Africa RISING Central Malawi Yield Cut Survey – April 2017

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. [Indicate the respondent's indication that they do not agree to participate in the survey. Notify your supervisor at the end of the day.]

EPA:	**Sample:** *1=Int.; 2=LC; 3=DC*		**A3-Enumerated by:**
Village: **A1-Household ID**	**A2-Date** _____/_____/2017		**Checked by:**
			Data entry by:
A4-Name of household head		**A5-Name of respondent**	
NV0-When was the first rains in the area? *(1=Jan; 2=Feb…; 11=Nov; 12=Dec)*		**Month**	
(For weeks enter 1, 2, 3 or 4)		**Week**	

EPA Codes	2=Golomoti	4=Nsipe		
1=Linthipe	3=Kandeu	5=Mtakataka		
Village Codes				
1=Mkuwazi	7=Dauka		11=Wilson	17=Gonthi
2=Mbidzi	8=Katsese		12=Pitala	18=Kampanje
3=Msamala	9=Chawa		13=Kakhome	19=Hauya
4=Kalumo	(Simenti, Chinthu, Zilionge, Mbalame)		14=Chikawola	20=Kahowela
5=Amosi (Hiwa)	10=Kabango		15=Sitolo (Chidika)	21=Malinda
6=Nzililongwe	(Kaupsa, Kaputeni, Kasakula, Malata, Chilenga, Matewera)		16=Sukasuka	22=Njolomole

Africa RISING Central Malawi Yield Cut Survey – April 2017

Fertility HIGH   **B1- Plot Name_____**

lat- **Plot Latitude**	S			.				
long- **Plot Longitude**	E			.				

Area1- What is the **total** area of this plot? *(Meters squared, as measured using the GPS unit)*	
Area2- What is the **fertilized** area of this plot? *(Meters squared, as measured using the GPS unit)* ***If NONE of this plot was fertilized, enter "0"***	
FP05- Were **herbicides** used on this plot during the 2016/2017 season? *(1=Yes; 2=No)*	
If FP05=2 (No), skip to FP06 FP05_spec – What **type of herbicide** was used (Specify)	
FP06- Were **pesticides** used on this plot during the 2016/2017 season? *(1=Yes; 2=No)*	

FP07- How much **NPK** *(23:21:0+4S)* was **applied** to this plot?	FP07-**QTY**		
If NPK was not applied, enter "0" for QTY and skip to FP10 *(See unit codes below)*	FP08-**UNITS**		
FP10- How much **Urea** was **applied** to this plot?	FP10-**QTY**		
If Urea was not applied, enter "0" for QTY and skip to FP13) *(See unit codes below)*	FP11-**UNITS**		
FP13- How much **compost** was **applied** to this plot?	FP13-**QTY**		
If compost was not applied, enter "0" for QTY and skip to FP16) *(See unit codes below)*	FP14-**UNITS**		
FP16- How much **manure** was **applied** to this plot?	FP16-**QTY**		
If manure was not applied, enter "0" for QTY and skip to B3) *(See unit codes below)*	FP17-**UNITS**		

FP00 – Was this plot **rented** out to another farmer? *(1=Yes; 2=No)*	
B3 – ***Enumerator, Which image best represents the slope of this plot?*** *(See visual aid)*	

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

F03a- What is the **main crop** planted for the 2017 (current) harvest? *(See codes below)*		
NV1-When did **main crop** planting start? *(1=Jan; 2=Feb; 3=Mar…; 11=Nov; 12=Dec)*	**Month**	
(For weeks enter 1, 2, 3 or 4)	**Week**	
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	
F03b- What is the **primary intercrop** planted for the 2017 (current) harvest? *(See codes)*		
NV2-When did **primary intercrop** planting start? *(1=Jan; 2=Feb; 3=Mar…; 11=Nov; 12=Dec)*	**Month**	
(For weeks enter 1, 2, 3 or 4)	**Week**	
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	
F03c- What is the **second intercrop** planted for the 2017 (current) harvest? *(See codes)*		
NV3-When did **second intercrop** planting start? *(1=Jan; 2=Feb; 3=Mar…; 11=Nov; 12=Dec)*	**Month**	
(For weeks enter 1, 2, 3 or 4)	**Week**	
F03c2- Has the **second intercrop** been completely harvested? *(1=Yes; 2=No)*		
F03a3- What is or will be the total **second intercrop** quantity harvested?	**QTY**	
	UNITS	

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
			 89=Used/owned by 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 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)

Fertility __HIGH__

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 fertilized, locate take locations in the areas that <u>have</u> been fertilized. If the plot has been partially harvested, take locations in the areas that have <u>not</u> been harvested.

If the plot is partially fertilized, and all of the fertilized area has been harvested, take locations in the un-harvested areas (even if they have not been fertilized.
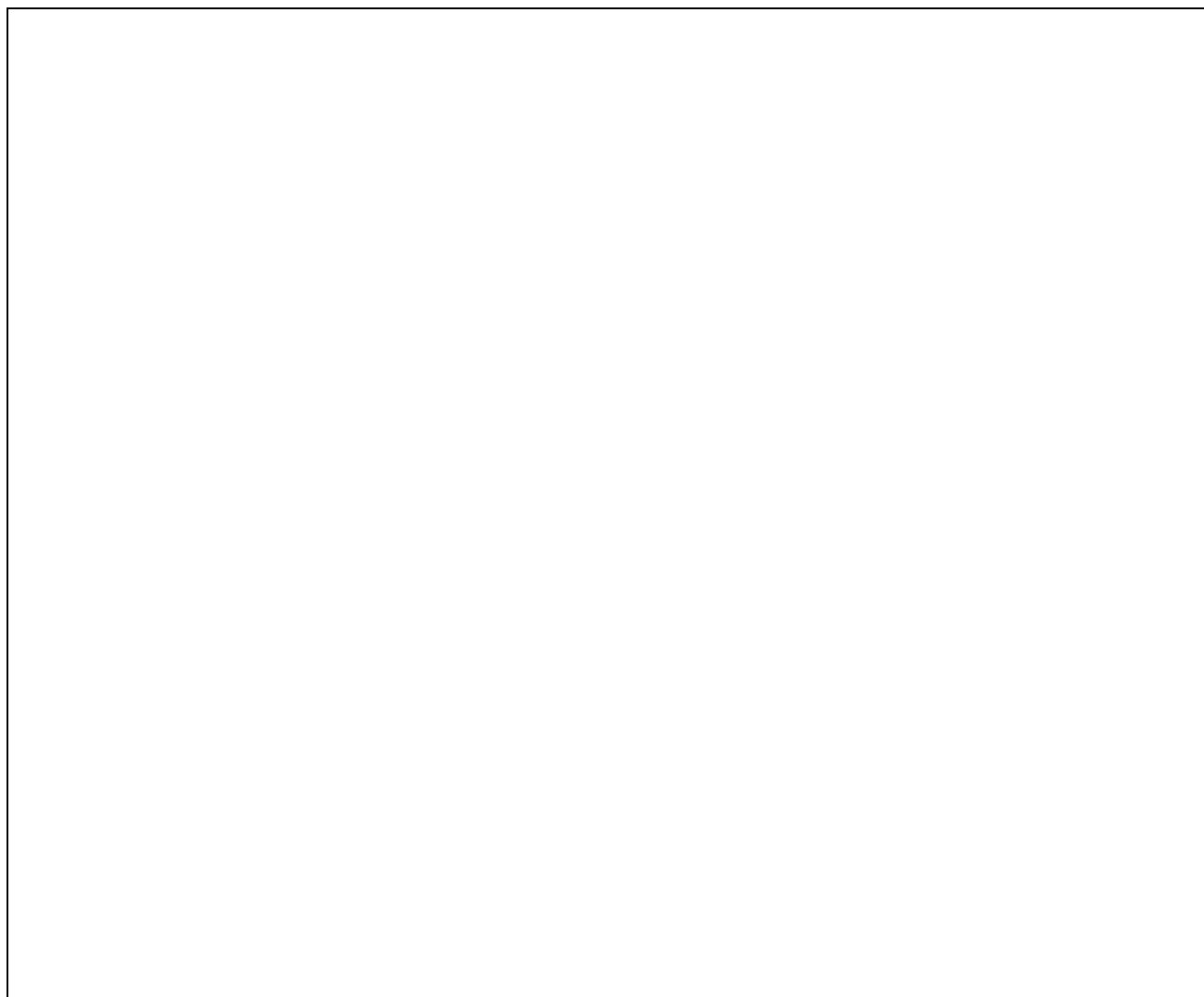
Roughly illustrate the plot in the space provided below. In the illustration, please show:

*Fertilized area indicated with a "**F**"*
*Unfertilized area indicated with "**UF**"*
*Harvested area indicated by **hashed lines***
*Label locations "**A**", "**B**", and "**C**"*

Enumerator notes:

HHID_____

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

Fertility __HIGH__

	Location A	Location B	Location C
C00-Has this **location** been **fertilized**? *(1=Yes; 2=No)*			
C2- What is the **spacing between ridges** (center-to-center) in *centimeters*?			

Enumerator note – The main crop is_____ **Main crop yield cuts***(These question apply only to the crop in F03a):*	**Location A**	**Location B**	**Location C**
D5i- **If** the main crop was/is **maize** (*F03a=1, 2 or 3*) how many plants were standing in the **2-ridge X 2-meter** area in this location? *(If the main crop was not maize, skip to E3i)*			
D6ai- What was/is the total **number of maize cobs** harvested in a **2-ridges X 2-meter** area in this location?			
D6bi- What is the **weight of the cobs** harvested in this **2-ridge X 2-meter** area in this location? *(If the maize is not ready to harvest, skip to E3i)*			
D8i- Take a sample of three **(3) cobs** to measure grain moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E3i **If** the main crop was/is a **legume** (*F03a is within 6-12, inclusive*), how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the main crop was not a legume, skip to E10i)*			
E4ai- What was/is the total **number of pods** that have been/will be harvested in a **1-ridge X 2-meter** area at this location?			
E4bi- What is the **weight of the pods** harvested in a **1-ridge X 2-meter** area at this location? *(If the legume is not ready to harvest, skip to E10i)*			
E6i- Take a sample of nine **(9) pods**, **shelled**, to measure moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E10i- If the **main crop** was neither maize nor legume *(F03a is within 13-19, inclusive, or 99)*, how many plants were standing in the **1-ridge X 2-meter** 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_____ **Primary intercrop crop yield cuts** *(These question apply only to the crop in F03b):*	**Location A**	**Location B**	**Location C**
D5ii- **If** the primary intercrop was/is **maize** (*F03b=1, 2 or 3*) how many plants were standing in the **2-ridge X 2-meter** area in this location? *(If the primary intercrop was not maize, skip to E3ii)*			
D6aii- What was/is the total **number of maize cobs** harvested in a **2-ridge X 2-meter** area in this location?			
D6bii- What is the **weight of the cobs** harvested in this **2-ridge X 2-meter** area in this location? *(If the maize is not ready to harvest, skip to E3ii)*			
D8ii- Take a sample of three **(3) cobs** to measure grain moisture *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E3ii- **If** the primary intercrop was/is a **legume** (*F03b is within 6-12, inclusive*), how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the primary intercrop was not a legume, skip to E10ii)*			
E4aii- What was/is the total **number of pods** that have been/will be harvested in a **1-ridge X 2-meter** area at this location?			
E4bii- What is the **weight of the pods** harvested in a **1-ridge X 2-meter** area at this location? *(If the legume is not ready to harvest, skip to E10ii)*			
E6ii- Take a sample of nine **(9) pods**, **shelled**, to measure moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E10ii- If the **primary intercrop** was neither maize nor legume *(F03b is within 13-19, inclusive, or 99)*, how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the primary intercrop was maize or a legume, skip to the second intercrop yield cut table)*			

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

Fertility   HIGH

Enumerator note – The second intercrop is_____ *Second intercrop crop yield cuts (These question apply only to the crop in F03b):*	Location A	Location B	Location C
D5iii- **If** the second intercrop was/is **maize** (*F03c=1, 2 or 3*) how many plants were standing in the **2-ridge X 2-meter** area in this location? *(If the second intercrop was not maize, skip to E3iii)*			
D6aiii- What was/is the total **number of maize cobs** harvested in a **2-ridge X 2-meter** area in this location?			
D6biii- What is the **weight of cobs** harvested in this **2-ridge X 2-meter** area in this location? *(If the maize is not ready to harvest, skip to E3iii)*			
D8iii- Take a sample of three **(3) cobs** to measure grain moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E3iii- **If** the second intercrop was/is a **legume** *(F03c is within 6-12, inclusive)*, how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the second intercrop was not a legume, skip to E10iii)*			
E4aiii- What was/is the total **number of pods** that have been/will be harvested in a **1-ridge X 2-meter** area at this location?			
E4biii- What is the **weight of the pods** harvested in a **1-ridge X 2-meter** area at this location? *(If the legume is not ready to harvest, skip to E10iii)*			
E6iii- Take a sample of nine (**9) pods, shelled,** to measure moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E10iii- If the **second intercrop** was neither maize nor legume *(F03c is within 13-19, inclusive, or 99)*, **how many plants** were standing in the **1-ridge X 2-meter** area in this location? *(If the second intercrop was maize or a legume, skip to the Weed Ratings section)*			

Weed Ratings	Location A	Location B	Location C
H1- Is **witch weed** present **on the ridges** in this location? *(1=Yes; 2=No)*			
H2- Overall, do **weeds** (including witch weed) cover more, the same or less area **on the ridges** than soil? *(1=less, 2=same; 3=more)*			
H5- Is **witch weed** present **in the furrow** (between ridges) in this location? *(1=Yes; 2=No)*			
H6- Overall, do **weeds** (including witch weed) cover more, the same or less area **in the furrow** than soil? *(1=less, 2=same; 3=more)*			

Enumerator – The following questions apply to the whole plot- "Weeding" refers to pulling plants, banking or scraping the soil of weeds.

How many complete weedings have been done since this plot was planted?			
1=Jan 7=Jul	**When** was the **first weeding** completed? *(Use month codes)*	**Month**	
2=Feb 8=Aug	*(For weeks enter 1, 2, 3 or 4)*	**Week**	
3=Mar 9=Sep	**Type** of first weeding? *(1=pulling plants; 2=banking; 3=scraping)*		
4=Apr 10=Oct	**When** was the **second weeding** completed? *(Use month codes)*	**Month**	
5=May 11=Nov	*(For weeks enter 1, 2, 3 or 4)*	**Week**	
6=Jun 12=Dec	**Type** of second weeding? *(1=pulling plants; 2=banking; 3=scraping)*		
	When was the **third weeding** completed? *(Use month codes)*	**Month**	
	(For weeks enter 1, 2, 3 or 4)	**Week**	
	Type of third weeding? *(1=pulling plants; 2=banking; 3=scraping)*		

Enumerator Notes:

HHID_____

Africa RISING Central Malawi Yield Cut Survey – April 2017

Fertility __LOW__   **B1- Plot Name_____**

					.					
lat- **Plot Latitude**	**S**				.					
long- **Plot Longitude**	**E**				.					

Area1- What is the **total** area of this plot? *(Meters squared, as measured using the GPS unit)*		
Area2- What is the **fertilized** area of this plot? *(Meters squared, as measured using the GPS unit)* ***If NONE of this plot was fertilized, enter "0"***		
FP05- Were **herbicides** used on this plot during the 2016/2017 season? *(1=Yes; 2=No)*		
If FP05=2 (No), skip to FP06 FP05_spec – What **type of herbicide** was used (Specify)		
FP06- Were **pesticides** used on this plot during the 2016/2017 season? *(1=Yes; 2=No)*		
FP07- How much **NPK** *(23:21:0+4S)* was **applied** to this plot?	FP07-**QTY**	
If NPK was not applied, enter "0" for QTY and skip to FP10 *(See unit codes below)*	FP08-**UNITS**	
FP10- How much **Urea** was **applied** to this plot?	FP10-**QTY**	
If Urea was not applied, enter "0" for QTY and skip to FP13) *(See unit codes below)*	FP11-**UNITS**	
FP13- How much **compost** was **applied** to this plot?	FP13-**QTY**	
If compost was not applied, enter "0" for QTY and skip to FP16) *(See unit codes below)*	FP14-**UNITS**	
FP16- How much **manure** was **applied** to this plot?	FP16-**QTY**	
If manure was not applied, enter "0" for QTY and skip to B3) *(See unit codes below)*	FP17-**UNITS**	
FP00 – Was this plot **rented** out to another farmer? *(1=Yes; 2=No)*		
B3 – ***Enumerator, Which image best represents the slope of this plot?*** *(See visual aid)*		

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

F03a- What is the **main crop** planted for the 2017 (current) harvest? *(See codes below)*		
NV1-When did **main crop** planting start? *(1=Jan; 2=Feb; 3=Mar…; 11=Nov; 12=Dec)*	**Month**	
(For weeks enter 1, 2, 3 or 4)	**Week**	
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	
F03b- What is the **primary intercrop** planted for the 2017 (current) harvest? *(See codes)*		
NV2-When did **primary intercrop** planting start? *(1=Jan; 2=Feb; 3=Mar…; 11=Nov; 12=Dec)*	**Month**	
(For weeks enter 1, 2, 3 or 4)	**Week**	
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	
F03c- What is the **second intercrop** planted for the 2017 (current) harvest? *(See codes)*		
NV3-When did **second intercrop** planting start? *(1=Jan; 2=Feb; 3=Mar…; 11=Nov; 12=Dec)*	**Month**	
(For weeks enter 1, 2, 3 or 4)	**Week**	
F03c2- Has the **second intercrop** been completely harvested? *(1=Yes; 2=No)*		
F03a3- What is or will be the total **second intercrop** quantity harvested?	**QTY**	
	UNITS	

Crop codes:
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	 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
			 89=Used/owned by 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 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)*

HHID_____

Fertility <u>__LOW__</u>

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 fertilized, locate take locations in the areas that <u>have</u> been fertilized.   If the plot has been partially harvested, take locations in the areas that have <u>not</u> been harvested.

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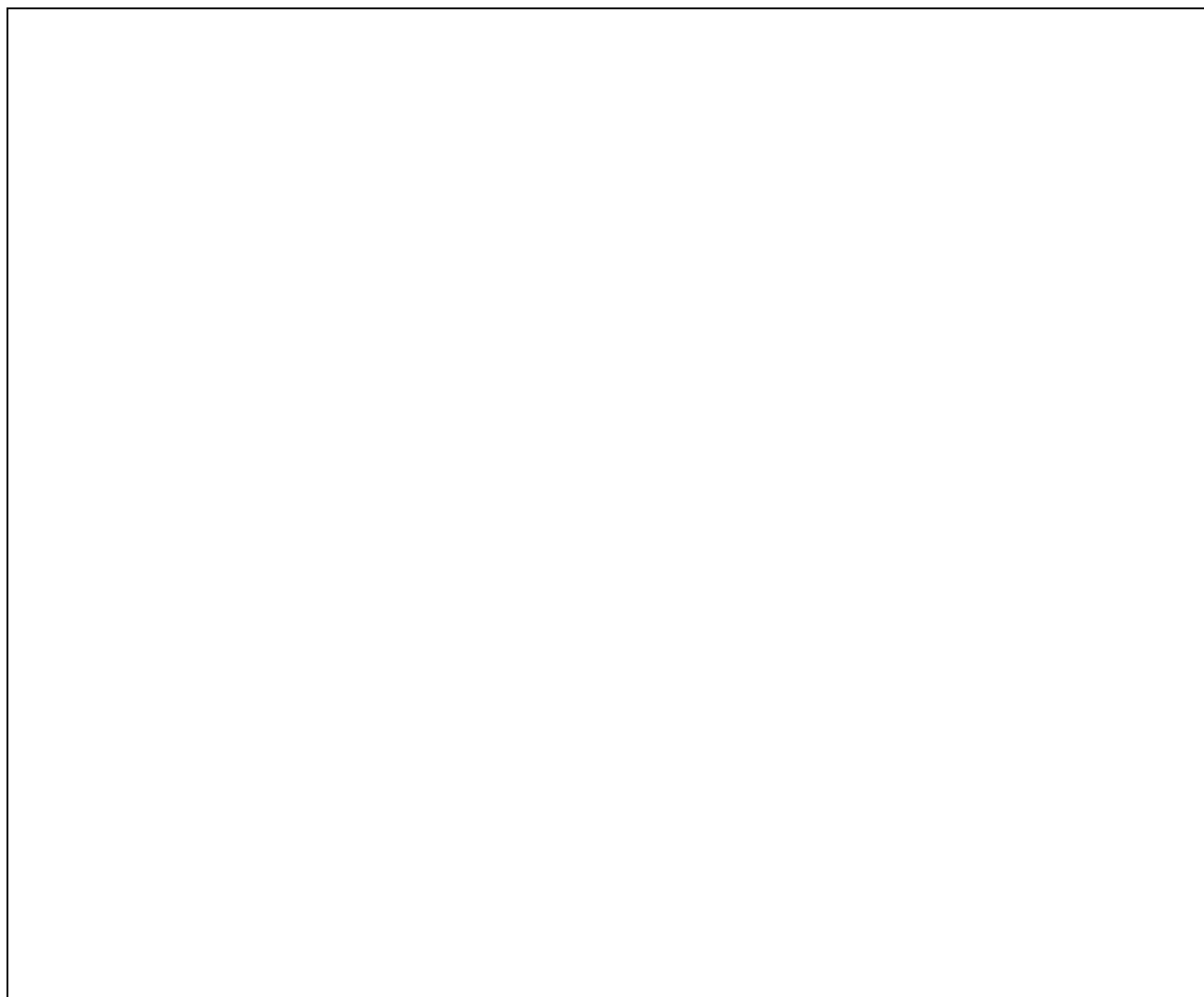
Roughly illustrate the plot in the space provided below. In the illustration, please show:

*Fertilized area indicated with a "**F**"*
*Unfertilized area indicated with "**UF**"*
*Harvested area indicated by **hashed lines***
*Label locations "**A**", "**B**", and "**C**"*

Enumerator notes:

HHID_____

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

Fertility LOW

	Location A	Location B	Location C
C00-Has this **location** been **fertilized**? *(1=Yes; 2=No)*			
C2- What is the **spacing between ridges** (center-to-center) in *centimeters*?			
Enumerator note – The main crop is_____ ***Main crop yield cuts**(These question apply only to the crop in F03a):*	**Location A**	**Location B**	**Location C**
D5i- **If** the main crop was/is **maize** (*F03a=1, 2 or 3*) how many plants were standing in the **2-ridge X 2-meter** area in this location? *(If the main crop was not maize, skip to E3i)*			
D6ai- What was/is the total **number of maize cobs** harvested in a **2-ridges X 2-meter** area in this location?			
D6bi- What is the **weight of the cobs** harvested in this **2-ridge X 2-meter** area in this location? *(If the maize is not ready to harvest, skip to E3i)*			
D8i- Take a sample of three **(3) cobs** to measure grain moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E3i **If** the main crop was/is a **legume** (*F03a is within 6-12, inclusive*), how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the main crop was not a legume, skip to E10i)*			
E4ai- What was/is the total **number of pods** that have been/will be harvested in a **1-ridge X 2-meter** area at this location?			
E4bi- What is the **weight of the pods** harvested in a **1-ridge X 2-meter** area at this location? *(If the legume is not ready to harvest, skip to E10i)*			
E6i- Take a sample of nine **(9) pods**, **shelled**, to measure moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E10i- If the **main crop** was neither maize nor legume *(F03a is within 13-19, inclusive, or 99)*, how many plants were standing in the **1-ridge X 2-meter** 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_____ ***Primary intercrop crop yield cuts** (These question apply only to the crop in F03b):*	Location A	Location B	Location C
D5ii- **If** the primary intercrop was/is **maize** (*F03b=1, 2 or 3*) how many plants were standing in the **2-ridge X 2-meter** area in this location? *(If the primary intercrop was not maize, skip to E3ii)*			
D6aii- What was/is the total **number of maize cobs** harvested in a **2-ridge X 2-meter** area in this location?			
D6bii- What is the **weight of the cobs** harvested in this **2-ridge X 2-meter** area in this location? *(If the maize is not ready to harvest, skip to E3ii)*			
D8ii- Take a sample of three **(3) cobs** to measure grain moisture *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E3ii- **If** the primary intercrop was/is a **legume** (*F03b is within 6-12, inclusive*), how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the primary intercrop was not a legume, skip to E10ii)*			
E4aii- What was/is the total **number of pods** that have been/will be harvested in a **1-ridge X 2-meter** area at this location?			
E4bii- What is the **weight of the pods** harvested in a **1-ridge X 2-meter** area at this location? *(If the legume is not ready to harvest, skip to E10ii)*			
E6ii- Take a sample of nine **(9) pods**, **shelled**, to measure moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E10ii- If the **primary intercrop** was neither maize nor legume *(F03b is within 13-19, inclusive, or 99)*, how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the primary intercrop was maize or a legume, skip to the second intercrop yield cut table)*			

HHID_____

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

Fertility   LOW

Enumerator note – The second intercrop is_____ *Second intercrop crop yield cuts (These question apply only to the crop in F03b):*	Location A	Location B	Location C
D5iii- **If** the second intercrop was/is **maize** (*F03c=1, 2 or 3*) how many plants were standing in the **2-ridge X 2-meter** area in this location? *(If the second intercrop was not maize, skip to E3iii)*			
D6aiii- What was/is the total **number of maize cobs** harvested in a **2-ridge X 2-meter** area in this location?			
D6biii- What is the **weight of cobs** harvested in this **2-ridge X 2-meter** area in this location? *(If the maize is not ready to harvest, skip to E3iii)*			
D8iii- Take a sample of three **(3) cobs** to measure grain moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E3iii- **If** the second intercrop was/is a **legume** (*F03c is within 6-12, inclusive*), how many plants were standing in the **1-ridge X 2-meter** area in this location? *(If the second intercrop was not a legume, skip to E10iii)*			
E4aiii- What was/is the total **number of pods** that have been/will be harvested in a **1-ridge X 2-meter** area at this location?			
E4biii- What is the **weight of the pods** harvested in a **1-ridge X 2-meter** area at this location? *(If the legume is not ready to harvest, skip to E10iii)*			
E6iii- Take a sample of nine (**9) pods, shelled,** to measure moisture later *(Place a **label** from the back page in a plastic bag inside sample indicate with a check mark when done)*			
E10iii- If the **second intercrop** was neither maize nor legume *(F03c is within 13-19, inclusive, or 99)*, **how many plants** were standing in the **1-ridge X 2-meter** area in this location? *(If the second intercrop was maize or a legume, skip to the Weed Ratings section)*			

Weed Ratings	Location A	Location B	Location C
H1- Is **witch weed** present **on the ridges** in this location? *(1=Yes; 2=No)*			
H2- Overall, do **weeds** (including witch weed) cover more, the same or less area **on the ridges** than soil? *(1=less, 2=same; 3=more)*			
H5- Is **witch weed** present **in the furrow** (between ridges) in this location? *(1=Yes; 2=No)*			
H6- Overall, do **weeds** (including witch weed) cover more, the same or less area **in the furrow** than soil? *(1=less, 2=same; 3=more)*			

Enumerator – The following questions apply to the whole plot- "Weeding" refers to pulling plants, banking or scraping the soil of weeds.

How many complete weedings have been done since this plot was planted?				
1=Jan 7=Jul	**When** was the **first weeding** completed? *(Use month codes)*	**Month**	
2=Feb 8=Aug	*(For weeks enter 1, 2, 3 or 4)*	**Week**	
3=Mar 9=Sep	**Type** of first weeding? *(1=pulling plants; 2=banking; 3=scraping)*		
4=Apr 10=Oct	**When** was the **second weeding** completed? *(Use month codes)*	**Month**	
5=May 11=Nov	*(For weeks enter 1, 2, 3 or 4)*	**Week**	
6=Jun 12=Dec	**Type** of second weeding? *(1=pulling plants; 2=banking; 3=scraping)*		
	When was the **third weeding** completed? *(Use month codes)*	**Month**	
	(For weeks enter 1, 2, 3 or 4)	**Week**	
	Type of third weeding? *(1=pulling plants; 2=banking; 3=scraping)*		

Enumerator Notes:

HHID_____

HHID_____

Fertility *(H/L/N)*_____

Crop code_____

Tick one and circle:

Main crop……………………_____

Primary intercrop…………_____

Second intercrop…………..._____

HHID_____

Fertility *(H/L/N)*_____

Crop code_____

Tick one and circle:

Main crop……………………_____

Primary intercrop…………_____

Second intercrop…………..._____

HHID_____

Fertility *(H/L/N)*_____

Crop code_____

Tick one and circle:

Main crop……………………_____

Primary intercrop…………_____

Second intercrop…………..._____

HHID_____

Fertility *(H/L/N)*_____

Crop code_____

Tick one and circle:

Main crop……………………_____

Primary intercrop…………_____

Second intercrop…………..._____

HHID_____

Fertility *(H/L/N)*_____

Crop code_____

Tick one and circle:

Main crop……………………_____

Primary intercrop…………_____

Second intercrop…………..._____

HHID_____

Fertility *(H/L/N)*_____

Crop code_____

Tick one and circle:

Main crop……………………_____

Primary intercrop…………_____

Second intercrop…………..._____

HHID_____