestock to thieves within the last five years | | | | | |
| 16 | Farm sizes in my village have declined compared to the past | | | | | |
| 17 | The population in my village has increased currently compared to 10 years ago | | | | | |
| 18 | In the past 5 years, I have noticed an increase in the amount of income I generate from the Wetland | | | | | |
| 19 | My family's economic situation has improved compared with 5 years ago | | | | | |

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SECTION C: CROP PRODUCTION

RAIN-FED CROP PRODUCTION:MAIN SEASON 2016 (Feb-July2016)

C1. Did this household have any cropping activity in wetland fields during the MAIN CROP Season 2016?(1= yes; no=2)MAINCROPWET [_____]

C2. Did this household have any cropping activity in upland fields during the MAIN CROP Season 2016?(1= yes; no=2)MAINCROPUP [_____]

| C3. If C1=1 and/or C2 = 1, gc | | |
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| | | / 01 CZ | _1, go u | Table be | elow; Ou | iei wise i | nove to ti | ie snort sea | ISOII CI O | <u>p.</u> | | | | | | | | | | | | | | | | | , | | | | | |
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| Crop code | Parcel No. | Field No. | Field Locatio n 1=Wetl and 2=Upla nd | | anyone else ever made bricks on this field? | Tenure | Fertility status: 1=poor 2=fertil e 3=very fertile | Main land prep type 0=none 1=manua l 2=oxen 3=tractor | land prep cost | Reason for growing the crop (Use codes below) | Planting/ Seed Type | use pure | ntity of d & cos chased season | t, if this | 1st Fer used | tilizer | 2 u: | nd Fert sed | | 3 rd Fe | | | Harve -777= yet harves | not | Sal | es | For the larg | gest Sal | e | | Quantity that spoiled after harvest (Use harvest units) | Reasons for spoilage |
| | | | | | 1=Yes 2=No | | | | | | | Qty | Unit | Cost per unit | Type | Qty | Unit | Oty Oty | Unit | Type | Qty | Unit | Qty | Unit | Sold? 1=yes 2=No | Quantity sold (Use harvest units) | Month 1= Jan. 12= Dec | Price received per unit | Buyer type | Km to point of sale | | |
| Crop | parc | field | Fldloc | Acres | bricks | tenure | ferts | landprep | Ipcost | resgrow | Sdtype | sqt | sunit | scost | ft1 | fq1 | fu1 | fr. 42 | fu2 | ft3 | £bJ | fu3 | hvt | Hunit | plos | Sqty | month | price | buyer | Km | postharv | spoilrea |
| | | | | | | | | | | <u> </u> | | | | | | | | | | | | | | | | | | | | | | |
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RAIN-FED CROP PRODUCTION SHORT SEASON 2016 (August-December 2016)

- C4. Did this household have any cropping activity in **wetland fields**during**theSHORT CROP Season 2016?**(1= yes; no=2)**SRTCROPWET**[_____]
- C5. Did this household have any cropping activity in **upland fields**during**theshort CROP Season 2016?**(1= yes; no=2)**SRTCROPUP**[_____]

C6. If C4=1 and/or C5 = 1, go to Table below; Otherwise move to the Irrigated crops Table.

| Cro | op Pa | arcel No. | Field | Field Locatio n 1=Wetl and 2=Upla nd | Size of the field (Acres) | Have | Tenure | status: 1=poor 2=fertil e 3=very fertile | Main land prep type 0=none 1=manua l 2=oxen 3=tractor | Hired land prep cost (Tsh) | Reason for growing the crop (Use codes below) | Planting/ Seed Type | Quar use pur | ntity of d & cos chased season | seed t, if this | 1 st Fer used | tilizer | | 2 nd Fert used | ilizer | 3rd Fe | | er | Harve -777= yet harves | not | Sal | es | For the larg | est Sal | e I | sı a h (I h | Quantity hat poiled ifter harvest Use larvest units) | Reasons for spoilage |
|-----|-------|--------------|-------|--------------------------------------------------------|---------------------------------|----------------|--------|---------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------|------------------------|--------------------|-----------------------------------------|-----------------------|-----------------------------|---------|------|------------------------------|--------|--------|-----|------|---------------------------------|-------|------------------------|-----------------------------------|----------------------------|-------------------------|------------|--------------------------------|------------------------------------------------------|----------------------------|
| | | | | | | 1= res 2=No | | | | | | | Qty | Unit | Cost per unit | Type | Qty | Unit | Type Otv | Unit | Type | Qty | Unit | Qty | Unit | Sold? 1=yes 2=No | Quantity sold (Use harvest units) | Month 1= Jan. 12=Dec | Price received per unit | Buyer type | Km to point of sale | | |
| | do | parc | field | Fldloc | Acres | bricks | tenure | ferts | landprep | Ipcost | resgrow | Sdtype | sqt | sunit | scost | ft1 | fq1 | fu1 | ft2 | fu2 | ff3 | fq3 | fu3 | hvt | Hunit | plos | Sqty | month | price | buyer | Km | postharv | spoilrea |
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CROP PRODUCTION:IRRIGATEDCROPS

| C7. Did this household have any irrigated cropping activity in wetland fields in the last cropping year (2016)? (1= yes; no=2) IRRCROPWET [] | |
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| C8: If yes, what is the main method of irrigation used? 1=Drip 2=Furrow 3=Sprinkler/overhead 4=Bucket 5= Other (specify) IRRMTDUP[] | |
| C9. Did this household have any irrigated cropping activity in upland fields in the last cropping year (2016)? (1= yes; no=2) IRRCROPUP [] | |
| C10: If yes, what is the main method of irrigation used? 1=Drip 2=Furrow 3=Sprinkler 4=Bucket 5=Other specify) IRRMTDUP[] | |
| C11: What is are the main ways through which you abstract (draw) irrigation water? 1=Water pump 2=Gravity 3=Bucket 4=other specifyWATERAB[| _] |
| | |

C12. If C7=1 and/or C8 1, go to **Table** below;

| Crop | Parcel No. | Field No. | Field Locatio n 1=Wetl and 2=Upla nd | | Have you or anyone else ever made bricks on this field? | Tenure | Fertility status: 1=poor 2=fertil e 3=very fertile | prep type | land prep | Reason for growing the crop (Use codes below) | Planting/ Seed Type | use | itity of a d & cos chased season | t, if | 1 st Fer used | tilizer | 2 u | nd Fert sed | ilizer | 3 rd Foused | ertilize | er | Harve -777= yet harves | not | Sa | ales | For the la | rgest Sa | lle | Quan that spoile after harve (Use harve units | for spoi | |
|------|---------------|--------------|--------------------------------------------------------|-------|---------------------------------------------------------------------------------|--------|----------------------------------------------------------------------|-----------|--------------|-----------------------------------------------------------|------------------------|-----|-------------------------------------------|---------------|-----------------------------|---------|--------|---------------------------|-------------|------------------------|----------|------|---------------------------------|-------|------------------------|-----------------------------------|----------------------------|----------------------------|-----------|-----------------------------------------------|----------|----------|
| | | | | | 1=Yes 2=No | | | | | | | Qty | Unit | Cost per unit | Type | Qty | Unit | Lype Oty | Unit | Type | Qty | Unit | Qty | Unit | Sold? 1=yes 2=No | Quantity sold (Use harvest units) | Month 1= Jan. 12=Dec | Price received per unit | Buyertype | Km to point of sale | | |
| Crop | parc | field | Fidloc | Acres | bricks | tenure | ferts | landprep | Ipcost | resgrow | Sdtype | sqt | sunit | scost | 14 | fq1 | fu1 | fr fr | rıyz fu2 | £3 | fq3 | £u3 | hvt | Hunit | plos | Sqty | month | price | buyer | Km | | spoilrea |
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RAIN-FED CROP PRODUCTION: MAIN SEASON 2017 (Feb-July2017)

C1. Did this household have any cropping activity in **wetland fields** during **the MAIN CROP Season 2017?**(1= yes; no=2)**MAINCROPWET** [_____]
C2. Did this household have any cropping activity in **upland fields** during **the MAIN CROP Season 2017?**(1= yes; no=2)**MAINCROPUP** [_____]

C3. If C1=1 and/or C2=1, go to Table below; Otherwise move to the short season crop.

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| Cr | | l Field No. | Field Locatio n 1=Wetl and 2=Upla nd | | | | status: 1=poor | Main land prep type 0=none 1=manua l 2=oxen 3=tractor | land prep cost | Reason for growing the crop (Use codes below) | Planting/ Seed Type | use pur | tity of a d & cos chased season | t, if this | 1 st Fer used | tilizer | | 2 nd Fei used | tilizer | 3rd F used | ertilize | er | Harves -777= yet harves | not | Salı | es | For the larg | est Sale | • | Quantity that spoiled after harvest (Use harvest units) | Reasons for spoilage |
|----|------|----------------|--------------------------------------------------------|-------|----------------|--------|-------------------|-------------------------------------------------------------------------|----------------------|-----------------------------------------------------------|------------------------|------------|------------------------------------------|---------------|-----------------------------|---------|------|-----------------------------|------------|---------------|----------|------|----------------------------------|-------|------------------------|-----------------------------------|---------------------------|-------------------------|------------|---------------------------------------------------------|----------------------------|
| | | | | | 1= res 2=No | | | | | | | Qty | Unit | Cost per unit | Type | Qty | Unit | Type | Unit | Type | Qty | Unit | Qty | Unit | Sold? 1=yes 2=No | Quantity sold (Use harvest units) | Month 1=Jan. 12=Dec | Price received per unit | Buyer type | Km to point of sale | |
| , | parc | field | Fldloc | Acres | bricks | tenure | ferts | landprep | Ipcost | resgrow | Sdtype | sqt | sunit | scost | ft1 | fq1 | fu1 | FF2 | fq2 fu2 | £1 | £þj | fu3 | hvt | Hunit | plos | Sqty | month | price | buyer | Km postharv | spoilrea |
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Planting/ Seed Type 1=Purch / New Hybrid, 2=Retained Hybrid, 3=0PV, 4=local var, 5=local seedling/cuttings/splits, 6=improved seedling / cuttings / splits, 7=hybrid& local var, 8=hybrid purc+retained

Reasons for spoilage 1=pests 2=floods 3=animal destruction 4=Rains 5=Moulds 6=No market 7=Other)specify

| | _ | | | | 1 | | | | |
|--------------------|---------------------|-------------------------|-------------------|-----------------|-------------------|------------------------|----------------|-------------------|-------------------|
| <u>Unit codes:</u> | 10=tonnes | Reasons for growing | <u>Fertilizer</u> | 9=ASN | 16=NPK (20:10:10) | 25=Mavuno-basal | Buyer type | 9=consumer | Tenure codes |
| 1=100 kg bag | 12=Debe | crop: | codes: | (26:0:0) | 17=DAP + CAN | 26=Kero green | codes: | 10=Exporter | 1=owned w/ deed |
| 11=50 kg bag | 13=grams | | 0=None | 10=UREA | 18=compost | 27=rock-phosphate | 1=small trader | 11=processor | 2=owned w/o |
| 2=Kgs | 14=wheelbarrow | 2=Plot not suitable for | 1=DAP | (46:0:0) | 19=magmax lime | 28=NPK 14:14:20 | 2=large trader | 12=supermarket | deed |
| 3=Litre | 115=cart | | 2=MAP | 11=SA | 20=DSP | 29=Mijingu 1100 | 3=coffee coop | 13=cereal bank | 3=rented in |
| 4=crates | 116=canter | other crops | 3=TSP | (21:0:0) | 21=NPK(23:23:0) | 30=UREA+CAN | 4=NFRA | 14=pyrethrum | 4=owned by |
| 5=numbers | 11/ — pickup | | 4=SSP | | 22=NPK(17:17:17) | 31=Mavuno-top dress | 5=miller | board | parent/ relative |
| 6=bunches(bananas | 18=2kg packet(seed) | 4=Traditional crop | 5=NPK | (specify) | 23=NPK(18:14:12) | 32=Blended fertilizers | 6=other coop | 15=Institutions | 5=government/co |
| 9=Gorogoro | 19=bale | 5=Higher price/ | (20:20:0) | 13=manure | 24=NPK(15:15:15) | | 7=NGO | 16=Other -specify | mmunal/co- |
| | 20=10kg bag | demand | 6=NPK | 14=foliar feeds | | | | 17=NGR | operative/road |
| | 21=25kg bag | 6 | (17:17:0) | 15=NPK | | | | | reserves |
| | | =Other(specify) | 7=NPK | (23:23:23) | | | | | 6=Leasehold |
| | | | (25:5:+5S) | | | | | | 7=0ther(specify)_ |
| | | | 8=CAN (26:0:0) | | | | | | |

CROP CODES

| Code | Crop | Code | Crop | Code | Crop | Code | Crop | Codee | Crop |
|------|-------------------------|------|----------------------|------|-----------------------------|------|-----------------------------|-------|----------------------------|
| 119 | Apple | 19 | cowpeas leaves | 47 | macadamia, tc | 65 | pepper, bell | 3 | Tamarind |
| 44 | Arrowroots | 125 | Cucumber | 1 | maize, dry | 141 | pigeon peas | 189 | Tangawizi |
| 201 | Artemesia | 182 | dhania grains | 2 | maize, green | 133 | Pineapples | 136 | Tangerine |
| 97 | Avocado | 192 | Dates | 4 | maize (fodder) | 121 | Plums | 12 | Tea |
| 50 | avocado (grafted) | 183 | Dhania | 73 | mangoes | 178 | pomegranate | 29 | tobacco |
| 18 | Babycorn | 164 | dry peas | 45 | mangoes, tc | 76 | pumpkin | 63 | tomatoes |
| 10 | Bananas | | | 120 | matomoko | 172 | pumpkin leaves | 162 | tree tomato |
| 202 | bananas, tc | 71 | Eggplant | 9 | Millet | 17 | pyrethrum | 53 | trees (multi purpose), tc |
| 60 | Barley | | | 148 | Miraa | 35 | Poyo | 161 | Turnips |
| 7 | Beans | 20 | Flowers | 197 | mkunga | 211 | Ravaya | 5 | trees, commercial |
| 221 | Beetroot | 25 | french beans | 196 | Mkuyu | 31 | Rice | | |
| 129 | brinjals /biriganya | | | 220 | mulberry | 86 | rosemary | 205 | vanilla |
| 169 | bulrush millet | 138 | garlic onion | 222 | medicinal plants | 171 | runner beans | 69 | Watermelon |
| 93 | Cabbage | 179 | Grapes | 80 | nappier /elephant grass | 36 | Saina | 13 | Wheat |
| 200 | Chamomile | 34 | green grams | 165 | nathi (goose berry) | 40 | simsim (drought resistant) | 41 | wheat (drought resistant) |
| 67 | capsicum /sweet peppers | 167 | green peas | 147 | njahi (dolichos) | 78 | simsim | 163 | white suppoise |
| 94 | Carrots | 33 | Groundnuts | 37 | njugumawe(bambara bean) | 16 | Sisal | 149 | wild berries |
| 24 | cashew nuts | 72 | Guava | 204 | mangoes (grafted) | 90 | snow peas | | |
| 28 | Cassava | | | 83 | Oats | 8 | sorghum | 95 | yellow passion fruit(mero) |
| 48 | cassava, tc | 139 | indigenous grains | 77 | Okra | 39 | sorghum (drought resistant) | 81 | Yams |
| 146 | castor oil | 140 | indig veg/amaranthus | 96 | Onions | 160 | soyabeans | | |
| 175 | Cauliflower | 27 | Irish potatoes | 61 | orange (grafted) | 66 | spinach | 174 | Zambarao |
| 26 | Chickpeas | | | 75 | oranges | 124 | squash | 223 | Jack fruit(Vanessa) |
| 131 | chillie peppers | 210 | Karela | 22 | other fodder leaves | 190 | stefali | 224 | Other specify |
| 42 | citrus, tc | 62 | Gourds | 184 | other leaves (bean,njahi) | 206 | stinging nettle | 225 | Other specify |
| 23 | Coconuts | 84 | lemon (grafted) | | | 177 | strawberries | 226 | Palm Oil |
| 194 | coconuts, copra | 207 | lemon grass | 59 | passion (grafted) | 187 | sugar beets | | |
| 193 | coconuts, green | 74 | Lemons | 137 | passion fruit | 15 | sugarcane | | |
| 6 | coffee, cherries | 173 | Lettuce | 46 | passion fruits, tc | 170 | sugarcane, chewing | | |
| 176 | coffee, churned | 32 | Lucerne | 85 | pasture (not eleph/napier) | 64 | sukuma wiki | | |
| 11 | coffee, mbuni | 118 | Lugard | 58 | pawpaw(grafted) | 30 | sunflower | | |
| 168 | corn flower | | | 70 | pawpaws | 68 | sweet melon | | |
| 14 | Cotton | | | 166 | Peaches | 43 | sweet potatoes | | |
| 21 | Cowpeas | 135 | macadamia nuts | 134 | Pears | 49 | sweet potatoes, tc | | |

C13. ENUME: For each of the parcels in the MAIN SEASON, make a follow up with the following questions.

| Parcel ID | Do you experience problems with any | What kind of soil and water | When did your household acquire | How did your household acquire | What is the distance in |
|-----------|-------------------------------------|------------------------------------|---------------------------------------|--------------------------------|-------------------------|
| | of the following conditions on this | conservation technologies have you | this land? | this land? | Km from [Parcel ID] to |
| | parcel? | implemented on the parcel | | | your homestead? |
| | Probcond | Swconserv | Year | Landacqr | disthome |
| | | | | | |
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| | | | | | |
| | 1=Gullies 2=Dry land 3=Low-lying | 1=Terraces2=Erosion control | Landacqr | | |
| | land 4=Sedimentation 5=Landslide | bunds3=Gabions / sandbags4=Vetiver | 1=Ceded by traditional authorities 2= | Ceded by the government | |
| | 6=Stony soils/clay 7=flooding | grass 5=Tree belts 6=Water harvest | 3=Ceded by relatives 4=Rented 5=Bo | rrowed 6=Occupied 7=Purchased | |
| | 8=Other (specify)9=No | bunds 7=Drainage ditches 8=Dam 9= | 8=Inherited 9=Others | | |
| | problem | none | | | |

| C14. Have you cleared any forest / bushland to create a new crop land in the past five years? 1=Yes 2=No clearland[] |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C15. If Yes, what size of forest/bushland did you clear in acres clearacres[] |
| C16. Do you plan to clearany forest / bushlandtoexpand your crop land in future? 1=Yes 2=No expaland [] |
| C17. If Yes, what size of land are you planning to expand expandacres[] |
| C18. Are you planning to leave any part of your land fallow within the next one year? 1=Yes 2=Nofallowyear[] |
| C19. If Yes, how many acres of your land are you planning to leave fallow?fallowacres[] |
| C20. Do you think you will still be able to use your current land for all of the next 5 years?1=Yes 2=Nolandusefut[] |
| C21. If No, why do you think are the reasons for not being able to use the current land for all of the next 5 years nouse1[] nouse2[] |
| 1 = No land certificate 2 = I only have temporary access 3 = The land is rented 4 = The rights over land can be revoked at any time 5 = The government may limit use 6 = Competition among villagers 7 = Competition with neighboring villages 8 = Competition with private investors 9 = Infrastructure development 9 = Other (Specify) |

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SECTION D: CROP INPUTS

D1. Indicate the following details for CROP INPUTS purchased/hired in CASH/CREDIT in 2016 cropping year for the LARGEST fields (ENUME: Probe for both the largest field in the wetland and the largest field upland.

| field upland. | | | | | | | | | | | | | |
|------------------------------------|--------------------------------|--------------------------|---------------|------------|----------|--------------|----------|-------------|------------|--------------------------|-----------|----------|------------|
| Input codes: | 32=pesticide | Unit | Field | Input type | Quantity | Unit | Quantity | Unit (used) | Mode of | Source of Fertilizer and | Price per | Kms from | Main Crop |
| 1=DAP | (Name | 1=100 kg bag | 1=Largest | (Select | bought/ | (bought) | used/ | | Purchase | other inputs | unit | point of | for which |
| 2=MAP | 33=insecticide | 11=50 kg bag | wetland field | input | hired/ | | hired/ | | 1=own cash | Source type codes: | specified | purchase | input was |
| 3=TSP | (Name | 2=kgs | 2=Largest | codes from | visits | | visits | | 2=borrowed | 1=small trader/ | | to farm | used [Crop |
| 4=SSP | 34=herbicide | 3=litre | upland field | column on | | | | | cash | 2=Stockist/agrovet | | | codes page |
| 5=NPK (20:20:0) | 35=plough | 4=crates | (ENUME: | the left) | | | | | 3=in kind | 3=large company | | | 5] |
| 6=NPK (17:17:0) | 36=sprayer | 5=numbers | Probe | | | | | | credit | 4=CBO | | | |
| 7=NPK (25:5:+5S) | 37= AT equip | 6=bunches | specifically | | | | | | 4=own and | 5=farmer /neighbor | | | |
| 8=CAN (26:0:0) | 39=technical | (bananas) | for both) | | | | | | borrowed | 6=KTDA | | | |
| 9=ASN (26:0:0) | support | 7=25kg bag | | | | | | | cash | 9=Other coop | | | |
| 10=UREA (46:0:0) | 40=fungicide | 8=10kg bag | | | | | | | 5=voucher | 11=Farmer group | | | |
| 11=SA (21:0:0) | 41=water | 9=gorogoro | | | | | | | | 12=Relative or friend | | | |
| 13=Manure | 46=planter cost | 10=tonnes | | | | | | | | 13=Government/NGR | | | |
| 14=Foliar feeds | 47=harvester cost | 12=debe | | | | | | | | 14=other, specify | | | |
| 15=NPK | 48=transport | 13=grams | | | | | | | | | | | |
| (23:23:23) | 49=sheller cost | 14=wheelbar | | | | | | | | | | | |
| 16=NPK | 50=fuel | row | | | | | | | | | | | |
| (20:10:10) | 51=gunny bags | 15=cart | | | | | | | | | | | |
| 17=DAP + CAN | 52=ridger cost 53=land rent | 16=canter | FLDINPU | INPTYP | INQBGT | UNITBT | INQUSED | UNIT | INPRH | INSOURCE | INPUNIT | INDIST | INCROP |
| 19=Magmax Lime | 54=land | 17=pickup | | | | | | | | | | | |
| 20=DSP 21=NPK (23:23:0) | preparation | 18=2kg | | | | | | | | | | | |
| 21=NPK (23:23:0) 22=NPK | cost(on credit | packet (seed) 19=bale | | | | | | | | | | | 1 |
| (17:17:17) | only) | 20=acres | | | | | | | | | | | |
| 23=NPK | 55=farm | 20-46163 | | | | | | | | | | | |
| (18:14:12) | implements | | | | | | | | | | | | |
| 24=NPK | 56=farm | | | | | | | | | | | | |
| (15:15:15) | machinery | | | | | | | | | | | | |
| 58=NPK(25:5:0) | 57=irrigation | | | | | | | | | | | | |
| 25=Mavuno-basal | equipment | | | | | | | | | | | | |
| 26=Kero green | 12=other, | | | | | | | | | | | | |
| 27=Rock- | specify 58=Kelphos | | | | | | | | | | | | + |
| phosphate 28=NPK 14:14:20 | 36-Keipilos | | | | | | | | | | | | |
| 28=NPK 14:14:20 29=Mijingu 1100 | | | | | | | | | | | | | |
| 30=UREA+CAN | | | | | | | | | | | | | + |
| 31=Mavuno-top | | | | | | | | | | | | | |
| dress | | | | | | | | | | | | | |
| 43=NPK (22:6:12) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 1 | | - | | | | | + | | | + | + | <u> </u> |
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| | 1 | | 1 | | | | | | | | | 1 | |
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| | 1 | | 1 | | | | | | | | | 1 | |
| | | 1 | | | | | l | | | L | | | |

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| D2. What is the total land owned by your household in the wetland area in ACRES ? | wetlandown[] |
|------------------------------------------------------------------------------------------------------------------------------------|--------------|
| D3.What is the total land owned by your household in the upland area in ACRES ? | uplandown[] |
| D4. What is the rental price (Tsh) for an acre of land in the wetland annually? Rentalwet [] | |
| D5.What is the purchase price (Tsh) for an acre of land in the wetland in this village? wlandprice [] | |
| D6. What is the rental price (Tsh) for the sameacre in the upland annually rentalup [] | |
| D7. What is the purchase price(Tsh) for one acre of land in a non-wetland area in this village? uplandprice [|] |
| DR For the largest fields in the wetland and unland, indicate the following historical details for the last 5 years | - |

| D8.For the largest fields | in the | wetland and up | oland, indicate the followin | g historical details for the | last 5 years |
|---------------------------|--------|----------------|------------------------------|------------------------------|--------------|

| | Year | crop that on the fi years (Use | s the MAIN was grown eld in these e crop codes age 7) | What we reasons for t of this c | he choice | Did you p short ar season on | nd main | Did you ap organic fer on this fiel 1=yes | tilizers d? | Did you apply fertilizers on 1=yes | this field? | Did you rent land within t in the year? 2=no | the wetland | If yes, what v size of land r (acres)? | |
|---|------|--------------------------------------|--------------------------------------------------------------|---------------------------------------|-----------------|------------------------------------|-----------------|----------------------------------------------------|-----------------|------------------------------------------|-----------------|-------------------------------------------------------|-----------------|----------------------------------------------|-----------------|
| | | Wetland field | Upland Field | Wetland field | Upland Field | Wetland field | Upland Field | Wetland field | Upland Field | Wetland field | Upland Field | Wetland field | Upland Field | Wetland field | Upland Field |
| | | wetcrop | upcrop | Wetchoice | upchoic | Wetseas | upseas | orgwet | Upwet | inorgwet | Inorgup | rentwet | rentup | sizewet | Sizeup |
| 1 | 2017 | | | | | | | | | | | | | | |
| 2 | 2016 | | | | | | | | | | | | | | |
| 3 | 2015 | | | | | | | | | | | | | | |
| 4 | 2014 | | | | | | | | | | | • | | | |
| 5 | 2013 | | | | | | | | | | | | | | |
| 6 | 2012 | | | | | | | | | | | | | | |

Reasons for growing crop:

1=High productivity 2=Plot not suitable for other crops 3=Safe/not risky 4=Traditional crop 5=Higher price/ demand 6 =Other(specify)_____

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D9. ACCESS IMPROVED RICE SEEDLINGS

| D9a. Did you buy improved rice seeds/seedlings in the last 12 months? Yes1 → D9e; No2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D9b. Did you try to buy improved rice seeds/seedlings in the last 12 months? Yes1; No2>>D9d |
| D9c. [As you wanted but could not buy improved seeds/seedlings,] What was the main reason for not being able to buy improved rice seeds/seedlings? I was unable to find them1; The quality of improved seedlings is not good2; Gave up because the hassle/transactions costs were too much3; Improved seedlings are too expensive4; I lacked the money at the time of need5; It is difficult to sell rice from improved seed; Other, specify:6 |
| D9d [As you did not try to buy improved seeds/seedlings,] what was the main reason for not trying to buy improved rice seeds/seedlings? 1=The quality of improved seedlings is not good; 2=There is too much hassle/transactions costs to obtain improved seedlings; 3=Improved seeds are too expensive; 4= I lacked the money at the time of need; 5=I am happy with the traditional seedlings; 6= I did not plan to plant new trees this year; 7= Other, specify: >>next section |
| D9e if you use improved rice variety what are the main reason? res1[]res2[]res3[] |
| 1=High yield 2=Early maturity 3=Good taste 4=Resistance to draught 5=Resistance to diseases and pests 6=Easy to harvest |
| D9f What type of improved seeds/seedlings did you buy?1=flood-resistant varieties (CPI varieties);2= hybrid; 4= Do not know |
| D9g [As you used improved seeds/seedlings,] Were you able to buy as much improved rice seeds/seedlings as you desired? Yes1 → D9h; No2 |
| D9h What was the main reason for not buying as much rice seeds/seedlings as you desired? 1=I was unable to find more; 2=There is too much hassle/transactions costs to get improved seedlings; 3=I lacked the money at the time of purchase; 4=Other, specify: |
| D9i Whom did you buy improved seeds/seedlings from? 1= Bureau of agriculture (village); 2=Cooperative; 3=trader; 4=Development Agent; 5=Research center;6= NGO; 7=Commercial farm; 8=Other, specify: |
| D9j. In what form did you buy the improved varieties? 1= As seeds; 2=As seedlings; 3=Both |

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| D10 Fertilizer Access | |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| D10a In main or short season of 2016), did your household buy or get for free any chemical f | ertilizer? |
| 1 Yes 2 No [if no, >> <u>D10h</u>] [] | |
| <u>D10b</u> [If <u>D10a</u> =yes] What is the main reason your household used chemical fertilizer on you | ır crops? |
| 1. To increase crop yields | |
| 2. Because DA recommended using fertilizer | |
| 3. Because DA pressured household to buy fertilizer | |
| 4. In order to have access to cooperative services | |
| 5. In order to have access to other services | |
| 6. Other (specify) [] | |
| D10c Who did you purchase the fertilizer from? | |
| Main source [] second [] third[] | |
| 1. Cooperative | |
| 2. Friend or neighbour | |
| 3. Trader or input suppler | |
| 4. NGO or project | |
| 5. Other (specify) [] | |
| <u>D10d</u> Was the fertilizer available at the time you need it in both seasons? fertavai [] | |
| 1 Yes 2 No | |
| D10e Were you able to buy as much fertilizer you needed and could pay for? Fertavai2 [| 1 |
| 1 Yes 2 No | <u></u>] |
| <u>D10f</u> How long did it take (in minutes) to get to the main place where you obtained | |
| ferttime[] minutes | |
| D10g How many times did you have to go to the place of sale to get the quantity you wanted | |
| Ferttime2[] times | |
| D10h [if no] What are your reasons for not using fertilizer in both seasons in 2016 | |
| 1. Fertilizer too expensive 1 Yes 2 No [] | 2. Fertilizer supplier too far away 1 Yes 2 No [] |
| 3. Not a member of a cooperative 1 Yes 2 No [] | 4. Crops do not need fertilizer 1 Yes 2 No [] |
| 5. Soil is fertile so no need for fertilizer 1 Yes 2 No [] | 6. Used organic fertilizer instead 1 Yes 2 No [] |
| 7. Don't trust quality of fertilizer 1 Yes 2 No [] | 8. Fertilizer not available on time 1 Yes 2 No [] |
| 9. Minimum amount was too much 1 Yes 2 No [] | 10. Other specify [|

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D 11 Multi-Cropping

| D11a Did you grow crops in both short and main seasons during 2016? 1 Yes 2 No [] D11b If yes why did you plant both seasons? 1. Need more income 2. Need more food 3. I don't have anything to do 4. My plot is suitable to produce in both seasons 1. Short- season [] crop 2. Main- season [] crop 5. Other specify, | D11c If No , why didn't you plant both seasons? 1. Plot not suitable for short season farming 2. I don't have enough labour 3. I have enough food or income 4. Not enough rain/ water 5. Other specify, |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

D 12 Irrigation Use

| D12a Do you irrigate your plot either during the short or main seaso | D12a D | Oo vou irrigate | your plot either | during the short | or main season |
|-----------------------------------------------------------------------------|---------------|-----------------|------------------|------------------|----------------|
|-----------------------------------------------------------------------------|---------------|-----------------|------------------|------------------|----------------|

| 1. | Main season 1 Yes | 2 No | [] |
|----|--------------------|------|----|
| 2. | Short season 1 Yes | 2 No | [] |

| D12b If no, why don't you irrigate your plot ? notirrgate[] |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1=No water/river available around my plot 2= I don't have the tools for irrigation 3= I don't have enough labour to irrigate 4= My plot doesn't need irrigation as |
| there is enough water 5= Other specify, |

D13. Intensification and Social network

| | Do you know any one in these village | How many farmers do you know? | Do you plan to use [] in the future |
|----------------------|--------------------------------------|-------------------------------|-------------------------------------|
| | who uses[]? 1 Yes 2 No | (Numbers) | 1 Yes 2 No |
| Inorganic Fertilizer | | | |
| Irrigation | | | |

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| Improved seed | | |
|----------------------------------|--|--|
| Crops both main and short season | | |

SECTION E: LIVESTOCK PRODUCTION

E1: Did the household own any livestock in 2016(1= yes; no=2)liveown [_____]

E2: If Yes in E1 above, answer the following questions

| Type of livestock owned | Average no. owned | System of rearing | If extensive system, where do you normally graze |
|-------------------------|-------------------|-------------------|--------------------------------------------------|
| Livetype | Avno | Prodsyst | Grazefld |
| 1=Cattle | | | |
| 2=Goats | | | |
| 3=Sheep | | | |
| 4=Camels | | | |
| 5=Chicken | | | |
| 6=Other (specify) | | | |

Codes: **Prodsyst:** 1=Free Grazing-Pastoralist 2=Free grazing-Non Pastoralist 3=Paddocking 4=Strictly zero grazing/intensive system 5=Semi-zero grazing 6=Other, specify ___

Grazefid: 1=Own land-upland 2=Own land-wetland 3=School compound 4=Communal grazing land-upland 5=Public wetland 6=Public upland 7=Other, specify ______

LIVESTOCK PRODUCTS

| E10: On average, how much milk, does this household consumeper day , whether from own production, purchases or receipts ? | MLKCON |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------|
| E11: Did this household produce any cow milk during Dec 2015 to Nov. 2016? (1=yes; 2=no, go to Q12c1) | MLKPRD |

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| | | Avg No of animals producing milk | | (in litres) Between December 2015 and November 2016 1=Co socie 2=Go proce 3=Pr / trade 4=Hi trade 5=In 6=Co / Nei | | | | | | Buyer type of largest sale 1=Cooperative societies 2=Government processor 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? Tsh/litre | point of sale for | | | | | |
|---------------------|------|----------------------------------|-------|---------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------|-------|-------|-------|-------|----|
| Product | Milk | cow | Jan16 | Feb16 | Mar16 | Apr16 | May16 | Jun16 | Jul16 | Aug16 | Sep16 | Oct16 | Nov16 | Dec16 | Buyer | Price | km |
| Cow milk produced | 1 | | | | | | | | | | | | | | | | |
| Fresh cow milk sold | 2 | | | | | | | | | | | | | | | | |
| Sour cow milk sold | 3 | | | | | | | | | | | | | | | | |

E12: Other livestock products produced during the period December 2015 to November 2016

| | Average | Number of | Average | Unit of | Number of | Average | Price | Buyer type of largest |
|--------------------|-----------|------------------|-------------|----------------|-----------------------|-----------------|--------------------|-------------------------------------------------------|
| Livestock Product | number of | months of | Quantity | Production. | months of | quantity | received | sale |
| Hivestock i roduct | animals | production | production/ | 2=Kgs | sales per year | sold per | per Unit | 1=Cooperative societies |
| | producing | per year | month | 3=Litres | | month | (Kshs) on | 2=Govt. processor. 3=Private processors /traders |
| | over the | | | 22=Trays | | | the largest | 4=Hawker /informal trader |
| | year | | | 5=Numbers | | | sale | 5=Institutions/Hotels 6=Consumer /Neighbor /Farmer |
| | | | | 1=100kg bag | | | | 7=Honey refinery |
| | | | | 14=Wheelbarrow | | | | 8=Other, specify |
| | | | | 15=Cart | | | | |

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| | | | | | 16=Canter 17=pickup | | | | |
|--------------------|-------|----------|----------|---------|------------------------|----------|---------|-------|-------|
| Liv | eprod | animprod | Mnthprod | Avgprod | unit | mnthsold | qtysold | Price | Buyer |
| Goat milk | 1 | | - | | | | | | |
| Camel milk | 2 | | | | | | | | |
| Honey | 3 | | | | | | | | |
| Eggs (if not | 4 | | | | | | | | |
| Hides and skin | 5 | | | | | | | | |
| Fish (if have fish | 6 | | | | | | | | |
| Wool | 7 | | | | | | | | |
| Manure (only if | 10 | | | | | | | | |
| Other, | 9 | | | | | | | | |

| HHID[] | |
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SECTION F: LABOUR INPUTS

| F1: Did you have a salaried employee (s) during the last one year? Dec 2015 -Nov2016 (1=yes; 2=No; (If NO, skip to | F4) salary [] |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| F2: If Yes, how many salaried employees did you have in your farm? Semploy [] | |
| F2: If yes, what was your total monthly expenditure on salaried employees in Tsh salexp [|] |
| F3: How many months cumulatively between Dec 2015 and November 2016 did the salaried employees work on the | Wetland largest field? salmon [|
| F4: What is the daily wage rate for farm work in this area in Tsh? | Wage[] |

F5: For all the family, hired and unpaid labour that was used in your **WETLAND LARGEST** field in the **main season**, indicate the following details

| Activity name | | | | ed Labou | | | | Family Labo | | | | Family Labour | | | Other Labour (ONLY if | | |
|---------------------------|-------|------------|-------------|-------------------|----------------|-------|-------------|---------------------------|---------------|-------------------|--------------------|---------------------|-------|------------------|-----------------------|----------------|-----------------------|
| | | | | | | | | | | | | (childre | | | unpaid | | |
| | Code | N <u>o</u> | | | | | Total No of | | N <u>o</u> of | Total N <u>o</u> | Average | No of | Total | Total | N <u>o</u> of | N <u>o</u> of | N <u>o</u> of |
| | | hired | gays per | person per day | by contract | males | , | number of hours worked | females | of days worked | number of hours | children <15 yrs | | Hours for all | workers | days worked | hours per day each |
| | | | person | per day | contract | | ALL | per person per | | by ALL | worked per | | each | days | | each | (on |
| | | | person | | | | 11111 | day | | Sy TILL | person per | | cacii | worked | | cucii | average) |
| | | | | | | | | | | | day | | | | | | |
| | ACTIV | LB01 | LB02 | LB03 | LB04 | LB05 | LB06 | LB07 | LB08 | LB09 | LB10 | LB11 | LB12 | LB13 | LB14 | LB15 | LB16 |
| 1st Ploughing | 1 | | | | | | | | | | | | | | | | |
| 2 nd Ploughing | 2 | | | | | | | | | | | | | | | | |
| Digging planting holes | 3 | | | | | | | | | | | | | | | | |
| Harrowing | 4 | | | | | | | | | | | | | | | | |
| Planting | 5 | | | | | | | | | | | | | | | | |
| Basal fertilizer | 6 | | | | | | | | | | | | | | | | |
| Manure application | 7 | | | | | | | | | | | | | | | | |
| 1st Weeding | 8 | | | | | | | | | | | | | | | | |
| Top-dressing | 9 | | | | | | | | | | | | | | | | |
| 2 nd Weeding | 10 | | | | | | | | | | | | | | | | |
| Field Dusting | 11 | | | | | | | | | | | | | | | | |
| Harvesting | 12 | | | | | | | | | | | | | | | | |
| Transport | 13 | | | | | | | | | | | | | | | | |
| Drying | 14 | | | | | | | | | | | | | | | | |
| Digging drainage canals | 15 | | | | | | | | | | | | | | | | |
| Other (specify) | 16 | | | | | | | | | | | | | | | | |

F6: Relative to the labour input in the **wetland largest field**, how much labour was applied on the **upland largest field? uplabour**[____] 1= about the same 2=approx. 50% less 3= approx.50 % more 4=approx. 25% more 5=approx. 25% less 6=Other,specify_____

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F7: Relative to the labour input in the **wetland largest field in the main season**, how much labour was applied during short season**? shortlabour**[____]

In growing maize and rice how many labour man days were used?

| Season | Crop | Parcel No | Tilling | | | Manure and organic input use | | Sowing and fertilizer use | | | Pesticide a herbicide a | | Harvesting | | Transporting | |
|--------------|-------|--------------|---------|--------|--------|------------------------------|--------|---------------------------|--------|--------|----------------------------|--------|------------|--------|--------------|--------|
| | | | Family | Hired | Family | Hired | Family | Hired | Family | Hired | Family | Hired | Family | Hired | Family | Hired |
| | | | labour | labour | labour | labour | labour | labour | labour | labour | labour | labour | labour | labour | labour | labour |
| | | | | | | | | | | | | | | | | |
| | Rice | | | | | | | | | | | | | | | |
| Main Season | | | | | | | | | | | | | | | | |
| Iain S | Maize | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | Rice | | | | | | | | | | | | | | | |
| eason | | | | | | | | | | | | | | | | |
| Short season | | | | | | | | | | | | | | | | |
| | Maize | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

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SECTION G: WETLAND CONSERVATION ACTIVITIES AND CHALLENGES

specify_____

| G1: Are there any conserv | vation or protection initiati [,] | ves on the Wetland that ha | ve been going on in the past one year | ? (1=yes 2=No -Move | | |
|-----------------------------------|-----------------------------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------|--|--|
| to G3) | | | | | | |
| wetconserve [] | | | | | | |
| G2: If Yes, indicate the detail | ls on such conservation initia | tives | | | | |
| Type of Conservation | In which Year was this | Who initiated the | Have you or any member of your | If no, give reasons why | | |
| Initiative | activity initiated? | conservation activities? | household been involved in this | you have not been | | |
| See codes below | | (See codes below) | conservation activity? | participating? | | |
| | (-77=Can't remember) | | 1=yes; 2=No | See codes below | | |
| Consact | Consyear | Consinit | Conspart | resnopart | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Codes: | | | | | | |
| ,, ,, | | S | =Removal of buildings from the wetland 5= | other(specify) | | |
| | nization 2=NGO 3=Community of theorganizers 2=Not interested | | | | | |
| - | when using the wetland? 1=ye | _ | wetchall[] | | | |
| ds. Do you lace chancinges | when using the wettand. 1—ye | .5 2—110 | wetenan[| | | |
| G4: If Yes in G3 above, what | are the three major challenge | es? Wetchall1 [|] Wetchall2 []Wetchall3 [|] | | |
| | • | _ | | | | |
| 1=Restricted access 2=Dan | iger of wild animals 3=Risk of | f contracting diseases 4=Floo | ods 5=Conflicts with other users 6=Drou | ight 7=0ther, | | |
| specify | | | | | | |
| CC 1471 | | | | or 1 | | |
| Go: what are the four most | serious chailenges you face in | i wedana crop production cro | pchall1[] cropchall2[] cropchall3 | [] cropcnall4[] | | |

1=Pests 2=Diseases 3=Low soil fertility 4=Soil acidity/alkalinity 5=Wild animals 6=water logging 7=Weeds 8=Floods 9=Other, specify______

G6: What are the **four most serious challenges** you face in **upland crop** production**cropchall1** [___] **cropchall2** [___] **cropchall3**[___] **cropchall4**[___]

1=Pests 2=Diseases 3=Low soil fertility 4=Soil acidity/alkalinity 5=Wild animals 6=water logging 7=Weeds 8=Drought 9=Other,

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SECTION J: 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?

(EnumeratorInstructions: For value per unit, ask for the current purchase price of the asset AS IT IS or the current market value of the asset AS IT IS.)

| | | Quantity | Current value per Unit (TSh) | If Value/Unit not known ask for Total Value | | 15 of the current market | Quantity | Current value per Unit (TSh) | If Value/Unit not known ask for Total Value |
|------|----------------------|----------|---------------------------------|---------------------------------------------------|------|--------------------------|----------|---------------------------------|---------------------------------------------------|
| CODE | ASSET | QTY | VALUE | TOTVAL | CODE | ASSET | QTY | VALUE | TOTVAL |
| 1 | Houses (residential) | | | | 31 | Trailer | | | |
| 2 | Stores/barns | | | | 32 | Ploughs for tractor | | | |
| 3 | Poultry houses | | | | 33 | Harrow/tiller | | | |
| 4 | Piggery houses | | | | 34 | Ridger/weeder | | | |
| 5 | Zero-grazing units | | | | 35 | Planter | | | |
| 6 | Wheel barrow | | | | 36 | Boom sprayer | | | |
| 7 | Chaff cutter | | | | 37 | Sheller | | | |
| 8 | Radio | | | | 38 | Combine harvester | | | |
| 9 | TV | | | | 39 | Generator | | | |
| 10 | Solar panels | | | | 40 | Power saw | | | |
| 11 | Battery | | | | 41 | Grinder | | | |
| 13 | Mobile Phone | | | | 42 | Jaggery unit | | | |
| 14 | Weighing machine | | | | 43 | Cane crusher | | | |
| 15 | Pestle and mortar | | | | 44 | Donkey | | | |
| 16 | Water tanks | | | | 45 | Oxen | | | |
| 17 | Beehive | | | | 46 | Animal traction plough | | | |
| 18 | Water pump | | | | 47 | Cart | | | |
| 19 | Borehole | | | | 48 | Posho mill | | | |
| 20 | Dam | | | | 49 | Sewing/knitting machine | | | |
| 21 | Well | | | | 50 | Fridge | | | |
| 22 | Irrigation equipment | | | | 51 | Stove | | | |
| 23 | Cattle dip | | | | 52 | Panga | | | |
| 24 | Spray pump | | | | 53 | Jembe | | | |
| 25 | Water trough | | | | 54 | Other, specify | | | |
| 26 | Bicycle | | | | 55 | Other, specify | | | |
| 27 | Motorcycle | | | | 56 | Other, specify | | | |
| 28 | Car | | | | 57 | Other, specify | | | |
| 29 | Truck | | | | 58 | Other, specify | | | |
| 30 | Tractor | | | | 59 | Other, specify | | | |

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SECTION K: HOUSEHOLD DEMOGRAPHIC INFORMATION

K1: Indicate the following details for all the household members who were home for at least one month within the last one year (Dec2015-Nov 2016).

| | | | Gender | Relatio | Marita | Is | What is | How many | Is this | If this per- | Did this person | If YES, mon- | Number of | | | Number |
|-----|------|-------|--------|---------------|--------|----------|-----------|------------------|------------|-------------------|-------------------|--------------|------------|---------------|-------|-----------|
| | | which | | nship | 1 | Curren- | the | months in | person | son is not | receive cash from | thly income | months in | person | month | of |
| | | year | 1=male | to | Status | tly | highest | the period | still | a member | informal employ- | estimate | the past | receive cash | ly | months |
| | | was | 2=fema | curren | | attendin | level of | Dec2014 | considere | of this | ment/ business / | (TSh) for | year in | or payment in | incom | in the |
| | | this | le | t head | | | education | to | d a | house- | kibarua / | the months | which this | kind from | e | past year |
| ID | Name | perso | | | See | school? | completed | Nov2015 | member | hold any- | dividends | in which | informal | salaried | | in which |
| ID | Name | n | | | codes | | | has this | of this | more, | Between Dec2015 | informal | income | employment/ | | this |
| | | born? | | codes | below | 1 = Yes | | person | household | why? | &Nov2016? | income was | was | remittances | (TSh) | salaried |
| | | | | below | | 2 = No | See codes | been living | | | | earned | earned | or pensions? | | income |
| | | | | | | | below | at home? | | See codes | 1=Yes 2=No | | | | | was |
| | | | | | | | | | 1 = Yes | below | | | | 1=Yes 2=No | | earned |
| | | | | | | | | | 2 = No | | | | | | | |
| MEM | NAME | DA01 | DA02 | DA03 | DA04 | DA05 | DA06 | DA07 | DA08 | DA09 | DA10 | DA11 | DA12 | DA13 | DA13 | DA14 |
| 1. | | | | | | | | | | | | | | | | |
| 2. | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | |
| 11. | | | | | | | | | | | | | | | | |

| Relation to head(DA03) | | Marital Status(DA04) | Education levels(DAO6) | | | Reason for absence (DA09) | |
|------------------------|---------------------|------------------------|------------------------|---------------|-------------|-------------------------------|-------------------------|
| | | | | | | | |
| 1= head | 9= grandchild | 1 = single | -99=don't know | 9= form1 | | 1=left to find a job | 9=Left to attend school |
| 2= spouse | 10=other relative | 2 = married-monogamous | -9=None | | 20=univ 2 | 3=married away | 10= Other, specify |
| • | | | | | | · | |
| 3= own child | 11=unrelated | 3 = married-polygamous | 0=pre school | 14=form 6 | 21=univ 3 | 4=deceased | |
| 4= step child | 12=brother /sister- | 4 = divorced | 1=std 1 | 15= college 1 | 22=univ 4 | 5=divorced /separated | |
| | IIin-law | | | | | | |
| 5= parent | 13=parent-in-law | 5 = widowed | | | 23=univ 5 | 6=living with other relatives | |
| 6= brother /sister | 14=worker | 6 = separated | 8=std 8 | 18= college 4 | 24=postgrad | 7=another household | |
| 7= nephew /niece | 15=Other specify | 7 = other, specify | | 19= univ 1 | | 8=went missing | |
| 8= son/daughter-in-law | | | | | | | |

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INCOME FROM OTHER SOURCES

K2: Did any member of the household earn some **income from formal and informal activities** Dec2015 and Nov 2016?(1=yes, 2=no)**Otherinc**[____]

K3: If yes, indicate the total amount earned within the period in the table below.

| Other income activity | Code | In the past 12 | Ask for each activity for which I2=yes | | | | | |
|--------------------------------------------|----------|-------------------------|----------------------------------------|-------------------------------------------|-----------------------------------|--|--|--|
| • | | months, have | Which member of the | How many MONTHS out | For each of these months that you | | | |
| | | members of | family is responsible | of the past 12 months | were involved in [activity], how | | | |
| | | your household received | for managing this | did members of this | much income did you take home to | | | |
| | | income from | activity? | household receive income from [activity]? | your family in EACH MONTH? | | | |
| | | [activity]? | | meome nom [activity]: | | | | |
| | | . 71 | Use one or two | | | | | |
| | | | member ID | | | | | |
| | | 4 17 0 17 | | [range 1 – 12] | m 1 () | | | |
| | Activity | 1. Yes 2. No K3a | K3b | Months/year K3c | Tsh/month K3d | | | |
| Firewood gathering | 101 | KJa | KSU | KJC | KSu | | | |
| Charcoal trading | 102 | | | | | | | |
| Agricultural trading | 103 | | | | | | | |
| Other trading | 104 | | | | | | | |
| Rice milling | 105 | | | | | | | |
| Food processing business | 106 | | | | | | | |
| Brick making and sell | 107 | | | | | | | |
| shop business | 108 | | | | | | | |
| Other business | 109 | | | | | | | |
| Agricultural wages | 110 | | | | | | | |
| Non-agricultural wages | 111 | | | | | | | |
| Rent (exclude agricultural land) | 124 | | | | | | | |
| Pension | 112 | | | | | | | |
| Remittances from family in same region | 114 | | | | | | | |
| Remittances from family in other regions | 115 | | | | | | | |
| Remittances from family in other countries | 116 | | | | | | | |
| Productive Safety Net Programme | 121 | | | | | | | |
| Other 24ssistance programs | 122 | | | | | | | |
| Salried employment | 123 | | | | | | | |
| Other | 124 | | | | | | | |

SECTION L: GROUP MEMBERSHIP, INFORMATION AND NETWORKING AND CREDIT ACCESS

K4. Is there a member of the household who is a member of any organized group in the community? 1=yes; 2=no -*If NO, go toK5* **GROUPMEM**[____]

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| Household member ID from demog Table | to | activities (up 2) les below) | think a main b from join group TWO | do you are the enefits ning this ? LIST MOST RTANT | Number of active members in the group | What is your position within this group? | Are members mostly of the same ethnic origin? 1=yes 2=no | Frequency of meetings (See codes below) | How does this group usually make decisions? | Are members of this group drawn from the same occupation? 1=yes 2=no |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| MEMID | GRUPACT1 | GRUPACT2 | GRUPB EN1 | GRUPB EN2 | GROUPSZ | POSITION | ORIGIN | MEETNG | GRUPDESION | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Activities: 1=Collective labor (soil and water conservation); 2= Collective labor (other farm activities); 3=Collective crop marketing; 4=Savings and credit services; 5=Bee keeping; 6= Collective training on farming activities; 7=Collective learning on soil and water conservation; 8=Merry-go-round; 9=Other(specify) | | | | GRUPBENEFIT: 1=Benefits the ca 2=Economic ben 3=Social status a 4Entertainment 5=Health benefit 6=Increase know 7=No benefit 8=other | efits and relations | Position in Group 1=Leader 2=Secretary 3=Member | Frequency: 1=Weekly; 2=Formal 3=Monthly; 4=Quannually; 6=Annually; 6=Annually; 6=Annually; 6=Content (specify) | Quarterly; 5=Semi- qually; 7=When Other | GRUPDESION 1. Leader decides and informs the other group members 2. Leader asks group members what they think and then decides 3. All group members discuss and decide together 4. Other specify | |

K5. Credit
K5. During the past 12 months, did anyone in this household apply for credit or ask for a loan of at least 10000 Tsh? [For each cash loan requested or applied for, fill in one line below, whether or not they received the loan]

| 1. Yes 2 . No | accredit [|] |
|---------------|------------|---|

| | | | If K8 = "yes", complete K6 through K10 | | | | | | | |
|---------|-----------------------|-----------|----------------------------------------|-----------|---------------------|-----------------|---------------------|-----------------|---------------|--|
| Request | Who did you ask for a | Did the | What was the | How long | What was the intere | st rate on this | What was the main | Which | Were you able | |
| nbr. | loan or credit? | household | amount | was the | loan? | | way | member was | to | |
| | | receive a | borrowed? | loan for? | | | the money was | responsible for | repay the | |
| | | loan? | | | | | used? | the loan? | loan? | |
| | 1 Relatives | 1 Yes | Tsh | Months | Percent | 1. Per week | 1 Seed 2 Fertilizer | | | |

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| | 2 Friends 3 Money lender 4 Cooperative 5 Bank 6 SACCO 7 VICOBA | 2 No | | | -88 = Don't know -99 = NA | 2 Per month 3 Per crop season 4 Per year | 3 Labor 4 Other inputs 5 Livestock 6 Non-ag bus. 7 Health costs 8 Education 9 Food purchase 10 Loan repayment 11 Other | Use one or two Household member ID from demog Table | 1 Yes, all 2 Only part 3 Not at all 4 Not yet due |
|----|-------------------------------------------------------------------------------|------|----|-----|------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|
| К6 | K7 | K8 | К9 | K10 | K11a | K11b | K12 | K13 | K14 |
| 1 | | | | | % | | | | |
| 2 | | | | | % | | | | |
| 3 | | | | | % | | | | |

Enumerator: For each crop input or equipment received on credit, fill in one line

| | Did your household obtain [input type] on credit in the past 12 months? | | If K16 = "yes", complete K17 through K23 | | | | | | | | |
|-----|-------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|---------------|----------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|--|--|
| | | | Who offered you these goods on credit? | What was the value of these inputs? | What crop was the input used on? | is the credit | Did you agree to sell a portion of your harvest to the lender? | Was the repayment in cash or in kind? | Were you able to repay the credit? | | |
| | | 1 Yes 2 No | 1 Input supplier 2 Trader 3 Processor 4 Cooperative 5 Farmer 6 Min of Agric. 7 NGO 8 Input voucher scheme 9 Other | Tsch | Use product codes | Months | 1 Yes 2 No | 1 In cash 2 In kind 3 Both in cash and in kind | 1 Yes, all 2 Only part 3 None of it 4 Not yet due | | |
| K15 | | K16 | K17 | K18 | K19a K19b K19c | K20 | K21 | K22 | K23 | | |
| 1 | Seed | | | | | | | | | | |
| 2 | Fertilizer | | | | | | | | | | |
| 3 | Other chemical inputs | • | | | | | _ | | | | |
| 4 | Agricultural tools, equipment | | | | | | | | | | |

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| L1. Which sources of information are important for you, regarding the following issues: list up to three for each issue. | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------|------|------|------|--|--|--|--|
| | SRC1 | SRC2 | SRC3 | | | | |
| | | | | | | | |
| Agricultural production and extension | | | | | | | |
| | | | | | | | |
| Sources of credit and insurance | | | | | | | |
| Government policy changes | | | | | | | |
| | | | | | | | |
| Market information – such prices of goods or crops | | | | | | | |
| | | | | | | | |

Information Sources

1 = Relatives, friends and neighbours 2 = Community bulletin board 3 = Community loud speakers 4 = Local market 5 = Newspaper 6 = Radio7 = Television 8 = Extension agents 9 = Other groups or mass organizations 10 = Business or work associates 11 = Mobile phone12 = Internet 13 = Other (Specify)______

PART J: ACCESS TO AGRICULTURAL SERVICES: AGRICULTURAL EXTENSION & TECHNOLOGY

| | Man |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1. In the past 12 months, have you or anybody from your household received a visit from or have you visited an agricultural extension agent/DA? Yes1; No2 → Q4 | |
| 2. What type of organization provided the service (mainly)? NGO | |
| 3. How often in the last 12 months did you talk to extension agents/DA's individually? | Times |
| 4. If no, how often in the last 12 months did you or anybody in your household talk to a model farmer individually production issues? Number of times | Times |
| 6. How often in the last 12 months did you or anybody in your household participate in a community meeting/field day held to discuss production related issues? Number of times | Times |
| 7. In the last 12 months, did you or anybody in your household visit a demonstration plot of rice, DA or a research station? Yes1; No2 | _ |
| 8. In the last 12 months, did you or anybody in your household visit a government office of agriculture and discussed production related issues? Yes1; No2 | |

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| | | |

L2. Shocks: - Have you or any member of your household faced any of the following shocks in the last five years

| | Shock type | Shock experienced in the last 5 years? 1=Yes 2=No | experienced loss du | | Estimated value of loss due to shock (Tshs) | What did you do to cope with the shock? LIST THE TWO MOST IMPORTANT MEASURES | | To what extent have you recovered from the shock? 1. Completely 2. Partly recovered 3. Still suffering badly |
|----|-------------------------|---------------------------------------------------|---------------------|------|---------------------------------------------|---------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|
| | Shocktype | Shock | Month | Year | valueshock | | | |
| 1 | Floods | | | | | | | |
| 2 | Droughts | | | | | | | |
| 3 | landslides | | | | | | | |
| 4 | Crop Pests/diseases | | | | | | | |
| 5 | Change in crop price | | | | | | | |
| 6 | Input Shortage | | | | | | | |
| 7 | input prices Increase | | | | | | | |
| 8 | Increase in food prices | | | | | | | |
| 9 | Loss of job | | | | | | | |
| 10 | Unsuccessful investment | | | | | | | |
| 11 | Loss of land | | | | | | | |
| 13 | Crime (robbery, theft) | | | | | | | |
| 14 | Divorce | | | | | | | |
| 15 | Serious illness | | | | | | | |
| 15 | Death of hh member | | | | | | | |
| 16 | Other (specify) | | | | | | | |

Coping

<u>strategies</u>

1 = Nothing 2 = Reduced consumption 3 = Sold land 4 = Sold livestock 5 = Sold other assets 6 = Got assistance from relatives or friends 7 = Got assistance from Government 8 = Got assistance from NGO

9 = Borrowed money from bank 10 = Borrowed from others 11 = Postponed payment of loans

13 = Work more 14 = Took children out of school/Sent children to work 15 = Use savings

16. Other(Specify) _____

Section M. Consumption - Food

| | | | | | Ask these questions for each food item in which L2 = yes | | | | | | | |
|--------------|--------------------------------------------------------------|-----------------|-------------------------------------------|-----------------------|--------------------------------------------------------------|-----------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|
| | last seven days , has anyone in your consumed any []? | | [food] consumed over the last seven days? | | consumed last one week, what was the quantity that came from | | consumed in the what was the qu | Of the [] that your household voonsumed in the last week, what was the quantity that came from purchases? | | Of the [] that your household consumed in the last on week, what was the quantity hat came from gifts, loans, barter, or wages in kind? | | |
| | | 1. Yes 2. No | Quantity | Unit (see unit codes) | Quantity | Unit (see unit codes) | Quantity | Unit (see unit codes) | Price (Tsh per unit in L4u) | Quantity | Unit (see unit codes) | |
| | | M2 | M2q | M2u | M3q | M3u | M4q | M4u | M5 | M6q | M6u | |
| Rice | | | | | | | | | | | | |
| Barley | | | | | | | | | | | | |
| Wheat | | | | | | | | | | | | |
| Maize | | | | | | | | | | | | |
| Sorghum | | | | | | | | | | | | |
| Millet | | | | | | | | | | | | |
| Bread | | | | | | | | | | | | |
| Macaroni /sr | paghetti | | | | | | | | | | | |
| Other grain | products | | | | | | | | | | | |
| Faba/horse | bean | | | | | | | | | | | |
| Field pea | | | | | | | | | | | | |
| Haricot bear | าร | | | | | | | | | | | |
| Chickpeas | | | | | | | | | | | | |
| Lentils | | | | | | | | | | | | |
| Grass peas/ | vetch | | | | | | | | | | | |
| Other pulses | 5 | | | | | | | | | | | |
| Potato | | | | | | | | | | | | |
| Sweet potate | 0 | | | | | | | | | | | |
| Cabbage | | | | | | | | | | | | |
| Tomatoes | | | | | | | | | | | | |
| Green pepp | ers | | | | | | | | | | | |
| Red peppers | 3 | | | | | | | | | | | |
| Garlic | | | | | | | | | | | | |
| Onion | | | | | | | | | | | | |
| Other vegeta | ables | | | | | | | | | | | |

| | | | | | Ask these questions for each food item in which L2 = yes | | | | yes | | |
|-----------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------|----------|---------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|----------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------|
| During the last seven days , has anyone in your household consumed any []? | | What was the total quantity of [food] consumed over the last seven days? | | consumed this week, what was the quantity that came from your | | consumed in the last week, what was the quantity that pai | | What was the average price paid for this [] per unit? | Of the [] that your household consumed this week, what was the quantity that came from gifts, loans, barter, or wages in kind? | | |
| | | 1. Yes 2. No | Quantity | Unit (see unit codes) | Quantity | Unit (see unit codes) | Quantity | Unit (see unit codes) | Price (birr per unit in L4u) | Quantity | Unit (see unit codes) |
| | | L2 | L2q | L2u | L3q | L3u | L4q | L4u | L5 | L6q | L6u |
| | Avocado | | | | | | | | | | |
| | Banana | | | | | | | | | | |
| ļ | Orange | | | | | | | | | | |
| | Papaya | | | | | | | | | | |
| | Beles (cactus) | | | | | | | | | | |
| 69 | Other fruit | | | | | | | | | | |
| | Sesame | | | | | | | | | | |
| ł | Niger seed | | | | | | | | | | |
| | Other oilseeds | | | | | | | | | | |
| _ | Beef | | | | | | | | | | |
| - | Mutton/goat meat | | | | | | | | | | |
| 73 | Chicken | | | | | | | | | | |
| 78 | Fish | | | | | | | | | | |
| 74 | Milk | | | | | | | | | | |
| 75 | Butter/cheese | | | | | | | | | | |
| 76 | Eggs | | | | | | | | | | |
| 77 | Other animal products | | | | | | | | | | |
| 81 | Cooking oil | | | | | | | | | | |
| 82 | Berbere | | | | | | | | | | |
| 83 | Spices/condiments | | | | | | | | | | |
| 84 | Salt | | | | | | | | | | |
| 85 | Honey | | | | | | | | | | |
| 91 | Soft drinks | | | | | | | | | | |
| 92 | Local brew | | | | | | | | | | |
| 93 | Coffee/tea | | | | | | | | | | |
| 94 | Beer | | | | | | | | | | |
| 99 | Other beverages | | | | | | | | | | |
| 111 | Other food in house | | | | | | | | | | |
| 112 | Food outside house | | | | | | | | | | |

Section M2. Consumption - Non-Food

| _ | he past ONE MONTH , has anyone in your household purchased or d any of the following items? [do not include items listed in the other table on this | What is the total value of the [] bought or obtained in the past one month ? | | | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|--|--|--|--|
| | | 1. Yes | | | | | |
| | | 2. No | Tsh | | | | |
| М3 | | МЗа | M3b | | | | |
| 131 | Soap, detergent, and cleaning supplies | | | | | | |
| 132 | Toilet paper, razor, lotion, other personal care | | | | | | |
| 133 | Baskets, buckets, other small household items | | | | | | |
| 141 | Bus and train fare (not for work) | | | | | | |
| 142 | Other transportation costs (bicycle, carts, etc) | | | | | | |
| 143 | Mobile phone card, postage, phone calls | | | | | | |
| 151 | Firewood, charcoal, kerosene, batteries, etc | | | | | | |
| 191 | Cigarettes and tobacco | ettes and tobacco | | | | | |
| 192 | Repair, tailor, barber, other services | | | | | | |
| 193 | Toys, sports, events, other entertainment | | | | | | |
| 194 | Domestic worker (do not count ag workers) | | | | | | |
| 181 | Rent paid for housing | | | | | | |
| 182 | Milling service fee | | | | | | |
| 183 | Water, electricity, phone service, etc | | | | | | |
| 201 | Other small purchases (less than 10000 Tsh) | | | | | | |
| 121 | Clothing for men | | | | | | |
| 122 | Clothing for women | | | | | | |
| 123 | Clothing for children <15 | | | | | | |
| 124 | Shoes, hats, umbrellas | | | | | | |
| 131 | Dishes, pots, pans, etc for kitchen | | | | | | |
| 132 | Blankets, sheets, mattress, etc. | | | | | | |
| 161 | School fees | | | | | | |
| 162 | School books, uniforms, etc | | | | | | |
| 163 | Money & food sent to students & others | | | | | | |
| 171 | Medicine (modern and traditional) | | | | | | |
| 172 | Clinic fees, hospital, traditional healer | | | | | | |
| 182 | Repairs and maintenance of house | | | | | | |
| 195 | Funerals, weddings, religious expenses | | | | | | |
| 201 | Contribution to community projects | | | | | | |

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SECTION O: INFRASTRUCTURE

O1: What is the distance from your home to the nearest shopping centre in Km? distshop[___]
O2: What is the distance from your home to the nearest tarmac roadin Km? disttmk[___]
O3: What is the distance from your home to the nearest health centrein Km? disthc[___]
O4: What is the distance from your home to where you can tapelectricityin Km? dstele [___]
O5: What is the distance from your home to where you can get piped waterin Km? dstpipe[__]
O6: What is the distance from your home to public/private extension servicesin Km?stext[__]
O7: What is the distance from your home to the nearest river/streamin Km?dsrver[__]
O8: What is the distance from your home to the Kilombero wetlandin Km? dswet[__]

Thank you for participating in this survey