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GlobE Wetlands in East Africa Project Household Survey

"We are part of a team at the University of Dar Es Salaam and the University of Bonn and other collaborators, who are studying aspects on how communities interact with and benefit from wetlands in Kilombero and Ulanga Districts. You have been randomly selected to take part in this survey and therefore your participation in answering these questions is very much appreciated, but purely voluntary and free to withdraw anytime during the interview. Your responses will be **COMPLETELY CONFIDENTIAL**. Your responses will be added to those of 300 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 Bisrat Haile on mobile phone no. +255688383707 or email:bisrat.gebrekidan@ilr.uni-bonn.de.

SECTION A: PRELIMINARIES

Survey Date: (dd/mm/yy)SURDATE[]		HHID []
HH Name [] H H	INAME	Cell phone number	CELLPH[]
Respondents name[]RESPO		MEM[]
(Enumerator Instruction: Record the member num	ber of the Respondent	t from the demography table on s	section K after the survey is completed.)
Identifying Variables:			
Supervisor: []			SNUM[]
Enumerator: []			ENUM []
District[]			DIST[]
Ward: []			SCONT[]
Village: []			VIL[]
GPS coordinates:			
	(1=North 2=Sou	uth) NS	Northing :'dd)
_	East_	·	Eastings:'dd)
			Alt: Altitude m. a.s.l()

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SECTION B: WETLAND UTILIZATION

B1. When did you start using the wetland (year)? wetstart [_____

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? (Enume: Include cases where the farmer was using and stopped) 1=Yes; No=2	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 (Use coma to separate multiple responses)	wetland for th	the first two in	Other than the wetland, do you usually obtain these products/servi ce from elsewhere? 1= Yes; No=2	o you are the alterr sources (atm		
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=Other (specify)									

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	M	AC:

<pre>prefer1-2 1=the only source 2=Conducive</pre>	environment 3=Its a public resource	4=It's my land 5=Its close to	my home 6=Quality fodder 7=	Land is scarce 8=Scarcity of fodder
0-Other(enecify)				

altsrc: 1=Government land 2=Own farm-upland 3=Hired land -upland 4= River 5=Communal land 6=Other(specify)_____

ENUME: If Brick Making was one of the activities reported under B3, follow up with questions B4-B7.

B4. What is the land size where you have been producing br	ricks especially in the last 12 months?	brickland[
B5. Approximately how many bricks did you make in the las	•	
B6. How many of these did you sell?	bricksale[]	
B7. What was the average sales price for one brick (Tshs)?	brickprice[]	

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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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	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
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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 harvest units)	Reasons for spoilage
						1= res 2=No							Qty	Unit	Cost per unit	Type	Qty	Unit	Type Otv	Unit	Туре	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
																															$\perp \downarrow$		

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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 []	
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
																			-													
																																ı

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

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<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
	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>
													1
	1		1									1	
	1		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>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,
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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
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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=C socie 2=G proc 3=P / trad 4=H trad 5=Ir 6=C / 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																

$\textbf{E12: Other livestock products} \ \textbf{produced during the period December 2015 to November 2016}$

	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
Ervestoek 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				
Liveprod		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								

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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		
				l									(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		Weeding		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 conserva	ation or protection initiativ	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 details	s on such conservation initiat	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:				
, , , , , , , , , , , , , , , , , , ,		<u> </u>	=Removal of buildings from the wetland 5=0	other(specify)
Consinit: 1=Government organi	-			
Resnopart: 1=Not involved by t G3: Do you face challenges w	_	_	wetchall[]	
d3. Do you face chanenges w	nen using the wettand: 1—ye	S 2—NO	wetchan[]	
G4: If Yes in G3 above, what a	are the three major challenge	es? Wetchall1 [] Wetchall2 []Wetchall3 []	I
1=Restricted access 2=Dang	ger of wild animals 3=Risk of	contracting diseases 4=Floo	ods 5=Conflicts with other users 6=Drou	ght 7=0ther,

G5: What are the **four most serious challenges** you face in **wetland crop** production**cropchall1**[__] **cropchall2**[___] **cropchall3**[___] **cropchall4**[___]

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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			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).

		In	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		or payment in	incom	in the
		this	le	t head		g	education		d a			the months	which this	kind from		past year
ID	NI	perso			See	school?	completed	Nov2015	member	hold any-	dividends	in which			estima	in which
ID	Name	n		See	codes				of this	more,	Between Dec2015	informal	income	employment/	te	this
		born?		codes	below	1 = Yes		person	household	why?	&Nov2016?	income was	was	remittances	(TSh)	salaried
				below			See codes					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- IIin-law	4 = divorced	1=std 1	15= college 1	22=univ 4	5=divorced /separated	
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	KSD	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	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	

HHID	[]	

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

strategies

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 peppe	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						

HHID[]	

HHID[]

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