# FINAL BBSRC SURVEY TOOL

# Consent

\* You are being requested to participate in a survey aiming at understanding the link between soil fertility and nutrition, and led by the International Maize and Wheat Improvement Centre, for a project centred on Murehwa District. The enumerator will offer answers or clarifications to all your questions and concerns, before deciding whether or not you can participate. Your participation in this study will not whatsoever expose you, your household or those associated with you to any risks. Participation in this study is voluntary. You have the right to refuse to participate in this study. If you choose to participate, you have the right to stop the interview at any stage or not to answer certain questions. If you refuse or stop your participation at any time, there will be no consequences. All information solicited from you, your household or your associates will be kept strictly confidential. We shall not in any way disclose you, your household or your associates personally in resultant documents, or data sharing processes. Do you agree to participate?



# **General information**

### Ward

🔵 Ward 4

) Ward 27

### Village

Surname

### Firstname

#### Enter a date and time

yyyy-mm-dd

hh:mm

### Record your current location

latitude (x.y °)				
longitude (x.y °)				
altitude (m)				
accuracy (m)				
<b>Demographics</b> How old is the head of the h	nouse	hold?		
What is the sex of the head	ofth	e hous	_ ebold	2
Male		e nous	chora	
Female				
What is the marital status o	of the	head o	of the	household?
Married				
<ul> <li>Widow or widower</li> </ul>				

- Divorced
- Single

### What is the education level of the head of the household?

- Primary level
- Secondary level
- Tertiary level
- ) Vocational school

# Household composition

0/10/2020	FINAL BBSRC SURVEY TOOL
Total number of adult males (of age 18 a	nd above)
Total number of adult females (of age 18	and above)
Total number of teens of age 12 to 17	
Total number of children of age 3 to 11	
Total number of infant of age 0 to 2	
Are there relatives outside the househol	d who help financially?
Ves	
$\smile$	
Are there relatives outside the househol	d who depend on it financially (e.g., elderly, sick)?
Yes	
Capital and land	
Number of tractors?	
Number of ploughs?	
Number of rippers?	
Number of cultivators?	

https://kf.kobotoolbox.org/#/forms/avpexWbXGnqyjHunfV24PC/landing

Number of scotchcarts?

Number of wheelbarrows?

Number of knapsack sprayers?

Total area of homefield (acres)?

Total area of outfield (acres)?

# Livestock management

Number of improved adult cattle?

Number of indigenous adult cattle?

Number of improved juvenile cattle?

Number of indigenous juvenile cattle?

Number of oxen?

Number of donkeys?

Number of improved goats?

Number of indigenous goats?

Number of sheep?

Number of chicken?

Number of guinea fowls

### **Homefield maize**

Did you grow homefield maize last season (2019-20)?

) No

) Yes

Who is the main homefield maize plot manager/owner?

- Whole family
- Husband
- Wife
- Children

Area of homefield maize (acres)?

Soil type of homefield maize? (from lower to higher clay content)



Sandy Loam

Sandy Clay Loam

### Slope of homefield maize?

Flat Gentle Steep slope	slope	
Main variety of homefield maize?		
<ul> <li>K2 PGS61</li> <li>PAN 53</li> <li>SC500 series</li> <li>Zadzamatura</li> <li>ZAP 61</li> <li>Recycled seeds</li> </ul>	MRI 514 PHB 30G19 SC600 series ZAP 43 ZM 521 Other	<ul> <li>PAN 413</li> <li>SC400 series</li> <li>SC700 series</li> <li>ZAP 55</li> <li>Open pollinated varieties</li> </ul>
Name of main homefield maize v	ariety?	
Second variety of homefield maiz	e?	
<ul> <li>K2 PGS61</li> <li>PAN 53</li> <li>SC500 series</li> <li>Zadzamatura</li> <li>ZAP 61</li> <li>Recycled seeds</li> </ul>	MRI 514 PHB 30G19 SC600 series ZAP 43 ZM 521 Other	<ul> <li>PAN 413</li> <li>SC400 series</li> <li>SC700 series</li> <li>ZAP 55</li> <li>Open pollinated varieties</li> </ul>
Name of second homefield maize		
Third variety of homefield maizes	MRI 514	PAN 413
PAN 53	PHB 30G19	SC400 series
SC500 series	SC600 series	SC700 series
Zadzamatura	ZAP 43	ZAP 55
ZAP 61	ZM 521	Open pollinated varieties
Recycled seeds	Other	

### Name of third homefield maize variety?

### Intercropping on homefield maize?

Yes No

What were the intercrop species?

- Cowpea Bean
- Groundnut
- Lablab
- Pigeonpea
- Mucuna
- Pumpkin
- Watermelon
- Cucumber

### Mode of land preparation of homefield maize

- Tractor
- Draught animals
- Hand hoes
- No land preparation / Conservation Agriculture

### Type of conservation agriculture

- Ox-drawn ripper
- Ox-drawn direct seeder
- Jab planter and other hand planter
- Planting basins
- Planting hoe

### Planting date of homefield maize

yyyy-mm-dd

Quantity of basal fertilizer used on homefield maize (kg)?

Type of basel	fortilizor	used	~ ~	homofield	maira?
Type of basal	rerunzer	useu	UII.	nomeneiu	IIIdize:

Type of basar fertilizer used of homenetal maize:
Compound D
DAP
Other
Name of basal fertilizer used on homefield maize?
Quantity of top dressing fertilizer used on homefield maize (kg)?
Type of top dressing fertilizer used on homefield maize?
AN Urea
Other
Name of top dressing fertilizer used on homefield maize?
Quantity of manure used on homefield maize (kg)?
Quantity of compost used on homefield maize (kg)?
Quantity of agricultural lime applied to this homefield in the past 3 years (kg)?
Number of weeding operations on homefield maize?
Main mode of homefield maize weeding? Hand weeding Cultivation with animal traction Herbicide

Total number of pesticide treatments on homefield maize

Total homefield maize production last season (kg)?

### **Outfield maize**

Did	you	grow	outfield	maize	last	season	(2019	-20)?
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- 🔵 No
- ) Yes

Who is the main outfield maize plot manager/owner?

- Whole family
- Husband
- Wife
- Children

Soil type of outfield maize? (from lower to higher clay content)

Loamy Sand Sandy Loam Sandy Clay Loam

### Slope of outfield maize?

 Flat
 Gentle slope

Steep slope

#### Main variety of outfield maize?

K2 PGS61	MRI 514
PAN 53	PHB 30G19
SC500 series	SC600 series
Zadzamatura	ZAP 43
ZAP 61	ZM 521
Recycled seeds	Other

- PAN 413
- SC400 series
- SC700 series
- ZAP 55
- Open pollinated varieties

Name of main outfield maize variety?

econd variety of outfield maiz	e?	
() K2 PGS61	MRI 514	PAN 413
PAN 53	PHB 30G19	SC400 series
SC500 series	SC600 series	SC700 series
Zadzamatura	ZAP 43	ZAP 55
ZAP 61	ZM 521	Open pollinated varieti
Recycled seeds ame of second outfield maize	Other variety?	
ame of second outfield maize	variety?	
ame of second outfield maize	variety?	PAN 413
ame of second outfield maize	variety?	PAN 413 SC400 series
ame of second outfield maize	variety?	
ame of second outfield maize hird variety of outfield maize? K2 PGS61 PAN 53	WRI 514 PHB 30G19	SC400 series
ame of second outfield maize hird variety of outfield maize? K2 PGS61 PAN 53 SC500 series	WRI 514 PHB 30G19 SC600 series	SC400 series SC700 series

### Name of third outfield maize variety?

### Intercropping on homefield maize?

Yes No

#### What were the intercrop species?



Cucumber

### Mode of land preparation of outfield maize

- Tractor
- Draught animals
- Hand hoes
- No land preparation / Conservation Agriculture

#### Type of conservation agriculture

- Ox-drawn ripper
- Ox-drawn direct seeder
- Jab planter and other hand planter
- Planting basins
- Planting hoe

### Planting date of outfield maize

yyyy-mm-dd

Quantity of basal fertilizer used on outfield maize (kg)?

Type of basal fertilizer used on outfield maize?

- Compound D
- DAP
- Other

Name of basal fertilizer used on outfield maize?	
Quantity of top dressing fertilizer used on outfield maize (kg)?	
Type of top dressing fertilizer used on outfield maize?	
AN	
Urea	
Other	
Names of top dressing fertilizer used on outfield maize?	
Quantity of manure used on outfield maize (kg)?	
Quantity of compost used on outfield maize (kg)?	
Quantity of agricultural lime applied to this outfield in the past 3 years (kg)?	
Number of weeding operation on outfield maize?	
Main mode of outfield maize weeding?	
Hand weeding	
Cultivation with animal traction	
Herbicide	
Total number of pesticide treatments on outfield maize	

Total outfield maize production last season (kg)?

### **Food sources**

Most important food sources

1st choice				
Own production Remittances	Cash purchase fro	m income	Casual labour for fo	
2nd choice				
Own production Remittances	Cash purchase fro	m income	Casual labour for fo	
3rd choice				
Own production Remittances	Cash purchase fro	m income	Casual labour for fo	
Food security Food security situation in the past 12 months:	Critical	Low	Medium	High
September 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
August 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
July 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
June 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
May 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
April 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
March 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
February 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
January 2020	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
December 2019	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
November 2019	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
October 2019	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

### **Income sources**

Pension

Most important income sources

1st choice		
Crop sales	Livestock sales	Casual labour
Remittances	Salary or wages	Smallscale mining
Artisan	Trade	Pension
2nd choice		$\sim$
Crop sales	Livestock sales	Casual labour
Remittances	Salary or wages	Smallscale mining
Artisan	Trade	Pension
3rd choice		
Crop sales	Livestock sales	Casual labour
Remittances	Salary or wages	Smallscale mining

Trade

### 24 hour household diet diversity

Artisan

Were the following food items consumed by the household in the last 24 hours:	No	Yes
Cereals	$\bigcirc$	$\bigcirc$
White roots and tubers	$\bigcirc$	$\bigcirc$
Vitamin A rich vegetables and tubers	$\bigcirc$	$\bigcirc$
Dark green leafy vegetables	$\bigcirc$	$\bigcirc$
Other vegetables	$\bigcirc$	$\bigcirc$
Vitamin A rich fruits	$\bigcirc$	$\bigcirc$
Other fruits	$\bigcirc$	$\bigcirc$
Organ meat	$\bigcirc$	$\bigcirc$
Flesh meat	$\bigcirc$	$\bigcirc$
Eggs	$\bigcirc$	$\bigcirc$
Fish and seafood	$\bigcirc$	$\bigcirc$
Legumes, nuts and seeds	$\bigcirc$	$\bigcirc$
Milk and milk products	$\bigcirc$	$\bigcirc$

9/10/2020		FINAL	BBSRC SU	RVEY TOO	L			
Oils and fats		(	$\supset$			(	$\supset$	
Sweets		(	$\supset$			(	$\supset$	
Spices, condiments, beverages		(	$\supset$			(	$\supset$	
Outside meal or snack	$\bigcirc$			$\bigcirc$				
7 day household diet diversi	ty							
Number of days the following food items were consumed by the household:	0	1	2	3	4	5	6	7
Cereals	$\bigcirc$							
White roots and tubers	$\bigcirc$							
Vitamin A rich vegetables and tubers	$\bigcirc$							
Dark green leafy vegetables	$\bigcirc$							
Other vegetables	$\bigcirc$							
Vitamin A rich fruits	$\bigcirc$							
Other fruits	$\bigcirc$							
Organ meat	$\bigcirc$							
Flesh meat	$\bigcirc$							
Eggs	$\bigcirc$							
Fish and seafood	$\bigcirc$							
Legumes, nuts and seeds	$\bigcirc$							
Milk and milk products	$\bigcirc$							
Oils and fats	$\bigcirc$							
Sweets	$\bigcirc$							
Spices, condiments, beverages	$\bigcirc$							
Outside meal or snack	$\bigcirc$							

## **PVA maize**

Do you know about PVA maize and its benefits?



) Yes

Do you	have	experience	growing	<b>PVA</b>	maize?
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20,00	
	No
	Yes
Can yo	u name PVA maize varieties commercially available?
	ZS242
	ZS244
	ZS246
	ZS500
Disr Most i	uption due to COVID-19 in 2019-20 mportant disruption due to COVID-19 in the past season (2019-20)
1st cho	bice
$\bigcirc$	None Cack of labour for weeding Cack of labour for harvesting
$\bigcirc$	Disruption of sales of crop products O Disruption of sale of livestock products
$\bigcirc$	Disruption of other income generating activities
2nd ch	oice
$\bigcirc$	None Cack of labour for weeding Cack of labour for harvesting
$\bigcirc$	Disruption of sales of crop products O Disruption of sale of livestock products
$\bigcirc$	Disruption of other income generating activities
3rd ch	bice
$\bigcirc$	None Cack of labour for weeding Lack of labour for harvesting
Õ	Disruption of sales of crop products O Disruption of sale of livestock products
$\bigcirc$	Disruption of other income generating activities

# **Expected disruption due to COVID-19 in 2020-21** Most important disruption due to COVID-19 expected in the upcoming season (2020-21)

### 1st choice

$\bigcirc$	None	High seed cost	High fertilizer cost
$\bigcirc$	Lack of labour for crop establishment	Lack of labour for weedin	g
$\bigcirc$	Lack of labour for harvesting	Disruption of sales of crop produc	ts
$\bigcirc$	Disruption of sale of livestock products	Disruption of other inco	me generating activities
2nd ch	oice		
$\bigcirc$	None	High seed cost	High fertilizer cost
$\bigcirc$	Lack of labour for crop establishment	Lack of labour for weedin	g
$\bigcirc$	Lack of labour for harvesting	Disruption of sales of crop produc	ts
$\bigcirc$	Disruption of sale of livestock products	Disruption of other inco	me generating activities

### 3rd choice

$\bigcirc$	None	High seed cost	High fertilizer cost
$\bigcirc$	Lack of labour for crop establishment	Lack of labour for weedi	ng
$\bigcirc$	Lack of labour for harvesting	Disruption of sales of crop produc	cts
$\bigcirc$	Disruption of sale of livestock products	Disruption of other inco	ome generating activities