

**Africa RISING Machinga, Malawi Harvest Survey – April 2018 HHID \_\_\_\_\_**

Consent Form

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.

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 Hannah Livuza by phone at 0999-938587.**

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

**Do you agree to participate in this interview (Enumerator, circle response)?** YES NO

[If no:] Thank you for your time today.

<b>EPA:</b>	<b>Sample:</b> 1=Int.; 2=LC; 3=DC		<b>A3-Enumerated by:</b>
<b>Village:</b>	<b>Date</b>  ____/____/2018	<b>Checked by:</b>	
<b>Household ID</b>		<b>Data entry by:</b>	
<b>A4-Name of household head</b>		<b>A5-Name of respondent</b>	
<b>NV0-When was the first rains in the area? (1=Jan; 2=Feb...; 11=Nov; 12=Dec)</b>			<b>Month</b>
(For weeks enter 1, 2, 3 or 4)			<b>Week</b>

<b>NV1- Does the farmer confirm all fields were captured on the mid-season survey map? (1=Yes; 2=No)</b>		
<b>If yes, skip to the next page</b>		
<b>NV2 -How many <i>additional fields</i> should have been recorded on the mid-season survey?</b>		
<b>NV3 - What are the additional crops that should have been included on the mid-season survey, and how much area was planted</b>	<b>Crop</b>	<b>Acres</b>

<b>EPA Codes</b> 12=Mtubwi	13=Nsanama	14=Nyambi
<b>Village Codes</b> 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 513=Namunde 613=Likwakwa 140=Msigalira 141=Mkambili 142=Sale II 143=Chapola 144=Muhiwa 145=Mang'anda 146=Msaka 147=Mwalija 514=M'bawa-Chimala 614=Chimombo

Fertility High Field \_\_\_\_\_ Plot \_\_\_\_\_

B1- Plot Name \_\_\_\_\_

lat- Plot Latitude	S						
long- Plot Longitude	E						

B3 – Enumerator, Which image best represents the slope of this plot? (See visual aid)	
B90- How were crops mixed on this field (1=Monocrop; 2=Intercrop; 3=Strip intercrops)	

FP19- EXCLUDING UREA AND NPK - How much other fertilizer was applied to this plot? If other fertilizer was not applied, enter "0" for QTY and skip to F03a) (See unit codes below)	FP19-QTY	
	FP20-UNITS	
FP23- (If FP19=0, skip to F03a) What was the name of the "other fertilizer"?		
FP23i- When was other fertilizer application finished? (1=Jan; 2=Feb;... 11=Nov; 12=Dec)	Month	
	Week	

**Enumerator – Please ask the following for all crop types (not just those included in yield cuts)**  
**IMPORTANT – MAKE SURE YOU ASK ABOUT MAIN CROP AND INTERCROPS (DO NOT JUST RELY ON THE MAP). This will serve as confirmation that we successfully captured these important crops during the mid-season survey.**

F03a- What is the main crop planted for the 2017 (current) harvest? (See codes below)	
F03a2- Has the main crop been completely harvested? (1=Yes; 2=No)	
F03a3- What is or will be the total main crop quantity harvested?	QTY
	UNITS
Were measured units shelled or unshelled? (0=NA; 1=shelled; 2=unshelled)	SHELL
F03b- What is the primary intercrop planted for the 2017 (current) harvest? (See codes–Enter "0" if none)	
F03b2- Has the primary intercrop been completely harvested? (1=Yes; 2=No)	
F03b3- What is or will be the total primary intercrop quantity harvested?	QTY
	UNITS
Were measured units shelled or unshelled? (0=NA; 1=shelled; 2=unshelled)	SHELL
F03c- What is the second intercrop planted for the 2017 (current) harvest? (See codes–Enter "0" if none)	
F03c2- Has the second intercrop been completely harvested? (1=Yes; 2=No)	
F03c3- What is or will be the total second intercrop quantity harvested?	QTY
	UNITS
Were measured units shelled or unshelled? (0=NA; 1=shelled; 2=unshelled)	SHELL

<b>Crop codes:</b> <b>0 = None</b> 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 <b>20=Fallow</b> <b>21=Finger millet</b> 87=Virgin land 89=Used/owned by another farmer 99=Other (Specify)_____	<b>Unit codes</b> 1=kg 2=25 kg sacks 3=50 kg sacks 4=20L bucket 5=5L pail 6=Ndiwo plate (about 0.5 kg) 7=Nsima plate (about 1 kg) 8=18L Bucket 9=15L Bucket 10=10L pail 11=Ox cart 12=Bunches 13=Heads/In total 99=Other (specify)
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Fertility High Field \_\_\_\_\_ Plot \_\_\_\_\_

*Enumerator – Please identify three fairly evenly spaced locations (call these A, B & C) across the diagonal of the plot, avoiding borders.*

*If the plot has been partially harvested, take locations in the areas that have not been harvested.*

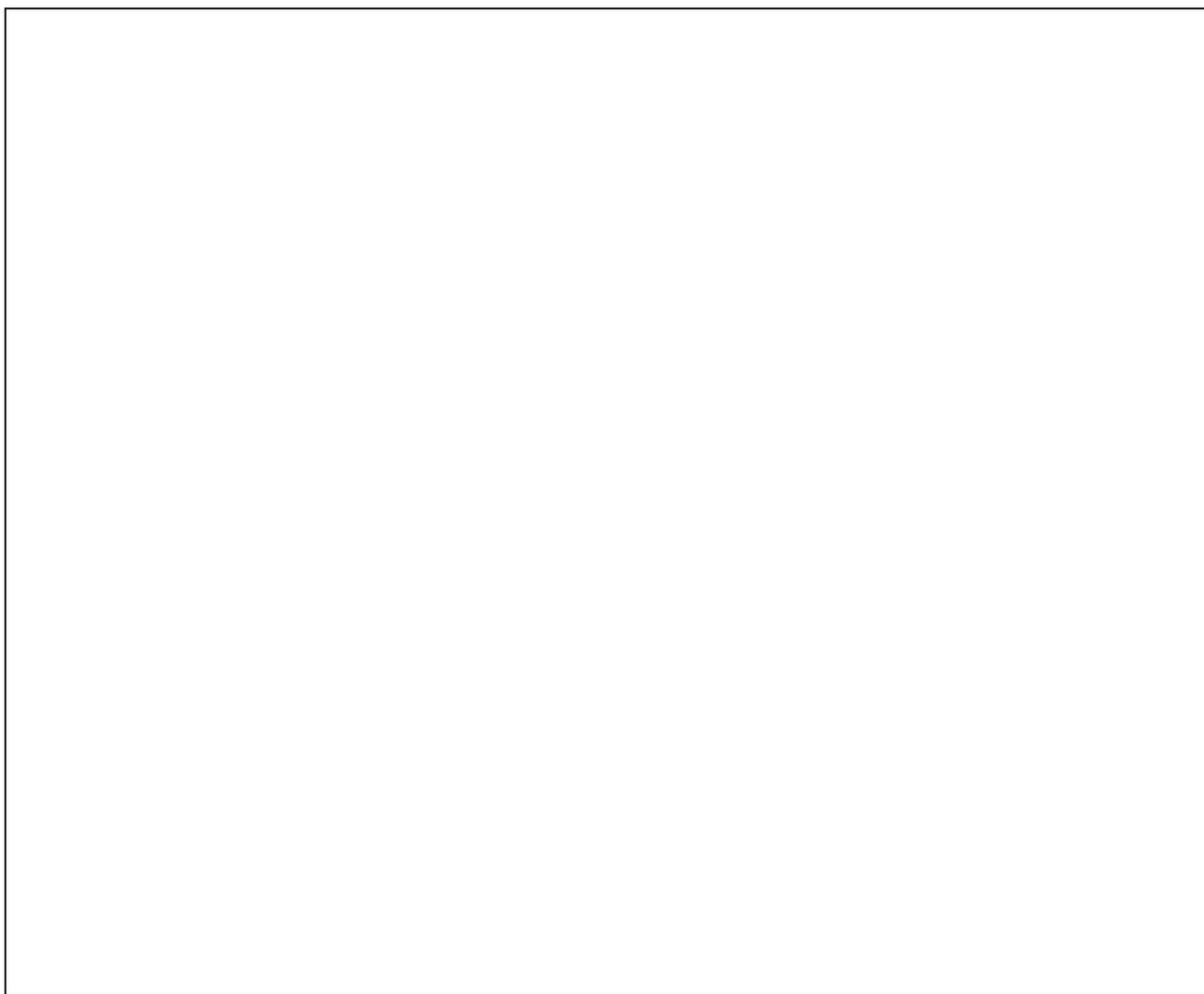
***Roughly illustrate the plot in the space provided below. In the illustration, please show:***

*Whether plot is fertilized (“F”) or unfertilized (“UF”)*

*Area where the **main crop** has been **harvested** indicated by **hash lines (#)***

***Describe the crop pattern in the notes section, or using the illustration if that is helpful***

*Label locations “A”, “B”, and “C”*



***Enumerator notes:***

Fertility High Field \_\_\_\_\_ Plot \_\_\_\_\_

**Enumerator – Please answer each of the following questions for locations A, B & C**

**If a question cannot be answered, indicate why with the following codes:**

- 7=strip cropping (intercrops not present at this location)
- 8= crop has been harvested and shelled or harvested and removed from the household
- 9=crop is not ready to be harvested

	Location A	Location B	Location C
C2- What is the <b>spacing between ridges</b> (center-to-center) in <b>centimeters</b> ?			
C90- How were crops mixed at this location? (1=Monocrop; 2=Intercrop; 3= Strip crop)			
<b>Enumerator note – The main crop is (transfer F03a) _____</b>	Location A	Location B	Location C
<b>Main crop yield cuts (These question apply only to the crop in F03a):</b>			
D5i- If the main crop was/is <b>maize</b> (F03a=1, 2 or 3) how many plants were standing in the <b>2-ridge X 2-meter</b> area in this location? (If F03a>3, skip to E3i)			
D6ai- What was/is the total <b>number of cobs</b> that have been/ will be harvested in this <b>2-ridge X 2-meter</b> area in this location?			
D6bi- What is the <b>weight of all of the unshelled cobs</b> that were harvested from <b>Location B?</b> + (If this cannot be done, use codes above)			
D8i- Weigh and remove a sample of three <b>(3) cobs</b> to measure grain moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
D8i_moisture- Record <b>initial moisture</b> reading here:			
D8i_dryweight- Record <b>dry weight</b> here:			
D8i_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E3i- If the main crop was/is a <b>legume</b> (F03a is within 6-12), how many plants were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the [6>F03a>12], skip to E10i)			
E4ai- What was/is the total <b>number of pods</b> that have been/will be harvested in a <b>1-ridge X 2-meter</b> area? (If this cannot be done, use codes above)			
E4bi- What is the <b>weight of all of the unshelled pods</b> that were harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
E6i- Take a sample of nine <b>(9) pods, shelled</b> , to measure moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
E6i_moisture- Record <b>initial moisture</b> reading here:			
E6i_dryweight- Record <b>dry weight</b> here:			
E6i_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E10i- If the <b>main crop</b> was neither maize nor legume (F03a is 4,5, or within 13-19, or 99), <b>how many plants</b> were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the main crop was maize or a legume, skip to the primary intercrop yield cut table)			
<b>Enumerator note – The primary intercrop is (transfer F03b) _____</b>	Location A	Location B	Location C
<b>Primary intercrop crop yield cuts (These question apply only to the crop in F03b):</b>			
D5ii- If the primary intercrop was/is <b>maize</b> (F03b=1, 2 or 3) how many plants were standing in the <b>2-ridge X 2-meter</b> area in this location? (If F03b>3, skip to E3ii)			
D6aii- What was/is the total <b>number of cobs</b> that have been/ will be harvested in this <b>2-ridge X 2-meter</b> area in this location?			
D6bii- What is the <b>weight of all of the unshelled cobs</b> to be harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
D8ii- Weigh and remove a sample of three <b>(3) cobs</b> to measure grain moisture later (Place a <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
D8ii_moisture- Record <b>initial moisture</b> reading here:			
D8ii_dryweight- Record <b>dry weight</b> here:			
D8ii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			

Fertility High Field \_\_\_\_\_ Plot \_\_\_\_\_

**Enumerator – Please answer each of the following questions for locations A, B & C**  
**If a question cannot be answered, indicate why with the following codes:**

- 7=strip cropping (intercrops not present at this location)
- 8= crop has been harvested and shelled or harvested and removed from the household
- 9=crop is not ready to be harvested

	Location A	Location B	Location C
E3ii If the primary intercrop was/is a <b>legume</b> (F03b is within 6-12), how many plants were standing in the <b>1-ridge X 2-meter</b> area (If the [6>F03b>12], skip to E10i)			
E4aii- What was/is the total <b>number of pods</b> that have been/will be harvested in a <b>1-ridge X 2-meter</b> area? (If this cannot be done, use codes above)			
E4bii- What is the <b>weight of all of the unshelled pods</b> that were harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
E6ii- Take a sample of nine ( <b>9</b> ) <b>Pods, shelled</b> , to measure moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
E6ii_moisture- Record <b>initial moisture</b> reading here:			
E6ii_dryweight- Record <b>dry weight</b> here:			
E6ii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E10ii- If the primary intercrop was neither maize nor legume (F03a is 4,5, or within 13-19, or 99), <b>how many plants</b> were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the main crop <u>was</u> maize or a legume, skip to the primary intercrop yield cut table)			

**Enumerator note – The second intercrop is (transfer F03c) \_\_\_\_\_**  
**Second intercrop yield cuts** (These question apply only to the crop in F03c):

	Location A	Location B	Location C
D5iii- If the second intercrop was/is <b>maize</b> (F03c=1, 2 or 3) how many plants were standing in the <b>2-ridge X 2-meter</b> area in this location? (If F03c>3, skip to E3iii)			
D6aiii- What was/is the total <b>number of cobs</b> that have been/ will be harvested in this <b>2-ridge X 2-meter</b> area in this location?			
D6biii- What is the <b>weight of all of the unshelled cobs</b> to be harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
D8iii- Weigh and remove a sample of three ( <b>3</b> ) <b>cobs</b> to measure grain moisture later (Place a <b>label</b> from the back page in a plastic bag inside sample <b>and record weight here</b> )			
D8iii_moisture- Record <b>initial moisture</b> reading here:			
D8iii_dryweight- Record <b>dry weight</b> here:			
D8iii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E3iii If the second intercrop was/is a <b>legume</b> (F03c is within 6-12), how many plants were standing in the <b>1-ridge X 2-meter</b> area? (If the [6>F03c>12], skip to E10ii)			
E4aiii- What was/is the total <b>number of pods</b> that have been/will be harvested in a <b>1-ridge X 2-meter</b> area? (If this cannot be done, use codes above)			
E4biii- What is the <b>weight of all of the unshelled pods</b> that were harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
E6iii- Take a sample of nine ( <b>9</b> ) <b>Pods, shelled</b> , to measure moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
E6iii_moisture- Record <b>initial moisture</b> reading here:			
E6iii_dryweight- Record <b>dry weight</b> here:			
E6iii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E10iii- If the second intercrop was neither maize nor legume (F03a is 4,5, or within 13-19, or 99), <b>how many plants</b> were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the main crop <u>was</u> maize or a legume, skip to the primary intercrop yield cut table)			

Fertility High

Field \_\_\_\_\_

Plot \_\_\_\_\_

**Enumerator – The following questions only apply to the period since the last visit from Africa RISING**

How many complete weedings have been done <i>since the last Africa RISING survey</i> ?			
<b>When was the first weeding since our last visit completed?</b> <i>(Leave blank if there were 0 weedings)</i> <b>Type of first weeding?</b>	<i>(Use month codes)</i>	<b>Month</b>	
	<i>(Week=1, 2, 3 or 4)</i>	<b>Week</b>	
	<i>(1=pulling plants; 2=banking; 3=scraping)</i>	<b>Type</b>	
<b>When was the second weeding since our last visit completed?</b> <i>(Leave blank if there were 0 weedings)</i> <b>Type of first weeding?</b>	<i>(Use month codes)</i>	<b>Month</b>	
	<i>(Week=1, 2, 3 or 4)</i>	<b>Week</b>	
	<i>(1=pulling plants; 2=banking; 3=scraping)</i>	<b>Type</b>	

**Recent labor on HIGH fertility field (represented plot)**

	How many hh members under 16 provide labor for _____? <i>If LAB01=0 skip to LAB03</i>	How many days did hh members under 16 provide labor for _____? <i>If LAB03=0 skip to LAB05</i>	How many hh MEN 16 - 70 years provide labor for _____? <i>If LAB05=0 skip to LAB07</i>	How many days did hh MEN 16 - 70 years provide labor for _____? <i>If LAB07=0 skip to LAB09</i>	How many hh WOMEN 16 - 70 years provide labor for _____? <i>If LAB09=0 skip to LAB11</i>	How many days did hh WOMEN 16 - 70 years provide labor for _____? <i>If LAB11=0 skip to LAB12</i>	How many members over 70 provide labor for _____?	How many days did hh members over 70 provide labor for _____?	How many MEN were hired to provide labor for _____? <i>If LAB09=0 skip to LAB11</i>	How many days did hired MEN provide labor for _____?	How many WOMEN were hired to provide labor for _____? <i>If LAB11=0 skip to LAB12</i>	How many days did hired WOMEN provide labor for _____?
LAB_Activity	LAB01	LAB02	LAB03	LAB04	LAB05	LAB06	LAB07	LAB08	LAB09	LAB10	LAB11	LAB12
6=Weeding <i>(First weeding)</i>												
6b=Weeding <i>(Second weeding)</i>												
7=Harvesting												

Fertility Low Field \_\_\_\_\_ Plot \_\_\_\_\_

B1- Plot Name \_\_\_\_\_

lat- Plot Latitude	S						
long- Plot Longitude	E						

B3 – Enumerator, Which image best represents the slope of this plot? (See visual aid)	
B90- How were crops mixed on this field (1=Monocrop; 2=Intercrop; 3=Strip intercrops)	

FP19- EXCLUDING UREA AND NPK - How much other fertilizer was applied to this plot? <i>If other fertilizer was not applied, enter "0" for QTY and skip to B3) (See unit codes below)</i>	FP19-QTY	
FP23- (If FP19=0, skip to B3) What was the name of the "other fertilizer"?	FP20-UNITS	
FP23i- When was other fertilizer application finished? (1=Jan; 2=Feb;... 11=Nov; 12=Dec)	Month	
(For weeks enter 1, 2, 3 or 4)	Week	

**Enumerator – Please ask the following for all crop types (not just those included in yield cuts)**

**IMPORTANT – MAKE SURE YOU ASK ABOUT MAIN CROP AND INTERCROPS (DO NOT JUST RELY ON THE MAP). This will serve as confirmation that we successfully captured these important crops during the mid-season survey**

F03a- What is the main crop planted for the 2017 (current) harvest? (See codes below)	
F03a2- Has the main crop been completely harvested? (1=Yes; 2=No)	
F03a3- What is or will be the total main crop quantity harvested?	QTY
Were measured units shelled or unshelled? (0=NA; 1=shelled; 2=unshelled)	UNITS
	SHELL
F03b- What is the primary intercrop planted for the 2017 (current) harvest? (See codes–Enter "0" if none)	
F03b2- Has the primary intercrop been completely harvested? (1=Yes; 2=No)	
F03b3- What is or will be the total primary intercrop quantity harvested?	QTY
Were measured units shelled or unshelled? (0=NA; 1=shelled; 2=unshelled)	UNITS
	SHELL
F03c- What is the second intercrop planted for the 2017 (current) harvest? (See codes–Enter "0" if none)	
F03c2- Has the second intercrop been completely harvested? (1=Yes; 2=No)	
F03c3- What is or will be the total second intercrop quantity harvested?	QTY
Were measured units shelled or unshelled? (0=NA; 1=shelled; 2=unshelled)	UNITS
	SHELL

<b>Crop codes:</b> 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 <b>20=Fallow</b> 87=Virgin land 89=Used/owned by another farmer 99=Other (Specify) _____	<b>Unit codes</b> 1=kg 2=25 kg sacks 3=50 kg sacks 4=20L bucket 5=5L pail 6=Ndiwo plate (about 0.5 kg) 7=Nsima plate (about 1 kg) 8=18L Bucket 9=15L Bucket 10=10L pail 11=Ox cart 12=Bunches 13=Heads/In total 99=Other (specify)
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Africa RISING Machinga, Malawi Harvest Survey – April 2018 HHID \_\_\_\_\_

Fertility Low Field \_\_\_\_\_ Plot \_\_\_\_\_

**Enumerator – Please identify three fairly evenly spaced locations (call these A, B & C) across the diagonal of the plot, avoiding borders.**

*If the plot has been partially harvested, take locations in the areas that have not been harvested.*

**Roughly illustrate the plot in the space provided below. In the illustration, please show:**

*Whether plot is fertilized (“F”) or unfertilized (“UF”)*

*Area where the **main crop** has been **harvested** indicated by **hash lines (#)***

**Describe the crop pattern in the notes section, or using the illustration if that is helpful**

*Label locations “A”, “B”, and “C”*



**Enumerator notes:**

Fertility Low Field \_\_\_\_\_ Plot \_\_\_\_\_

Enumerator – Please answer each of the following questions for locations A, B & C

If a question cannot be answered, indicate why with the following codes:

-7=strip cropping (intercrops not present at this location)

-8=crop has been harvested and shelled or harvested and removed from the household

-9=crop is not ready to be harvested

	Location A	Location B	Location C
C2- What is the <b>spacing between ridges</b> (center-to-center) in <i>centimeters</i> ?			
C90- How were crops mixed at this location? (1=Monocrop; 2=Intercrop; 3= Strip crop)			

Enumerator note – The main crop is (transfer F03a) _____ Main crop yield cuts (These question apply only to the crop in F03a):	Location A	Location B	Location C
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D5i- If the main crop was/is <b>maize</b> (F03a=1, 2 or 3) how many plants were standing in the <b>2-ridge X 2-meter</b> area in this location? (If F03a>3, skip to E3i)			
D6ai- What was/is the total <b>number of cobs</b> that have been/ will be harvested in this <b>2-ridge X 2-meter</b> area in this location?			
D6bi- What is the <b>weight of all of the unshelled cobs</b> to be harvested from <b>Location B</b> ? (If this cannot be done, use codes above)			
D8i- Weigh and remove a sample of three ( <b>3</b> ) <b>cobs</b> to measure grain moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
D8i_moisture- Record <b>initial moisture</b> reading here:			
D8i_dryweight- Record <b>dry weight</b> here:			
D8i_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E3i- If the main crop was/is a <b>legume</b> (F03a is within 6-12), how many plants were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the [6>F03a>12], skip to E10i)			
E4ai- What was/is the total <b>number of pods</b> that have been/will be harvested in a <b>1-ridge X 2-meter</b> area? (If this cannot be done, use codes above)			
E4bi- What is the <b>weight of all of the unshelled pods</b> that were harvested from <b>Location B</b> ? (If this cannot be done, use codes above)			
E6i- Take a sample of nine ( <b>9</b> ) <b>pod, shelled</b> , to measure moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
E6i_moisture- Record <b>initial moisture</b> reading here:			
E6i_dryweight- Record <b>dry weight</b> here:			
E6i_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E10i- If the <b>main crop</b> was neither maize nor legume (F03a is 4,5, or within 13-19, or 99), <b>how many plants</b> were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the main crop was maize or a legume, skip to the primary intercrop yield cut table)			

Enumerator note – The primary intercrop is (transfer F03b) _____ Primary intercrop crop yield cuts (These question apply only to the crop in F03b):	Location A	Location B	Location C
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D5ii- If the primary intercrop was/is <b>maize</b> (F03b=1, 2 or 3) how many plants were standing in the <b>2-ridge X 2-meter</b> area in this location? (If F03b>3, skip to E3ii)			
D6aii- What was/is the total <b>number of cobs</b> that have been/ will be harvested in this <b>2-ridge X 2-meter</b> area in this location?			
D6bii- What is the <b>weight of all of the unshelled cobs</b> to be harvested from <b>Location B</b> ? (If this cannot be done, use codes above)			
D8ii- Weigh and remove a sample of three ( <b>3</b> ) <b>cobs</b> to measure grain moisture later (Place a <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
D8ii_moisture- Record <b>initial moisture</b> reading here:			
D8ii_dryweight- Record <b>dry weight</b> here:			
D8ii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			

Fertility Low Field \_\_\_\_\_ Plot \_\_\_\_\_

Enumerator – Please answer each of the following questions for locations A, B & C

**Africa RISING Machinga, Malawi Harvest Survey – April 2018 HHID \_\_\_\_\_**

*If a question cannot be answered, indicate why with the following codes:*

-7=strip cropping (intercrops not present at this location)

-8= crop has been harvested and shelled or harvested and removed from the household

-9=crop is not ready to be harvested

E3ii If the primary intercrop was/is a <b>legume</b> (F03b is within 6-12), how many plants were standing in the <b>1-ridge X 2-meter</b> area? (If the [6>F03b>12], skip to E10ii)			
E4aii- What was/is the total <b>number of pods</b> that have been/will be harvested in a <b>1-ridge X 2-meter</b> area? (If this cannot be done, use codes above)			
E4bii- What is the <b>weight of all of the unshelled pods</b> that were harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
E6ii- Take a sample of nine ( <b>9</b> ) <b>pods, shelled</b> , to measure moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
E6ii_moisture- Record <b>initial moisture</b> reading here:			
E6ii_dryweight- Record <b>dry weight</b> here:			
E6ii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
	Location A	Location B	Location C
E10ii- If the primary intercrop was neither maize nor legume (F03a is 4,5, or within 13-19, or 99), <b>how many plants</b> were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the main crop <u>was</u> maize or a legume, skip to the primary intercrop yield cut table)			

**Enumerator note – The second intercrop is (transfer F03c) \_\_\_\_\_**

**Second intercrop crop yield cuts** (These question apply only to the crop in F03c):

	Location A	Location B	Location C
D5iii- If the second intercrop was/is <b>maize</b> (F03c=1, 2 or 3) how many plants were standing in the <b>2-ridge X 2-meter</b> area in this location? (If F03c>3, skip to E3iii)			
D6aiii- What was/is the total <b>number of cobs</b> that have been/ will be harvested in this <b>2-ridge X 2-meter</b> area in this location?			
D6b10iii- What is the <b>weight of all of the unshelled cobs</b> to be harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
D8iii- Weigh and remove a sample of three ( <b>3</b> ) <b>cobs</b> to measure grain moisture later (Place a <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
D8iii_moisture- Record <b>initial moisture</b> reading here:			
D8iii_dryweight- Record <b>dry weight</b> here:			
D8iii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E3iii If the second intercrop was/is a <b>legume</b> (F03c is within 6-12), how many plants were standing in the <b>1-ridge X 2-meter</b> area? (If the [6>F03c>12], skip to E10iii)			
E4aiii- What was/is the total <b>number of pods</b> that have been/will be harvested in a <b>1-ridge X 2-meter</b> area? (If this cannot be done, use codes above)			
E4biii- What is the <b>weight of all of the unshelled pods</b> that were harvested from <b>Location B?</b> (If this cannot be done, use codes above)			
E6iii- Take a sample of nine ( <b>9</b> ) <b>pods, shelled</b> , to measure moisture later (Place <b>label</b> from the back page in a plastic bag inside sample and <b>record weight here</b> )			
E6iii_moisture- Record <b>initial moisture</b> reading here:			
E6iii_dryweight- Record <b>dry weight</b> here:			
E6iii_drymoisture- Record <b>moisture</b> reading <b>after drying</b> here:			
E10iii- If the second intercrop was neither maize nor legume (F03a is 4,5, or within 13-19, or 99), <b>how many plants</b> were standing in the <b>1-ridge X 2-meter</b> area in this location? (If the main crop <u>was</u> maize or a legume, skip to the primary intercrop yield cut table)			

Fertility Low Field \_\_\_\_\_ Plot \_\_\_\_\_

**Enumerator – The following questions only apply to the period since the last visit from Africa RISING**

How many complete weeding have been done <i>since the last Africa RISING survey</i> ?		
<b>When was the first weeding since our last visit completed?</b> <i>(Leave blank if there were 0 weeding)</i> <b>Type of first weeding?</b>	(Use month codes)	<b>Month</b>
	(Week=1, 2, 3 or 4)	<b>Week</b>
	(1=pulling plants; 2=banking; 3=scraping)	<b>Type</b>
<b>When was the second weeding since our last visit completed?</b> <i>(Leave blank if there were 0 weeding)</i> <b>Type of first weeding?</b>	(Use month codes)	<b>Month</b>
	(Week=1, 2, 3 or 4)	<b>Week</b>
	(1=pulling plants; 2=banking; 3=scraping)	<b>Type</b>

**Recent labor on LOW fertility field (represented plot)**

	How many hh member s under 16 provide labor for _____? <i>If LAB01=0 skip to LAB03</i>	How many hh member s under 16 provide labor for _____? <i>If LAB03=0 skip to LAB05</i>	How many hh MEN 16 - 70 years provide labor for _____? <i>If LAB05=0 skip to LAB07</i>	How many hh MEN 16 - 70 years provide labor for _____? <i>If LAB07=0 skip to LAB09</i>	How many hh MEN 16 - 70 years provide labor for _____? <i>If LAB09=0 skip to LAB11</i>	How many hh member s over 70 provide labor for _____? <i>If LAB11=0 skip LAB12</i>	How many days did hired MEN provide labor for _____?	How many days did hired MEN provide labor for _____?	How many days did hired MEN provide labor for _____?	How many days did hired WOMEN provide labor for _____?	How many days did hired WOMEN provide labor for _____?	
LAB_Activity	LAB01	LAB02	LAB03	LAB04	LAB05	LAB06	LAB07	LAB08	LAB09	LAB10	LAB11	LAB12
6=Weeding <i>(First weeding)</i>												
6b=Weeding <i>(Second weeding)</i>												
7=Harvesting												

**Hunger and Food Security**

**Enumerator** – please explain that the following page of questions is aimed at learning more about the hunger and food security of the household.

The first question (HFS01) is in regards to the previous harvest (not the crops currently/recently harvested).

<b>HFS01</b> In what month did your stored supplies of last year's (2016-2017) maize crop run out? (1=January; 2=February...12=December)	
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The second set of questions is in regards to the past 12 months

Did any household members go a <b>full day without food</b> during ___? (1=Yes (hungry); 2=No)	
<b>Month</b>	<b>HFS02</b>
11= April 2017	
12= May 2017	
1= June 2017	
2= July 2017	
3= August 2017	
4= September 2017	
5= October 2017	
6= November 2017	
7= December 2017	
8= January 2018	
9= February 2018	
10 = March 2018	

**Household Hunger Scale**

**Enumerator**, This set of questions (HHS) is specific to the **past month (4 weeks/30 days)**.

<b>HHS01.</b> In the past 4-weeks/30 days, <b>was there ever no food</b> to eat of any kind in the house because of lack of resources to get food?	1=Yes 2=No <b>IF NO, skip to HHS02</b>	
<b>HHS01a.</b> How often did this happen in the past 4-weeks/30 days?	1=Rarely (1-2 times) 2=Sometimes (3-10 times) 3=Often (More than 10 times)	
<b>HHS02.</b> In the past 4-weeks/30 days, did you or any household member <b>go to sleep at night hungry</b> because there was not enough food?	1=Yes 2=No <b>IF NO, skip to HHS03</b>	
<b>HHS02a.</b> How often did this happen in the past 4-weeks/30 days?	1=Rarely (1-2 times) 2=Sometimes (3-10 times) 3=Often (More than 10 times)	
<b>HHS03.</b> In the past 4-weeks/30 days, did you or any household member <b>go a whole day and night without eating</b> anything at all because there was not enough food?	1=Yes 2=No <b>IF NO, skip to HH19</b>	
<b>HHS03a.</b> How often did this happen in the past 4-weeks/30 days?	1=Rarely (1-2 times) 2=Sometimes (3-10 times) 3=Often (More than 10 times)	

**Maize Storage**

<b>HH19</b> Where was your <b>primary storage for maize</b> from the 2018 harvest? <b>See codes</b>	
<b>HH20</b> What methods do you plan use to control pests in stored grain? (See codes below)	
<b>HH19 Codes:</b> 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 11=Commercial 88=Did not store 99=Other (specify)_____	<b>HH20 Codes:</b> 0=None 1=Pesticide 2=Ash 3=Tephrosia 99=Other (Specify)

NV4 Did you or anyone in the household sell/plan to sell any field crops from the 2018 harvest? 1=Yes; 2= No **If No Skip to NEXT PAGE**

**Crop sales – Enumerator**, list **each crop** the household has sold, or plans to sell from the 2018 harvest (NOTE – Field crops only - do not include fruits & vegetables)

Crop	What is the <b>total quantity sold</b> (or planned to sell) from the 2018 harvest		<b>Enumerator</b> – Ask the remaining questions about the <b>LARGEST COMPLETED TRANSACTION</b> in terms of quantity sold. <b>If more than one sale is the same size as the largest sale, ask about the earliest sale.</b>																
	Qty CS01	Unit CS02	What <b>quantity</b> was or will be <b>sold</b> during the <b>largest transaction?</b>	What <b>price</b> did you (or do you expect to) receive during the <b>largest transaction?</b> (MWK)	To <b>whom</b> did you (or do you expect to) sell for the <b>largest sale?</b>  <b>See codes</b>	<b>Where</b> was the <b>crop exchange</b> made for <b>largest sale</b> (or where do you expect it to be)?  <b>See codes</b>	How far from the house <b>to</b> the point of the <b>crop exchange</b> for largest sale? (km)	How much did you (or do you expect to) pay <b>in total</b> to <b>transport</b> the crop to the point of exchange (MWK)	<b>When</b> was (or will be) the timing for the largest transaction?  (Code 1-12 for month)  (Code 1-4 for week)	CS03	CS04	CS05	CS06	CS07	CS08	CS09	CS10	CS11 Month	CS12 Week

<b>Crop codes:</b> 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)_____	<b>Units:</b> 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)	<b>Buyer codes (CS07)</b> 1=Other household 2=Small trader 3=Large trader 4=Admarc 5=Other (Specify)_____	<b>Exchange location codes (CS08)</b> 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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<p><b>Machinga Harvest Survey – April 2018</b></p> <p>HHID _____</p> <p>Fertility (H/L/N) _____</p> <p>Crop code _____</p> <p><b>Tick one and circle:</b>                      Main crop.....                      Primary intercrop.....                      Second intercrop.....</p>	<p><b>Machinga Harvest Survey – April 2018</b></p> <p>HHID _____</p> <p>Fertility (H/L/N) _____</p> <p>Crop code _____</p> <p><b>Tick one and circle:</b>                      Main crop.....                      Primary intercrop.....                      Second intercrop.....</p>
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