

APPENDIX 1

FARMER'S QUESTIONNAIRE

**TITLE: THE COMPARATIVE ROLE OF INTERVENING AND
INDEPENDENT VARIABLES IN THE ADOPTION BEHAVIOUR OF MAIZE
GROWERS IN NJOMBE DISTRICT, TANZANIA**

A. INTRODUCTION

In this interview schedule there is no wrong or correct answer. What is required is just your opinion on practices you use in maize production. This will assist in formulation of policies, research and extension programs that are appropriate to your area. Your cooperation will be therefore highly appreciated.

B. GENERAL INFORMATION

Date-----

Name of the respondent.....

Resp.No

V1

Name of the enumerator-----

Number of Ward: 1.
2.
3.

V2

Name of the village:

V3

C. FARMER'S CHARACTERISTICS

1. Sex of the respondent

 V4

1. Male
2. Female

2. How old are you? (In years)

1. <30
2. 30-40
3. 40-50
4. 50-60
5. >60.....

.. Actual V5

Code V6

3. What is your highest level of formal education? *In each category also indicate the total number of years attained.*

(a) Formal

Total No. of years V7

1. No education
2. Primary education
3. Secondary education
4. Certificate
5. Diploma

Category V8

 V9

(b) Non-formal (Adult education)

Number of weeks

4. What is your literacy level?

 V10

1. Innumeracy
2. Illiterate
3. Partially literate
4. Literate

5. What is your farm size? (In acres)

1. < 3

Actual no. of acres V11

2. 3-6

3. 6-9

4. 9-12

Code V12

5. >12

6. What area of your farm (in acres) did you use to grow maize last season?

1. < 2

2. 2-4

Actual no. of acres V13

3. 4-6

4. 6-8

Code V14

5. 8-10

6. >10

D. PRODUCTION EFFICIENCY

7. What was your maize yield (in bags) in the last season)?

Total number of bags

V15

b. Size of bags used: 100kg bags (5tins) (1)

120 kg bags (6 tins) (2)

140 kg bags (7 tins) (3)

V16

d. Adjusted yield (adjusted to 100 kg bags)

V17

8. Was there any natural hazard(s) (eg drought) that affected your yield level in the last season?

1. No

2. Yes

V18

9. If yes, what was that? -----

10. If last season's yield was affected by natural hazards, what yield (in bags) do you normally get?

Total number of bags

V19

V20

Total number of bags when adjusted to 100kg bags

[11. The total and average maize yield of this farmer (bags/acre) is]

1. <10

Total No. of bags (for calculation) (V17 or V20)

V21

2. 10-20

3. 20-30

4. 30-40

5. >40

Average No. of bags/acre

V22

(This will also be used as an objective scale)

Code

V23

Percentage efficiency⁹

V24

Need Related Aspects

Perceived Current Efficiency

12. You told me your yield (Q7=V15) or normal yield (Q10=V19) is ----- bags.

How do you rate this yield on the following scale?

Very Low



Very High

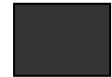


V25

1	2	3	4	5
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⁹ $V21/(V13*40)*100$

Degree of overrating (V25-V23)



V26

Percentage overrating¹⁰



V27

13. How many bags is “5” on the scale or what is the best yield one could get (bags) on your farm when using all the best maize production practices in a normal rainfall year?

1. <10

2. 10-20

3. 20-30

4. 30-40

5. >40

Actual no. of bags

V28

Av. No. per acre



V29

Code



V30

14 How many bags is “1” on the scale or what is the yield the worst farmer (not using any recommended practices) would get on your farm?

1. <10

2. 10-20

3. 20-30

4. 30-40

5. >40

Actual no. of bags

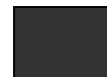
V31

Av. No. per acre



V32

Code



V33

Production efficiency

15. On a five point scale below how do you rate your efficiency as a maize farmer compared to other farmers in this area?

Worst or least
efficient farmer



Average farmer



Best or most
efficient farmer



1	2	3	4	5
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V34

¹⁰ $((V25-V23)-1)*100/4$

Need Tension

16. Your yield last year was (your normal yield is)bags. What were you striving for this year? V35

1. <10

Actual yield (bags)

2. 10-20

3. 20-30

Av. Yield (bags/acre)

4. 30-40

5. >40

Code

V36

V37

17. To what yield level were you striving for last season?

1. <10

Actual yield (bags)

2. 10-20

3. 20-30

Av. Yield (bags/acre)

4. 30-40

5. >40

Code

V38

V39

V40

18. What are your plans for the future in terms of yield that you want to achieve?

1. <10

Actual yield (bags)

2. 10-20

3. 20-30

Av. Yield (bags/acre)

4. 30-40

5. >40

Code

V41

V42

V43

19. How do you intend to achieve your future goal (Q. 18)?

1. -----

2. -----

3. -----

4. -----

. Researchers assessment based on responses in Q. 19

1. Not applicable (no future goal or aspiration)
2. Has no idea
3. Has some vague ideas
4. Has very clear, well set out goals

 V44

Research findings regarding optimum yield per acre = 40 bags

Calculation: Optimum No. of bags (Total) [V13*40]

 V45

Percentage of optimum [V21/(V13*40)*100]

 V46

Need Compatibility

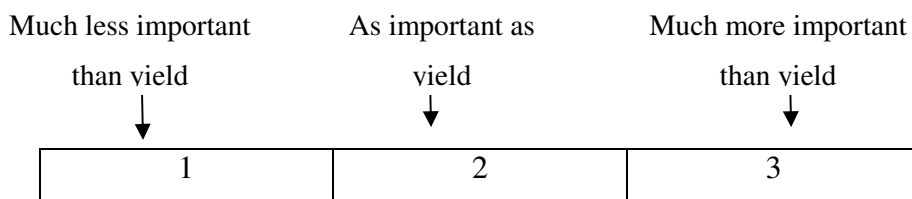
20. Do you think getting higher yields might in any way cause problems or concerns to you?

1. No
2. Yes

 V47

21. If yes, what could be problems or concerns?

22. Yield is important when choosing a maize variety, but other characteristics such as taste, grain quality, storability and early maturity. can also be important. (*Use assessment scale below*)



Do you regard taste to be more important than yield?

 V48

Do you regard grain quality to be more important than yield?

 V49

Do you regard storability to be more important than yield?

 V50

Do you regard early maturity to be more important than yield?

 V51

23. Could you please place the following characteristics in rank order of importance

Yield (1)

Taste (2)

Grain quality (3)

Storability (4)

Early maturity (5)

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V52-56

1st 2nd 3rd 4th 5th Position

24. In assessing your own grain crop (harvest of last season), how do you rate the following characteristics, using the following 5-point scale:

Very poor

Excellent



1	2	3	4	5
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Yield (1)

V57

Taste (2)

V58

Grain quality (3)

V59

Storability (4)

V60

Early maturity (5)

V61

E. ADOPTION OF RECOMMENDED PRACTICES

PRACTICE 1: RECOMMENDED MAIZE VARIETIES

25. Which maize varieties did you plant last season? Also indicate the source of seed and the area of your farm used to grow the variety you chose. Use the following codes to fill in the table.

	Variety and or Source	1 = Yes ↙	Source of seed		Proportion	
			Own seed (1)	Seed from neighbour (2)	Bought (seed merchant) (3)	%
1	Select from Hybrid					V62-64
2	Not recommended hybr.					V65-67
3	Select local (unknown)					V68-70
	Lomba-L					V71-73
	Kitale-L					V74-76
	Yellow-L					V77-79
4	TMV2					V80-82
5	H625					V83-85
	H628					V86-88
	UH 615					V89-91
	H614					V92-94
						V95-97
						V98-100

Researcher/Enumerator; Use the scale below to indicate this farmer's efficiency of variety choice

1	Select from previously planted hybrid
2	Buy hybrid (not recommended or optimal)
3	Select or buy local variety- unknown
	Select or buy Lomba, Kitale or Yellow
4	Buy composite (TMV2)
5	Buy hybrid (recommended)



V101

Need Related Aspects

Perceived Current Efficiency

26. How do you rate, on the following scale, the efficiency of your choice (decision) regarding varieties?

Very Low		Very High	
↓		↓	
1	2	3	4
5			1
			<input style="width: 40px; height: 20px;" type="text"/>
			V102

Need Tension

27. Did you change your variety since last season?

1. No

2. Yes

	V103
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28. If yes, what variety did you plant this season?

1	Select from previously planted hybrid
2	Buy hybrid (not recommended or optimal)
3	Select or buy local variety- unknown
	Select or buy Lomba, Kitale or Yellow
4	Buy composite (TMV2)
5	Buy hybrid (recommended)

	V104
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Awareness of Recommended Variety

29. What are the recommended maize seed varieties in this area?

- 0 Don't Know
- 1 Replanted hybrid
- 2 Non-recommended hybrids and composites Staha, situka , H6302, SC407,
SC403, SC513
- 3 Local varieties Kitale, Lomba, Yellow
- 4 Composites TMV2,
- 5 Recommended hybrids UH 615, H614, H625, SC627, P67, H628, S627

V105

30. What is your view about replanting hybrid seed? Do you support it or not?

- 1. Yes
- 2. Don't know
- 3. No - can't provide reasons
- 5. No – can provide reasons

V106

31 Farmer' knowledge of recommended hybrid (Assessment by enumerator)

- 1. Has no idea
- 2. Seems to have some knowledge
- 3. Has knowledge
- 4. Has very good knowledge

V107

Need Compatibility

32. a. (For those who used recommended hybrid maize variety) You told me your yield was ----bags. What do you think it would have been, had you used a local variety?
- b. (For those who did not use recommended maize variety) You told me your yield was ---bags. What do you think it would have been, had you used the recommended (hybrid) variety?

Actual no. of bags V108

Percentage change V109

Perception: Prominence

33. Which variety do you regard to be the best?

- 0 Don't Know
- 1 Replanted hybrid
- 2 Non-recommended hybrids and composites Staha, situka , H6302, SC407, SC403, SC513
- 3 Local varieties Kitale, Lomba, Yellow
- 4 Composites TMV2,
- 5 Recommended hybrids UH 615, H614, H625, SC627, P67, H628, S627

V110

Advantages and Disadvantages of Recommended Maize Varieties

34. What, in your opinion, are the advantages of improved maize seed varieties?

Please use the scale below to rate the importance of each of the advantages for yourself.

Very Low				Very High
↓				↓
1	2	3	4	5

35. What, in your opinion, are the disadvantages of improved maize seed varieties?

Please use the scale below to rate the importance of each of the disadvantages for yourself.

Very Low				Very High
↓				↓
1	2	3	4	5

36. a. (For adopters) We have talked about advantages of recommended hybrid varieties. Which of the advantages (in Q34) played an important role in your decision making? (*Indicate the answers in last column by using the following scale (Q34).*)

b. Which of the disadvantages weighed heavily at the time when you made the decision to adopt?

1. Unimportant
2. Little important (hardly considered)
3. Neutral/undecided
4. Important (serious consideration)
5. Very important (critical/decisive)

37. a. (For non-adopters) We have talked about the disadvantages of recommended hybrid varieties(Q. 35). Which of them played an important role in your decision not to adopt them.? (*Indicate the answers in last column by using the following scale.*)

b. Which of the advantages did you consider or were important at the time when you decided not to adopt the recommended hybrid variety?

Advantages and Disadvantages	Importance (1-5)	Importance in decision making . (1-5)	
ADVANTAGES			
1. High yield			V111-112
2. Early maturity			V113-114
3. Good taste			V115-116
4. Resistance to draught			V117-118
5. Resistance to diseases and pests			V119-120
6. Easy to harvest			V121-122
7. Migagi mizuri			V123-124
8.			
DISADVANTAGES			
1. Poor hauling quality of grains			V125-126
2. Less flour			V127-128
3. Don't fill the stomach			V129-130
4. Low storability			V131-132
5. Need for fresh seeds each season			V133-134
6. Rot while in the fields			V135-136
7. Buy expired seeds			V137-138
8. Yanashambuliwa migagi.			V139-140
10. Un availability of improved seeds			V141-142

11. High seeds costs			V143-144
12. High implementation costs			V145-146

Compatibility (Situational factors)

38. (For non-adopters) Had you wanted to adopt the recommended variety, is there anything that would have made it impossible or very difficult to do so?

.....

39. (For adopters) what made it difficult for you to adopt the recommended maize varieties?

.....

PRACTICE 2: FERTILIZER APPLICATION

40. Did you use fertilizer in your maize fields last season?

- 0. No
- 1. Yes

V147

41. If yes, what type of fertilizer did you use

- (a) at planting time (and how much)
- (b) as topdressing (and how much)

Type	Planting			Topdressing			
	Yes=1	Kg per acre	Total(farm)	Yes=1	Kg per acre	Total(farm)	
Nil							V148-153
TSP							V154-159
DAP							V160-165
MRP							V166-171
NPK							V172-177
CAN							V178-183
Urea							V184-189
FYM/Compost							V190-195
Other							V196-201

Phosphate fertilizers (TSP, DAP and MRP)

TSP or DAP, or NPK	MRP
(0) Nil	(0) Nil
(1) <20	(1) <40
(2) 20-30	(2) 40-60
(3) 30-40	(3) 60-80
(4) 40-50	(4) 80-100
(5)>50	(5)>100

V202

Nitrogen fertilizers (CAN or Urea or FYM)

<u>CAN or Urea(kg)</u>		<u>FYM (tins)</u>
(0)	Nil	Nil
(1)	<15	<160
(2)	15-30	160-320
(3)	30-45	320-480
(4)	45-60	480-640
(5)	60-75	640-800
(6)	>75	>800

V203

Topdressing with nitrogen

- (0) Nil V204
- (1) 100% at planting (75kg at planting)
- (2) 100% as topdressing (75kg as topdressing)
- (3) 50% at planting / 50 % as topdressing (equal at planting and topdressing)
- (4) 33% planting / 66% as topdressing (25Kg at planting and 50kg as topdressing)

Total Fertilization Assessment

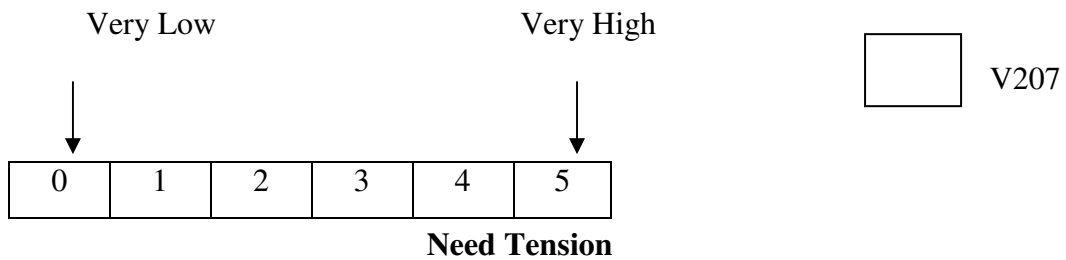
Total adoption score V205

- (0) Nil
- (1) 1-3
- (2) 4-6 V206
- (3) 7-9
- (4) 10-12
- (5) 13-15

Need Related Aspects

Perceived Current Efficiency

42. How do you rate, on the following scale, your general level of fertilization efficiency (or nutrient provision)?



43. Did you change your fertilization since last season?

V208

1. No

2. Yes

44. If yes, what type of fertilizer did you use this year

(c) at planting time (and how much) and

(d) as topdressing (and how much)?

Type	Planting			Topdressing			
	Yes=1	Kg per acre	Total(f arm)	Yes=1	Kg per acre	Total (farm)	
Nil							V209-214
TSP							V215-220
DAP							V221-226
MRP							V227-232
NPK							V233-238
CAN							V239-244
Urea							V245-249
FYM/Compost							V250-255
Other							V256-261

Phosphate fertilizers (TSP, DAP and MRP)

TSP or DAP, or NPK	MRP
(0) Nil	(0) Nil
(1) <20	(1) <40
(2) 20-30	(2) 40-60
(3) 30-40	(3) 60-80
(4) 40-50	(4) 80-100
(5)>50	(5) >100

V262

Nitrogen fertilizers (CAN or Urea or FYM)

	<u>CAN or Urea(kg)</u>	<u>FYM (tins)</u>	
(0)	Nil/don't know	Nil/Don't know	
(1)	<15	<160	<input type="checkbox"/> V263
(2)	15-30	160-320	
(3)	30-45	320-480	
(4)	45-60	480-640	
(5)	60-75	640-800	
(6)	>75	>800	

Time when Nitrogen fertilizer is applied

- | | | |
|-----|------------------------------------------------------------------------------|-------------------------------|
| (0) | Nil | <input type="checkbox"/> V264 |
| (1) | 100% at planting (75kg at planting) | |
| (2) | 100% as topdressing (75kg as topdressing) | |
| (3) | 50% at planting / 50 % as topdressing (equal at planting and topdressing) | |
| (4) | 33% planting / 66% as topdressing (25Kg at planting and 50kg as topdressing) | |

Total Fertilization Assessment

Total adoption score (Actual score) V265

- | | | |
|-----|-------|--------------------------------------|
| (0) | Nil | |
| (1) | 1-3 | |
| (2) | 4-6 | (Code) <input type="checkbox"/> V266 |
| (3) | 7-9 | |
| (4) | 10-12 | |
| (5) | 13-15 | |

AWARENESS OF RECOMMENDED FERTILIZATION

45. What are the recommended fertilizers and the recommended rates of application in your area

(b) at planting time (and how much) and

(c) as topdressing (and how much)?

Type	Planting			Topdressing			
	Yes=1	Kg per acre	Total(f arm)	Yes=1	Kg per acre	Total (farm)	
Nil							V267-272
TSP							V273-278
DAP							V279-284
MRP							V285-290
NPK							V291-296
CAN							V297-302
Urea							V303-308
FYM/Compost							V309-314
Other							V315-320

Phosphate fertilizers (TSP, DAP and MRP)

TSP or DAP, or NPK	MRP	
(0) Nil	(0) Nil	<input type="checkbox"/> V321
(1) <20	(1) <40	
(2) 20-30	(2) 40-60	
(3) 30-40	(3) 60-80	
(4) 40-50	(4) 80-100	
(5)>50	(5)>100	

Nitrogen fertilizers (CAN or Urea or FYM)

<u>CAN or Urea (kg)</u>		<u>FYM (tins)</u>	
(0)	Nil	Nil	
(1)	<15	<160	
(2)	15-30	160-320	<input type="checkbox"/> V322
(3)	30-45	320-480	
(4)	45-60	480-640	
(5)	60-75	640-800	
(6)	>75	>800	

Time when Nitrogen fertilizer will be applied

- (0) Nil V323
- (1) 100% at planting (75kg at planting)
- (2) 100% as topdressing (75kg as topdressing)
- (3) 50% at planting / 50 % as topdressing (equal at planting and topdressing)
- (4) 33% planting / 66% as topdressing (25Kg at planting and 50kg as topdressing)

Total Fertilization Assessment

- Total awareness score (Actual score V324)
- (0) Nil/don't know
 - (1) 1-3
 - (2) 4-6 (Code) V325
 - (3) 7-9
 - (4) 10-12
 - (5) 13-15

Need Compatibility

46. a. (For those who used the recommended fertilization) You told me your yield was ----bags. (i) What do you think it would have been, had you not used any fertilizer?

a. and b (i)

Actual No. of bags

V326

Percentage change

V327

b. (For those who did not fully use the recommended fertilization) You told me your yield was ---bags. (i)What do you think it would have been, had you used the recommended type and rates of fertilization

b (ii)

(ii) What do you think it would have been had you used no fertilizer at all?

Actual No. of bags

V328

Percentage change

V329

iii. Why don't you adopt the recommended fertilization?

.....

PERCEPTION: PROMINENCE

47. What, in your view, is the best fertilization (Type and rate and time of application

Type	Planting			Topdressing			
	Yes=1	Kg per acre	Total(f arm)	Yes=1	Kg per acre	Total (farm)	
Nil							V330-335
TSP							V336-341
DAP							V342-347
MRP							V348-353
NPK							V354-359
CAN							V360-365
Urea							V366-371
FYM/Compost							V372-377
Other							V378-383

Phosphate fertilizers (TSP, DAP and MRP)

TSP or DAP, or NPK	MRP
(0) Nil	(0) Nil
(1) <20	(1) <40
(2) 20-30	(2) 40-60
(3) 30-40	(3) 60-80
(4) 40-50	(4) 80-100
(5)>50	(5)>100

V384

Nitrogen fertilizers (CAN or Urea or FYM)

<u>CAN or Urea</u>	<u>FYM</u>
(0) Nil	Nil
(1) <15	<160
(2) 15-30	160-320
(3) 30-45	320-480
(4) 45-60	480-640
(5) 60-75	640-800
(6) >75	>800

V385

Time when Nitrogen fertilizer is applied

- (0) Nil
- (1) 100% at planting (75kg at planting)
- (2) 100% as topdressing (75kg as topdressing)
- (3) 50% at planting / 50 % as topdressing (equal at planting and topdressing)
- (4) 33% planting / 66% as topdressing (25Kg at planting and 50kg as topdressing)

V386

Total Fertilization Assessment

Total score Actual score) V387

(0) Nil/don't know

(1) 1-3

(2) 4-6 (Code) V388

(3) 7-9

(4) 10-12

(5) 13-15

Advantages of Recommended fertilizer

48. What in your opinion are the advantages of recommended fertilization? Please use the scale below to rate the importance of each of the advantages for yourself.

Very Low				Very High
↓				↓
1	2	3	4	5

49. What in your opinion are the disadvantages of recommended fertilization? Please use the scale below to rate the importance of each of the disadvantages for yourself.

Very Low				Very High
↓				↓
1	2	3	4	5

Advantages And Disadvantages	Importance (1-5)	Importance in decision making (1-5)	
ADVANTAGES			
1. High yield			V389-390
2. Facilitate growth			V391-392
3. Good grain quality			V393-394
4. High Stover yield			V395-396
5.			
6.			
7.			
8.			
DISADVANTAGES			
1. Destroy soil productivity			V397-398
2. Requires skills			V399-400
3. Effect in human body			V401-402
4. Higher labour requirements			V403-404
5. Reduce taste			V405-406
6. High fertilizer costs			V407-408
7. Unavailability of fertilizers when needed			V409-410
8. Unavailability of credits			V411-412
10.			
11.			
12.			
13.			

50. a. (For adopters) Which of the advantages (in Q49) played an important role in your decision making to adopt the recommended fertilization? (*Indicate the answers in last column by using the following scale.*)

b. Which of the disadvantages weighed heavily at the time when you made the decision to adopt?

1. Unimportant
2. Little important (hardly considered)
3. Neutral/undecided
4. Important (serious consideration)
5. Very important (critical/decisive)

51. (For non-adopters) (Q. 50). Which of disadvantages played an important role in your decision not to adopt the recommended fertilization (type and application rate)? (*Indicate the answers in last column by using the following scale.*)

b. Which of the advantages did you consider or were important at the time when you decided not to completely adopt the recommended fertilization?

1. Unimportant
2. Little important (hardly considered)
3. Neutral/undecided
4. Important (serious consideration)
5. Very important (critical/decisive)

Compatibility (Situational factors)

52. (For non-adopters) If you had wanted to adopt fully the recommended fertilization (type and rate of application), is there anything that would have made it impossible or very difficult for you to do so?

.....
.....
.....

53. (For adopters) what made it difficult for you to adopt the recommended maize varieties?

.....

PRACTICE 3: SPACING

54. How many seeds do you plant per hill?

- 1. One seed per hill
- 2. Two seeds per hill
- 3. Three seeds per hill
- 4. Others, specify

V413

55. Which spacing (in cm) do you use when

a) Planting 1 seed per hill?	b) Planting 2 seeds per hill?
1. Broadcasting	1. Broadcasting
2. <20 X <60	2. <25 X <75
3. 20-25 X 60-75	3. 25-50 X 75-90
4. 25-30 X (60)75-90	4. 50 X 90
5.(3) > 30 X 90	5.(3) > 50 X 90

Category

V414

Score

V415

Need Related Aspects
Perceived Current Efficiency

56. How do you rate, on the following scale, your general level of spacing efficiency?

Very Low

Very High



1	2	3	4	5
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V416

Need Tension

57. Have you changed your seeding rate since last season?

- 1. No
- 2. Yes

V417

58. If yes, what spacing did you use this year?

- a) Planting 1 seed per hill
- b) Planting 2 seeds per hill

Category

V418

a) Planting 1 seed per hill?	b) Planting 2 seeds per hill?
1. Broadcasting	1. Broadcasting
2. <20 X <60	2. <25 X <75
3. 20-25 X 60-75	3. 25-50 X 75-90
4. 25-30 X (60)75-90	4. 50 X 90
5.(3) > 30 X 90	5.(3) > 50 X 90

Score

V419

Need Compatibility

59. You told me earlier (Q.7) that your yield is ----- What do you think it would have been

(a) if you increased your populæ Actual and %age
(give example on spacing)

V420-421

(b) if you decreased your population? Actual and %age

V422-423

Awareness of Recommended Spacing

60. What is the recommended spacing for maize production?

a) Planting 1 seed per hill?	b) Planting 2 seeds per hill?
0. Don't know	0. Don't know
1. Broadcasting	1. Broadcasting
2. <20 X <60	2. <25 X <75
3. 20-25 X 60-75	3. 25-50 X 75-90
4. 25-30 X (60)75-90	4. 50 X 90
5.(3) > 30 X 90	5.(3) > 50 X 90

Category V424

Score V425

Perception

Prominence

61. What, in your view, is the best spacing for this area?

a) Planting 1 seed per hill?	b) Planting 2 seeds per hill?
0. Don't know	0. Don't know
1. Broadcasting	1. Broadcasting
2. <20 X <60	2. <25 X <75
3. 20-25 X 60-75	3. 25-50 X 75-90
4. 25-30 X (60)75-90	4. 50 X 90
5.(3) > 30 X 90	5.(3) > 50 X 90

Category V426

Score V427

Measurement in field:

(a) No of plants counted	Sample A (2.1msq)..... Sample B	<input style="width: 50px; height: 20px;" type="text"/>	V428
No of plants/acre based on block count		<input style="width: 50px; height: 20px; background-color: black;" type="text"/>	V429
No. of plants/acre based on reported spacing for this year (V411)		<input style="width: 50px; height: 20px; background-color: black;" type="text"/>	V430
Percentage over-estimation		<input style="width: 50px; height: 20px; background-color: black;" type="text"/>	V431

PRACTICE 4: WEED CONTROL

62. How do you control weeds in your maize fields?

(a) When do you start hoeing:

- | | | |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------|
| (1) When maize is <15cm
(2) When maize is 15-30cm
(3) When maize is 30-45cm
(4) When at knee height or later | <input style="width: 50px; height: 20px;" type="text"/> | V432 |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------|

(b) How long does it take you, considering the weather and the help that you normally have at your disposal, to hoe your maize field once.

- | | | |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------|
| <ul style="list-style-type: none"> ▪ Number of days | <input style="width: 50px; height: 20px;" type="text"/> | V433 |
| <ul style="list-style-type: none"> ▪ Interval between two operations (days) | <input style="width: 50px; height: 20px;" type="text"/> | V434 |
| <ul style="list-style-type: none"> ▪ Total interval | <input style="width: 50px; height: 20px; background-color: black;" type="text"/> | V435 |

(c) Do you have the following weeds: (X)

(1) Couch grass

(2) Nut grass

(3) Wandering Jew

Number of types:

V436

(d) How often do you hoe your maize

(1) Less than once

(2) Once

(3) Twice

(4) Three times or more

V437

63. How do you rate your weed control efficiency using the following scale?

Very poor

Very

V438

1	2	3	4	5
---	---	---	---	---

b. Can you please tell me what is "5"

.....

.....

.....

64. How do you rate the degree of weed infestation as a problem on your farm, when using the following scale?

No

Same as

Very serious

problem



1	2	3	4	5
---	---	---	---	---

V439

65. Your current yield isbags. What do you think it would have been

(a) if your maize had always been free of weeds No of bags: V440

% Increase V441

(b) If you had not controlled weeds at all

No of bags: V442

% decrease V443

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