Supplementary information – Farmer KAP Survey

SCREENING QUESTION

SURVEY RESPONDENT MUST BE THE **MAIN DECISION MAKER** REGARDING FERTILISER APPLICATION RATES FOR THE FARM OR GREENHOUSE

(Check that this is the case before proceeding with selection of respondent and interview).

SURVEY ADMINISTRATION DETAILS

Interviewer's name
Write in:
Name of community where interview taking place
Write in:
Date of interview
Write in://
A). RESPONDENT PROFILE
Respondent's name
Write in:
Respondent's age
Write in:
Respondent's gender (tick correct option):
Male Female
Respondent's Village
Write in:
Main occupation of the respondent
Farmer Other (write in):

Is the respondent the head of the household?
Yes No
Does anyone else in the family other than the respondent make decisions regarding how their land is managed?
Yes No
If Yes, who? Write in:
Number of family members involved in working the land unit (including respondent):
1 2 3 4 5 6 More than 6
Who are the other family members working the land unit? (tick all options that apply):
Spouse Son Daughter Grandson Grand daughter Other family members (specify):
What level of education establishment has the respondent attended?
Primary (up to x years) Secondary (up to x years) Post Secondary School Further Education (i.e vocational training) Post secondary School Higher Education (i.e University Degree Other (specify):
<i>Hukou</i> registration of the respondent?
Rural Urban None

What types of crops are grown on the respondent's land unit? (Write list):
How much land does the respondent have control over?
Write land area in mu:

B). INFLUENCES ON THE AMOUNT OF FERTILISERS APPLIED

Q1. ASK ALL RESPONDENTS

I'm going to read out a list of comments about fertiliser application rates. For each comment, please could you say whether you agree or disagree. Please use a scale of 1 to 5 where 5 means you completely agree and 1 means you completely disagree

INTERVIEWER: READ OUT ALL STATEMENTS AND MARK EACH FOR SCALE OF 1 TO 5.

- (a) 'The amount of fertiliser I put on my crops is the amount my father always used to put on his crops'
- (b) 'I put on the same amount of fertiliser as all the other farmers near me, we all use about the same amount'
- (c) 'The amount of fertiliser I put on my crops is the amount recommended to farmers here by local agricultural technicians and advisors'
- (d) 'The amount of fertiliser I put on my crops is the amount recommended by fertiliser companies to farmers here'
- (e) 'The amount of fertiliser I put on my crops is the amount indicated by the instructions on the fertiliser bags'
- (f) 'I base my fertiliser applications on the levels provided by technical advice but I also add an extra amount of fertiliser just to make sure I am applying enough'
- (g) 'Because fertiliser is cheap, I feel I can be generous with the amount I apply to my crops'
- (h) 'I don't apply fertiliser as many times as is recommended, therefore when I do apply it I add an extra amount'
- (i) I don't apply fertiliser as many times as is recommended because it takes too much time/labour'

Q2. IF RESPONDENT AGREES WITH STATEMENT (f) AT Q1 [i.e. score of 4 or 5] ASK THE FOLLOWING: Why do you have concerns that the recommended amount of fertiliser for your crops is not enough?

C). SOIL TESTS UNDERTAKEN

Q3. ASK ALL RESPONDENTS

Do you ever have tests carried out on your land to see how much nutrient (N,P,K) is already in the soil?

Yes No

Q4. IF YES AT Q3 (if not at Q3 go to Q7)

Approximately how often are these tests undertaken?

INTERVIEWER: READ OUT AND TICK ONE OPTION ONLY

More frequently than every year Every Year Every 3 Years Every 5 Years Less often than every 5 Years

Q5. IF YES AT Q3

Who is involved in carrying out these tests?

INTERVIEWER: READ OUT AND TICK ALL OPTIONS THAT APPLY

Yourself
Farming co-operative
Agricultural Technician (Village Level)
Agricultural Technician (Town Level)
Agricultural Technician (Regional Level)
Fertiliser company
University Staff
Other (specify)

Q6. IF YES AT Q3

Do you adapt your fertiliser application rates on the basis of these tests to avoid applying too little or too much fertiliser?

INTERVIEWER: READ OUT AND TICK ONE OPTION ONLY

Yes - always

Yes - sometimes

No

Q7. ASK ALL RESPONDENTS

I'm going to read out a list of comments about soil testing. For each comment, please could you say whether you agree or disagree. Please use a scale of 1 to 5 where 5 means you completely agree and 1 means you completely disagree

INTERVIEWER: READ OUT ALL STATEMENTS AND MARK EACH FOR SCALE OF 1 TO 5.

- (a) 'I understand the benefits of soil testing for managing use of fertiliser for my crops'
- (b) 'I like the idea of having the soil tested regularly on my land'
- (c) 'I know who to go to to get information about soil testing'

Q8. IF RESPONDENT AGREES WITH STATEMENT (b) AT Q7 (Score 4, 5), ASK:

Who would you trust most to carry out soil tests on your farm?

INTERVIEWER: READ OUT AND TICK ONE OPTION ONLY

Farming co-operative
Agricultural Technician (Village Level)
Agricultural Technician (Town Level)
Agricultural Technician (Regional Level)
Fertiliser company
University Staff
Other (specify)

D). FERTILISER TRAINING (INFORMATION) RECEIVED

Q9. ASK ALL RESPONDENTS

Have yourself or anyone in your family attended a face-to-face training session on fertiliser application in the last 3 years?

Yes – Respondent

Yes – Other family member

No

(if answer to Q9 is no, go to Q13; if yes ask Q10-12)

Q10. If other family member a	at Q9, wh	o attende	d this face	e-to-face	training?	
Spouse Son Daughter Grandson Grand daughter Other family members (specify	y):					
Q11. Approximately how man attending fertiliser application						
	< 5hrs	5- 10hrs	11- 20hrs	21- 30hrs	31-40 hrs	Over 40 hrs
Respondent						
Spouse						
Son						
Daughter						
Grandson						
Grand daughter						
Other family member 1						
(specify)						
Other family member 2						
(specify)						
Q12. Who provided the face-to INTERVIEWER: READ OUT A Farming co-operative Agricultural Technician (Villa, Agricultural Technician (Town Agricultural Technician (Provi Fertiliser company University Staff Other (specify)	AND TICE ge Level) n Level)	K ALL OI	`	·	,	ceived?
Q13. ASK ALL RESPONDEN Do you get any information ab following?	out fertili					
INTERVIEWER: READ OUT A Leaflets Books Television Neighbours None of the above	AND HC	X ALL OI	- 11ONS 1	ΠΑΙ ΑΡΙ	rLI	

E). INTERACTION WITH AGRICULTURAL EXTENSION

Q14. ASK ALL RESPONDENTS

How often have you received verbal advice on fertiliser use from each of the following in the last 3 years?

INTERVIEWER: READ OUT AND TICK ONE CELL FOR EACH ROW

	Once	Twice	Three times	Four times	Five times	More than five	Never
Agricultural Technician (Village Level)						times	
Agricultural Technician (Town Level)							
Agricultural Technician (Regional Level)							
Fertiliser company							
University staff							
Marketing Association							
Other (specify)							

Q15. ASK ALL RESPONDENTS (EXCEPT THOSE RECEIVING NO ADVICE AT Q14)

I'm going to read out a comment other people have made about using advice on fertiliser applications. Please could you say whether you agree or disagree. Please use a scale of 1 to 5 where 5 means you completely agree and 1 means you completely disagree

INTERVIEWER: READ OUT ALL STATEMENTS AND MARK EACH FOR SCALE OF 1 TO 5.

- (a) 'I have found the advice to be good and I continue to follow it'
- (b) 'I followed the advice for one season only and then went back to my original practice'
- (c) 'The advice I received was given in a way I could not easily understand'
- (d) 'I understood the advice but did not follow it because I did not think it was right for my land'

Q16. ASK ALL RESPONDENTS

If you have a problem with a crop which you suspect might be a nutrient related problem who would you prefer to go to for advice?

INTERVIEWER: READ OUT AND TICK ONE OPTION ONLY

A neighbour
A relative
Farming co-operative
Agricultural Technician (Village Level)
Agricultural Technician (Town Level)
Agricultural Technician (Province Level)
Fertiliser company
University Staff
Other (specify)
F). AWARENESS OF ENVIRONMENTAL IMPACT
Q17. ASK ALL RESPONDENTS

Have you noticed any changes in your local rivers, streams or lakes over your lifetime regarding the colour of the water or the number of fish or other animals that live in or near the water?

No	
Q18. IF YES AT Q17 What changes have you noticed?	
1	
2	
3	
4	
5	

Yes

Q19. FOR EACH CHANGE NOTED AT Q18

Which of the following do you think might have caused these changes? *INTERVIEWER: READ OUT AND TICK ALL OPTIONS THAT APPLY*

		Changes r	recorded in a	at Q18	
	1.	2.	3.	4.	5.
Domestic sewage					
Other activities of					
householders					
Activities of farmers					
Activities of industries					
other than farming					
Other causes (specify)					

Q20. IF 'ACTIVITIES OF FARMERS' MENTIONED AT Q19	
Which farming activities do you think have caused these changes?	

G). FARM LABOUR AVAILABILITY

Q21. ASK ALL RESPONDENTS

How many hours on average each week during the most labour-intensive farming activities, such as planting, weeding, harvesting, etc does each person in your household spend working on your land unit?

INTERVIEWER: REFER BACK TO LIST GENERATED AT PROFILE SECTION

INTERVIEWER: READ OUT AND TICK CELLS THAT APPLY FOR EACH FAMILY MEMBER

	< 5hrs	5-	11-	.21-	31-40 hrs	Over	None
		10hrs	20hrs	30hrs.		40 hrs	
Respondent							
Spouse							
Son							
Daughter							
Grandson							
Grand							
daughter							
Other							
family							
member 1							
(specify)							
Other 2							
(specify)							

Q22. FOR EACH FAMILY MEMBER MENTIONED AT Q21

Does this family member also work in another job in your village or in a town or city?

	Yes	No	
Spouse			
Son			
Daughter			
Grandson			
Grand			
daughter			
Other family			
member 1			
(specify)			
24 6 1			_
Other family			
member 2			
specify)			
es o			
H). FUTURE	SCENA	ARIOS	
Q24. ASK AL Which of the f			rs cribes how you use your land?
NTERVIEWE	R: REAL	O OUT AN	ND TICK ONE OPTION ONLY
	for constant	sumption 1	by your family by your family but also to sell
Q25. ASK AL Would you lik			TS your land yourself if you had a choice?
Yes No			
			0.0

Q26. ASK IF NO AT Q25 (if yes at Q25 go to Q27)

Why do you say this?

Q27. ASK IF YES AT Q25

Which one of the following options would be best for you?

INTERVIEWER: READ OUT AND TICK ONE OPTION ONLY

- (a) To rent out the land to a farming company or larger farmer but still work on the land as a farm worker
- (b) To rent out the land to a farming company or larger farmer and go to work in another job in the town or the city
- (c) To rent out the land to a farming company or large farmer and retire

THANK YOU AND CLOSE