

Africa RISING Soil Fertility Panel Survey

September 2016

Enumerator code:		Date of visit:		Visit number:	
District: 1=Dedza; 2=Ntcheu		EPA:			
Village:		House GPS coordinates			
		S			
		E			
Sample group: 1=Int.; 2=LC; 3=DC		Household code:			
Entered by:		Checked by:			
Section A. Household Information					
<i>Enumerator (say to respondent): First, I will ask you some questions about your household and assets.</i>					
A4. What is the <i>name</i> of the Primary Respondent?					

A5. What is your <i>age</i>? (Write age in years)		
A6. What is your <i>gender</i>? (1=Male; 2=Female)		
A7. Are you the head of this household? (1=Yes; 2=No)		
If Yes, skip to Question A11		
A8. 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)		
A9. What is the <i>name</i> of the household head?		
A10. What is the <i>gender</i> of the household head? ? (1=Male; 2=Female)		
A11. Over the past 12 months, how many months has the household head <i>resided elsewhere</i>?		

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
EPA Codes			
1=Linthipe			
2=Golomoti			
3=Kandeu			
4=Nsipe			
5=Mtakataka			

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<i>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</i>							
A17. Member ID	Name	A18. What is the gender of _____? 1= Male 2=Female	A19. What is the age of _____? (years)	A20. What is the marital status of____? (See codes below)	A21. What has been the primary occupation of _____ in terms of time over past 12 months? (See codes below)	A22. Relation-ship to household head (The head of household is my_____) (See codes below)	A23. What is the education level of _____? (See codes below)
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.

<p>A20. Codes: 1=Married 2=Widowed 3=Divorced 4=Separated 5=Never married</p>	<p>A21. 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)</p>	<p>A22. Codes: 1=Head 2=Spouse 3=Son/Daughter 4=Father/Mother 5=Brother/Sister 6=Grandparent 99=Other (specify above or in margin)</p>	<p>A23. Codes: 1=No schooling 2=Some primary 3=Completed primary 4=Some secondary 5=Completed secondary 6=Post-secondary 7 =Adult literacy</p>
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A32. How many children aged 0-9 years are in this household?		
A33. How many children aged 10-15 are in this household?		
A34. How many people aged 70 years or above are in this household?		
0=no change 1=more 2=less 3=New household (<10 years) 99=unsure	A35. Over the past 12 months, do the adults in the household spend more or less time working on the family farm than they did 10 years ago?	
	A36. Over the past 12 months, do the adults in the household spend more or less time working on non-farm business activities compared to 10 years ago?	

A38. Does this household own a _____? 1=Yes 2=No	a. Dimba (Wetland/Irrigated field)				
	b. Sprayer				
	c. Treadle pump				
	d. Ox cart				
	e. Plough				
A39i. Does this household own a _____? 1=Yes 2=No If yes, ask A39ii	a. Cell phone		A39ii. How many _____ does this household own?	a. Cell phones	
	b. Bicycle			b. Bicycles	
	c. Radio			c. Radios	
	d. Television			d. Televisions	
	e. Sofa set			e. Sofa sets	
	f. Improved wood/caol stove			f. Improved wood/caol stoves	
	g. Kerosene or gas stove			g. Kerosene or gas stoves	
	h. Motorbike			h. Motorbikes	
	i. Cars or truck			i. Cars or trucks	
	j. Solar panel			j. Solar panels	

Indicate the <i>estimated household income</i> 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	A42a Code	A42aii Did the household earn any income from _____? 1=Yes; 2=No If No, Skip to next income source	A42b. Number of months income received	A42c. Average monthly income during these months (MWK)	A42d. Annual income (MWK)
Agricultural labour on another farm (ganyu)	1				
Non-agricultural labour	2				
Remittances (includeing 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				

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A45. During the past growing season, what was the wage rate for ganyu labour for ridge making (land preparation)?	A45a. Amount	
	A45b Unit: 1=MWK 2=kg maize	
	A45c Per 1=acre 2=day 3=rows/ridges 4=plant	
A47. 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)		

Section B. Farm-level management and sales

Enumerator say to respondent:

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).

B1. How many fields did you plant this past growing season (2015/6), including rented in fields? (Write in number of fields)	
B2. What is the total area in acres that was actually cultivated this past growing season (2015/16), including rented in fields?	
B3a. Were any fields or portions of fields left fallow this past growing season (2015/16)? (1=Yes; 2=No) IF NO, Skipt to B5	
B3b. Why were the fields left fallow? 0=not applicable; 1=to improve the soil; 2=no material inputs 3=shortage of labour 4=dispute over land tenure 99=other (specify)	
B5. Since the 2016 harvest, have you sold maize or do you plan to sell maize? 1=Yes; 2=No; 99=undecided If no, skip to MAP ON NEXT PAGE	
B6. During which month was (or do you expect to have) your largest sale? (1=January; 2=February...12=December; 99=undecided)	
B7. How much have you sold or plan to sell in total? (For units, see codes below)	a. Amount
	b. Units
B8. How much did you sell or plan to sell in your largest transaction? (For units, see codes below) (If sale has not yet occurred, SKIP to B10)	a. Amount
	b. Units
B9. What was the price you received for this sale? (Kwacha per unit) (For units, see codes below)	a. Amount (MWK)
	b. Units
B10. To whom was (or will be) the largest sale? If more than one sale is the same size as the largest sale, ask about the earliest sale.	1=other household 2=small trader 3=large trader 99=other (specify)
B11a. Where was (or will be) the maize exchange made for largest sale? 1 = On the farm 3 = Trading center/local market 5= In the Boma 99=Other (Specify) 2 = From the house 4= Within the village (not on the farm or at market) 6=Admarc	
B11b. What was the distance in kilometres from the house to the point of the maize exchange made for largest sale?	
B12. How much (MWK) did you pay (or expect to pay) to transport the maize to the point of exchange	
B7b, B8b, B9, Unit Codes 1=kilograms 2=25 kg bags 3=50 kg bags 4=20 L bucket / Ndowa 5=ox carts / Ngolo 6=In total 99=other (specify)	

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NAME OF FARMER:

VILLAGE:

WHO GAVE TOUR OF FARM (name):

MEMBER ID OF PERSON GIVING TOUR:

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

- Enumerator:
- 1) Number each field & plot that is owned or cultivated in 2015/16.
 - 2) Name each field
 - 3) List the crops planted in 2015 and harvested in 2016,
 - 4) Record the area for each **plot** in acres – **Use the conversion table to write in decimal form.**
 - 5) Finally, identify the plots the farmer indicated as high (H) and low (L) fertility **during the March Maize Response Survey**



Conversion table:

$1/2 = 0.50$
 $1/3 = 0.33$
 $1/4 = 0.25$
 $1/5 = 0.20$
 $1/6 = 0.17$
 $1/7 = 0.14$
 $1/8 = 0.125$
 $1/9 = 0.11$

$2/3 = 0.67$
 $2/4 = 0.50$
 $2/5 = 0.40$
 $2/6 = 0.33$
 $2/7 = 0.29$
 $2/8 = 0.25$
 $2/9 = 0.22$

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<i>Enumerator: Transcribed the data from the map on the previous page into these columns.</i>				<i>Enumerator – Only ask these seed questions if the primary crop is maize, groundnut or pigeon pea. That is, ask if: F18a=1; F18a =2; F18a =3; F18a =6; F18a =7</i>				<i>Enumerator – Only ask these seed questions if the main intercrop is maize, groundnut or pigeon pea That is, ask if: F18b=1; F18b =2; F18b =3; F18b =6; F18b =7</i>										
<i>(For Primary and intercrops, use crop codes on the next page)</i>				<i>For the primary crop, what was the seed ?</i>				<i>For the main intercrop, what was the seed ?</i>										
Field	Plot	E1 Acres	High/Low Fertility plots. (H & L) Label only two fields.	F18a Primary crop	F18b Main Inter-crop	F18bii Second inter-crop	F18biii Border crop	Quantity		PType Type	PVariety Variety	PSource Main Source	Quantity		IType Type	IVariety Variety	ISource Main Source	
				<i>See crop codes below</i>				PSQty	PSUnit				See codes	ISQty				ISUnit

<p>Crop codes:</p> <p>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</p>	<p>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)</p>	<p>Seed Units</p> <p>1=kilograms 2=25 kg sack 3=50 kg sack 4=Bucket 5=Plate 6=Ox cart 99=other (specify)</p>	<p>Type codes</p> <p>1=Local 2=Newly acquired hybrid 3=Saved hybrid 4=OPV/Composite</p>	<p>Seed Source codes</p> <p>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)</p>	<p>Enumerator notes:</p>
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Enumerator: Please transcribe the Field and Plot numbers from the previous page from the High and Low fertility plots. Then, ask questions F2 – F21b for each plot.																						
To be transcribed by the enumerator.			F2. Who is responsible for managing this plot? (See codes)	F3. Do you own this land? 1=Yes 2=No	F12ai How was the residue from the 2015 harvest used in this plot? (See codes)	F12aii What tillage method was used on this plot? (See codes)	F12aiii Was animal traction used to prepare this plot? 1=Yes 2=No	F12b In which month was land preparation finished? See codes	NV1 In which month was plot planted? See codes	F13 What soil conservation methods do you use on this plot? See codes					F17a. What is the main crop you plan to plant in the 2016/17 season? (See codes)	F17b. What inter-crop do you plan to plant in the 2016/17 season? (See codes)	F19a. What is the main crop you planted in the 2014/15 season? (See codes)	F19b. What inter-crop did you plant in the 2014/15 season? (See codes)	F20a. What is the main crop you planted in the 2013/14 season? (See codes)	F20b. What inter-crop did you plant in the 2013/14 season? (See codes)	F21a. What is the main crop you planted in the 2012/13 season? (See codes)	F21b. What inter-crop did you plant in the 2012/13 season? (See codes)
Field	Plot	Fertility								a	b	c	d	e								
		H																				
		L																				

F17 – F21 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 99=Other (specify)			
F2 Codes 1=household head 2=spouse 3=both 99=other (specify) _____	F12ai Codes: 1= incorporate residues early (after harvest) 2=incorporate residues late winter 3= burn residues 10 = removed residues from field 11=Other (Specify)	F12aii Codes: 4=level soil 5=align ridges 6=build mounds 7=dig planting basins 9=zero tillage 99=Other (Specify)	Month codes 1=January 2=February 3=March 4=April 5=May 6=June 7=July 8=August 9=September 10=October 11=November 12=December
F13. Codes: 1=mulching 2=farm yard manure 3=compost 4=slash and burn 5=green manure 6=terracing 7=grass strips 8=crop residues 9=planting basins 10=minimal/zero tillage 11=ripping 12=drainage (water logging) 13=early incorporation of residues in furrow (just after harvest) 14=mid-winter incorporation of residues in furrow (before the rains) 15=burning of residues 16=late incorporation of residues (waiting until fall rains, then preparing ridges) 99= Other (a) _____ 99= Other (b) _____			

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HIGH FERTILITY SPACING DETAILS																						
Place the crop code of the plant on the grid where it is located on the ridge																						
cm	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	cm
30																						30
25																						25
20																						20
15																						15
10																						10
5																						5
0																						CTR
5																						5
10																						10
15																						15
20																						20
25																						25
30																						30
cm	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	Cm

SPACING OF ROWS:	ROWS 1&2	ROWS 2&3
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Crop codes:			
<i>1=local maize</i>	<i>6=pigeonpea</i>	<i>11=cowpea</i>	<i>16=Irish potato</i>
<i>2=hybrid maize</i>	<i>7=groundnut</i>	<i>12=bambara nut</i>	<i>17=millet</i>
<i>3=OPV/Composite maize</i>	<i>8=soya bean</i>	<i>13=sorghum</i>	<i>18=rice</i>
<i>4=tobacco</i>	<i>9=common bean</i>	<i>14=cassava</i>	<i>19=pumpkin</i>
<i>5=cotton</i>	<i>10=velvet bean</i>	<i>15=sweet potato</i>	<i>99=Other (specify)</i>

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LOW FERTILITY SPACING DETAILS																						
Place the crop code of the plant on the grid where it is located on the ridge																						
cm	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	cm
30																						30
25																						25
20																						20
15																						15
10																						10
5																						5
0																						CTR
5																						5
10																						10
15																						15
20																						20
25																						25
30																						30
cm	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	Cm

SPACING OF ROWS:	ROWS 1&2	ROWS 2&3
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Crop codes:			
<i>1=local maize</i>	<i>6=pigeonpea</i>	<i>11=cowpea</i>	<i>16=Irish potato</i>
<i>2=hybrid maize</i>	<i>7=groundnut</i>	<i>12=bambara nut</i>	<i>17=millet</i>
<i>3=OPV/Composite maize</i>	<i>8=soya bean</i>	<i>13=sorghum</i>	<i>18=rice</i>
<i>4=tobacco</i>	<i>9=common bean</i>	<i>14=cassava</i>	<i>19=pumpkin</i>
<i>5=cotton</i>	<i>10=velvet bean</i>	<i>15=sweet potato</i>	<i>99=Other (specify)</i>