

Africa RISING Machinga Baseline Survey

Household ID _____

November 2016

PanOral Consent Form

Kuvomemeleza kutenga nawo mbali pa kafukufuku

Title of the research project: Agro-ecological Intensification and Production among smallholder farmers in Malawi

Hello! My name is _____ and I am working for Africa RISING. Researchers from Michigan State University are trying to learn about the lives of farmers in Malawi. We are asking farmers, like you, if they would like to participate in a face-to-face interview about how you farm, and it will last about an hour. You must be at least 18 years old to participate.

Dzina langa ndine _____ ndipo ndikugwira ntchito ndi Africa RISING. Gulu la kafukufuku la ku Michigan State University likufuna li phunzire zo khuzana ndi umoyo wa alimi mu Malawi. Tikufunsa alimi ngati inu, ngati muli okonzeka kutenga nawo gawo poyankha mafunso okhuzana ndi ulimi wanu, mafunsowa atitengela pafupifupi ola lathunthu. Mukeyenera kukhala osachepera zaka 18 kuti mutenge nawo gawo.

We are not selling anything or offering any services to you right now. We are only gathering information, but hope that by understanding the lives of farmers in Malawi, Michigan State University and other organizations may provide better services in the future.

Your participation is completely voluntary. Choosing to participate will not increase your opportunities to get services; and choosing not to participate will not decrease your opportunities to receive services. If you choose to participate, I will ask you a number of questions about your household, your farm, and your opinions about farming. You can choose not to answer any question you wish. Your answers will be completely confidential and only the research staff will see your answers. When we do our reports, your answers will be grouped with other farmers' answers to give an overall picture of the lives of farmers in this area. No one in your community will know what your answers are unless you tell them.

There's no cost or compensation offered to participate.

If you have any questions about the study you may contact Dr. Regis Chikowo at IITA by phone at 0994-859-401, or Mr. Emmanuel Jambo by phone at 0999-911-530.

Do you have any questions about this study or your participation?

A.10) Do you agree to participate in this interview?

Yes, No

[If no:] Thank you for your time today. [Indicate the respondent's indication that they do not agree to participate in the survey. Notify your supervisor at the end of the day.]

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Enumerator name:		Date of visit:		Visit number:	
Machinga District		EPA:			
Village:		House GPS coordinates	<i>S</i>		
		<i>E</i>			
Sample group: 1=Int.; 2=LC; 3=DC		Household code:			
Entered by:		Checked by:			
Household Information Enumerator (say to respondent): First, I will ask you some questions about your household and assets.					
HH01. What is the <i>name</i> of the Primary Respondent?					

HH02. What is your <i>age</i>? (Write age <i>in years</i>)	
HH03. What is your <i>gender</i>? (1=Male; 2=Female)	
HH04. Are you the head of this household? (1=Yes; 2=No) If Yes, skip to HH09	
HH05. What is your relationship to the head of this household (<i>The head of this household is my</i>____)? 2=Spouse; 3=Son/Daughter; 4 = Father/Mother; 5 = Brother/Sister 6=grandparent 99 = Other (specify)	
HH06. What is the <i>name</i> of the household head?	
HH07 What is the <i>gender</i> of the household head? ? (1=Male; 2=Female)	
HH08 Over the past 12 months, how many months has the household head <i>resided elsewhere</i>?	

Household level demographic questions

HH09 How many children aged 0-9 years are in this household?	
HH10 How many children aged 10-15 are in this household?	
HH11 How many people aged 70 years or above are in this household?	

EPA Codes 12=Mtubwi	13=Nsanama	14=Nyambi
Village Codes 120=Tambula 121=Duwa 122=Mtonda 123=Dija 124=Mtila 512=Chilonga-Magadi 612=Chipamba	130=Nwokiwa 131=Petekula petekula 132=Muntuwa 133=Shaibu Petekula 134=Thimakera 135=Putheke 136=Mwiriya 137=Mkomola 138=Ntchema 139=Maraka	140=Msigalira 141=Mkambili 142=Sale II 143=Chapola 144=Muhiwa 145=Mang'anda 146=Msaka 147=Mwalija 514=M'bawa-Chimala 614=Chimombo

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Individual demographic table (household-individual level questions)

Please list the head of household and working-age adults (between ages of 16 to 70) living in this household as well as the sons/daughters who reside elsewhere											
ID01 Member ID	Name	ID02 What is the gender of _____ 1= Male 2=Female	ID03 What is the age of _____ (years)	ID04 What is the marital status of_____ (Codes below)	ID05 Relation-ship to head (The household head is my _____) (Codes below)	ID06 What is the education level of _____ (Codes below)	ID07. Over the past 12 months, how many months has _____ resided elsewhere?	ID08 What has been the primary occupation of _____ in terms of time over past 12 months? (Codes below)	ID09a What share of time spent working over the past year did _____ spend on the household farm? (%)	ID09b What share of time spent working over the past year did _____ spend providing ganyu labor? (%)	ID09c What share of time spent working over the past year did _____ spend earning non-farm income? (%)
Enumerator – These three columns should sum to 100%											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

Before moving on, ask: Is there anyone else in the immediate family who does NOT currently reside in the household? If yes, return to table above and fill out for this member.

ID04. Marital Codes: 1=Married 2=Widowed 3=Divorced 4=Separated 5=Never married 6=Co-inhabiting	ID05 Relationship Codes: 1=Head/self 2=Spouse 3=Son/Daughter 4=Father/Mother 5=Brother/Sister 6=Grandparent 99=Other (specify above or in margin)	ID06 Education Codes: 1=No schooling 2=Some primary 3=Completed primary 4=Some secondary 5=Completed secondary 6=Post-secondary 7 =Adult literacy	ID08 Occupation Codes: 0=Not working 1=Working on your farm (Not a relative's farm) 2= Informal business 3=Casual farm labour (Someone else's farm/ganyu labor) 4=Salaried/wage labour (formal employment/business) 5=Student 99=Other (specify above or in margin)
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Subsidized fertilizer acquisition

FA01 Did you receive or purchase any subsidized fertilizer for use in the 2015/16 season? (1=Yes; 2=No) If no, skip to FA06 (NEXT TABLE)					
Enumerator – Ask questions row-by row Type of fertilizer	FA02 Did you purchase or receive _____ for crops grown in the past (2015/16) growing season? (1=Yes; 2=No) If no, skip to next fertilizer type	FA03 What was the source of subsidized _____? (Codes below)	FA04 How much subsidized _____ did you receive or purchase? (See codes below)		FA05 How much did you pay per unit of subsidized _____? (MWK per unit in FA04b)
			a Quantity	b Unit	
	a. 23:21:0+4S (NPK)				
	b. Urea				
	c. CAN				
	d. D Compound				
	e. DAP				
f. Other (specify):					

Commercially purchased fertilizer acquisition

FA06 Did you make any commercial fertilizer purchases for use in the 2015/16 season? (1=Yes; 2=No) If no, skip to HH12 (NEXT TABLE)					
Enumerator – Ask questions row-by row Type of fertilizer	FA07 Did you purchase _____ for crops grown in the past (2015/16) growing season? (1=Yes; 2=No) If no, skip to next fertilizer type	FA08 How much _____ did you purchase commercially?		FA09 How much did you pay per unit of _____? (MWK per unit in FA08b)	FA10. Distance from farm to point of purchase (km)
		a Quantity	b Units		
	a. 23:21:0+4S (NPK)				
	b. Urea				
	c. CAN				
	d. D Compound				
	e. DAP				
f. Other (specify):					

FA11 How much did you pay in total to transport your commercially purchased fertilizer from the point of purchase to the farm? (MWK)		
FA03. Codes: 1=FISP 2=Inputs for Assets 3=NGO or other aid organization 4=Farmer's group 5=Through another farmer 99=Other (specify)	Unit Codes: 1=kg 2=25 kg sacks 3=50 kg sacks 4=20L Bucket 5=5L pail	6=Ndiwo plate (about half a kg) 7=Nsimu plate (about a kg) 8=18L Bucket 9=15L Bucket 10=10L pail 99=Other (specify)

Field level questions – Enumerator – Tell the respondent we would now like to ask about their fields during the 2015/16 planting/harvest season. For these questions, a field is defined as a continuous area of land, and a plot is defined as a section of a field that is dedicated to a specific crop (or intercrops).

HH12 What is the total area rented out during the 2015/16 growing season?	
HH13 How many fields did you plant during the 2015/16 growing season, including rented in fields?	
HH14 What is the total acres cultivated during the 2015/16 growing season, including rented in fields?	
HH15 Was any area left fallow during the 2015/16 growing season? (1=Yes; 2=No) IF NO, Skip to Map	
HH16 Why was that land left fallow? 1=to improve the soil 3=shortage of labour 2=no material inputs 4=dispute over land tenure 99=other (specify)	
HH17 What is the total area that was left fallow? (acres)	

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Member ID of person giving the tour: _____

Enumerator: **DRAW MAP OF THE FARM** (to be done by the enumerator)

- 1) Draw each field the farmer owned or cultivated in 2015/16
- 2) Draw each field the farmer owns that was left fallow in 2015/16
- 3) Name each field
- 4) Within each **cultivated** field, identify individual **plots** (see definitions to the right→).
- 5) Number each field & plot.
- 6) List the crops planted for the 2015/16 season for each plot,
- 7) Record the area for each **field** & then each **plot** in acres – **Use the conversion table to write in decimal form.**
- 8) Identify the **FIELDS** the farmer indicates as having the highest (H) and lowest (L) fertility

Enumerator - For this map and throughout the survey, a:

FIELD is as a continuous area of land, and a

PLOT is a section within a field that is dedicated to a specific crop or intercrops

Conversion table:

$$1/2 = 0.50$$

$$1/3 = 0.33$$

$$1/4 = 0.25$$

$$1/5 = 0.20$$

$$1/6 = 0.17$$

$$1/7 = 0.14$$

$$1/8 = 0.13$$

$$1/9 = 0.11$$

$$2/3 = 0.67$$

$$2/4 = 0.50$$

$$2/5 = 0.40$$

$$2/6 = 0.33$$

$$2/7 = 0.29$$

$$2/8 = 0.25$$

$$2/9 = 0.22$$

$$3/4 = 0.75$$

$$3/5 = 0.60$$

$$3/6 = 0.50$$

$$3/7 = 0.43$$

$$3/8 = 0.38$$

$$3/9 = 0.33$$

$$4/5 = 0.80$$

$$4/6 = 0.67$$

$$4/7 = 0.57$$

$$4/8 = 0.50$$

$$4/9 = 0.44$$



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Field Table 1 – Field History**Enumerator:** Please **FIRST** transcribe the **Field numbers** from the previous page, **INCLUDING FALLOW AND RENTED OUT fields**. Then, ask questions row-by-row for each field.

Transcribe field numbers and fertility here		F01 Do you own this land? 1=Yes 2=No	F02 Is this a dimba/dambo/wetland? 1=Yes 2=No	F03 What is the _____ you plan to plant in the 2016/17 season? (See codes)			F04 What was the _____ you planted in the 2014/15 season? (See codes)						F05 What was the _____ you planted in the 2013/14 season? (See codes)						F06 What was the _____ you planted in the 2012/13 season? (See codes)					
Field	Fertility Indicate High Low fertility fields. (H & L) Label up to two FIELDS			Main crop	Primary inter-crop	Second inter-crop	Main crop		Primary inter-crop		Second inter-crop		Main crop		Primary inter-crop		Second inter-crop		Main crop		Primary inter-crop		Second inter-crop	
				Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	Crop code	Share of field	
				a	b	c	d	e	f	a	b	c	d	e	f	a	b	c	d	e	f			

Crop codes:**0 = None**

1=local maize

2=hybrid maize

3=OPV/Composite maize

4=tobacco

5=cotton

6=pigeonpea

7=groundnut

8=soya bean

9=common bean

10=velvet bean

11=cowpea

12=bambara nut

13=sorghum

14=cassava

15=sweet potato

16=Irish potato

17=millet

18=rice

19=pumpkin

20=Fallow

87=Virgin land

88=Rented out

89=Used/owned by another farmer

99=Other

(Specify) _____

Conversion table:

1/2 = 0.50

1/3 = 0.33

1/4 = 0.25

1/5 = 0.20

1/6 = 0.17

1/7 = 0.14

1/8 = 0.125

1/9 = 0.11

2/3 = 0.67

2/4 = 0.50

2/5 = 0.40

2/6 = 0.33

2/7 = 0.29

2/8 = 0.25

2/9 = 0.22

3/4 = 0.75

3/5 = 0.60

3/6 = 0.50

3/7 = 0.43

3/8 = 0.38

3/9 = 0.33

4/5 = 0.80

4/6 = 0.67

4/7 = 0.57

4/8 = 0.50

4/9 = 0.44

Field Table 2 – Tillage and ammendments – Reference Period is the 2015/16 Season

To be transcribed by the enumerator.			Decide1 Who is responsible for managing fertilizr on this plot? (See codes)	FP00 Was this field rented out during the 2015/16 season? 1=Yes; 2=No	FP01 What has been done to prevent soil erosion on this plot? (See codes)	FP02 What tillage method was used on this plot? (See codes)	FP03 Was animal traction used to prepare this plot? 1=Yes 2=No	FP04 Which month was land preparation finished? See codes	FP05 Were herbi-cides used on this plot during the 2015/16 season? 1=Yes 2=No	FP06 Were pesti-cides used on this plot during the 2015/16 season? 1=Yes 2=No	Did This household apply NPK (23:21:0+4S)? If none, put "0" in FP07 and skip to Urea.			Did This household apply Urea? If none, put "0" in FP10 and skip to Compost.			Did This household apply Compost? If none, put "0" in FP13 and skip to Manure.			Did This household apply Manure? If none, put "0" in FP16 and skip to NEXT PAGE.					
Field	Plot	Acres									FP07 NPK Quant-ity	FP08 NPK Units	FP09 NPK Application method See Codes	FP10 Urea Quant-ity	FP11 Urea Units	FP12 Urea Application method See Codes	FP13 Comp-ost Quant-ity	FP14 Comp-ost Units	FP15 Comp-ost Application method See Codes	FP16 Man-ure Quant-ity	FP17 Man-ure Units	FP18 Man-ure Application method See Codes			
					a	b	c	d	e	Enumerator – do not ask these questions for plots that were left fallow during the 2015/16 season															

Decide1 codes 1= HH head 2=Spouse of head 3=Head & spouse 4=Other hh male 5=Other hh female 6=Non-hh male 7=Non-hh female	FP01 Codes: 0=None 1=mulching 5=green manure 6=terracing 7=grass strips 12=drainage 13=Contour bunds 14=Stone lines 15=Tied ridges 16=Contour ridges 99= Other (Specify)	Months 1=Jan 2=Feb 3=Mar 4=Apr 5=May 6=Jun 7=Jul 8=Aug 9=Sep 10=Oct 11=Nov 12=Dec	FP02 Codes: 4=level soil 5=Ridges 6=Mounds 7=Planting basins 9=Zero/No tillage 99=Other (Specify)	Unit codes 1=kg 2=25 kg sacks 3=50 kg sacks 4=20L Bucket 5=5L pail 6=Ndiwo plate (about half a kg) 7=Nsimia plate (about a kg) 8=18L Bucket 9=15L Bucket 10=10L pail 11=Ox cart 12=Bunches 13=Heads/In total 99=Other (specify)	Ammendment application Codes: 1=Spread evenly (broadcasting) before/during planting 2= Broadcasting within 2 weeks after planting 3= Broadcasting more than 2 weeks after planting 4=Near the seed, on soil surface before/during planting 5=Near the plant, on soil surface within 2 weeks after planting 6=Near the plant, on soil surface more than 2 weeks after planting 7=Near the seed, beneath soil surface before/during planting 8=Near the plant, beneath soil surface within 2 weeks after planting 9=Near the plant, beneath soil surface more than 2 weeks after planting
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Field Table 3 – Crops – seed variety/sources – Harvest quantities

Enumerator: Transcribed the data from the map on the previous page into these columns.				Decide2 Who decided to plant this crop or let the field fallow? <i>See Codes</i>	FPC01 When was planting finished?		FPC02 Was this crop planted to replace a planting that failed to germinate? <i>1=Yes</i> <i>2=No</i>	FPC03 Was this crop chosen for drought tolerance? <i>1=Yes</i> <i>2=No</i>	For each crop, what was the seed _____?					How much _____ was harvested from this plot? <i>If FP08=0, Skip to next crop</i>		Decide3 Who decided how the harvest is used from this crop? <i>See Codes</i>	Sell Was any portion of the harvest from this crop sold/ bartered? <i>1=Yes</i> <i>2=No</i> IF Sell=2, skip to next row	Decide4 Who decided how the proceeds from the sale from this plot/crop are used? <i>See codes</i>
Field	Plot	Crop	Crop position <i>See codes</i>		1=Jan 2=Feb . 12=Dec a Month	(Write 1, 2, 3 or 4) b Week			Quantity		Type (See codes) FPC06	Variety <i>Variety</i>	Main Source FPC07	Quant-ity FP08	Units (See codes) FP09			
									Quant-ity FPC04	Units (See codes) FPC05								
Enumerator – do not ask these questions for plots that were left fallow during the 2015/16 season																		

Crop codes:

1=local maize
2=hybrid maize
3=OPV/Composite maize
4=tobacco
5=cotton
6=pigeonpea
7=groundnut
8=soya bean
9=common bean
10=velvet bean

11=cowpea
12=bambara nut
13=sorghum
14=cassava
15=sweet potato
16=Irish potato
17=millet
18=rice
19=pumpkin
20=Fallow
99=Other (Specify)

Crop “position” codes

1=Primary Crop
2=Main intercrop
3=Additional intercrop
4=Border crop

Type codes

1=Local
2=Newly acquired hybrid
3=Saved hybrid
4=OPV/Composite

Decide codes

1= Household head
2=Spouse of head
3=head and spouse
4=Male other hh mem.
5=Female other hh mem.
6=Male non-hh mem.
7=Female non-hh mem

Unit Codes:

1=kg
2=25 kg sacks
3=50 kg sacks
4=20L Bucket
5=5L pail
6=Ndiwo plate (about half a kg)
7=Nsima plate (about a kg)
8=18L Bucket
9=15L Bucket
10=10L pail
12=Bunches
13=Heads/In total
99=Other (specify)

Seed Source codes

1=Recycled from last year
2=Other household
3=Extension agent
4=Local store/market
5=FISP
6=Inputs for Assets
7=Other NGO
8=Wage for ganyu labour
9=From FISP beneficiary
10=Africa RISING
11=Agro-dealer
99=Other (specify)

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Crop sales – Enumerator, list each crop identified sold in Field Table 3 on the previous page

Crop	What is the total quantity sold (or planned to sell from the 2016 harvest)		Enumerator – Ask the remaining questions about the <i>LARGEST COMPLETED TRANSACTION</i> in terms of quantity sold. If more than one sale is the same size as the largest sale, ask about the earliest sale.							
	Qty CS01	Unit CS02	What quantity was sold during the largest transaction ? Qty CS03	Unit CS04	What price did you receive during the largest transaction ? (MWK) Price CS05	Unit CS06	To whom did you sell for the largest sale ? See codes CS07	Where was the crop exchange made for largest sale ? See codes CS08	How far from the house to the point of the crop exchange made for largest sale ? (km) CS09	How much did you pay in total to transport the crop to the point of exchange (MWK) CS10

Crop codes: 1=local maize 2=hybrid maize 3=OPV/Composite maize 4=tobacco 5=cotton 6=pigeonpea 7=groundnut 8=soya bean 9=common bean 10=velvet bean 11=cowpea 12=bambara nut 13=sorghum 14=cassava 15=sweet potato 16=Irish potato 17=millet 18=rice 19=pumpkin 99=Other (Specify) _____	Units: 1=kg 2=25 kg sacks 3=50 kg sacks 4=20L Bucket 5=5L pail 6=Ndiwo plate (about half a kg) 7=Nsima plate (about a kg) 8=18L Bucket 9=15L Bucket 10=10L pail 11=Ox cart 12=Bunches 13=Heads/In total 99=Other (specify)	Buyer codes CS07 1=Other household 2=Small trader 3=Large trader 4=Admarc 5=Other (Specify) _____	Exchange location codes CS08 1=On the farm 2=From the house 3=Trading center/local market 4=Within the village (not on the farm or at market) 5=Boma 6=Admarc 99=Other (Specify) _____
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HH18 Did anyone in this household produce fruits or vegetables during the 2015/16 season? 1=Yes; 2=No *If No, Skip to NEXT PAGE*

Horticulture and other agricultural products not grown exclusively during the rainy season – Enumerator, first list all products grown, then ask question HP01 – HP18 row-by-row (that is, ask all questions for each product before moving on to the next product)

Product (See codes)	Where is grown? (See codes)	When you are producing, how much _____ do you harvest in an average production month?		When you are producing, how much _____ do you harvest in a high production month?		When you are producing, how much _____ do you harvest in a low production month?		When you are selling, how much _____ do you sell in an average sales month?		When you are selling, how much _____ do you sell in a high sales month?		When you are selling, how much _____ do you sell in a low sales month?		What price do you normally receive on average when selling _____? (MWK)		How many months of the year are “average” production/ sales	How many months of the year are “high” production/ sales	How many months of the year are “low” production/ sales
		Qty	Unit	Qty	Unit	Qty	Unit	Qty	Unit	Qty	Unit	Qty	Unit	Price	Unit			
		HP01	HP02	HP03	HP04	HP05	HP06	HP07	HP08	HP09	HP10	HP11	HP12	HP13	HP14			

Product codes:

21=Cashew nut
22=Oranges
23=Banana
24=Pinapple
25=Guava
26=Avacado
27=Watermelon
28=Mangoes

29=Lemons
30=Grapefruit
31=Other fruit
(Specify _____)

40=Cabbage
41=Rape
42=Spinach
43=Chinese Cabbage
44=Tomato
45=Onion
46=Okra
47=Eggplant
48=Local eggplant
49=Pumpkin

50=Pumpkin leaves
51=Chilies
52=Cauliflower
53=Carrots
54=Lettuce
55=Green beans
56=Green maize
57=Mustard (seed)
58 Other vegetable (Specify _____)

HP01 codes:

1=Dimba/Dambo/Natural wetland
2=Irrigated field/Not a natural wetland
3=Irrigated garden plot at home
4=Irrigated garden away from home
5=Fruit trees at home
6=Fruit trees away from home (orchard)
7=Other
(Specify _____)

Unit codes

1=kg
2=25 kg sacks
3=50 kg sacks
4=20L Bucket
5=5L pail
6=Ndiwo plate (about half a kg)
7=Nsimu plate (about a kg)
8=18L Bucket
9=15L Bucket
10=10L pail
11=Ox cart
12=Bunches
13=Heads/In total
99=Other (specify)

Grain storage

HH19 Where was your primary storage for maize from the 2015/16 harvest? <i>See codes</i>			
HH20 What methods do you plan use to control pests in stored grain? (See codes below)			
HH19 Codes: 1=Granary 2= Pit in ground 3=Cribs 4=Sacks 5=Raised open platforms 6=Raised covered platforms 7=Open ground, covered 8=Open ground, uncovered 9=Roof		HH20 Codes: 0=None 1=Pesticide 2=Ash 3=Tephrosia 99=Other (specify)	11=Commercial 88=Did not store 99=Other (specify)

Hunger and Food Security

Month	Was the household unable to consume maize/mealie meal from your own production during ____?	Did any household members go a full day without food during ____?
	1=Yes (hungry) 2=No	1=Yes (hungry) 2=No
	HFS01	HFS02
11= November 2015		
12= December 2015		
1= January 2016		
2= February 2016		
3= March 2016		
4= April 2016		
5= May 2016		
6= June 2016		
7= July 2016		
8= August 2016		
9= September 2016		
10= October 2016		

Climate and weather

CW01 What is the household's primary source of weather information ? <i>If none, enter 0 and skip to next page</i>			
CW02 Has weather information ever led you to plant your crop early? 1=Yes, 2=No			
CW03 Has weather information ever led you to change the amount of fertilizer you purchased? 1=Yes, 2=No			
CW04 Has weather information ever led you to change the crops you were planning to plant? 1=Yes, 2=No			
CW05 Has weather information ever led you to change the maize variety you were planning to plant? 1=Yes, 2=No			
CW06 What information have you received about the expected amount of rainfall for the 2016/17 season? (See codes)			
CW07 What information have you received about the expected timing of rainfall for the 2016/17 season? (See codes)			
CW01 codes: 0=None 1=Radio 2=Extension worker 3=School children 4=NGO(s)	5=Newspaper 6=Television 7=Neighbor/friend 8=Other (Specify)	CW06 codes 0=No information 1=Less than usual 2=About normal 3=More than usual	CW07 codes 0=No information 1=Earlier than usual 2=About normal 3=Later than usual

Sources of agricultural advice and information

HH21 Have you ever received advice about crop selection ? (1=Yes; 2=No) (If No, skip to HH24.)	
HH22 Did you receive advice about crop selection for the 2015/16 season ? (1=Yes; 2=No)	
HH23 What is the main source of advice you received about crop selection ? (See codes below)	

HH24 Have you ever received advice about residue management ? (1=Yes; 2=No) (If No, skip to HH28)	
HH25 Did you receive advice about residue management for the 2015/16 season ? (1=Yes; 2=No)	
HH26 What is the main source of advice you received about residue management ? (See codes below)	
HH27 What types of advice are you getting related to residue management ? (See Codes)	a
	b
	c
	d

HH28 Have you ever received advice about fertilizer ? (1=Yes; 2=No) (If No, skip to HH31)	
HH29 Did you receive advice about fertilizer for the 2015/16 season ? (1=Yes; 2=No)	
HH30 What was the main source of advice about fertilizer ? (See codes below)	

HH31 Have you ever received advice about land preparation or spacing ? (If No, skip to HH34)	
HH32 Did you receive advice about land preparation or spacing for the 2015-2016 season ? (1=Yes; 2=No)	
HH33 What was the main source of advice about land preparation or spacing ? (See codes below)	

HH23, HH26, HH30, HH33 Source Codes: 1=family member 7=private distributor 2=lead farmer 8=groups 3=other farmer 9=Television 4=extension agent 10=Radio 6=other NGO 11=Newspaper 99=Other (specify)		HH27: Advice codes 1=Stand residue in field 11=Grazed residue by livestock/animals 2=Lay residue in field 13=Collected residue for compost 3=Mound residue in field 14=Bury residue before tillage 4=Mound residue off field 15=Incorporate residue during tillage 5=Burn residue in field 16=Other (Specify) _____ 6=Burn residue off field 7=Remove residue for fodder 8=Remove residue for fire fuel 9=Remove residue for compost	
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HH34 During the past growing season, what was the wage rate if, you, the respondent were to provide ganyu labour for ridge making (land preparation)?	HH34a Amount	
	HH34b Unit: 1=MWK 2=kg maize	
	HH34c Per 1=acre 2=day 3=rows/ridges 4=plant	
HH35 Over the past 12 months, how much would it cost to rent 1 acre of good quality land in this area for one season? (Indicate price in MWK per acre)		

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Asset holdings – Enumerator, these questions refer to the current time period (November 2016)

	AH01 Does this household own a _____? 1=Yes 2=No If no, SKIP to next Asset	AH02 How many _____ does this household own? (Number)	AH03 About how much would you receive if you were to sell one of your _____ in this area? (MWK)
<i>Asset</i>			
1. Sprayer			
2. Treadle pump			
3. Ox cart			
4. Plough			
5. Cell phone			
6. Bicycle			
7. Radio			
8. Television			
9. Sofa set			
10. Improved wood/coal stove			
11. Kerosene or gas stove			
12. Motorbike			
13. Cars or truck			
14. Solar panel			

Livestock holdings – Enumerator, these questions refer to the current time period (November 2016)

	LS01 Does this household own a _____? 1=Yes 2=No If no, SKIP to next Livestock	LS02 How many _____ does this household own? (Number)	LS03 How are these animals kept/fed/confined during the _____? (What is your animal production practice)? 1=Free range/communal grazing 2=Kept in Dambo 3=Herded outside 4=Both free range and herded outside 5=Fully confined		LS04 About how much would you receive if you were to sell ONE _____ in this area? (MWK)
<i>Livestock</i>			a Wet season	b Dry season	
1. Bulls/Oxen					
2. Cows					
3. Calves					
4. Goats					
5. Sheep					
6. Chickens					
7. Ducks or Geese					
8. Guinea fowl					
9. Donkeys					
10. Pigs					
11. Doves					
12. Rabbits					
13. Guinea pigs					
14. Other (Specify) _____					

Other income sources

Indicate the **estimated household income** between **August 2015 and July 2016** (include in-kind receipts to the household) (**Enumerators: fill out EITHER columns b & c OR column d**)

Income source	OI01 Code	OI02a Did the household earn income from _____? 1=Yes; 2=No If No, Skip to next income source	OI02b Number of months income received	OI02c Average monthly income during these months (MWK)	OI02d Annual income (MWK)
Agricultural labour on another farm (ganyu)	1				
Non-agricultural labour	2				
Remittances (including domestic/international migrants)	3				
Informal business (e.g. selling firewood)	4				
Formal business (e.g. tailor)	5				
Selling animal products (eggs/milk/meat/animals)	6				
Donations/gifts	7				
Other non-farm income (specify)	99				

HH36 Is anyone in this household involved in a group (agricultural, political, religious or social group)?
1=Yes; 2=No **If No, Skip to HH37**

Social networks – Enumerator – First list all group names in SN01, then ask questions row-by-row

SN01 Please tell me the name of each group you actively participate in. Include all agricultural, political, religious, and social groups. (Write in name)	SN02 What type of group is this? (See codes below)	SN03 How many times in the past 12 months did anyone in your household participate in this group?	SN04 Do you have a leadership position in this group? (1=Yes; 2=No)
1			
2			
3			
4			
SN02 Codes: 1=Religious group 5=Savings/Credit co-op 8=Irrigation group 12=Community Based Organization 2=Agricultural co-op 6=Support group 9=Group of migrants 13=Village committee (specify) 3=Crop growers assoc. 7=Village development 10=Women's group 99=Other (specify) _____ 4=Youth group committee 11=Political group			

Household level social questions:

HH37 In the past 12 months, has a member of your household worked with others in your village to do something for the benefit of the community? 1=Yes; 2=No If No, Skip to HH39	
HH38 In the past 12 months, how many times has a household member worked with others in your village to do something for the benefit of the community?	
HH39 In the past 12 months have you or others in your household provided help to others outside your household when they were sick or when someone died? 1=Yes; 2=No If No, Skip to HH41	
HH40 In the past 12 months, how many people outside your household have you or others in your household provided help for when they were sick or when someone died?	
HH41 In the past 12 months did your household receive help from others during a difficult time (sickness, theft, fire, etc.)? 1=Yes; 2=No If No, Skip to HIGH and LOW fertility field questions	
HH42 How many people in the past 12 months helped your household during a difficult time (sickness, theft, etc.)?	

Enumerator – The following pages of questions are to be filled out in the fields identified as high and low fertility with the farmer.

HIGH fertility field-specific questions

Field _____

GPS informations

FGPS – Record the GPS coordinates from the center of the field	S			.					
	E			.					
FGPS00 – Record the area of the ENTIRE FIELD as measured using GPS (Square meters)									
FGPS01 – Record the area of PLOT #1 as measured using GPS (Square meters)									
FGPS02 – Record the area of PLOT #2 (if applicable) as measured using GPS (Square meters)									
FGPS03 – Record the area of PLOT #3 (if applicable) as measured using GPS (Square meters)									
FGPS04 – Record the area of PLOT #4 (if applicable) as measured using GPS (Square meters)									
FGPS05 – Record the area of PLOT #5 (if applicable) as measured using GPS (Square meters)									

Field history

Enumerator – Please indicate to the farmer, the next 5 questions are referring to the 2014/15 agricultural season	
FH01 What was done with the crop residue after the harvest in 2014? (See codes) -----→Only ask F02 & F03 if F01 is 1,2,3 or 5	
FH02 What happened to the residue remaining in the field between the 2014 harvest and land preparation for the following planting season? (See codes)	
FH03 During which month was residue from the 2014 harvest incorporated?	
FH04 During which month was land preparation finished for the 2015 harvest?	a. Month b. Year
FH05 During which month was planting finished in for the 2015 harvest?	a. Month b. Year

Enumerator – Please indicate to the farmer, the next 5 questions are referring to the 2015/16 agricultural season	
FH06 What was done with the crop residue after the harvest in 2015? (See codes) -----→Only ask F07 & F08 if F06 is 1,2,3 or 5	
FH07 What happened to the residue remaining in the field between the 2015 harvest used during the following planting season? (See codes)	
FH08 During which month was residue from the 2015 harvest incorporated?	
FH09 During which month was land preparation finished for the 2016 harvest?	a. Month b. Year
FH10 During which month was planting finished in for the 2016 harvest?	a. Month b. Year
FH11 - How many seeds from the main crop are sown per planting station in this field?	

FH01 & FH06 Codes 1=Standing in field 2=Laying in field 3=Mounds in field 4=Mounds off field 5=Burned in field 6=Burned off field 7=Removed for fodder 8=Removed for fire fuel 9=Removed for compost 10=Other (specify) _____	FH02 & FH07 Codes: 11=Grazed by livestock/animals 12=Burned 13=Collected for fuel, compost, etc. 14= Buried residues before tillage 15=incorporate residues during tillage 16=Other (Specify) _____
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This is space for enumerators to describe the intercropping & soil amendment patterns

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Field _____ Fertility HIGH***Agricultural Labor (Household and Hired) for the HIGH FERTILITY FIELD***

	<i>How many hh members younger than 16 provide labor for _____?</i>	<i>How many days did hh members younger than 16 provide labor for _____?</i>	<i>How many household MEN 16 - 70 years provide labor for _____?</i>	<i>How many days did household MEN 16 - 70 years provide labor for _____?</i>	<i>How many household WOMEN 16 - 70 years provide labor for _____?</i>	<i>How many days did household WOMEN 16 - 70 years provide labor for _____?</i>	<i>How many household members over 70 years provide labor for _____?</i>	<i>How many days did household members over 70 years provide labor for _____?</i>	<i>How many MEN were hired to provide labor for _____?</i>	<i>How many days did hired MEN provide labor for _____?</i>	<i>How many WOMEN were hired to provide labor for _____?</i>	<i>How many days did hired WOMEN provide labor for _____?</i>
LAB Activity	LAB01	LAB02	LAB03	LAB04	LAB05	LAB06	LAB07	LAB08	LAB09	LAB10	LAB11	LAB12
1=Land preparation												
2=Planting												
3=Basal application												
4=Top dress application												
5=Weeding												
6=Banking (second weeding)												
6=Harvesting												

Enumerator – Use this space to ask, “Which household members provided labor for _____?” This is to assist with answering the questions above

<i>Land preparation</i>	<i>Planting</i>	<i>Basal application</i>	<i>Top dress application</i>	<i>Weeding</i>	<i>Banking (second weeding)</i>	<i>Harvesting</i>

Household ID _____

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Enumerator – The following pages of questions are to be filled out in the fields identified as high and low fertility with the farmer.

LOW fertility field-specific questions

Field _____

GPS informations

FGPS – Record the GPS coordinates from the center of the field	S			.					
	E			.					
FGPS00 – Record the area of the ENTIRE FIELD as measured using GPS (Square meters)									
FGPS01 – Record the area of PLOT #1 as measured using GPS (Square meters)									
FGPS02 – Record the area of PLOT #2 (if applicable) as measured using GPS (Square meters)									
FGPS03 – Record the area of PLOT #3 (if applicable) as measured using GPS (Square meters)									
FGPS04 – Record the area of PLOT #4 (if applicable) as measured using GPS (Square meters)									
FGPS05 – Record the area of PLOT #5 (if applicable) as measured using GPS (Square meters)									

Field history

Enumerator – Please indicate to the farmer, the next 5 questions are referring to the 2014/15 agricultural season	
FH01 What was done with the crop residue after the harvest in 2014? (See codes) -----→Only ask F02 & F03 if F01 is 1,2,3 or 5	
FH02 What happened to the residue remaining in the field between the 2014 harvest and land preparation for the following planting season? (See codes)	
FH03 During which month was residue from the 2014 harvest incorporated?	
FH04 During which month was land preparation finished for the 2015 harvest?	a. Month b. Year
FH05 During which month was planting finished in for the 2015 harvest?	a. Month b. Year

Enumerator – Please indicate to the farmer, the next 5 questions are referring to the 2015/16 agricultural season	
FH06 What was done with the crop residue after the harvest in 2015? (See codes) -----→Only ask F07 & F08 if F06 is 1,2,3 or 5	
FH07 What happened to the residue remaining in the field between the 2015 harvest used during the following planting season? (See codes)	
FH08 During which month was residue from the 2015 harvest incorporated?	
FH09 During which month was land preparation finished for the 2016 harvest?	a. Month b. Year
FH10 During which month was planting finished in for the 2016 harvest?	a. Month b. Year
FH11 - How many seeds from the main crop are sown per planting station in this field?	

FH01 & FH06 Codes 1=Standing in field 2=Laying in field 3=Mounds in field 4=Mounds off field 5=Burned in field 6=Burned off field 7=Removed for fodder 8=Removed for fire fuel 9=Removed for compost 10=Other (specify)	FH02 & FH07 Codes: 11=Grazed by livestock/animals 12=Burned 13=Collected for fuel, compost, etc. 14= Buried residues before tillage 15=incorporate residues during tillage 16=Other (Specify) _____
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This is space for enumerators to describe the intercropping & soil amendment patterns

Household ID _____

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Field _____ Fertility LOW***Agricultural Labor (Household and Hired) for the LOW FERTILITY FIELD***

	<i>How many hh members younger than 16 provide labor for _____?</i>	<i>How many days did hh members younger than 16 provide labor for _____?</i>	<i>How many household MEN 16 - 70 years provide labor for _____?</i>	<i>How many household MEN 16 - 70 years provide labor for _____?</i>	<i>How many household WOMEN 16 - 70 years provide labor for _____?</i>	<i>How many household WOMEN 16 - 70 years provide labor for _____?</i>	<i>How many household members over 70 years provide labor for _____?</i>	<i>How many days did household members over 70 years provide labor for _____?</i>	<i>How many MEN were hired to provide labor for _____?</i>	<i>How many days did hired MEN provide labor for _____?</i>	<i>How many WOMEN were hired to provide labor for _____?</i>	<i>How many days did hired WOMEN provide labor for _____?</i>
LAB Activity	LAB01	LAB02	LAB03	LAB04	LAB05	LAB06	LAB07	LAB08	LAB09	LAB10	LAB11	LAB12
1=Land preparation												
2=Planting												
3=Basal application												
4=Top dress application												
5=Weeding												
6=Banking (second weeding)												
6=Harvesting												

Enumerator – Use this space to ask, “Which household members provided labor for _____?” This is to assist with answering the questions above

<i>Land preparation</i>	<i>Planting</i>	<i>Basal application</i>	<i>Top dress application</i>	<i>Weeding</i>	<i>Banking (second weeding)</i>	<i>Harvesting</i>