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Sections: 35, Sub-sections: 38,
Questions: 1015.
Questions with conditions: 656
Rosters: 47
Variables: 0

Survey Solutions

ConservationAdoptionMalawi2016

[A] COVER PAGE
Sub-sections: 1, No rosters, Questions: 23, Static texts: 5.

[B-1] HOUSEHOLD ROSTER - BASIC INFORMATION
No sub-sections, Rosters: 1, Questions: 6, Static texts: 1.

[B-2] HOUSEHOLD ROSTER - MEMBER DETAILS
No sub-sections, Rosters: 1, Questions: 11.

[C] EDUCATION
No sub-sections, Rosters: 1, Questions: 24, Static texts: 1.

[D] BRIDE PRICE (LOBOLA) - ONLY FOR HOUSEHOLD HEAD
No sub-sections, Rosters: 1, Questions: 23, Static texts: 1.

[E] TIME USE & LABOUR
Sub-sections: 3, Rosters: 1, Questions: 41, Static texts: 1.

[H] FOOD SECURITY
No sub-sections, No rosters, Questions: 4.

[M] FARM IMPLEMENTS, MACHINERY, AND STRUCTURES
No sub-sections, Rosters: 1, Questions: 15.

[N] HOUSEHOLD ENTERPRISES
No sub-sections, Rosters: 4, Questions: 61, Static texts: 1.

[P] OTHER INCOME
No sub-sections, Rosters: 1, Questions: 5.

[S] CREDIT
No sub-sections, Rosters: 1, Questions: 22, Static texts: 1.

[T] SUBJECTIVE ASSESSMENT OF WELL-BEING
No sub-sections, No rosters, Questions: 17.

[U] SHOCKS & COPING STRATEGIES
No sub-sections, Rosters: 1, Questions: 11, Static texts: 1.

[V] LEAD FARMER PART
No sub-sections, Rosters: 3, Questions: 32.

[V2] CONSERVATION TECHNOLOGY PART FOR PANEL HHS AND FOLLOWERS OF LEAD FARMERS
No sub-sections, Rosters: 1, Questions: 11.

[X] FILTER QUESTIONS FOR AGRICULTURE QUESTIONNAIRE
No sub-sections, No rosters, Questions: 10, Static texts: 1.

[AG-B_1] GARDEN (MUNDA) ROSTER- (RAINY SEASON)
No sub-sections, Rosters: 1, Questions: 19, Static texts: 1.

[AG-B_2] GARDEN DETAILS - (RAINY SEASON)
No sub-sections, Rosters: 1, Questions: 59, Static texts: 4.

[AG-C] PLOT ROSTER- (RAINY SEASON)
No sub-sections, Rosters: 2, Questions: 15, Static texts: 1.

[AG-D] PLOT DETAILS (RAINY SEASON)
Sub-sections: 8, Rosters: 5, Questions: 129.

[AG-E] COUPON USE (RAINY SEASON)
Sub-sections: 4, Rosters: 4, Questions: 62, Static texts: 1.

[AG-F] OTHER INPUTS (RAINY SEASON)
Sub-sections: 13, Rosters: 2, Questions: 100.

[AG-G] CROPS (RAINY SEASON)
No sub-sections, Rosters: 3, Questions: 18.

[AG-H] SEEDS (RAINY SEASON)
Sub-sections: 3, Rosters: 1, Questions: 33.

[AG-I]: SALES/STORAGE (RAINY SEASON)
Sub-sections: 2, Rosters: 1, Questions: 54.

[AG-O_1] ADDITIONAL TREE/PERMANENT CROP PARCEL ROSTER
No sub-sections, Rosters: 1, Questions: 16, Static texts: 1.

[AG-O_2] PLOT ROSTER-TREE/PERMANENT CROPS
No sub-sections, Rosters: 1, Questions: 19, Static texts: 1.

[AG-P] TREE/PERMANENT CROP PRODUCTION-LAST 12 MONTHS
Sub-sections: 1, Rosters: 1, Questions: 13.

[AG-Q]: TREE/PERMANENT CROP SALES AND STORAGE
Sub-sections: 2, Rosters: 1, Questions: 49.

[AG-R] LIVESTOCK
No sub-sections, Rosters: 1, Questions: 26.

[AG-S] LIVESTOCK PRODUCTS
No sub-sections, Rosters: 1, Questions: 24.

[AG-T] ACCESS TO EXTENSION SERVICES
Sub-sections: 1, Rosters: 2, Questions: 16.

[AG-U] LAND DISPOSITION
No sub-sections, Rosters: 1, Questions: 18.

[AG-V] LAND TENURE
No sub-sections, Rosters: 1, Questions: 28.

QUESTIONNAIRE WRAP-UP
No sub-sections, No rosters, Questions: 1.

APPENDIX A — ENABLING CONDITIONS

APPENDIX B — VALIDATION CONDITIONS AND MESSAGES

APPENDIX C — INSTRUCTIONS

APPENDIX D — OPTIONS

LEGEND

[A] COVER PAGE

STATIC TEXT

ENUMERATOR: PLEASE RECORD THE CURRENT LOCATION OF THE HOUSEHOLD. Please confirm this information with your supervisor

IHS REGION (USED FOR VALIDATIONS)	SINGLE-SELECT `ihs region` 100 ◯ North 200 ◯ Central 300 ◯ Southern
A01. DISTRICT	SINGLE-SELECT: CASCADING `hh a01` 101 ◯ Chitipa 102 ◯ Karonga 103 ◯ Nkhata Bay 104 ◯ Rumphi 105 ◯ Mzimba 106 ◯ Likoma 107 ◯ Mzuzu City 201 ◯ Kasungu 202 ◯ Nkhotakota 203 ◯ Ntchisi 204 ◯ Dowa 205 ◯ Salima 206 ◯ Lilongwe 207 ◯ Mchinji 208 ◯ Dedza 209 ◯ Ntcheu And 16 other [1]
A02a. EPA Code	NUMERIC: INTEGER `hh_a02a` SCOPE: PREFILLED

	.....
A02b. Section name	TEXT hh_a02b SCOPE: PREFILLED .....
A03b. ENUMERATOR: IS THIS VILLAGE RURAL OR URBAN?	SINGLE-SELECT hh_a03b 01 ◯ URBAN 02 ◯ RURAL
A04. VILLAGE/PLACE NAME	TEXT hh a04 .....
A04b. EXTENSION PLANNING AREA	TEXT hh a04b .....
A05. HOUSEHOLD TYPE	SINGLE-SELECT hh_a05 SCOPE: PREFILLED 01 ◯ PANEL HOUSEHOLD 02 ◯ LEAD FARMER 03 ◯ FOLLOWER OF LEAD FARMER
A06. PLEASE RECORD THE HOUSEHOLD ID V1 self>0 M1 Please enter a valid number.	NUMERIC: INTEGER hh_a06 SCOPE: PREFILLED .....

STATIC TEXT

ENUMERATOR: PLEASE ENTER THE FOLLOWING INFORMATION ABOUT THE HOUSEHOLD. The required information can be found pre-loaded in form T-0 and the Main Menu.

A10. NAME OF HOUSEHOLD HEAD	TEXT hh a10 .....

STATIC TEXT

ENUMERATOR: PLEASE ASK FOR THE NAME OF THE CURRENT HOUSEHOLD HEAD. Do not simply copy the name of the head from the pre-loaded information.

A13. CURRENT NAME OF HOUSEHOLD HEAD	TEXT hh_a13 SCOPE: PREFILLED .....

A16a. ENUMERATOR: Please record the GPS coordinates of the dwelling. LATITUDE

I DON'T FORGET TO SAVE THE COORDINATES ON YOUR GPS UNIT. SAVE COORDINATES AS THE 12-DIGIT HHID! EXAMPLE: "301107310001"

GPS hh a16a

N W A

A17a. ENUMERATOR: RECORD THE WEATHER CONDITION AT TIME OF MEASUREMENT:

SINGLE-SELECT hh a17a

01 ◯ Clear/Sunny

02 ◯ Mostly Clear / Mostly Sunny

03 ◯ Partly Cloudy / Partly Sunny

04 ◯ Mostly Cloudy / Considerable Cloudiness

05 ◯ Completely Cloudy

06 ◯ Rainy

A18a. PHONE NUMBER FOR HOUSEHOLD HEAD

I Put 0000-000-000 if no phone

TEXT hh a18a

ENUMERATOR: Does the Household Head have another Phone Number?

SINGLE-SELECT othphone

01 ◯ YES

02 ◯ NO

STATIC TEXT

ENUMERATOR: RECORD CONTACT INFORMATION FOR A PERSON LIVING NEAR THE HOUSEHOLD THAT WOULD BE LIKELY TO KNOW THEIR WHEREABOUTS IN A FUTURE YEAR.

[A] COVER PAGE

CONTACT INFORMATION REFERENCE PERSON

A19a. NAME

TEXT hh_a19a

A19b. RELATIONSHIP TO HEAD

TEXT hh a19b

A19c. PHONE

V1 self.Length==12

M1 Please confirm the phone number entered.

TEXT hh a19c

Interview date

DATE: MM/DD/YYYY interviewDate

V1 $interviewdate
M1 Unlikely start date. Please confirm.

A22. SUPERVISOR

NUMERIC: INTEGER hh_a22

A23. ENUMERATOR

NUMERIC: INTEGER hh a23

STATIC TEXT

CONVEY THE FOLLOWING INFORMATION TO THE RESPONDENT: LUANAR University in Collaboration With Norwegian University of Life Sciences have since 2006 carried out a household survey that includes Your District and village. The data from the survey are used for capacity building of students and to learn about living conditions of Malawian farm households. The findings from the research are published and may be read by policy makers and thus indirectly have some impact on policies. The data collected are treated as confidential and no private information is made publicly available. This time Lead farmers and followers of lead farmers are also included in the survey to learn more about their experiences with Conservation agriculture Technologies which are of particular focus in this survey. The lessons about these Technologies will be disseminated to the relevant bodies in Malawi. The objective of this survey is to learn more about technolgies that have performed better under difficult climate conditions such as drought and flood and based on that to develop better knowledge about appropriate Technology Choice. We hope you are willing to participate in the survey and inform us about Your experiences and living conditions and that you tell us truthful information to the best of your knowledge. Households that have been part of this survey also in earlier years will this year like in 2012 be asked also to participate in some Experiments that will also give some rewards that also serve to compesate for the time involvement in the survey.

Do you agree to participate in the survey?

SINGLE-SELECT consent

I Do not record an answer to this question until you have conveyed th e introductory statement to the respondent.

01 ◯ YES

02 ◯ NO

PLEASE STATE THE REASON FOR REFUSAL

TEXT refusal

E consent == 2

[B-1] HOUSEHOLD ROSTER - BASIC INFORMATION

ENUMERATOR: RECORD START TIME: HOUR:

NUMERIC: INTEGER moduleB startHr

I Please use 24-hour time.
V1 self.InRange(5,22)
M1 Please enter a valid start hour for the module

MINUTES:

NUMERIC: INTEGER moduleB startMin

V1 self.InRange(0,59)
M1 Please enter a valid start minutes for the module

STATIC TEXT

IN ORDER TO MAKE A COMPREHENSIVE LIST OF INDIVIDUALS CONNECTED TO THE HOUSEHOLD, USE THE FOLLOWING PROBE QUESTIONS: First, give me the names of all the members of your immediate family who normally live and eat their meals together here. WRITE DOWN NAMES, SEX, AND RELATIONSHIP TO HH HEAD (B02 to B04). LIST HOUSEHOLD HEAD ON LINE 1. Then, give me the names of any other persons related to you or other household members who normally live and eat their meals together here. FILL IN B02 to B04. Are there any other persons not here now who normally live and eat their meals here? For example, household members studying elsewhere or traveling. FILL IN B02 to B04. Then, give me the names of any other persons not related to you or other household members, but who normally live and eat their meals together here, such as servants, lodgers, or other who are not relatives. FILL IN B02 to B04. DO NOT LIST SERVANTS WHO HAVE A HOUSEHOLD ELSEWHERE, AND GUESTS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE.

B02. NAME MAKE A COMPLETE LIST OF ALL INDIVIDUALS WHO NORMALLY LIVE AND EAT THEIR MEALS TOGETHER IN THIS HOUSEHOLD, STARTING WITH THE HEAD OF HOUSEHOLD. FILL IN B02 TO B04 BEFORE COMPLETING QUESTIONS B04_1 AND FOLLOWING.

LIST hh_b02

[B-1] HOUSEHOLD ROSTER - BASIC INFORMATION

Roster: HOUSEHOLD ROSTER hhroster

generated by list question hh_b02

Name

TEXT hh_b02b

B03. SEX

SINGLE-SELECT hh_b03

V1 (hh_b04== 1 && (hhroster.Count (x=>x.hh_b04 ==2 && x.hh_b03 ==hh_b03) ==0)) || (hh_b04== 2 && (hhroster.Count (x=>x.hh_b04==1 && x.hh_b03==hh_b03) ==0)) || (hh_b04 >2 || hh_b04 == null)

M1 It is unlikely that the head and his/her spouse have the same sex. Please confirm.

01 ◯ MALE

02 ◯ FEMALE

B04. RELATIONSHIP TO HEAD:

SINGLE-SELECT: COMBO BOX hh_b04

V1 (hh_b04== 1 && (hhroster.Count(x=>x.hh_b04==1)==1)) || (hh_b04>1)

M1 There must be only one person in the household designated as head.

01 ◯ HEAD

02 ◯ WIFE/HUSBAND

03 ◯ CHILD/ADOPTED CHILD

04 ◯ GRANDCHILD

05 ◯ NIECE/NEPHEW

06 ◯ FATHER/MOTHER

07 ◯ SISTER/BROTHER

08 ◯ SON/DAUGHTER-IN-LAW

09 ◯ BROTHER/SISTER-IN-LAW

10 ◯ GRANDFATHER/MOTHER

11 ◯ FATHER/MOTHER-IN-LAW

12 ◯ OTHER RELATIVE

13 ◯ SERVANT OR SERVANT'S RELATIVE

14 ◯ LODGER/LODGER'S RELATIVE

15 ◯ OTHER NON-RELATIVE

16 ◯ OTHER (SPECIFY)

[B-2] HOUSEHOLD ROSTER - MEMBER DETAILS

[B-2] HOUSEHOLD ROSTER - MEMBER DETAILS

Roster: MEMBER DETAILS

generated by list question hh_b02

member_details

B05a. How old is %rostertitle%?

NUMERIC: INTEGER

hh_b05a

I IN YEARS IF 6 YEARS AND OVER, GIVE YEARS ONLY. IF LESS THAN 6 YEARS IN AGE, GIVE YEARS AND MONTHS

V1 hh_b05a.InRange(0,100)

M1 Reported age is unlikely. Please confirm.

B05b. If less than 6 years of age, how many months since %rostertitle%'s last birthday?

NUMERIC: INTEGER

hh b05b

I IN MONTHS. IF LESS THAN 6 YEARS IN AGE, GIVE YEARS AND MON THS

E hh_b05a<=5

V1 hh_b05b.InRange(0,11)

M1 Reported age is unlikely. Please confirm.

B06a. When was %rostertitle% born?

SINGLE-SELECT: COMBO BOX

hh b06a

I MONTH

01 ◯ JANUARY

02 ◯ FEBRUARY

03 ◯ MARCH

04 ◯ APRIL

05 ◯ MAY

06 ◯ JUNE

07 ◯ JULY

08 ◯ AUGUST

09 ◯ SEPTEMBER

10 ◯ OCTOBER

11 ◯ NOVEMBER

12 ◯ DECEMBER

B06b. YEAR

NUMERIC: INTEGER hh_b06b

I 4-DIGIT

V1 hh_b06b.InRange(1915,2017)

M1 Year of birth is inconsistent with age in completed years, or year of bir th is unlikely. Please confirm.

B07. For how many months during the past 12 months (since MONTH/ YEAR) has %rostertitle% been away from this household?

NUMERIC: INTEGER hh_b07

I CUMULATED MONTHS

V1 self.InRange(0,12)

M1 Please enter a valid number of months. The member cannot have be en away for more than 12 months in the past 12 months.

B22. ASK OF ONLY HH HEAD: What language do you speak at home?

SINGLE-SELECT: COMBO BOX hh_b22

E hh_b04==1

01 ◯ CHEWA

02 ◯ NYANJA

03 ◯ YAO

04 ◯ TUMBUKA

05 ◯ LOMWE

06 ◯ NKHONDE

07 ◯ NGONI

08 ◯ SENA

09 ◯ NYAKYUSA

10 ◯ TONGA

11 ◯ LAMBYA

12 ◯ SENGA

13 ◯ SUKWA

14 ◯ ENGLISH

15 ◯ OTHER

B24. What is %rostertitle%'s present marital status?

E hh_b05a>=12

SINGLE-SELECT hh_b24

01 ◯ MONOGAMOUS MARRIED OR NON-FORMAL UNION

02 ◯ POLYGAMOUS MARRIED OR NON-FORMAL UNION

03 ◯ SEPARATED

04 ◯ DIVORCED

05 ◯ WIDOW OR WIDOWER

06 ◯ NEVER MARRIED

B24_1. Under what type of marriage custom (tradition) did %rostertitle% marry or form a consensual union with his / her spouse?

E hh_b24.InList(1,2) && hh_b05a>=12

SINGLE-SELECT hh_b24_1

01 ◯ PATRILINEAL

02 ◯ MATRILINEAL

03 ◯ OTHER (SPECIFY)

B24_1_oth. Other marital status.

E hh_b24_1==3

TEXT hh_b24_1_oth

B25. Does %rostertitle%'s spouse live in this household now?

E hh_b24.InList(1,2) && hh_b05a>=12

SINGLE-SELECT hh_b25

01 ◯ YES

02 ◯ NO

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE B:

SINGLE-SELECT: LINKED hh moduleB respondent

[C] EDUCATION

STATIC TEXT

ASK OF ALL PERSONS AGED 5 YEARS AND OLDER.

[C] EDUCATION

Roster: HOUSEHOLD ROSTER: EDUCATION hhroster_ed

generated by list question hh_b02

E hh_b05a>=5

C05a. Is %rostertitle% able to read and write in Chichewa language?

SINGLE-SELECT hh_c05a

01 ◯ YES

02 ◯ NO

C05b. Is %rostertitle% able to read and write in English language?

SINGLE-SELECT hh_c05b

01 ◯ YES

02 ◯ NO

C06. Has %rostertitle% ever attended school?

SINGLE-SELECT hh_c06

01 ◯ YES

02 ◯ NO

C07. What was the reason %rostertitle% never attended school?

I LIST UP TO 2 REASONS

E hh_c06==2

MULTI-SELECT: ORDERED hh_c07

01 ☐ STILL TOO YOUNG TO ATTEND SCHOOL

02 ☐ NO MONEY FOR FEES, UNIFORM

03 ☐ POOR QUALITY OF SCHOOLS

04 ☐ ILLNESS OR DISABILITY

05 ☐ NOT INTERESTED, LAZY

06 ☐ PARENTS DID NOT LET ME

07 ☐ HAD TO WORK OR HELP AT HOME

08 ☐ SCHOOL TOO FAR FROM HOME

09 ☐ SCHOOL CONFLICT WITH BELIEFS

10 ☐ OTHER (SPECIFY)

C07_oth. Specify the reason %rostertitle% never attended school.

E hh_c07.Contains(10)

TEXT hh_c07_oth

C08. What class is %rostertitle% in or what was the highest class level %rostertitle% ever attended?

E hh_c06==1

SINGLE-SELECT: COMBO BOX hh_c08

00 ◯ NURSERY/PRE-SCHOOL

01 ◯ PRIMARY STND 1

02 ◯ PRIMARY STND 2

03 ◯ PRIMARY STND 3

04 ◯ PRIMARY STND 4

05 ◯ PRIMARY STND 5

06 ◯ PRIMARY STND 6

07 ◯ PRIMARY STND 7

08 ◯ PRIMARY STND 8

09 ◯ SECONDARY FORM 1

10 ◯ SECONDARY FORM 2

11 ◯ SECONDARY FORM 3

12 ◯ SECONDARY FORM 4

13 ◯ SECONDARY FORM 5

14 ◯ SECONDARY FORM 6

15 ◯ UNIVERSITY 1

And 8 other [2]

C09. What is the highest educational qualification %rostertitle% has acquired?

E hh_c06==1

SINGLE-SELECT hh_c09

01 ◯ NONE

02 ◯ PSLC

03 ◯ JCE

04 ◯ MSCE

05 ◯ NON-UNIV DIPLOMA

06 ◯ UNIVER DIPLOMA, DEGREE

07 ◯ POST-GRAD DEGREE

08 ◯ Informal education

C10. How old was %rostertitle% when he/she started school?

I YEARS

E hh_c06==1

V1 hh_c10 <= hh_b05a && hh_c10>=3

M1 Response cannot be greater than household member's age. Please record a valid age.

NUMERIC: INTEGER hh_c10

C11. Did %rostertitle% attend school in the

SINGLE-SELECT hh_c11

last completed academic year?

E hh_c06==1

01 ◯ YES

02 ◯ NO

C12. What class was %rostertitle% in during the last completed academic year?

E hh_c11==1

V1 self==hh_c08 || self==hh_c08-1

M1 Current class level and/or highest level completed(C08) must be consi stent with response. Please confirm.

SINGLE-SELECT: COMBO BOX hh_c12

00 ◯ NURSERY/PRE-SCHOOL

01 ◯ PRIMARY STND 1

02 ◯ PRIMARY STND 2

03 ◯ PRIMARY STND 3

04 ◯ PRIMARY STND 4

05 ◯ PRIMARY STND 5

06 ◯ PRIMARY STND 6

07 ◯ PRIMARY STND 7

08 ◯ PRIMARY STND 8

09 ◯ SECONDARY FORM 1

10 ◯ SECONDARY FORM 2

11 ◯ SECONDARY FORM 3

12 ◯ SECONDARY FORM 4

13 ◯ SECONDARY FORM 5

14 ◯ SECONDARY FORM 6

15 ◯ UNIVERSITY 1

And 8 other [3]

C13. Is %rostertitle% currently attending school or, if school is not now in session, did he/she attend school in the session just completed and plan to attend next session?

E hh_c06==1

SINGLE-SELECT hh_c13

01 ◯ YES

02 ◯ NO

C14. Why did %rostertitle% not continue his/her education?

E hh_c13==2

SINGLE-SELECT: COMBO BOX hh_c14

01 ◯ ACQUIRED ALL EDUCATION WANTED

02 ◯ NO MONEY FOR FEES OR UNIFORM

03 ◯ TOO OLD TO CONTINUE

04 ◯ MARRIED / BECAME PREGNANT

05 ◯ ILLNESS OR DISABILITY

06 ◯ FOUND WORK

07 ◯ NOT INTERESTED, LAZY

08 ◯ PARENTS TOLD ME TO STOP

09 ◯ HAD TO WORK OR HELP AT HOME

10 ◯ POOR/CROWDED SCHOOL FACILITIES

11 ◯ POOR QUALITY INSTRUCTION

12 ◯ TEACHERS OFTEN ABSENT

13 ◯ SCHOOL TOO DANGEROUS FOR GIRLS

14 ◯ SCHOOL TOO FAR FROM HOME

15 ◯ SCHOOL CONFLICT W/ BELIEFS

16 ◯ FAILED PROMOTION EXAM

And 2 other [4]

C14_oth. Specify why %rostertitle% did not continue his/her education.

E hh_c14==18

TEXT hh_c14_oth

.....

C15. In which calendar year did %rostertitle% last attend school?

I RECORD CALENDAR YEAR

E hh_c13==2

V1 self.InRange(1940,2016) && (self>hh_b06b)

M1 Year reported is unlikely. Please confirm.

NUMERIC: INTEGER hh_c15

.....

C16. What type of school does %rostertitle% attend?

E hh_c13==1

SINGLE-SELECT: COMBO BOX hh_c16

11 ◯ PRIMARY LEA/GOVERNMENT

12 ◯ PRIMARY PRIVATE NON-RELIGIOUS

13 ◯ PRIMARY CHURCH/MISSION SCHOOL

14 ◯ PRIMARY ISLAMIC SCHOOL

15 ◯ PRIMARY OTHER

21 ◯ SECONDARY GOVERNMENT(CONVENTIONAL)

22 ◯ SECONDARY COMMUNITY DAY (CDSS)

23 ◯ SECONDARY CHURCH/MISSION SCHOOL

24 ◯ SECONDARY ISLAMIC SCHOOL

25 ◯ SECONDARY NIGHT SCHOOL

26 ◯ SECONDARY OTHER

31 ◯ TERTIARY UNIVERSITY

32 ◯ TERTIARY TRAINING COLLEGE

33 ◯ TERTIARY OTHER

C17. Is %rostertitle% a day scholar or a boarder at the school?

E hh_c13==1

SINGLE-SELECT hh_c17

01 ◯ DAY SCHOLAR

02 ◯ BOARDER

C18. How does %rostertitle% get to school each day?

E hh_c13==1 && hh_c17==1

SINGLE-SELECT hh_c18

01 ◯ FOOT

02 ◯ BICYCLE

03 ◯ BUS/MINIBUS

04 ◯ PRIVATE VEHICLE

05 ◯ OTHER(SPECIFY)

C18_oth. Specify how %rostertitle% gets to school each day.

E hh_c18==5

TEXT hh_c18_oth

C19a. How long does it usually take %rostertitle% to get to school by this means of transport?

I TIME AMOUNT

E hh_c13==1 && hh_c17==1

NUMERIC: INTEGER hh_c19a

C19b. How long does it usually take %rostertitle% to get to school by this means of transport?

I UNIT

E hh_c13==1 && hh_c17==1

V1 (hh_c19b==1 && hh_c19a<60) || (hh_c19b==2 && hh_c19a<=2)

M1 The amount of time reported that it takes to get to school is very high. Please confirm response is correct.

SINGLE-SELECT hh_c19b

01 ◯ MINUTE

02 ◯ HOUR

C20. At any time in the past 12 months, did

SINGLE-SELECT hh_c20

%rostertitle% ever temporarily withdraw from school, so that he or she missed more than two consecutive weeks of instruction?

E hh_c13==1

01 ◯ YES

02 ◯ NO

C21. What was the main reason %rostertitle% temporarily withdrew from school?

E hh_c20==1

SINGLE-SELECT hh_c21

01 ◯ NO MONEY FOR NECESSARY EXPENSES

02 ◯ OWN-ILLNESS

03 ◯ HELP NEEDED AT HOME

04 ◯ SUSPENSION

05 ◯ TEACHERS ON STRIKE

06 ◯ TEACHERS ABSENT

07 ◯ FUNERAL

08 ◯ OTHER(SPECIFY)

C21_oth. Specify the main reason %rostertitle% temporarily withdrew from school.

E hh_c21==8

TEXT hh_c21_oth

C22a. How much was spent on %rostertitle%'s education in the last 12 months by the household, family, and friends for: Tuition, Tutoring, Books & Stationary, School uniform, Boarding fees, Transport to/from school & Other contributions to the school?

I IN MK. IF NOTHING WAS SPENT, RECORD ZERO. IF THE RESPONDENT CAN ONLY GIVE A TOTAL AMOUNT, RECORD "999999" IN THE RELEVANT QUESTIONS, AND THE TOTAL AMOUNT IN THE LAST QUESTION.

E hh_c13==1 || hh_c15.InRange(2015,2016) && hh_c06 == 1

V1 (hh_c12.InList(1,2,3,4,5,6,7,8) && (((double?)self).InRange(0,90000))) || (hh_c12.InList(9,10,11,12,13,14) && (((double?)self).InRange(5000,200000)||self==0)) || (hh_c12.InList(15,16,17,18,19,20,21,2
And 78 other symbols [1]

M1 Value out of range. Please enter a valid tuition expenditure amount.

NUMERIC: INTEGER hh_c22a

[D] BRIDE PRICE (LOBOLA) - ONLY FOR HOUSEHOLD HEAD

D2. How many times have you married?

I If never married, enter 0.

NUMERIC: INTEGER hh_d2

STATIC TEXT

E hh_d2>=2

If you have been married more than once, start with the first marriage, then the second, and so on.

[D] BRIDE PRICE (LOBOLA) - ONLY FOR HOUSEHOLD HEAD

Roster: MARRIAGE

hh_d_marriage

generated by numeric question hh_d2

E hh_d2>=1

D3. How old were you when you married?

NUMERIC: INTEGER hh_d3

.....

D4. How old was your wedding partner?

NUMERIC: INTEGER hh_d4

.....

D5a. In what year did you marry?

NUMERIC: INTEGER hh_d5a

V1 self>1900 && self<2017

M1 Please enter a valid year.

.....

D5b. In what month in %hh_d5a% did you marry?

SINGLE-SELECT hh_d5b

01 ◯ January

02 ◯ February

03 ◯ March

04 ◯ April

05 ◯ May

06 ◯ June

07 ◯ July

08 ◯ August

09 ◯ September

10 ◯ October

11 ◯ November

12 ◯ December

D6. Who moved where upon marriage?

SINGLE-SELECT hh_d6

01 ◯ Wife moved to husband

02 ◯ Husband moved to wife

03 ◯ Both moved to new village

04 ◯ Both were from same village, stayed there

05 ◯ Both were from same village, moved to new village/town

06 ◯ Other

D6_oth. If other, please specify:

E hh_d6==6

TEXT hh d6 oth

.....

D7a. Upon marriage, did the bride's parents receive a bride price (lobola) for their daughter?

SINGLE-SELECT hh d7a

01 ◯ Yes

00 ◯ No

D7b. Who made the payment?

E hh_d7a==1

SINGLE-SELECT hh_d7b

01 ◯ The groom himself

02 ◯ The groom's parents

03 ◯ Both

04 ◯ Others

05 ◯ Don't know

D7b_oth. If others, please specify:

E hh_d7b==4

TEXT hh d7b oth

.....

D7f. What did the bride price consist of?

I Report the number of cows, Malawian Kwacha, any other items etc

E hh_d7a==1

MULTI-SELECT hh d7f

01 ☐ Cows

02 ☐ Goats

03 ☐ Chicken

04 ☐ Money

05 ☐ Other

D7f1: What would be the total value of the bride price at current prices for the components of the bride price?

NUMERIC: INTEGER hh d7f1

.....

D7g. Has the entire bride price been paid?

E hh_d7a==1

SINGLE-SELECT hh_d7g

01 ◯ Yes

00 ◯ No

D7h. If not, why has the entire bride price not been paid?

E hh_d7g==0

SINGLE-SELECT hh_d7h

01 ◯ Groom/Groom's family cannot afford everything yet

02 ◯ The couple have to get children

03 ◯ Other reason

D7h_oth. If other reason, please specify:

E hh_d7h==3

TEXT hh_d7h_oth

.....

D8. If no bride price was paid, why was this?

E hh_d7a==0

SINGLE-SELECT hh_d8

01 ◯ My ethnicity does not practice this custom

02 ◯ The groom/groom's family was unable to pay

03 ◯ Did not want to follow this custom, even though my family/ethnicity has traditionally done so

D9. Did the bride's parents receive bride service from the groom, i.e. he worked their land or undertook other activities as part of the marriage deal?

SINGLE-SELECT hh_d9

01 ◯ Yes

00 ◯ No

D7x. Did your marriage involve a bride price? If married more than once, did any of your marriages involve a bride price?

E hh_d2>=1

SINGLE-SELECT hh_d7x

01 ◯ Yes

00 ◯ No

D7c. Think about the factors that affect bride price today: what are the most important factors?

I Answers should be ticket off in their order of importance, with the most important ticked first. Rank up to 4 reasons.

E hh_d7x==1

MULTI-SELECT: ORDERED hh_d7c

01 ☐ Education

02 ☐ Good morals

03 ☐ Family values

04 ☐ Virginity

05 ☐ Age

06 ☐ No previous children

07 ☐ Ethnicity

08 ☐ Religion

09 ☐ Other

D7c_oth. If other please specify

E hh_d7c.Contains(9)

TEXT hh_d7c_oth

.....

D7d. If education is stated as a reason, which of the following reasons apply to why education matters in determining the bride price?

E hh_d7c.Contains(1)

MULTI-SELECT hh_d7d

01 ☐ Improves the bride's skills in the house

02 ☐ Improves the bride's knowledge and skills as a mother

03 ☐ Improves the bride's earning potential

04 ☐ Improves the literacy of the children

05 ☐ Bride's parents should be compensated for the investments

06 ☐ Is associated with her parents being rich?

07 ☐ Other reasons

D7d_oth. If other reasons, please specify:

E hh_d7d.Contains(7)

TEXT hh_d7d_oth

.....

D7e. What lowers the bride price amount?

I Report all responses.

E hh_d7x==1

TEXT hh_d7e

.....

[E] TIME USE & LABOUR

STATIC TEXT

ASK ALL HOUSEHOLD MEMBERS AGED 10 YEARS AND OLDER. IF DID NOT DO TASK, WRITE ZERO; IF LESS THAN 1/2 HOUR, WRITE '0.5'; OTHERWISE, ROUND TO NEAREST HOUR.

[E] TIME USE & LABOUR

Roster: HOUSEHOLD ROSTER: TIME USE AND LABOUR

generated by list question hh_b02

hhroster_labour

E hh_b05a>=10

E05. How many hours did %rostertitle% spend yesterday collecting water?

NUMERIC: DECIMAL hh e05

I HOURS

V1 self.InRange(0,3)

M1 Number of hours spent collecting water seems very high. Please confi rm the number of hours spent.

E06. How many hours did %rostertitle% spend yesterday collecting firewood (or other fuel materials)?

NUMERIC: DECIMAL hh e06

I HOURS

V1 self.InRange(0,4)

M1 Number of hours spent collecting firewood seems very high. Please c onfirm the number of hours spent.

E06_1a.In the last 12 months, did %rostertitle% work on household farming activities even if only for one hour?

SINGLE-SELECT hh e06 1a

01 ◯ YES

02 ◯ NO

E06_1b.In the last 12 months, did %rostertitle% work on household livestock activities even if only for one hour?

SINGLE-SELECT hh e06 1b

01 ◯ YES

02 ◯ NO

E06_1c.In the last 12 months, did %rostertitle% work on household fishing activities even if only for one hour?

SINGLE-SELECT hh e06 1c

01 ◯ YES

02 ◯ NO

E06_2. In the last 12 months, did %rostertitle% run a non-farm business of any size for yourself or the household, even if only for one hour?

SINGLE-SELECT hh_e06_2

01 ◯ YES

02 ◯ NO

E06_3. In the last 12 months, did %rostertitle% help in any kind of non-farm business run by this household, even if only for one hour?

SINGLE-SELECT hh e06 3

01 ◯ YES

02 ◯ NO

E06_4.In the last 12 months, did %rostertitle% work as an employee for a wage, salary, commission, or any payment in kind: including doing paid apprenticeship, domestic work or paid farm work, excluding ganyu , even if only for one hour?

SINGLE-SELECT hh e06 4

01 ◯ YES

02 ◯ NO

E06_5. In the last 12 months, did %rostertitle% engage in an unpaid apprenticeship for anyone that is not a member of the household, even if only for one hour?

SINGLE-SELECT hh e06 5

01 ◯ YES

02 ◯ NO

E06_6. In the last 12 months, did %rostertitle% engage in casual, part-time or ganyu labour, even if only for one hour?

SINGLE-SELECT hh e06 6

01 ◯ YES

02 ◯ NO

E06_8. In what type of economic activity did %rostertitle% spend most of your time in the last 12 months:

I SELECT THE MAIN TYPE FIRST, FOLLOWED BY THE SECONDARY TYPE

E hh_e06_1a==1 ||hh_e06_1b==1 || hh_e06_1c==1 || hh_e06_2==1 || hh_e06_3==1|| hh_e06_4==1 || hh_e06_5==1||hh_e06_6==1

MULTI-SELECT: ORDERED hh e06 8

01 ☐ WAGE EMPLOYMENT EXCLUDING GANYU

02 ☐ HOUSEHOLD BUSINESS (NONAG)

03 ☐ UNPAID HOUSEHOLD LABOR(AGRIC)

04 ☐ UNPAID APPRENTICESHIP

05 ☐ GANYU

06 ☐ OTHER

[E] TIME USE & LABOUR / HOUSEHOLD ROSTER: TIME USE AND LABOUR

MAIN WAGE JOB OVER THE LAST 12 MONTHS

E hh_e06_4==1

E19. Describe %rostertitle%'s main wage job over the last 12 months.

I WRITTEN DESCRIPTION

V1 $alphanumeric

M1 Invalid characters included in response. Please confirm.

TEXT hh e19

.....

E19_code. Describe %rostertitle%'s main wage job over the last 12 months.

I OCCUP. CODE

NUMERIC: INTEGER
SCOPE: SUPERVISOR hh_e19_code

.....

E21. Is %rostertitle%'s employer for %rostertitle%'s main wage job over the last 12 months…

I READ RESPONSES

SINGLE-SELECT: COMBO BOX hh_e21

01 ◯ Private Company

02 ◯ Private Individual

03 ◯ Government

04 ◯ State-Owned Enterprise(Parastatal)

05 ◯ MASAF/Public Works Program

06 ◯ Church/Religious Organization

07 ◯ Political Party

08 ◯ Other (Specify)

E21. Specify %rostertitle%'s employer for his/her main wage job over the last 12 months

E hh_e21==8

TEXT hh_e21_oth

E21_1. What type of position is %rostertitle%'s main wage job?

I READ RESPONSES

SINGLE-SELECT hh_e21_1

01 ◯ Permanent

02 ◯ Fixed-term with duration ≥1

03 ◯ Government

04 ◯ Temporary/Seasonal/Freelance

E21_2. Does this wage job have a contract?

SINGLE-SELECT hh_e21_2

01 ◯ YES

02 ◯ NO

E21_3. Is %rostertitle% enrolled in a pension scheme for this wage job?

SINGLE-SELECT hh_e21_3

01 ◯ YES

02 ◯ NO

E21_4. Is %rostertitle% enrolled in a health insurance scheme with this wage job?

SINGLE-SELECT hh_e21_4

01 ◯ YES

02 ◯ NO

E22. In how many months over the last 12 months, did %rostertitle% work at this wage job?

I NUMBER OF MONTHS

V1 self.InRange(0,12)

M1 Value recorded is out of range. Please confirm the number of months worked.

NUMERIC: INTEGER hh_e22

E23. During these months, approximately how many weeks per month did %rostertitle% work at this wage job?

I NUMBER OF WEEKS PER MONTH

V1 self.InRange(1,4)

M1 There is only 4 weeks in a month. Please confirm the number of wee

NUMERIC: INTEGER hh_e23

ks per month worked is correct.

E24. During these weeks, approximately how many hours per week did %rostertitle% work at this wage job?

NUMERIC: INTEGER hh_e24

E25. How much was y%rostertitle%'s last payment for wages/salary?

I IN MK

NUMERIC: INTEGER hh_e25

E26a. What period of time does each of %rostertitle%'s salary payments cover?

I NUMBER OF TIME UNITS

NUMERIC: INTEGER hh_e26a

E26b. What period of time does each of %rostertitle%'s salary payments cover?

I TIME UNIT

V1 /* range of e25, by district */ // then evaluate this perform this validation (new Func<bool>(() => { // extract the upper and lower bounds for e25 var e25val = rangeE25.Values.FirstO And 328 other symbols [2]

M1 Payment value seems unlikely. Please check.

SINGLE-SELECT hh_e26b

03 ◯ DAY

04 ◯ WEEK

05 ◯ MONTH

E26_1. Who in the household controls / decides on the use of %rostertitle%'s salary payment?

I LIST UP TO 2 MEMBERS FROM HOUSEHOLD ROSTER

MULTI-SELECT: LINKED hh_e26_1

E27. How much does %rostertitle% usually receive in allowances or gratuities, including in kind payments such as uniform, housing, food, and transport, that were not included in the salary you just reported?

I IN MK. ESTIMATE CASH VALUE OF ANY IN-KIND PAYMENTS RECEIVED. IF NOTHING, RECORD ZERO

NUMERIC: INTEGER hh_e27

E28a. Over what period of time is %rostertitle% reporting his/her allowances and gratuity payments?

I NUMBER OF TIME UNITS

E hh_e27>0

NUMERIC: INTEGER hh_e28a

E28b. Over what period of time is %rostertitle% reporting his / her allowances and gratuity payments?

I TIME UNIT

E hh_e27>0

V1 /* range of e27, by district */ // then evaluate this perform this validation (new Func<bool>(() => { // extract the upper and lower bounds for e27 var e27val = rangeE27.Values.FirstO And 324 other symbols [3]

M1 Allowance amount seems unlikely. Please check

SINGLE-SELECT hh_e28b

03 ◯ DAY

04 ◯ WEEK

05 ◯ MONTH

E28_1. Who in the household controls/ decides on the use of %rostertitle%'s allowances or gratuities?

MULTI-SELECT: LINKED hh_e28_1

I LIST UP TO 2 MEMBERS FROM HOUSEHOLD ROSTER

E hh_e27>0

[E] TIME USE & LABOUR / HOUSEHOLD ROSTER: TIME USE AND LABOUR

GANYU LABOUR OVER THE LAST 12 MONTHS

E hh_e06_6==1

E56. In how many months over the last 12 months, did %rostertitle% do ganyu labour?

NUMERIC: INTEGER hh_e56

I NUMBER OF MONTHS

V1 self.InRange(1,12)

M1 Value recorded is out of range. Please confirm the number of months worked is correct.

E57. During these months, approximately how many weeks per month did %rostertitle% do ganyu labour?

NUMERIC: INTEGER hh_e57

I NUMBER OF WEEKS/MONTH

V1 self.InRange(1,4)

M1 There is only 4 weeks in a month. Please confirm the number of weeks per month worked is correct.

E58. During these weeks, approximately how many days per week did %rostertitle% do ganyu labour?

NUMERIC: INTEGER hh_e58

I NUMBER OF DAYS/ WEEK

V1 self.InRange(1,7)

M1 Please enter a valid number of days per week.

E59. What was the average daily wage, in cash or in kind, that %rostertitle% received for the days worked at ganyu over the last 12 months?

NUMERIC: INTEGER hh_e59

I IN MK

V1 // 2013 IHPS upper bound (((double?)self).InRange(0,(10000*(4.64))))

M1 Please enter a valid daily wage amount. Must be greater than zero. If amount entered is greater than zero, please verify that it is correct since it is unusually high.

E59_1. Who in the household controls/ decides on the use of %rostertitle%'s ganyu earnings?

MULTI-SELECT: LINKED hh_e59_1

I LIST UP TO 2 MEMBERS FROM HOUSEHOLD ROSTER

[E] TIME USE & LABOUR / HOUSEHOLD ROSTER: TIME USE AND LABOUR

OTHER UNPAID LABOUR OVER THE LAST 12 MONTHS

E60. At any time over the last 12 months, did %rostertitle% work for other households, free of charge, as exchange labourer or to assist for nothing in return?

SINGLE-SELECT hh_e60

01 ◯ YES

02 ◯ NO

E61. Over the last 12 months, for how many households in total did %rostertitle% work as exchange labourer or to assist for nothing in return?

NUMERIC: INTEGER hh_e61

I NUMBER OF HHs IN TOTAL
E hh_e60==1
V1 self.InRange(1,8)
M1 Number Of Households seems unlikely, Please Confirm

E62. Among the households for whom %rostertitle% worked as exchange laborer or to assist for nothing in return, how many were households of relatives?

NUMERIC: INTEGER hh_e62

I NUMBER OF HHs OF RELATIVES. RECORD ZERO IF NONE.
E hh_e60==1
V1 hh_e62<=hh_e61
M1 The number of households of relatives recorded should be less than t he number of household in total

E63. Among the households for whom %rostertitle% worked as exchange laborer or to assist for nothing in return, how many were households of friends/neighbors?

NUMERIC: INTEGER hh_e63

I NUMBER OF HHs OF FRIENDS/ NEIGHBORS. RECORD ZERO IF NONE.
E hh_e60==1
V1 hh_e62<=hh_e61
M1 The number of households of friends and neighbors recorded should be less than the number of household in total

E64. Was the household of the village headman among the households for whom %rostertitle% worked as exchange laborer or to assist for nothing in return?

SINGLE-SELECT hh_e64

01 ◯ YES

02 ◯ NO

E hh_e60==1

E65. Over the last 12 months, for how many days in total did %rostertitle% work for other households as exchange labourer or to assist for nothing in return?

NUMERIC: INTEGER hh_e65

I NUMBER OF DAYS
E hh_e60==1
V1 self.InRange(1,30)
M1 Value is out of range. Please record a valid number of days.

[H] FOOD SECURITY

H04. In the last 12 months, have you been

SINGLE-SELECT hh_h04

faced with a situation when you did not have enough food to feed the household?

01 ◯ YES

02 ◯ NO

H05. When did you experience this incident in the last 12 months?

I MARK X IN EACH MONTH OF 2015 AND 2016 THAT THE HOUSEHOL D DID NOT HAVE ENOUGH FOOD. LEAVE CELL BLANK FOR FUTURE MONTHS FROM INTERVIEW DATE OR MONTHS MORE THAN 12 MON THS AGO FROM INTERVIEW DATE.

E hh_h04==1

MULTI-SELECT hh_h05

15 ☐ June 2016

14 ☐ May 2016

13 ☐ April 2016

12 ☐ March 2016

11 ☐ February 2016

10 ☐ January 2016

09 ☐ December 2015

08 ☐ November 2015

07 ☐ October 2015

06 ☐ September 2015

05 ☐ August 2015

04 ☐ July 2015

03 ☐ June 2015

02 ☐ May 2015

01 ☐ April 2015

H06. What was the cause of this situation?

I LIST UP TO 3 IN ORDER OF IMPORTANCE.

E hh_h04==1

MULTI-SELECT: ORDERED hh_h06

01 ☐ Inadequate household stocks due to drought/ poor rains

02 ☐ Inadequate household food stocks due to crop pest damage

03 ☐ Inadequate household food stocks due to small land size

04 ☐ Inadequate household food stocks due to lack of farm inputs

05 ☐ Food in the market was very expensive

06 ☐ Unable to reach the market due to high transportation costs

07 ☐ No food in the market

08 ☐ Floods/water logging

09 ☐ Other (Specify)

H06_oth. Specify what was the cause of this situation.

E hh_h06.Contains(9)

TEXT hh h06 oth

[M] FARM IMPLEMENTS, MACHINERY, AND STRUCTURES

A. Did your household own or rent any farm implements, machinery and/or structures, such as hand hoe, panga knife, treadle pump, ox cart, tractor, plough, generator, chicken house, storage house, barn, etc... in the last 12 months?

SINGLE-SELECT hh m0a

01 ◯ YES

02 ◯ NO

[M] FARM IMPLEMENTS, MACHINERY, AND STRUCTURES

Roster: FARM IMPLEMENTS, MACHINERY, AND STRUCTURES

generated by fixed list

farm_equip_roster

601 HAND HOE

602 SLASHER

603 AXE

604 SPRAYER

605 PANGA KNIFE

606 SICKLE

607 TREADLE PUMP

608 WATERING CAN

609 OX CART

610 OX PLOUGH

611 TRACTOR

612 TRACTOR PLOUGH

613 RIDGER

614 CULTIVATOR

615 GENERATOR

616 MOTORISED PUMP

618 BARN

620 LIVESTOCK KRAAL

621 POULTRY KRAAL

622 STORAGE HOUSE

623 GRANARY

624 Other

E hh_m0a==1

Please, specify what Other Machinery

E @rowcode==624

TEXT roster_oth

.....

M0. Does your household currently own %rostertitle%?

SINGLE-SELECT hh_m0

01 ◯ Yes

02 ◯ No

M01. How many %rostertitle% does your household currently own?

I NUMBER

E hh_m0==1

V1 self.InRange((long) rangeM01[@rowcode].Lower, (long) rangeM01[@rowcode].Upper)

M1 Number owned by household seems unlikely. Please confirm.

NUMERIC: INTEGER hh_m01

.....

M02. What is the age of the %rostertitle%?

I YEARS IF MORE THAN ONE, ASK FOR THE AVERAGE AGE OF ALL ITE MS OWNED.

E hh_m0==1

NUMERIC: DECIMAL hh_m02

.....

M03. If you wanted to sell one of this %rostertitle% today, how much would you receive?

I IN MK. IF MORE THAN ONE, ASK FOR THE AVERAGE VALUE.

E hh_m0==1

NUMERIC: INTEGER hh_m03

.....

M04. Did your household buy any %rostertitle% during the last 12 months?

SINGLE-SELECT hh_m04

01 ◯ YES

02 ◯ NO

M04a. Was the %rostertitle% new or used when you bought it?

E hh_m04==1

SINGLE-SELECT hh_m04a

01 ◯ New

02 ◯ Used

M05. How many %rostertitle% did your household buy?

NUMERIC: INTEGER hh_m05

I NUMBER
E hh_m04==1
V1 self.InRange((long) rangeM05[@rowcode].Lower, (long) rangeM05[@rowcode].Upper)
M1 Number bought by household seems unlikely. Please confirm.

M06. What was the value of these?

NUMERIC: INTEGER hh_m06

I IN MK
E hh_m04==1

M12. Did your household rent or borrow any %rostertitle% during the last 12 months?

SINGLE-SELECT hh_m12

01 ◯ YES
02 ◯ NO

M13. How many %rostertitle% did your household rent or borrow during the last 12 months?

NUMERIC: INTEGER hh_m13

I NUMBER
E hh_m12==1
V1 self.InRange((long) rangeM13[@rowcode].Lower, (long) rangeM13[@rowcode].Upper)
M1 Number rented by household seems unlikely. Please confirm.

M14. How much did your household pay to rent or borrow %rostertitle% during the last 12 months?

NUMERIC: INTEGER hh_m14

I IN MK ESTIMATE THE VALUE OF IN-KIND PAYMENTS
E hh_m12==1

ENUMERATOR: Is the information in this section correct?

SINGLE-SELECT hh_m_check

01 ◯ YES
02 ◯ NO

ENUMERATOR:RECORD PRIMARY RESPONDENT ID FOR MODULE M:

SINGLE-SELECT: LINKED moduleM_respondent

[N] HOUSEHOLD ENTERPRISES

STATIC TEXT

ASK OF HOUSEHOLD HEAD

N01. Over the past 12 months, has anyone in your household owned a non-agricultural

SINGLE-SELECT hh_n01

business or provided a non-agricultural service from home or a household-owned shop, as a carwash owner, metal worker, mechanic, carpenter, tailor, barber, etc.?	01 ◯ YES 02 ◯ NO
N02. Over the past 12 months, has anyone in your household processed and sold any agricultural by-products, including flour, starch, juice, beer, jam, oil, seed, bran, etc., but excluding livestock by-products, fresh/processed fish?	SINGLE-SELECT hh_n02 01 ◯ YES 02 ◯ NO
N03. Over the past 12 months, has anyone in your household owned a trading business on a street or in a market??	SINGLE-SELECT hh_n03 01 ◯ YES 02 ◯ NO
N04. Over the past 12 months, has anyone in your household offered any service or sold anything on a street or in a market, including firewood, home-made charcoal, curios, construction timber, woodpoles, traditional medicine, mats, bricks, cane furniture, weave baskets, thatch grass etc.??	SINGLE-SELECT hh_n04 01 ◯ YES 02 ◯ NO
N05. Over the past 12 months, has anyone in your household owned a professional office or offered professional services from home as a doctor, accountant, lawyer, translator, private tutor, midwife, mason, etc??	SINGLE-SELECT hh_n05 01 ◯ YES 02 ◯ NO
N06. Over the past 12 months, has anyone in your household driven a household-owned taxi or pick-up truck to provide transportation or moving services??	SINGLE-SELECT hh_n06 01 ◯ YES 02 ◯ NO
N07. Over the past 12 months, has anyone in your household owned a bar or restaurant??	SINGLE-SELECT hh_n07 01 ◯ YES 02 ◯ NO
N08. Over the past 12 months, has anyone in your household owned any other non-agricultural business, even if it is a small business run from home or on a street??	SINGLE-SELECT hh_n08 01 ◯ YES 02 ◯ NO

N09. Please provide details on the main product or service of each Enterprise that your household operated during the past 12 months.

LIST hh_n09a

I PROVIDE A WRITTEN DESCRIPTION CONCERNING THE MAIN PRODUCT/SERVICE OF EACH ENTERPRISE THAT THE HOUSEHOLD OPERATED DURING THE PAST 12 MONTHS, BEFORE GOING ON TO N10. PLEASE INCLUDE BUSINESS VENTURES THA And 74 other symbols [1]

E `hh_n01==1 || hh_n02==1 || hh_n03==1 || hh_n04==1 || hh_n05==1 || hh_n06==1 || hh_n07==1 || hh_n08==1`

[N] HOUSEHOLD ENTERPRISES

Roster: ENTERPRISE ROSTER

generated by list question `hh_n09a`

enterpriseRoster

SUPERVISOR TO PUT IN CODE AFTER INTERVIEW

TEXT
SCOPE: SUPERVISOR
hh_n09b

I INDUSTRY CODE

N10. Who in the household manages this enterprise or is most familiar with it?

MULTI-SELECT: LINKED hh_n10

I LIST UP TO 2

N11. RECORD THE ID OF THE RESPONDENT, FOR THIS ENTERPRISE %rostertitle%.

SINGLE-SELECT: LINKED hh_n11

I LIST FROM HOUSEHOLD

N12. Who in the household owns this %rostertitle%?

MULTI-SELECT: LINKED hh_n12

I LIST UP TO 2 JOINT OWNERS

N13a. How many MALES outside of the household are co-owners of this %rostertitle%?

NUMERIC: INTEGER hh_n13a

I IF NONE, RECORD 0

V1 `self.InRange(0,3)`

M1 Number entered seems unlikely. Please confirm.

N13b. How many FEMALES outside of the household are co-owners of this %rostertitle%?

NUMERIC: INTEGER hh_n13b

I IF NONE, RECORD ZERO

V1 `self.InRange(0,3)`

M1 Number entered seems unlikely. Please confirm.

N14. What share of the profits from this %rostertitle% is kept by your household, rather than the other owners?

SINGLE-SELECT: COMBO BOX hh_n14

I READ RESPONSES

E `hh_n13a!=0 || hh_n13b!=0`

01 ◯ Almost none

02 ◯ About 25%

03 ◯ About half

04 ◯ About 75%

05 ◯ Almost all

06 ◯ Other (Specify)

Please, specify Other

TEXT hh_n14_oth

E hh_n14==6

N15b. When was this %rostertitle% first started?

NUMERIC: INTEGER hh_n15b

I YEAR (4-DIGIT)

V1 self.InRange(1950,2016)

M1 Value out of range. Please confirm that the year entered is correct.

N16. What were the sources of start-up capital for this enterprise?

MULTI-SELECT: ORDERED hh_n16

I READ ANSWERS. LIST UP TO 2.

01 ☐ Own-savings from agriculture

02 ☐ Own-savings from non-agriculture

03 ☐ Sale of assets owned

04 ☐ Proceeds from another business

05 ☐ Agricultural input credit

06 ☐ Non-agricultural credit from bank or other institution

07 ☐ Loan from money lender

08 ☐ Loan from family/friends

09 ☐ Savings club

10 ☐ Gift from family/friends

11 ☐ Inherited

12 ☐ Other (specify)

99 ☐ No start-up capital

Please, specify Other

TEXT hh_n16_oth

E hh_n16.Contains(12)

N17. Where do you operate this

SINGLE-SELECT hh_n17

%rostertitle%?

I READ RESPONSES

01 ◯ Home (inside residence)

02 ◯ Home (outside residence)

03 ◯ Industrial site

04 ◯ Traditional market place

05 ◯ Commercial area shop

06 ◯ Roadside

07 ◯ Other fixed place

08 ◯ Mobile

N18. Does this %rostertitle% have access to working electricity?

E `hh_n17==3 || hh_n17==7 || hh_n17==5`

SINGLE-SELECT `hh_n18`

01 ◯ Yes

02 ◯ No

N19. What is the main source of electricity for this %rostertitle%?

E `hh_n18==1`

SINGLE-SELECT `hh_n19`

01 ◯ ESCOM/GRID

02 ◯ SOLAR PANEL

03 ◯ GENERATOR

04 ◯ OTHER (SPECIFY)

Please, specify Other

E `hh_n19==4`

TEXT `hh_n19_oth`

.....

N20. To whom do you mostly sell your products or services?

I READ RESPONSES. LIST UP TO 2 BUYERS

MULTI-SELECT: ORDERED `hh_n20`

01 ☐ Final consumers

02 ☐ Traders

03 ☐ Othersmall businesses

04 ☐ Large established businesses/institutions

05 ☐ Export

06 ☐ Manufacturer

07 ☐ Marketingboard

08 ☐ Other (specify)

Please, specify Other

E hh_n20.Contains(8)

TEXT hh_n20_oth

.....

N21a. Is this %rostertitle% officially registered with the Registrar of Companies?

SINGLE-SELECT hh_n21a

01 ◯ YES

02 ◯ NO

N21b. Is this %rostertitle% officially registered with the Malawi Revenue Authority?

SINGLE-SELECT hh_n21b

01 ◯ YES

02 ◯ NO

N21c. Is this %rostertitle% officially registered with the Local Assembly?

SINGLE-SELECT hh_n21c

01 ◯ YES

02 ◯ NO

N22. Does this %rostertitle% or any of its owners or managers belong to any registered business association?

SINGLE-SELECT hh_n22

01 ◯ YES

02 ◯ NO

N23. ENUMERATOR: DOES THIS BUSINESS SELL FOREST-BASED PRODUCTS?

SINGLE-SELECT hh_n23

01 ◯ YES

02 ◯ NO

N24. What is the source of the forest-based product sold by this %rostertitle%?

I READ RESPONSES

E hh_n23==1

SINGLE-SELECT: COMBO BOX hh_n24

01 ◯ Own land

02 ◯ Forest/wild park reserve

03 ◯ Communal land

04 ◯ Purchased from someone else

05 ◯ Other (Specify)

Please, specify Other

E hh_n24==5

TEXT hh_n24_oth

.....

N25a. During the past 12 months, when was this %rostertitle% operational?

I MARK FOR EACH MONTH IN TURN. START FROM THE MOST RECENT

MULTI-SELECT: YES/NO hh_n25a

15 ☐/☐ June 2016

MONTH THAT WAS COMPLETED, GOING BACK MONTH BY MONTH

14 ☐/☐ May 2016

13 ☐/☐ April 2016

12 ☐/☐ March 2016

11 ☐/☐ February 2016

10 ☐/☐ January 2016

09 ☐/☐ December 2015

08 ☐/☐ November 2015

07 ☐/☐ October 2015

06 ☐/☐ September 2015

05 ☐/☐ August 2015

04 ☐/☐ July 2015

03 ☐/☐ June 2015

02 ☐/☐ May 2015

01 ☐/☐ April 2015

[N] HOUSEHOLD ENTERPRISES / ENTERPRISE ROSTER

Roster: SALES - HH_N25B

generated by multi-select question `hh_n25a`

`hh_n25b_roster`

N25b. How were your sales?

SINGLE-SELECT `hh n25b`

01 ◯ LOW

02 ◯ AVERAGE

03 ◯ HIGH

N26. Why was this %rostertitle% not in operation on the period indicated in question 25a?

I LIST UP TO 2

E `hh_n25a.No.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19)`

MULTI-SELECT: ORDERED `hh n26`

01 ☐ Lack of non-labour inputs

02 ☐ Lack of credit

03 ☐ Lack of cash

04 ☐ Seasonal work

05 ☐ Bad weather

06 ☐ Not profitable

07 ☐ Own-Illness/Need to care for household members

08 ☐ Other (Specify)

Please, specify Other

E hh_n26.Contains(8)

TEXT hh_n26_oth

N27. Was this %rostertitle% in operation in the last month?

SINGLE-SELECT hh_n27

01 ◯ Yes

02 ◯ No

N28. Are you planning to resume the operations of this %rostertitle% within the next 12 months?

E hh_n27==2

SINGLE-SELECT hh_n28

01 ◯ YES

02 ◯ NO

N29. Why not?

I READ RESPONSES. LIST UP TO 2

E hh_n27==2 && hh_n28==2

MULTI-SELECT hh_n29

01 ☐ Lack of non-labour inputs

02 ☐ Lack of credit

03 ☐ Lack of cash

04 ☐ Not profitable

05 ☐ Own-Illness/Need to care for household members

06 ☐ Other (Specify)

Please, specify Other

E hh_n27==2 && hh_n28==2 && hh_n29.Contains(6)

TEXT hh_n29_oth

[N] HOUSEHOLD ENTERPRISES / ENTERPRISE ROSTER

Roster: HOUSEHOLD LABOR

generated by list question hh_b02

enterpriseLaborHH

E hh_n25a.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19)

N30A. During the last month of operation, did %rostertitle% work for this enterprise?

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. IF MORE THAN 4 HOUSEHOLD MEMBERS WERE EMPLOYED, USE ANOTHER QUESTIONNAIRE.

SINGLE-SELECT hh_n30a

01 ◯ Yes

02 ◯ No

N30B. During the last month of operation in the past 12 months, how many days did %rostertitle% work for this enterprise?

NUMERIC: INTEGER hh_n30b

E hh_n30a==1
V1 self.InRange(1,31)
M1 Please enter a valid number of days worked in the last month of operation.

N30C. During those days, approximately, how many hours did %rostertitle% work for this enterprise?

NUMERIC: INTEGER hh_n30c

E hh_n30a==1
V1 self.InRange(1,18)
M1 Please enter a valid number of hours per day worked during the days worked

N30D. During the last 12 months, how many months did %rostertitle% work for this enterprise?

NUMERIC: INTEGER hh_n30d

V1 self.InRange(0,12)
M1 Please enter a valid number of months.

[N] HOUSEHOLD ENTERPRISES / ENTERPRISE ROSTER

Roster: HIRED LABOR
generated by fixed list

enterpriseLaborHired

01 Men
02 Women
03 Children (under 15)

E hh_n25a.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19)

N31A. During the last month of operation, how many non-household %rostertitle% worked for this enterprise?

NUMERIC: INTEGER hh_n31a

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. IF THERE WAS NO HIRED LABOR, RECORD ZERO.
V1 self.InRange(0,5)
M1 Number of non Household members that worked seems unlikely, please confirm

N31B. During the last month of operation, how many days did a typical %rostertitle% employee work?

NUMERIC: INTEGER hh_n31b

E hh_n31a>0
V1 self.InRange(1,31)
M1 Please enter a valid number of days worked during the last month of operation.

N31C. During the days of employment in the last month of operation, how many hours per day did a typical %rostertitle% employee work?

NUMERIC: INTEGER hh_n31c

E hh_n31a>0

V1 self.InRange(1,180)

M1 Please enter a valid number of hours per day

N31D. During the last month of operation, what was the total expenditure of this enterprise on salaries or wages of ALL %rostertitle% employees?

NUMERIC: INTEGER hh_n31d

I INCLUDE: ESTIMATED VALUE OF IN-KIND PAYMENTS. IF THERE WE RE NO WAGE/SALARY (CASH OR IN-KIND) PAYMENTS, RECORD ZER O.

E hh_n31a>0

N32. During the last month of operation, what was the value of total sales (zogulitsa) of products, goods or services of this %rostertitle%?

NUMERIC: INTEGER hh_n32

I SALES (MK). MAKE SURE THE RESPONDENT IS REFERRING TO THE L AST MONTH OF OPERATION AS STATED IN QUESTION N25a, AND THAT HE/SHE IS NOT NETTING OUT ANY COSTS INCURRED.

N40. During the last month of operation, what was the net revenue of this %rostertitle%?

NUMERIC: INTEGER hh_n40

I PROFIT (MK) LAST MONTH OF OPERATION

N41a. During the last month of operation, what was the total expenditure of this %rostertitle% on Raw Materials?

NUMERIC: INTEGER hh_n41a

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMA TED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

N41b. During the last month of operation, what was the total expenditure of this %rostertitle% on Purchase of Goods for Sale (Inventory)?

NUMERIC: INTEGER hh_n41b

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMA TED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

N41c. During the last month of operation, what was the total expenditure of this %rostertitle% on Freight / Transport?

NUMERIC: INTEGER hh_n41c

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMA TED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

N41d. During the last month of operation, what was the total expenditure of this %rostertitle% on Fuel / Oil?

NUMERIC: INTEGER hh_n41d

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMA TED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT,

RECORD ZERO.

N41e. During the last month of operation, what was the total expenditure of this %rostertitle% on Electricity?

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMATED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

NUMERIC: INTEGER hh n41e

N41f. During the last month of operation, what was the total expenditure of this %rostertitle% on Water?

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMATED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

NUMERIC: INTEGER hh n41f

N41g. During the last month of operation, what was the total expenditure of this %rostertitle% on Insurance?

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMATED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

NUMERIC: INTEGER hh n41g

N41h. During the last month of operation, what was the total expenditure of this %rostertitle% on Other (Specify)?

I MAKE SURE THE RESPONDENT IS REFERRING TO THE LAST MONTH OF OPERATION AS STATED IN QUESTION N25a. INCLUDE: ESTIMATED VALUE OF IN-KIND PAYMENTS IN MK. IF NOTHING WAS SPENT, RECORD ZERO.

NUMERIC: INTEGER hh_n41h

Please, specify Other

E hh_n41h!=0

TEXT hh n41h oth

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE N:

SINGLE-SELECT: LINKED moduleN respondent

[P] OTHER INCOME

P01. During the last 12 months, did you or any members of your household receive any of the following Sources?

MULTI-SELECT: YES/NO hh p01

101 ☐/☐ Cash Transfers/Gifts from Individuals (Friends/Relatives)

102 ☐/☐ Food Transfers/Gifts from Individuals (Friends/Relatives)

103 ☐/☐ Non-Food In-Kind Transfers/Gifts from Individuals (Friends/Relatives)

104 ☐/☐ Savings, Interest or Other Investment Income

105 ☐/☐ Pension Income

106 ☐/☐ Income from Non-Agricultural Land Rental

107 ☐/☐ Income from Apartment, House Rental

108 ☐/☐ Income from Shop, Store Rental

109 ☐/☐ Income from Car, Truck, Other Vehicle Rental

110 ☐/☐ Income from Real Estate Sales

111 ☐/☐ Income from Household Non-Agricultural Asset Sales

112 ☐/☐ Income from Household Agricultural/Fishing Asset Sales

113 ☐/☐ Inheritance

114 ☐/☐ Lottery/Gambling Winnings

115 ☐/☐ Bicycle taxi

116 ☐/☐ Other

[P] OTHER INCOME

Roster: SOURCE OF OTHER INCOME

generated by multi-select question hh_p01

other_income_roster

Please, specify Other

TEXT hh_p01_oth

E @rowcode==116

P02. How much %rostertitle% did your household receive in total during the last 12 months?

NUMERIC: INTEGER hh_p02

I IN MK. ESTIMATE THE CASH VALUE OF IN-KIND TRANSFERS RECEIVED.

E @rowcode==104 || @rowcode==105 || @rowcode==106 || @rowcode==107 || @rowcode==108 || @rowcode==109 || @rowcode==110 || @rowcode==111 || @rowcode==112 || @rowcode==113 || @rowcode==114 || @rowcode==115
And 1 other symbols [1]

V1 ((double?) self).InRange(p02bounds[@rowcode].lower,p02bounds[@rowcode].upper)

M1 Amount received seems too low or too high. Please confirm.

P03c. How much of %rostertitle% came

NUMERIC: INTEGER hh_p03c

from international locations?

I IN MK

E `@rowcode==101 || @rowcode==102 || @rowcode==103`

V1 `(@rowcode==101 && hh_a03b==1) ? self.InRange(6000,500000)|| self==0 : (@rowcode==102 && hh_a03b==1) ? self.InRange(3000,50000) || self==0 : (@rowcode==103 && hh_a03b==1) ? self.InRange(5000,300000)||`
And 225 other symbols [4]

M1 Amount seems unlikely. Please confirm.

P04. Who in your household kept/decided what to do with these earnings?

MULTI-SELECT: LINKED `hh_p04`

I LIST UP TO 2 FROM HOUSEHOLD ROSTER.

[S] CREDIT

STATIC TEXT

[ASK OF HOUSEHOLD HEAD]

S01. Over the past 12 months, did you or anyone else in this household borrow on credit from someone outside the household or from an institution for business or farming purposes, receiving either cash or inputs?

SINGLE-SELECT `hh_s01`

01 ◯ YES

02 ◯ NO

S03. What are the names of the persons or institutions from whom you or anyone else in your household borrowed on credit money for business or farming over the past 12 months?

LIST `hh_s03`

E `hh_s01==1`

[S] CREDIT
Roster: CREDIT ROSTER
generated by list question `hh_s03`

`credit_roster`

S04. CODE SOURCE OF LOAN

MULTI-SELECT `hh_s04`

01 ☐ RELATIVE

02 ☐ NEIGHBOUR

03 ☐ GROCERY / LOCAL MERCHANT

04 ☐ MONEY LENDER (KATAPILA)

05 ☐ EMPLOYER

06 ☐ RELIGIOUS INSTITUTION

07 ☐ MARDEF

08 ☐ PRIVATE BANK/COMPANY

09 ☐ SACCO

10 ☐ BANK (COMMERCIAL)

11 ☐ NGO

12 ☐ VILLAGE BANK

13 ☐ OTHER (SPECIFY)

S04_oth. SPECIFY SOURCE OF LOAN

E @rowcode==13

TEXT hh_s04_oth

.....

S05. Which household member was responsible for the loan?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER

MULTI-SELECT: LINKED hh s05

S06. What was the main reason for obtaining loan?

I READ RESPONSES

SINGLE-SELECT: COMBO BOX hh s06

01 ◯ PURCHASE LAND

02 ◯ PURCHASE AGRI-CULTURAL INPUTS FOR FOOD CROP

03 ◯ PURCHASE INPUTS FOR TOBACCO

04 ◯ PURCHASE INPUTS FOR OTHER CASH CROPS

05 ◯ BUSINESS START-UP CAPITAL

06 ◯ PURCHASE NON-FARM INPUTS

07 ◯ CONSUMPTION

08 ◯ OTHER (SPECIFY)

S06_oth. Specify the main reason for obtaining loan.

E hh_s06==8

TEXT hh s06 oth

.....

S07. How much was borrowed?

I IN MK

NUMERIC: INTEGER hh_s07

.....

S08a. When did you get the loan within the past 12 months?

SINGLE-SELECT: COMBO BOX hh s08a

01 ◯ JAN
02 ◯ FEB
03 ◯ MAR
04 ◯ APR
05 ◯ MAY
06 ◯ JUN
07 ◯ JUL
08 ◯ AUG
09 ◯ SEP
10 ◯ OCT
11 ◯ NOV
12 ◯ DEC

S08b. What year did you get the loan?

NUMERIC: INTEGER hh s08b

V1 self.InRange(2015,interviewDate.Value.Year)
M1 Please enter a valid year

.....

S09. Is the loan repaid?

SINGLE-SELECT hh s09

01 ◯ YES
02 ◯ NO

S09_1. Why is the loan not repaid?

TEXT S09 1

E hh_s09==2

.....

S10a. Approximately in what month do you expect to pay back the money?

SINGLE-SELECT: COMBO BOX hh s10a

E hh_s09==2

01 ◯ JAN
02 ◯ FEB
03 ◯ MAR
04 ◯ APR
05 ◯ MAY
06 ◯ JUN

07 ◯ JUL

08 ◯ AUG

09 ◯ SEP

10 ◯ OCT

11 ◯ NOV

12 ◯ DEC

S10b. Approximately in what year do you expect to pay back the money?

E hh_s09==2

NUMERIC: INTEGER hh_s10b

S11. How much did you pay (do you expect to have paid) in total when you (will have) paid off this loan (interest + principal)?

I IN MK

NUMERIC: INTEGER hh_s11

S12. During the last 12 months, did you try to borrow from someone outside the household or from an institution and were turned down?

SINGLE-SELECT hh_s12

01 ◯ YES

02 ◯ NO

S14. What was the main reason for trying to obtain the loan?

I READ RESPONSES

E hh_s12==1

SINGLE-SELECT: COMBO BOX hh_s14

01 ◯ PURCHASE LAND

02 ◯ PURCHASE AGRICULTURAL INPUTS FOR FOOD CROP

03 ◯ PURCHASE INPUTS FOR TOBACCO

04 ◯ PURCHASE INPUTS FOR OTHER CASH CROPS

05 ◯ BUSINESS START-UP CAPITAL

06 ◯ PURCHASE NON-FARM INPUTS

07 ◯ CONSUMPTION

08 ◯ OTHER (SPECIFY)

S14_oth. Specify the main reason for trying to obtain the loan.

E hh_s14==8

TEXT hh_s14_oth

S15. Are you awaiting word on a loan that you applied for during the last 12 months?

SINGLE-SELECT hh_s15

01 ◯ YES

02 ◯ NO

S19. Why did you not attempt to borrow in the last 12 months?

I LIST UP TO TWO ANSWERS IN ORDER OF IMPORTANCE.

E hh_s01==2 && hh_s12==2 && hh_s15==2

MULTI-SELECT: ORDERED hh_s19

01 ☐ NO NEED

02 ☐ BELIEVED WOULD BE REFUSED

03 ☐ TOO EXPENSIVE

04 ☐ TOO MUCH TROUBLE FOR WHAT IT IS WORTH

05 ☐ INADEQUATE COLLATERAL

06 ☐ DO NOT LIKE TO BE IN DEBT

07 ☐ DO NOT KNOW ANY LENDER

08 ☐ OTHER (SPECIFY)

S19_oth. Specify why you did not attempt to borrow in the last 12 months.

E hh_s19.Contains(8)

TEXT hh_s19_oth

.....

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE S:

SINGLE-SELECT: LINKED moduleS_respondent

[T] SUBJECTIVE ASSESSMENT OF WELL-BEING

T01. Concerning your household's food consumption over the past one month, which of the following is true?

I NOTE THAT 'ADEQUATE' MEANS NO MORE OR NO LESS THAN WHAT THE RESPONDENT CONSIDERS TO BE THE MINIMUM CONSUMPTION NEEDS OF THE HOUSEHOLD.

SINGLE-SELECT hh_t01

01 ◯ It was less than adequate for household needs

02 ◯ It was just adequate for household needs

03 ◯ It was more than adequate for household needs

T02. Concerning your housing, which of the following is true?

I NOTE THAT 'ADEQUATE' MEANS NO MORE OR NO LESS THAN WHAT THE RESPONDENT CONSIDERS TO BE THE MINIMUM CONSUMPTI

SINGLE-SELECT hh_t02

ON NEEDS OF THE HOUSEHOLD.

01
◯ It was less than adequate for household needs

02 ◯ It was just adequate for household needs

03
◯ It was more than adequate for household needs

T03. Concerning your household's clothing, which of the following is true?

I NOTE THAT 'ADEQUATE' MEANS NO MORE OR NO LESS THAN WHA T THE RESPONDENT CONSIDERS TO BE THE MINIMUM CONSUMPTI ON NEEDS OF THE HOUSEHOLD.

SINGLE-SELECT hh t03

01
◯ It was less than adequate for household needs

02 ◯ It was just adequate for household needs

03
◯ It was more than adequate for household needs

T04. Concerning the standard of health care you receive for household members, which of the following is true?

I NOTE THAT 'ADEQUATE' MEANS NO MORE OR NO LESS THAN WHA T THE RESPONDENT CONSIDERS TO BE THE MINIMUM CONSUMPTI ON NEEDS OF THE HOUSEHOLD.

SINGLE-SELECT hh t04

01
◯ It was less than adequate for household needs

02 ◯ It was just adequate for household needs

03
◯ It was more than adequate for household needs

T05. Imagine six steps, where on the bottom, the first step, stand the poorest people, and on the highest step, the sixth, stand the rich in your SECTION area. On which step are you today?

V1 `self.InRange(1,6)`
M1 The value reported is out of range. Please confirm.

NUMERIC: INTEGER hh t05

.....

T06. Imagine six steps, where on the bottom, the first step, stand the poorest people, and on the highest step, the sixth, stand the rich. On which step are most of your neighbors today?

V1 `self.InRange(1,6)`
M1 The value reported is out of range. Please confirm.

NUMERIC: INTEGER hh t06

.....

T07. Imagine six steps, where on the bottom, the first step, stand the poorest people, and on the highest step, the sixth, stand the rich. On which step are most of your friends today?

NUMERIC: INTEGER hh t07

.....

V1 self.InRange(1,6)
M1 The value reported is out of range. Please confirm.

T08. Which of the following is true? Your current income . . .

I READ RESPONSES

SINGLE-SELECT hh_t08

01 ◯ ALLOWS YOU TO BUILD YOUR SAVINGS

02 ◯ ALLOWS YOU TO SAVE JUST A LITTLE

03 ◯ ONLY JUST MEETS YOUR EXPENSES

04 ◯ IS NOT SUFFICIENT, SO YOU NEED TO USE YOUR SAVINGS TO MEET EXPENSES

05 ◯ IS REALLY NOT SUFFICIENT, SO YOU NEED TO BORROW TO MEET EXPENSES

T09. How many changes of clothes do you (HH HEAD) own?

I NUMBER OF TROUSERS FOR MEN; TROUSERS/ DRESSES FOR WOME N
V1 self.InRange(1,30)
M1 PLEASE CHECK AND CONFIRM THE NUMBER OF CLOTHES

NUMERIC: INTEGER hh_t09

.....

T10. What do you (HH HEAD) sleep on?

SINGLE-SELECT: COMBO BOX hh_t10

01 ◯ BED & MATTRESS

02 ◯ BED & MAT (GRASS)

03 ◯ BED ALONE

04 ◯ MATTRESS ON FLOOR

05 ◯ MAT (GRASS) ON FLOOR

06 ◯ CLOTH/SACK ON FLOOR

07 ◯ FLOOR (NOTHING ELSE)

08 ◯ OTHER(SPECIFY)

T10_oth. Specify what do you (HH HEAD) sleep on.

E hh_t10==8

TEXT hh_t10_oth

.....

T13. During the last 12 months, was there a time when you or others in your household were unable to eat healthy and nutritious food because of a lack of money

SINGLE-SELECT hh_t13

01 ◯ NO

02 ◯ YES

or other resources? YOU MUST READ TRANSLATIONS BELOW:

I CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pakhomo lanu lino, inalipo nthawi imene munali ndi nkhawa yoti simukhala ndi chakudya chokwanira choti mudye chif And 289 other symbols [2]

03 ◯ DON'T KNOW

04 ◯ REFUSED

T15. During the last 12 months, was there a time when you or others in your household ate only a few kinds of foods because of a lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:

I CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pakhomo lanu lino, inalipo nthawi lmene munadya mitundu yochepa ya zakudya chifukwa chosowa ndalama kapena njira And 239 other symbols [3]

SINGLE-SELECT hh t15

01 ◯ NO

02 ◯ YES

03 ◯ DON'T KNOW

04 ◯ REFUSED

T16. During the last 12 months, was there a time when you or others in your household had to skip a meal because there was not enough money or other resources to get food? YOU MUST READ TRANSLATIONS BELOW:

I CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pakhomo lanu lino, inalipo nthawi imene simunady e chakudya cha mmawa kapena chamasana kapena chamadzulo chifu kwa And 304 other symbols [4]

SINGLE-SELECT hh t16

01 ◯ NO

02 ◯ YES

03 ◯ DON'T KNOW

04 ◯ REFUSED

T17. During the last 12 months, was there a time when you or others in your household ate less than you thought you should because of a lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:

I CHICHEWA: Poganizirabe za miyezi khumi ndi iwiri (12) yapitayi,kodi in uyo kapena mmodzi mwa ena a pakhomo lanu lino, inalipo nthawi ime ne munadya chakudya chochepa kusiyana ndi momwe mumaganizira chif And 279 other symbols [5]

SINGLE-SELECT hh t17

01 ◯ NO

02 ◯ YES

03 ◯ DON'T KNOW

04 ◯ REFUSED

T20. During the last 12 months, was there a time when you or others in your household went without eating for a whole day because of a lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:

I CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pakhomo lanu lino, liripo tsiku limene munakhalapo tsiku lonse osadya kanthu chifukwa chosowa ndalama kapena njir And 214 other symbols [6]

SINGLE-SELECT hh t20

01 ◯ NO

02 ◯ YES

03 ◯ DON'T KNOW

04 ◯ REFUSED

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE T:

SINGLE-SELECT: LINKED moduleT_respondent

[U] SHOCKS & COPING STRATEGIES

STATIC TEXT

[ASK OF HOUSEHOLD HEAD]

U01a. During the last , was your household affected negatively by any of the following shocks?24 months

MULTI-SELECT hh_u01a

0101 ☐ Drought

1101 ☐ Irregular Rains

0102 ☐ Floods

1102 ☐ Landslides

0103 ☐ Earthquakes

0104 ☐ Unusually High Level of Crop Pests or Disease

0105 ☐ Unusually High Level of Livestock Disease

0106 ☐ Unusually Low Prices for Agricultural Output

0107 ☐ Unusually High Costs of Agricultural Inputs

0108 ☐ Unusually High Prices for Food

0109 ☐ End of Regular Assistance/Aid/Remittances From Outside Household

0110 ☐ Reduction in the Earnings from Household (Non-Agricultural) Business (Not due to Illness or Accident)

0111 ☐ Household (Non-Agricultural) Business Failure (Not due to Illness or Accident)

0112 ☐ Reduction in the Earnings of Currently Salaried Household Member(s) (Not due to Illness or Accident)

0113 ☐ Loss of Employment of Previously Salaried Household Member(s) (Not due to Illness or Accident)

0114 ☐ Serious Ilness or Accident of Household Member(s)

And 7 other []

U01b. Specify other shocks

E `hh_u01a.Contains(121)`

TEXT `hh_u01b`

.....

U02. Rank the three most significant shocks you experienced by selecting them in descending order of severity--most severe first, second most severe, third most severe

E `hh_u01a.Length>0`

V1 `!hh_u02.Except(hh_u01a).Any()`

M1 One or more shocks selected in this question were not included in th e list of shocks that the household experienced in the last 12 months (U01). Please confirm.

MULTI-SELECT: ORDERED `hh_u02`

0101 ☐ Drought

1101 ☐ Irregular Rains

0102 ☐ Floods

1102 ☐ Landslides

0103 ☐ Earthquakes

0104
☐ Unusually High Level of Crop Pests or Disease

0105 ☐ Unusually High Level of Livestock Disease

0106
☐ Unusually Low Prices for Agricultural Output

0107
☐ Unusually High Costs of Agricultural Inputs

0108 ☐ Unusually High Prices for Food

0109
☐ End of Regular Assistance/Aid/Remittances From Outside Household

0110
☐ Reduction in the Earnings from Household (Non-Agricultural) Business (Not due to Illness or Accident)

0111
☐ Household (Non-Agricultural) Business Failure (Not due to Illness or Accident)

0112
☐ Reduction in the Earnings of Currently Salaried Household Member(s) (Not due to Illness or Accident)

0113
☐ Loss of Employment of Previously Salaried Household Member(s) (Not due to Illness or Accident)

0114

☐ Serious Illness or Accident of Household Member(s)

And 7 other []

[U] SHOCKS & COPING STRATEGIES

Roster: SHOCKS

generated by multi-select question hh_u02

shocks

U03a. As a result of this %rostertitle%, did your income...

I READ RESPONSES

SINGLE-SELECT hh_u03a

01 ◯ Increase

02 ◯ Decrease

03 ◯ Did Not Change

U03b. As a result of this %rostertitle%, did your assets...

I READ RESPONSES

SINGLE-SELECT hh_u03b

01 ◯ Increase

02 ◯ Decrease

03 ◯ Did Not Change

U03c. As a result of this %rostertitle%, did your food production...

I READ RESPONSES

SINGLE-SELECT hh_u03c

01 ◯ Increase

02 ◯ Decrease

03 ◯ Did Not Change

U03d. As a result of this %rostertitle%, did your food stocks...

I READ RESPONSES

SINGLE-SELECT hh_u03d

01 ◯ Increase

02 ◯ Decrease

03 ◯ Did Not Change

U03e. As a result of this %rostertitle%, did your food purchases...

I READ RESPONSES

SINGLE-SELECT hh_u03e

01 ◯ Increase

02 ◯ Decrease

03 ◯ Did Not Change

U04a. What did your household do in response to this %rostertitle% to try to regain your former welfare level?

MULTI-SELECT: ORDERED hh_u04a

01 ☐ RELIED ON OWN-SAVINGS

I LIST UP TO 3 ANSWERS BY ORDER OF IMPORTANCE. IF HAPPENED MORE THAN ONCE DURING THE LAST 12 MONTHS, ASK ABOUT THE MOST RECENT INCIDENT.

02 ☐ RECEIVED UNCONDITIONAL HELP FROM RELATIVES / FRIENDS

03 ☐ RECEIVED UNCONDITIONAL HELP FROM GOVERNMENT

04 ☐ RECEIVED UNCONDITIONAL HELP FROM NGO / RELIGIOUS INSTITUTION

05 ☐ CHANGED EATING PATTERNS (RELIED ON LESS PREFERRED FOOD OPTIONS, REDUCED THE PROPORTION OR NUMBER OF MEALS PER DAY, OR HOUSEHOLD MEMBERS SKIPPED DAYS OF EATING, ETC)

06 ☐ EMPLOYED HOUSEHOLD MEMBERS TOOK ON MORE EMPLOYMENT

07 ☐ ADULT HOUSEHOLD MEMBERS WHO WERE PREVIOUSLY NOT WORKING HAD TO FIND WORK

08 ☐ HOUSEHOLD MEMBERS MIGRATED

09 ☐ REDUCED EXPENDITURES ON HEALTH AND/OR EDUCATION

10 ☐ OBTAINED CREDIT

11 ☐ SOLD AGRICULTURAL ASSETS

12 ☐ SOLD DURABLE ASSETS

13 ☐ SOLD LAND/BUILDING

14 ☐ SOLD CROP STOCK

15 ☐ SOLD LIVESTOCK

16 ☐ INTENSIFY FISHING

And 4 other []

U04b Please, specify Other

TEXT hh_u04b

E hh_u04a.Contains(20)

.....

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE U:

SINGLE-SELECT: LINKED moduleU_respondent

[V] LEAD FARMER PART

V01. What sources of information do you use for taking decisions on choice of agricultural technologies and land management on your farm? Rank them in their order of importance.

I Answers should be ticket off in their order of importance, with the m ost important ticked first.

MULTI-SELECT: ORDERED hh v01

- 01 ☐ Agricultural extension agent
- 02 ☐ Lead Farmer
- 03 ☐ Lead Farmer Demonstration Trials
- 04 ☐ ADMARC depots
- 05 ☐ Private input outlets
- 06 ☐ Radio
- 07 ☐ Other

V01_oth. If other, please specify:

E hh_v01.Contains(7)

TEXT hh v01 oth

.....

V02. When did you become a Lead Farmer?

DATE: MM/DD/YYYY hh v02

.....

V03. What kind of training have you received as Lead Farmer?

MULTI-SELECT hh v03

- 01 ☐ Plot demonstration management
- 02 ☐ Seed multiplication
- 03 ☐ Herbicide application
- 04 ☐ Maize-legume intercropping
- 05 ☐ Crop rotation
- 06 ☐ Minimum tillage
- 07 ☐ Conservation agriculture
- 08 ☐ Soil conservation
- 09 ☐ Double up Legume-Legume intercropping
- 10 ☐ Other

V03_oth. If other, please specify:

E hh_v03.Contains(4)

TEXT hh_v03_oth

.....

V04. What kind of incentives were you given related to becoming Lead Farmer?

MULTI-SELECT hh_v04

01 ☐ Bicycle
02 ☐ Boots
03 ☐ Seeds
04 ☐ Fertilizers
05 ☐ Herbicides
06 ☐ Other

V04_oth. If other, please specify

E hh_v04.Contains(6)

TEXT hh_v04_oth

V05. Are you still an active Lead Farmer?

SINGLE-SELECT hh_v05

01 ◯ Yes
02 ◯ No

V06. How motivated are you as a Lead Farmer?

SINGLE-SELECT hh_v06

01 ◯ Very motivated
02 ◯ Quite motivated
03 ◯ Not so motivated
04 ◯ Unmotivated

V07. If unmotivated/not so motivated, please explain why:

E (hh_v06 == 3 || hh_v06 == 4)

MULTI-SELECT hh_v07

01 ☐ Lack of follow-up from extension system
02 ☐ Lack of inputs for demonstrations
03 ☐ Technologies not very useful
04 ☐ Other reason

V07_oth. If other, please explain:

E hh_v07.Contains(4)

TEXT hh_v07_oth

V08. How many followers do you have that keep in regular contact about technology choice and farming methods?

NUMERIC: INTEGER hh_v08

V09. Which of these technologies are you familiar with?

MULTI-SELECT hh v09

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/Elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Box ridges

06 ☐ Pit planting

07 ☐ Minimum tillage

08 ☐ Herbicide use

09 ☐ Mulching (residue retention)

10 ☐ Ripping

11 ☐ Planting stick

12 ☐ Jab planter

13 ☐ Organic manure

14 ☐ Organic fertilizer (mix or organic manure and inorganic fertilizer)

15 ☐ Agroforestry

16 ☐ Drought tolerant maize

And 2 other []

V09a. Which of these technologies have you had demonstration trials for?

MULTI-SELECT hh v09a

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Contour ridges

06 ☐ Box ridges

07 ☐ Pit planting

08 ☐ Minimum tillage

09 ☐ Herbicide use

10 ☐ Mulching (residue retention)

11 ☐ Ripper

12 ☐ Planting stick

13 ☐ Jab planter

14 ☐ Organic manure

15 ☐ Agroforestry technologies

16 ☐ Drought-tolerant maize varieties

And 5 other []

V09a_oth. If other, please specify:

E hh_v09a.Contains(21)

TEXT hh v09a oth

.....

[V] LEAD FARMER PART

Roster: V09A. ROSTER

generated by multi-select question hh_v09a

hhroster_tech1

V09a1. When (season) was the demonstration trial for %rostertitle% ?

MULTI-SELECT hh v09a1

01 ☐ 2009/10

02 ☐ 2010/11

03 ☐ 2011/12

04 ☐ 2012/13

05 ☐ 2013/14

06 ☐ 2014/15

07 ☐ 2015/16

V09b. Which of these technologies did you use on your own farm in 2015/16?

MULTI-SELECT hh v09b

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Contour ridges

06 ☐ Box ridges

07 ☐ Pit planting

08 ☐ Minimum tillage

09 ☐ Herbicide use

10 ☐ Mulching (residue retention)

11 ☐ Ripper

12 ☐ Planting stick

13 ☐ Jab planter

14 ☐ Organic manure

15 ☐ Agroforestry technologies

16 ☐ Drought-tolerant maize varieties

And 5 other []

V09b_oth. If other, please specify:

E hh_v09b.Contains(21)

TEXT hh_v09b_oth

.....

V10. Indicate your closer familiarity with these technologies

MULTI-SELECT hh_v10

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Contour ridges

06 ☐ Box ridges

07 ☐ Pit planting

08 ☐ Minimum tillage

09 ☐ Herbicide use

10 ☐ Mulching (residue retention)

11 ☐ Ripping

12 ☐ Planting stick

13 ☐ Jab planter

14 ☐ Organic manure

15 ☐ Organic fertilizer

16 ☐ Agroforestry

And 3 other []

[V] LEAD FARMER PART

Roster: V10. ROSTER

generated by multi-select question hh_v10

hhroster_tech2

V10a. Have you adopted %rostertitle% ?

SINGLE-SELECT

hh_v10a

01 ◯ Have adopted

02 ◯ Have not adopted

03 ◯ Have adopted but later dis-adopted (stopped using)

V10b. Why did you adopt %rostertitle% ? Rank the 3 most important reasons.

I Answers should be ticket off in their order of importance, with the most important ticked first.

E hh_v10a == 1

MULTI-SELECT: ORDERED

hh v10b

01 ☐ Increase yield

02 ☐ Conserve moisture

03 ☐ Easy to use

04 ☐ Reduces insect and disease infestation

05 ☐ Less expensive than traditional method

06 ☐ Saves labour

07 ☐ Other

V10b_oth. If other, please specify:

E hh_v10b.Contains(7)

TEXT

hh v10b oth

.....

V10c. Why did you not adopt %rostertitle% ? Rank the 3 most important reasons.

I Answers should be ticket off in their order of importance, with the most important ticked first.

E hh_v10a == 2

MULTI-SELECT: ORDERED

hh_v10c

01 ☐ Lack of skill to use technology

02 ☐ Discouraged by fellow farmers (low yield)

03 ☐ Lack of cash

04 ☐ Lack of equipment

05 ☐ Labour shortage

06 ☐ Livestock feed shortage

07 ☐ Other

V10c_oth. If other, please specify:

E hh_v10c.Contains(7)

TEXT hh_v10c_oth

.....

V11. Why did you dis-adopt (stopped using) %rostertitle% ? Rank the 3 most important reasons.

I Answers should be ticket off in their order of importance, with the most important ticked first.

E hh_v10a == 3

MULTI-SELECT: ORDERED hh_v11

01 ☐ Low productivity relative to conventional practices

02 ☐ Lack of equipment

03 ☐ Lack of herbicides

04 ☐ Labour shortage

05 ☐ Cash constrained

06 ☐ Increase pest and disease

07 ☐ Livestock feed shortage

08 ☐ Other

V11_oth. If other, please specify:

E hh_v11.Contains(8)

TEXT hh_v11_oth

.....

V12a. Which of the following technologies do you recommend other farmers to adopt?

MULTI-SELECT hh_v12a

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Contour ridges

06 ☐ Box ridges

07 ☐ Pit planting

08 ☐ Minimum tillage

09 ☐ Herbicide use

10 ☐ Mulching (residue retention)

11 ☐ Ripping

12 ☐ Planting stick

13 ☐ Jab planter

14 ☐ Organic manure

15 ☐ Organic fertilizer

16 ☐ Agroforestry

And 2 other []

[V] LEAD FARMER PART

Roster: V12. ROSTER

generated by multi-select question hh_v12a

hhroster_tech3

V12b. Number of farmers recommended to:	NUMERIC: INTEGER hh_v12b
V12c. Number of farmers using:	NUMERIC: INTEGER hh_v12c
ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE U:	SINGLE-SELECT: LINKED moduleV_respondent
ENUMERATOR:RECORD END TIME FOR MODULE U: HOUR V1 self.InRange(5,22) M1 Please enter valid end hour.	NUMERIC: INTEGER moduleV_endHr
MINUTES V1 self.InRange(0,59) M1 Please enter valid end minutes.	NUMERIC: INTEGER moduleV_endMin

[V2] CONSERVATION TECHNOLOGY PART FOR PANEL HHS AND FOLLOWERS OF LEAD FARMERS

V09. Which of these technologies are you familiar with?

MULTI-SELECT hh_v09pf

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/Elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Box ridges

06 ☐ Pit planting

07 ☐ Minimum tillage

08 ☐ Herbicide use

09 ☐ Mulching (residue retention)

10 ☐ Ripping

11 ☐ Planting stick

12 ☐ Jab planter

13 ☐ Organic manure

14 ☐ Organic fertilizer (mix or organic manure and inorganic fertilizer)

15 ☐ Agroforestry

16 ☐ Drought tolerant maize

And 2 other []

V09b. Which of these technologies did you use on your own farm in 2015/16?

MULTI-SELECT hh v09bpf

01 ☐ Maize-legume intercropping

02 ☐ Crop rotation

03 ☐ Vetiver/elephant grass

04 ☐ Contour bunds/terraces

05 ☐ Contour ridges

06 ☐ Box ridges

07 ☐ Pit planting

08 ☐ Minimum tillage

09 ☐ Herbicide use

10 ☐ Mulching (residue retention)

11 ☐ Ripper

12 ☐ Planting stick

13 ☐ Jab planter

14 ☐ Organic manure

15 ☐ Agroforestry technologies

16 ☐ Drought-tolerant maize varieties

And 5 other []

[V2] CONSERVATION TECHNOLOGY PART FOR PANEL HHS AND FOLLOWERS OF LEAD FARMERS

Roster: V10. ROSTER OF FAMILIAR TECHNOLOGIES

hhroster_tech2pf

generated by multi-select question hh_v10

V10_0. From whom did you learn about this technology?

MULTI-SELECT hh_v10pf

01 ☐ Agricultural extension worker

02 ☐ Lead farmer

03 ☐ Lead farmer demonstration trials

04 ☐ Neighbours

05 ☐ Other farmers

06 ☐ Other

V10_0_oth. If other, please specify

E hh_v10pf.Contains(6)

TEXT hh v10othpf

.....

V10a. Have you adopted %rostertitle% ?

SINGLE-SELECT hh v10apf

01 ◯ Have adopted

02 ◯ Have not adopted

03 ◯ Have adopted but later dis-adopted (stopped using)

V10b. Why did you adopt %rostertitle% ? Rank the 3 most important reasons.

I Answers should be ticket off in their order of importance, with the m ost important ticked first.

E hh_v10a == 1

MULTI-SELECT: ORDERED hh_v10bpf

01 ☐ Increase yield

02 ☐ Conserve moisture

03 ☐ Easy to use

04 ☐ Reduces insect and disease infestation

05 ☐ Less expensive than traditional method

06 ☐ Saves labour

07 ☐ Other

V10b_oth. If other, please specify:

E hh_v10bpf.Contains(7)

TEXT hh_v10b_othpf

.....

V10c. Why did you not adopt %rostertitle% ? Rank the 3 most important reasons.

I Answers should be ticket off in their order of importance, with the most important ticked first.

E hh_v10a == 2

MULTI-SELECT: ORDERED hh_v10cpf

01 ☐ Lack of skill to use technology

02 ☐ Discouraged by fellow farmers (low yield)

03 ☐ Lack of cash

04 ☐ Lack of equipment

05 ☐ Labour shortage

06 ☐ Livestock feed shortage

07 ☐ Other

V10c_oth. If other, please specify:

E hh_v10c.Contains(7)

TEXT hh_v10c_othpf

.....

V11. Why did you dis-adopt (stopped using) %rostertitle% ? Rank the 3 most important reasons.

I Answers should be ticket off in their order of importance, with the most important ticked first.

E hh_v10a == 3

MULTI-SELECT: ORDERED hh_v11pf

01 ☐ Low productivity relative to conventional practices

02 ☐ Lack of equipment

03 ☐ Lack of herbicides

04 ☐ Labour shortage

05 ☐ Cash constrained

06 ☐ Increase pest and disease

07 ☐ Livestock feed shortage

08 ☐ Other

V11_oth. If other, please specify:

E hh_v11.Contains(8)

TEXT hh_v11_othpf

.....

[X] FILTER QUESTIONS FOR AGRICULTURE QUESTIONNAIRE

ENUMERATOR:RECORD START DATE & TIME FOR MODULE X:

DATE: MM/DD/YYYY moduleX startDate

V1 $interviewdate
M1 Unlikely start date. Please confirm.

HOURS

NUMERIC: INTEGER moduleX startHr

V1 self.InRange(5,22)
M1 Please enter valid start hours for module X

MINUTES

NUMERIC: INTEGER moduleX startMin

V1 self.InRange(0,59)
M1 Please enter a valid start minutes for module X

STATIC TEXT

CROSS-SECTION

X02. ENUMERATOR: WHAT WAS THE LAST COMPLETED RAINY SEASON?

SINGLE-SELECT hh x02

01 ◯ 2014/15

02 ◯ 2015/16

X03. Did you or anyone in your household own or cultivate a plot during the %hh_x02% rainy season?

SINGLE-SELECT hh x03

01 ◯ YES

02 ◯ NO

X04. ENUMERATOR: WHAT WAS THE LAST COMPLETED DRY (DIMBA) SEASON?

SINGLE-SELECT hh x04

01 ◯ 2015

02 ◯ 2016

X05. Did you or anyone in your household own or cultivate any plot during the %hh_x04% dry (dimba) season?

SINGLE-SELECT hh_x05

01 ◯ YES

02 ◯ NO

X06. Did you or anyone in your household produce any tea, coffee or any other fruits in the last 12 months?

SINGLE-SELECT hh x06

01 ◯ YES

02 ◯ NO

X07. Did you or anyone in your household own any livestock in the last 12 months?

SINGLE-SELECT hh x07

01 ◯ YES

02 ◯ NO

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE X:

SINGLE-SELECT: LINKED moduleX respondent

[AG-B_1] GARDEN (MUNDA) ROSTER- (RAINY SEASON)

A-1. ENUMERATOR: REFER TO THE HOUSEHOLD QUESTIONNAIRE, MODULE X. WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag b 1 a

01 ◯ 2014/2015

02 ◯ 2015/2016

B_1_1. During the [REFERENCE RAINY SEASON] %ag_b_1_a%, did you OR any member of your household own any land OR cultivate any land ?

SINGLE-SELECT ag b 1 1

01 ◯ YES

02 ◯ NO

STATIC TEXT

A IS A CONTINUOUS PIECE OF LAND AND SHOULD BY A OR A . A GARDEN CAN CONTAIN OR PLOTS. A IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A UNIQUE CROP OR A MIXTURE OF CROPS IS GROWN, UNDER A UNIFORM, CONSISTENT CROP MANAGEMENT SYSTEM. A MUST BE AND SHOULD . PLOT ARE DEFINED .GARDEN (MUNDA) NOT BE SPLIT RIVER PATH WIDE ENOUGH TO FIT AN OX-CART OR VEHICLE ONE MORE PLOT PLOT CONTINUOUS NOT BE SPLIT BY A PATH OF MORE THAN ONE METRE IN WIDTH BOUNDARIES ACCORDING TO THE CROPS GROWN AND THE OPERATOR

Please list all GARDENS (MINDA) you or anyone in your household owned or cultivated during the [REFERENCE RAINY SEASON].

LIST ag_b_1_0

I Do not forget to use prefixes "RG01, RG02, RG03, etc."

E ag_b_1_1==1

[AG-B_1] GARDEN (MUNDA) ROSTER- (RAINY SEASON)

Roster: GARDEN (MUNDA) ROSTER- [RAINY SEASON] ag_b_1_garden_roster

generated by list question ag_b_1_0

B_1_2. GARDEN (MUNDA) NAME

TEXT ag b 1 2

V1 self.ConsistsOf("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890 ") && self.Length>=2

M1 Length of description is short or Invalid characters included in response. Please confirm.

B_1_3. LOCATION & DESCRIPTION

TEXT ag b 1 3

V1 self.ConsistsOf("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghij

klmnopqrstuvwxyz1234567890 ") && self.Length>=2

M1 Invalid characters included in response. Please confirm.

B_1_3_2. RECORD THE NUMBER OF PLOTS CONTAINED IN THIS GARDEN (MUNDA).

NUMERIC: INTEGER ag b 1 3 2

V1 ((ag_c0!=null && ag_c0.Length>0)?(ag_c0.Length==ag_b_1_3_2):true)

M1 Confirm that the number of plots matches the number of plots reported in Module AG-C.

B_1_3_2a. Is this GARDEN the same piece of land on which the dwelling is located?

SINGLE-SELECT ag b 1 3 2a

01 ◯ YES

02 ◯ NO

B_1_4a. What is the area of this %rostertitle%[GARDEN]?

NUMERIC: DECIMAL ag_b_1_4a

I ENUMERATOR: ASK THE FARMER TO ESTIMATE THE AREA.

V1 self>0

M1 Area of garden must be greater than 0.

UNIT

SINGLE-SELECT ag b 1 4b

E ag_b_1_4a>0

01 ◯ ACRE

02 ◯ HECTARE

03 ◯ SQUARE METERS

04 ◯ OTHER (SPECIFY)

Specify the unit for the area of this %rostertitle% [GARDEN].

TEXT ag b 1 4b oth

E ag_b_1_4b==4

B_1_4a2. What is the area of this GARDEN (%rostertitle%)? ENUMERATOR: MEASURE THE AREA WITH THE GPS. MAKE SURE TO MEASURE THE PLOT AREA WITH GPS AT LEAST TWICE TO GET A CONSISTENT VALUE. RECORD ZEROS TO THE RIGHT OF THE DECIMAL.AREA

NUMERIC: DECIMAL ag b 1 4a2

I AREA IN ACRES. DON'T FORGET TO SAVE THE TRACK ON YOUR GPS UNIT. SAVE TRACK AS THE 12-DIGIT IHS4 CROSS-SECTIONAL HHID PLUS THE GARDEN ID! EXAMPLE: "301107310001RG01"

V1 self>0

M1 Please Confirm The Size

B_1_05a. ENUMERATOR: RECORD THE COORDINATES FOR THE CORNER OF THE PLOT AT WHICH YOU STARTED AREA MEASUREMENT.

TEXT ag_b_1_05a

I DON'T FORGET TO SAVE THE COORDINATES ON YOUR GPS UNIT. S AVE COORDINATES AS THE 12-DIGIT IHS4 CROSS-SECTIONAL HHID PLUS THE GARDEN ID! EXAMPLE: "301107310001RG01"

LONGITUDE

TEXT ag_b_1_05b

.....

B_1_05c. IF YOU DID NOT RECORD THE GPS COORDINATES, PLEASE SPECIFY REASON.

E String.IsNullOrEmpty(ag_b_1_05a) && String.IsNullOrEmpty(ag_b_1_05b)

SINGLE-SELECT ag b 1 05c

01 ◯ LONG DISTANCE WITHIN THIS DISTRICT

02 ◯ LONG DISTANCE OUTSIDE THIS DISTRICT

03 ◯ HOUSEHOLD REFUSED

04 ◯ OTHER (SPECIFY)

B_1_05coth. PLEASE SPECIFY REASON YOU DID NOT RECORD THE GPS COORDINATES

E ag_b_1_05c==4

TEXT ag b 1 05cOth

.....

B_1_06. ENUMERATOR: RECORD NUMBER OF SATELLITES GPS TRACKED TO CAPTURE PLOT COORDINATES

E !ag_b_1_05c.InList(1,2,3,4)

NUMERIC: INTEGER ag b 1 06

.....

ENUMERATOR: RECORD GPS ACCURACY

E !ag_b_1_05c.InList(1,2,3,4)

V1 self<=6

M1 Wait for GPS to stabilise and Recapture Co-ordinates for better accuracy

NUMERIC: INTEGER ag_b_1_06a

.....

B_1_07. ENUMERATOR: RECORD THE WEATHER CONDITIONS AT TIME OF MEASUREMENT:

E !ag_b_1_05c.InList(1,2,3,4)

SINGLE-SELECT: COMBO BOX ag b 1 07

01 ◯ Clear/Sunny

02 ◯ Mostly Clear / Mostly Sunny

03 ◯ Partly Cloudy / Partly Sunny

04 ◯ Mostly Cloudy / Considerable Cloudiness

05 ◯ Completely Cloudy

06 ◯ Rainy

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE B-1:

SINGLE-SELECT: LINKED ag_B_1_respondent

[AG-B_2] GARDEN DETAILS - (RAINY SEASON)

STATIC TEXT

NOTE: CONCERNING PANEL HOUSEHOLDS, ALL QUESTIONS ARE ADMINISTERED IN VISIT 1 UNLESS STATED OTHERWISE.

ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag b 2 0

01 ◯ 2014/2015

02 ◯ 2015/2016

STATIC TEXT

ENUMERATOR: ASK THE FOLLOWING FOR EACH GARDEN RECORDED IN AG-MODULE B_1, TABLE A. GO THROUGH THE ENTIRE MODULE ONE GARDEN AT A TIME.

[AG-B_2] GARDEN DETAILS - (RAINY SEASON)

Roster: GARDEN DETAILS

generated by list question ag_b_1_0

ag_b_2_garden_roster

B_2_02. ENUMERATOR: RECORD THE ID OF THE RESPONDENT.

I LIST FROM HOUSEHOLD ROSTER

SINGLE-SELECT: LINKED ag_b_2_02

B_2_03. How did your household acquire this garden (%rostertitle%)?

I IF PURCHASED, PROBE FOR WHETHER IT WAS PURCHASED WITH A TITLE.

SINGLE-SELECT ag b 2 03

01 ◯ GRANTED BY LOCAL LEADERS

02 ◯ INHERITED BY THE DEATH OF A FAMILY MEMBER

03 ◯ BRIDE PRICE

04 ◯ PURCHASED

06 ◯ LEASEHOLD

07 ◯ RENT SHORT-TERM, FIXED RENT

08 ◯ SHARECROPPING AS A TENANT

09 ◯ BORROWED FOR FREE

10 ◯ MOVED IN WITHOUT PERMISSION

11 ◯ OTHER (SPECIFY)

12 ◯ ALLOCATED BY FAMILY MEMBER

13 ◯ GIFT FROM NON-HOUSEHOLD MEMBER

Please specify other way your household acquired this garden (%rostertitle%)

I IF PURCHASED, PROBE FOR WHETHER IT WAS PURCHASED WITH A TITLE.

E ag_b_2_03==11

TEXT ag_b_2_03_oth

B_2_03_1. From whom did you acquire %rostertitle%?

MULTI-SELECT ag b 2 03 1

01 ☐ Village headman/chief

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

08 ☐ Area development committee

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

18 ☐ Other farmer in the village

B_2_03_2. In which year was this %rostertitle% acquired?

I 4-DIGIT YEAR. MARK 9999 IF ALWAYS OWNED

E ag_b_2_03.InList(1,2,3,4,12,13)

V1 self.InRange(1950,2016) || self==9999

M1 Year entered seems unlikely. Please confirm.

NUMERIC: INTEGER ag b 2 03 2

B_2_04. Who in this household owns %rostertitle%?

I LIST UP TO 4 JOINT OWNERS FROM HOUSEHOLD ROSTER.

E ag_b_2_03.InList(1,2,3,4,12,13)

MULTI-SELECT: LINKED ag b 2 04a

B_2_04b. Is there anyone OUTSIDE the household that owns %rostertitle%?

E ag_b_2_03.InList(1,2,3,4,12,13)

SINGLE-SELECT ag 2 04b

01 ◯ YES

02 ◯ NO

LIST UP TO 2 FROM NETWORK ROSTER

E ag_2_04b == 1

MULTI-SELECT ag b 2 04b

01 ☐ Village headman/chief

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

15 ☐ Other farmer in the village

B_2_04_1. Does your household currently have a title or ownership document for this %rostertitle%?

E ag_b_2_03.InList(1,2,3,4,12,13)

SINGLE-SELECT ag b 2 04 1

01 ◯ YES, OFFER OF LEASE

02 ◯ YES, A TITLE DEED

03 ◯ YES, CERTIFICATE OF LEASE

04 ◯ NO

96 ◯ OTHER (SPECIFY)

Please, specify Other title or ownership document for this %rostertitle%

E ag_b_2_03.InList(1,2,3,4,12,13) && ag_b_2_04_1==96

TEXT ag b 2 04 1oth

.....

B_2_04_2. Who is listed on the title or ownership document as owner of this %rostertitle%?

I LIST UP TO 4 JOINT OWNERS FROM HOUSEHOLD ROSTER.

E ag_b_2_04_1.InList(1,2,3,96)

MULTI-SELECT: LINKED ag_b_2_04_2a

B_2_04_2filter. Is there anyone OUTSIDE of this household who is listed on the title or ownership document as owner of this %rostertitle%?

E ag_b_2_04_1.InList(1,2,3,96)

SINGLE-SELECT ag b 2 04 2filter

01 ◯ YES

02 ◯ NO

LIST UP TO 2 FROM NETWORK ROSTER

E ag_b_2_04_1.InList(1,2,3,96) && ag_b_2_04_2filter==1

MULTI-SELECT ag b 2 04 2b

01 ☐ Village headman/chief

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

ENUMERATOR: WAS RESPONDENT ABLE TO PROVIDE DOCUMENTATION?

E ag_b_2_04_1.InList(1,2,3,96)

SINGLE-SELECT ag b 2 04 2a 1

01 ◯ YES

02 ◯ NO

B_2_04_3. Does your household currently have an informal document that certifies your ownership rights to this %rostertitle%?

I LIST ALL APPLICABLE DOCUMENTS

E ag_b_2_03.InList(1,2,3,4,12,13)

MULTI-SELECT ag_b_2_04_3

- 01 ☐ SALES RECEIPT
- 02 ☐ TAX RECEIPT
- 03 ☐ INHERITANCE PAPER
- 96 ☐ OTHER (SPECIFY)
- 05 ☐ NO
- 04 ☐ LETTER FROM CHIEF

Please, specify the other informal document that certifies your ownership rights

E ag_b_2_04_3.Contains(96)

TEXT ag_b_2_04_3_oth

.....

B_2_04_4. Who is listed on this informal document as owner of this %rostertitle%?

I LIST UP TO 4 JOINT OWNERS FROM HOUSEHOLD ROSTER.

E ag_b_2_03.InList(1,2,3,4,12,13) && ag_b_2_04_3.ContainsAny(1,2,3,4,96)

MULTI-SELECT: LINKED ag_b_2_04_4a

B_2_04_4filter. Is there anyone OUTSIDE the household listed on this informal document as owner of this %rostertitle%?

E ag_b_2_04_3.ContainsAny(1,2,3,4,96)

SINGLE-SELECT ag_b_2_04filter

- 01 ◯ YES
- 02 ◯ NO

LIST UP TO 2 FROM NETWORK ROSTER

E ag_b_2_04_3.ContainsAny(1,2,3,4,96) && ag_b_2_04filter== 1

MULTI-SELECT ag_b_2_04_4b

- 01 ☐ Village headman/chief
- 04 ☐ Group village headman/chief
- 05 ☐ Traditional Authority
- 12 ☐ Neighbour
- 13 ☐ Relative
- 14 ☐ Clan leader

ENUMERATOR: WAS RESPONDENT ABLE TO PROVIDE DOCUMENTATION?

E ag_b_2_04_3.ContainsAny(1,2,3,4,96)

SINGLE-SELECT ag_b_2_04_3_1

- 01 ◯ YES
- 02 ◯ NO

B_2_04_5. Does anyone in the household have the right to sell this %rostertitle%?

E ag_b_2_03.InList(1,2,3,4,12,13)

SINGLE-SELECT ag_b_2_04_5

- 01 ◯ YES

02 ◯ NO

B_2_04_6. Who can decide whether to sell this %rostertitle%?

MULTI-SELECT: LINKED ag b 2 04 6a

I LIST UP TO 4 JOINT OWNERS FROM HOUSEHOLD ROSTER.

E ag_b_2_04_5==1

B_2_04_6filter. Is there anyone OUTSIDE the household who can decide whether to sell this %rostertitle%?

SINGLE-SELECT ag b 2 04fiter

E ag_b_2_04_5==1

01 ◯ YES

02 ◯ NO

LIST UP TO 2 FROM NETWORK ROSTER

MULTI-SELECT ag b 2 04 6b

E ag_b_2_04_5==1 && ag_b_2_04fiter==1

01 ☐ Village headman/chief

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

17 ☐ Oher farmer in the village

B_2_04_7. Does anyone have the right to bequeath this %rostertitle%?

SINGLE-SELECT ag b 2 04 7

E ag_b_2_03.InList(1,2,3,4,12,13)

01 ◯ YES

02 ◯ NO

B_2_04_8. Who can decide whether to bequeath this %rostertitle%?

MULTI-SELECT: LINKED ag_b_2_04_8a

I LIST UP TO 4 JOINT OWNERS FROM HOUSEHOLD ROSTER.

E ag_b_2_03.InList(1,2,3,4,12,13) && ag_b_2_04_7==1

B_2_04_8filter. Is there anyone OUTSIDE the household who can decide whether to bequeath this %rostertitle%?

SINGLE-SELECT ag_b_04_8filter

E ag_b_2_03.InList(1,2,3,4,12,13) && ag_b_2_04_7==1

01 ◯ YES

02 ◯ NO

LIST UP TO 2 FROM NETWORK ROSTER

MULTI-SELECT ag b 2 04 8b

E ag_b_2_03.InList(1,2,3,4,12,13) && ag_b_2_04_7==1 && ag_b_04_8filter==1

01 ☐ Village headman/chief

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

13 ☐ Relative

14 ☐ Clan leader

B_2_04_9. Have you ever been concerned that somebody might dispute your ownership of this %rostertitle%?

E ag_b_2_03.InList(1,2,3,4,12,13)

SINGLE-SELECT ag b 2 04 9

01 ◯ YES

02 ◯ NO

B_2_05. If you were to sell this %rostertitle% today, how much could you sell it for?

I MK

E ag_b_2_03.InList(1,2,3,4,12,13)

NUMERIC: INTEGER ag b 2 05

.....

B_2_06. If you were to rent out this %rostertitle% today for 12 months, how much could you rent it for?

I MK

E ag_b_2_03.InList(1,2,3,4,12,13)

NUMERIC: INTEGER ag b 2 06

.....

B_2_06a. If this %rostertitle% were to be sold/rented out today, would any other household member decide how the money is used?

I LIST UP TO 3 ADULTS FROM THE HOUSEHOLD ROSTER

E ag_b_2_03.InList(1,2,3,4,12,13)

SINGLE-SELECT ag_b_2_06a

01 ◯ YES

02 ◯ NO

B_2_06b. If this parcel were to be sold/rented out today, who else (inside the household) would decide how the money is used?

I LIST UP TO 3 ADULTS FROM THE HOUSEHOLD ROSTER

E ag_b_2_06a==1

MULTI-SELECT: LINKED ag b 2 06b

B_2_06c. Is there anyone outside the household who would decide how the money is used if this parcel were to be sold/rented out today?

E ag_b_2_03.InList(1,2,3,4,12,13)

SINGLE-SELECT ag b 2 06c

01 ◯ YES

02 ◯ NO

B_2_06d. If this parcel were to be sold/rented out today, who (outside the household) would decide how the money is used?

E ag_b_2_06c==1

MULTI-SELECT ag b 2 06d

01 ☐ Village headman/chief

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

STATIC TEXT

RENTED/SHARECROPPED IN

B_2_08a. CROP TYPE

SINGLE-SELECT: COMBO BOX ag b 2 08a

E ag_b_2_03==7

01 ◯ MAIZE

05 ◯ TOBACCO

11 ◯ GROUNDNUT

17 ◯ RICE

27 ◯ GROUND BEAN(NZAMA)

28 ◯ SWEET POTATO

29 ◯ IRISH [MALAWI] POTATO

30 ◯ WHEAT

31 ◯ FINGER MILLET(MAWERE)

32 ◯ SORGHUM

33 ◯ PEARL MILLET(MCHEWERE)

34 ◯ BEANS

35 ◯ SOYABEAN

36 ◯ PIGEONPEA(NANDOLO)

37 ◯ COTTON

38 ◯ SUNFLOWER

And 10 other [15]

B_2_08a_oth. Specify the crops planted.

TEXT ag_b_2_08a_oth

E ag_b_2_08a.InList(10,16,26,48)

B_2_08b. How much output from this %rostertitle% did you give as rent, if any, in the [REFERENCE RAINY SEASON]?

NUMERIC: INTEGER ag b 2 08b

I QUANTITY. ENTER ZERO IF NO OUTPUT WAS GIVEN AS RENT. IF M ORE THAN TWO CROPS WERE GIVEN AS RENT, ASK ABOUT THE MA

IN CROP.

E ag_b_2_08a!=null && ag_b_2_03.InList(6,7,8)

B_2_08c. UNIT

E ag_b_2_03==7 && ag_b_2_08b>0

SINGLE-SELECT: COMBO BOX ag_b_2_08c

- 01 ◯ KILOGRAM
- 02 ◯ 50 KG BAG
- 04 ◯ PAIL (SMALL)
- 05 ◯ PAIL (LARGE)
- 06 ◯ NO 10 PLATE
- 07 ◯ NO 12 PLATE
- 08 ◯ BUNCH
- 09 ◯ PIECE
- 12 ◯ OX-CART
- 13 ◯ OTHER (SPECIFY)

Please specify the other unit of output given as rent

E ag_b_2_08c==13

TEXT ag_b_2_08c_oth

.....

B_2_08d. SHELLED / UNSHELLED

E ag_b_2_03==7 && ag_b_2_08b>0

SINGLE-SELECT ag_b_2_08d

- 01 ◯ S:SHELLED
- 02 ◯ U:UNSHELLED
- 03 ◯ NOT APPLICABLE

B_2_09a. How much did you pay the owner for the use of %rostertitle% in the [REFERENCE RAINY SEASON]?

I CASH/MK. ENTER ZERO IF NO PAYMENT HAS BEEN MADE. EXCLUDE PAYMENTS BY CROP OUTPUT IF ONE TYPE OF CROP IS TO BE PAID AS RENT.

E ag_b_2_03==7

NUMERIC: INTEGER ag_b_2_09a

.....

B_2_09b. How much did you pay the owner for the use of %rostertitle% in the [REFERENCE RAINY SEASON]?

I IN-KIND. ESTIMATE THE VALUE OF IN-KIND PAYMENTS. IF MORE T HAN ONE TYPE OF CROP WAS PAID AS RENT, INCLUDE AS PART OF IN-KIND PAYMENTS THE VALUE OF CROPS OTHER THAN THE ONE R ECORDED IN QUESTION 8.

E ag_b_2_03==7

NUMERIC: INTEGER ag_b_2_09b

.....

B_2_12. What period of time did this

SINGLE-SELECT ag_b_2_12

payment cover?

I READ ANSWERS
E ag_b_2_03==7

01 ◯ Rainy Season
02 ◯ Full Year (Rainy & Dimba Seasons)
03 ◯ Other (Specify)

B12_oth. Please specify other period of payment

E ag_b_2_12==3

TEXT ag_b_2_12_oth

.....

B_2_13. Who owns this %rostertitle%?

I LIST UP TO 2 FROM NETWORK ROSTER
E ag_b_2_03.InList(6,7,8,9,10,11)

MULTI-SELECT ag b 2 13

01 ☐ Village headman/chief
04 ☐ Group village headman/chief
05 ☐ Traditional Authority
12 ☐ Neighbour
13 ☐ Relative
14 ☐ Clan leader
15 ☐ Other farmer

B_2_13_1. Who in the household has the use rights to this %rostertitle%?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER
E ag_b_2_03.InList(6,7,8,9,10,11)

MULTI-SELECT: LINKED hh b 2 13 1

B_2_14. During the [REFERENCE RAINY SEASON], is this [GARDEN]…

I READ ANSWERS

SINGLE-SELECT ag b 2 14

01 ◯ Cultivated
02 ◯ Rented/Sharecropped out
03 ◯ Gave out for free
04 ◯ Fallow
05 ◯ Forest / Woodlot
06 ◯ Pasture
07 ◯ Other (Specify)

Please specify Other cultivation status of the garden

E ag_b_2_14==7

TEXT ag b 2 14 oth

.....

ENUMERATOR: IS THIS A CROSS

SINGLE-SELECT ag b 2 15

SECTIONAL HOUSEHOLD?

E ag_b_2_14==2

01 ◯ YES

02 ◯ NO

STATIC TEXT

RENTED/SHARECROPPED OUT

B_2_16a. How much output from this %rostertitle% did you receive as rent, if any, in the [REFERENCE RAINY SEASON]? CROP TYPE

E ag_b_2_14==2

NUMERIC: INTEGER ag_b_2_16a

B_2_16a_oth. Specify the crops planted.

E ag_b_2_16b.InList(48)

TEXT ag_b_2_16a_oth

B_2_16b. QUANTITY

I ENTER ZERO FOR QUANTITY IF NO OUTPUT WAS RECEIVED AS RENT. IF MORE THAN TWO CROPS WILL BE RECEIVED, ASK ABOUT THE MAIN CROP.

E ag_b_2_16a.HasValue

NUMERIC: INTEGER ag_b_2_16b

B_2_16c. UNIT

E ag_b_2_16b>0

SINGLE-SELECT: COMBO BOX ag_b_2_16c

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

Please specify the other unit of output received as rent

E ag_b_2_16c==13

TEXT ag_b_2_16c_oth

B_2_16d. SHELLED / UNSHELLED

E ag_b_2_16b>0

SINGLE-SELECT ag_b_2_16d

01 ◯ S:SHELLED

02 ◯ U:UNSHELLED

03 ◯ NOT APPLICABLE

B_2_17a. How much did you receive from renting out this %rostertitle% in the [REFERENCE RAINY SEASON]?

I CASH/MK. ENTER ZERO IF NOTHING WAS RECEIVED AS RENT. EXCL UDE RECEIPTS BY CROP OUTPUT IF ONE TYPE OF CROP IS TO BE R ECEIVED AS RENT.

E ag_b_2_14==2

NUMERIC: INTEGER ag_b_2_17a

B_2_17b. IN-KINDMK

I ESTIMATE THE VALUE OF IN-KIND RECEIPTS. IF MORE THAN ONE T YPE OF CROP WAS RECEIVED AS RENT, INCLUDE AS PART OF IN-KI ND RECEIPTS THE VALUE OF CROPS OTHER THAN THE ONE RECOR DED IN QUESTION 16.

E ag_b_2_14==2

NUMERIC: INTEGER ag_b_2_17b

[AG-C] PLOT ROSTER- (RAINY SEASON)

[AG-C] PLOT ROSTER- (RAINY SEASON)

Roster: GARDEN (MUNDA) ROSTER

generated by list question ag_b_1_0

ag_c_garden_roster

STATIC TEXT

A GARDEN (MUNDA) IS A CONTINUOUS PIECE OF LAND AND SHOULD NOT BE SPLIT BY A RIVER OR A PATH WIDE ENOUGH TO FIT AN OX-CART OR VEHICLE. A GARDEN CAN CONTAIN ONE OR MORE PLOTS. A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A UNIQUE CROP OR A MIXTURE OF CROPS IS GROWN, UNDER A UNIFORM, CONSISTENT CROP MANAGEMENT SYSTEM. A PLOT MUST BE CONTINUOUS AND SHOULD NOT BE SPLIT BY A PATH OF MORE THAN ONE METRE IN WIDTH. PLOT BOUNDARIES ARE DEFINED ACCORDING TO THE CROPS GROWN AND THE OPERATOR.

Please list all PLOTS on all GARDENS (MINDA) that you or anyone in your household owned or cultivated during the [REFERENCE RAINY SEASON].

I Do not forget to use prefixes "R01, R02, R03, etc."

LIST ag_c0

[AG-C] PLOT ROSTER- (RAINY SEASON) / GARDEN (MUNDA) ROSTER

Roster: PLOT ROSTER (RAINY SEASON)

generated by list question ag_c0

ag_c_plot_roster

C02. PLOT NAME

TEXT ag_c02

C03. LOCATION & DESCRIPTION

TEXT ag_c03

C04a. What is the area of this plot (%rostertitle%)?

NUMERIC: DECIMAL

ag c04a

I ASK THE FARMER TO ESTIMATE THE AREA .

V1 `self>0`

M1 Area of plot must be greater than 0.

UNIT

SINGLE-SELECT

ag c04b

E `ag_c04a>0`

V1 `// Check for outliers using IHPS data (new Func<bool> (() => { // find the lower and upper bounds of the it em for that unit var bounds = agc04bounds.Values.Firs tOrDefault(x => x.unit == (double`
And 238 other symbols [5]

M1 Reported land area is unlikely. Please confirm.

01 ◯ ACRE

02 ◯ HECTARE

03 ◯ SQUARE METERS

04 ◯ OTHER (SPECIFY)

C04b_oth. Specify the UNIT for the area of this plot (%rostertitle%).

TEXT

ag c04b oth

E `ag_c04b==4`

C04c. What is the area of this plot (%rostertitle%)? ENUMERATOR: MEASURE THE AREA WITH THE GPS. MAKE SURE TO MEASURE THE PLOT AREA WITH GPS AT LEAST TWICE TO GET A CONSISTENT VALUE. RECORD ZEROS TO THE RIGHT OF THE DECIMAL.AREA

NUMERIC: DECIMAL

ag_c04c

I AREA IN ACRES. DON'T FORGET TO SAVE THE TRACK ON YOUR GP S UNIT. SAVE TRACK AS THE 12-DIGIT IHS4 CROSS-SECTIONAL HHI D PLUS THE GARDEN ID PLUS THE PLOT ID! EXAMPLE: "301107310 001RG01R02"

V1 `self.InRange(0.01,10)/* bounds from IHPS data */`

M1 Reported land area is unlikely. Please confirm.

C05a. ENUMERATOR: RECORD THE COORDINATES FOR THE CORNER OF THE PLOT AT WHICH YOU STARTED AREA MEASUREMENT.

TEXT

ag_c05a

I DON'T FORGET TO SAVE THE COORDINATES ON YOUR GPS UNIT. S AVE COORDINATES AS THE 12-DIGIT IHS4 CROSS-SECTIONAL HHID PLUS THE GARDEN ID PLUS THE PLOT ID! EXAMPLE: "30110731000 1RG01R02"

LONGITUDE

TEXT

ag_c05b

C05c. IF YOU DID NOT RECORD THE GPS COORDINATES, PLEASE SPECIFY REASON.

SINGLE-SELECT

ag c05c

E `String.IsNullOrEmpty(ag_c05a) && String.IsNullOrEmpty (ag_c05b)`

01 ◯ LONG DISTANCE WITHIN THIS DISTRICT

02 ◯ LONG DISTANCE OUTSIDE THIS DISTRICT

03 ◯ HOUSEHOLD REFUSED

04 ◯ OTHER (SPECIFY)

C05c_oth. PLEASE SPECIFY REASON YOU DID NOT RECORD THE GPS COORDINATES

TEXT ag c05c oth

E ag_c05c==4

C06. ENUMERATOR: RECORD NUMBER OF SATELLITES GPS TRACKED TO CAPTURE PLOT COORDINATES

NUMERIC: INTEGER ag_c06

E !ag_c05c.InList(1,2,3,4)

ENUMERATOR: RECORD GPS ACCURACY

NUMERIC: INTEGER ag c06 1

E !ag_c05c.InList(1,2,3,4)

V1 self<=6

M1 Wait for GPS to stabilise and Recapture Co-ordinates for better accuracy

C07. ENUMERATOR: RECORD THE WEATHER CONDITIONS AT TIME OF MEASUREMENT:

SINGLE-SELECT: COMBO BOX ag c07

E !ag_c05c.InList(1,2,3,4)

01 ◯ Clear/Sunny

02 ◯ Mostly Clear / Mostly Sunny

03 ◯ Partly Cloudy / Partly Sunny

04 ◯ Mostly Cloudy / Considerable Cloudiness

05 ◯ Completely Cloudy

06 ◯ Rainy

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE C:

SINGLE-SELECT: LINKED ag moduleC respondent

[AG-D] PLOT DETAILS (RAINY SEASON)

D-0. ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag d0

01 ◯ 2014/2015

02 ◯ 2015/2016

[AG-D] PLOT DETAILS (RAINY SEASON)

Roster: GARDEN ROSTER

generated by list question ag_b_1_0

ag_moduleD_garden_roster

Roster: PLOT ROSTER

generated by list question ag_c0

ag_moduleD_plot_roster

D01. Who in the household makes the decisions concerning crops to be planted, input use and the timing of cropping activities on this plot (%rostertitle%)?

I THIS DOES NOT NEED TO CORRESPOND TO THE OWNER

SINGLE-SELECT: LINKED — ag d01

D01_1. Are there other household members that the primary decision maker consults regarding crop choice, input use and timing of cropping activities on this plot (%rostertitle%)?

SINGLE-SELECT — ag d01 1

01 ◯ YES

02 ◯ NO

D01_2. Who are the other decision makers on the plot (%rostertitle%)?

I LIST UP TO 2 HOUSEHOLD MEMBERS FROM HOUSEHOLD ROSTER

E ag_d01_1==1

MULTI-SELECT: LINKED — ag d01 2

D02. ENUMERATOR: RECORD THE ID OF THE RESPONDENT.

I LIST FROM HOUSEHOLD ROSTER

SINGLE-SELECT: LINKED — ag_d02

D14. During the [REFERENCE RAINY SEASON], is this [%rostertitle%]...

I READ ANSWERS

SINGLE-SELECT — ag d14

01 ◯ Cultivated

02 ◯ Rented out

03 ◯ Gave out for free

04 ◯ Fallow

05 ◯ Forest / Woodlot

06 ◯ Pasture

07 ◯ Other (Specify)

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER

PLOT CHARACTERISTICS

E ag_d14.InList(1,2,3,4)

D20. What crops were planted on this plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

I LIST ALL CROPS IN ORDER OF IMPORTANCE, STARTING WITH THE MOST IMPORTANT CROP. DO NOT LIST CASSAVA, TEA, COFFEE OR ANY FRUITS. FOR MAIZE, IF THERE ARE SEVERAL VARIETIES OF MA

MULTI-SELECT: ORDERED — ag d20

01 ☐ MAIZE 1

02 ☐ MAIZE 2

IZE ON THE SAME PLOT, TREAT And 214 other symbols [7]

E ag_d14==1

03 ☐ MAIZE 3

04 ☐ MAIZE 4

05 ☐ TOBACCO

11 ☐ GROUNDNUT

17 ☐ RICE

27 ☐ GROUND BEAN(NZAMA)

28 ☐ SWEET POTATO

29 ☐ IRISH [MALAWI] POTATO

30 ☐ WHEAT

31 ☐ FINGER MILLET(MAWERE)

32 ☐ SORGHUM

33 ☐ PEARL MILLET(MCHEWERE)

34 ☐ BEANS

35 ☐ SOYABEAN

And 14 other []

D20_oth. Specify the crops planted.

E ag_d20.Contains(48)

TEXT ag_d20_oth

.....

D21. What is the predominant soil type of this plot (%rostertitle%)?

I READ ANSWERS

SINGLE-SELECT ag_d21

01 ◯ Sandy (Mchenga)

02 ◯ Between sandy & clay(Pakati pa mchenga ndi katondo)

03 ◯ Clay (Katondo)

04 ◯ Other (Specify)

D21. Specify the predominant soil type of this plot (%rostertitle%).

E ag_d21==4

TEXT ag_d21_oth

.....

D22. What is the soil quality of plot (%rostertitle%)?

I READ ANSWERS AND THIS SHOULD BE BASED ON FERTILITY AND YIELDS

SINGLE-SELECT ag_d22

01 ◯ Good

02 ◯ Fair

03 ◯ Poor

D23. How would you rate the extent of erosion on this plot (%rostertitle%)?

I READ ANSWERS

SINGLE-SELECT ag d23

01 ◯ No Erosion

02 ◯ Low

03 ◯ Moderate

04 ◯ High

D24. What are the causes of these erosion problems?

I READ ANSWERS LIST UP TO 2, IN ORDER OF IMPORTANCE

E ag_d23.InList(2,3,4)

MULTI-SELECT: ORDERED ag_d24

01 ☐ Terrain

02 ☐ Flooding

03 ☐ Wind

04 ☐ Animals

05 ☐ Other (Specify)

D24_oth. Specify what are the causes of these erosion problems.

E ag_d24.Contains(5)

TEXT ag d24 oth

D25. What type of erosion control/water harvesting facilities are on this plot (%rostertitle%)?

I READ ANSWERS LIST UP TO TWO STRUCTURES.

V1 (!self.Contains(1) && self.ContainsAny(2,3,4,5,6,7,8,9))|| self.ContainsOnly(1)

M1 You can not have No Erosion Control and Any other option

MULTI-SELECT: ORDERED ag_d25

01 ☐ No erosion control

02 ☐ Terraces

03 ☐ Erosion control bunds

04 ☐ Gabions / Sandbags

05 ☐ Vetiver grass

06 ☐ Tree belts

07 ☐ Water harvest bunds

08 ☐ Drainage ditches

09 ☐ Other (Specify)

D25_oth. Specify the type of erosion control/water harvesting facilities on this plot (%rostertitle%).

TEXT ag d25 oth

E ag_d25.Contains(9)

D25_1a. When was the investment in [STRUCTURE] made?

I FIRST STRUCTURE

E ag_d25.ContainsAny(2,3,4,5,6,7,8,9)

SINGLE-SELECT: COMBO BOX ag_d25_1a

01 ◯ During last 12 months

02 ◯ 2 years ago

03 ◯ 3 years ago

04 ◯ 4 years ago

05 ◯ 5 years ago

06 ◯ More than 5 years ago

D25_1b. When was the investment in [STRUCTURE] made?

I SECOND STRUCTURE

E ag_d25.ContainsAny(2,3,4,5,6,7,8,9) && ag_d25.Length==2

SINGLE-SELECT: COMBO BOX ag_d25_1b

01 ◯ During last 12 months

02 ◯ 2 years ago

03 ◯ 3 years ago

04 ◯ 4 years ago

05 ◯ 5 years ago

06 ◯ More than 5 years ago

D25_2. What are the main reasons you have not invested in soil and water conservation structures on any plots owned and/or cultivated by the household?

I SELECT IN ORDER OF IMPORTANCE

E ag_d25.Contains(1)

MULTI-SELECT: ORDERED ag_d25_2

01 ☐ Requires too much labor

02 ☐ Materials not available

03 ☐ Materials too costly

04 ☐ No soil or water erosion problems on any plots

05 ☐ Too risky/benefits unclear

06 ☐ Other (Specify)

D25_2_oth.Specify the main reason you have not invested in soil and water conservation structures on any plots owned and/or cultivated by the household.

E ag_d25_2.Contains(6)

TEXT ag_d25_2_oth

D26. What is the slope of this plot (%rostertitle%)?

SINGLE-SELECT ag_d26

I READ ANSWERS

01 ◯ Flat

02 ◯ Slight slope

03 ◯ Moderate slope

04 ◯ Steep, hilly

D27. Is this plot (%rostertitle%) swamp/ wetland?

SINGLE-SELECT ag d27

01 ◯ YES

02 ◯ NO

D28. What systems of irrigation, if any, are on this plot (%rostertitle%)?

I READ ANSWERS LIST UP TO 2

MULTI-SELECT: ORDERED ag_d28

01 ☐ Divert stream

02 ☐ Bucket

03 ☐ Hand pump

04 ☐ Treadle pump

05 ☐ Motor pump

06 ☐ Gravity

07 ☐ Rainfed/No irrigation

09 ☐ Can Irrigation

08 ☐ Other (Specify)

D28_oth. Specify the systems of irrigation that are on this plot (%rostertitle%).

E ag_d28.Contains(8)

TEXT ag d28 oth

D29. What is the method of irrigating plants/puring water on plants on this plot (%rostertitle%)?

I READ ANSWERS

E ag_d28.ContainsAny(1,2,3,4,5,6,8)

SINGLE-SELECT: COMBO BOX ag_d29

01 ◯ Watering can

02 ◯ Hose pipe

03 ◯ Sprinkler

04 ◯ Drip irrigation

05 ◯ Flooding

06 ◯ Other (Specify)

D29_oth. Specify the method of obtaining

TEXT ag d29 oth

water for this plot (%rostertitle%).

E ag_d29==6

D30. What is the source of water on this plot (%rostertitle%)?

I READ ANSWERS

E ag_d28.ContainsAny(1,2,3,4,5,6,8)

SINGLE-SELECT: COMBO BOX ag_d30

01 ◯ Well

02 ◯ Borehole

03 ◯ Lake / Pond

04 ◯ River / Stream

05 ◯ Other (Specify)

D30_oth. Specify what is the source of water on this plot (%rostertitle%).

E ag_d30==5

TEXT ag_d30_oth

D32. What was the most recent year in which this plot (%rostertitle%) was left fallow?

I YEAR [4-DIGIT]. IF NEVER RECORD ZERO. IF DON'T KNOW, RECORD 8888.

E ag_d14.InList(1,2,3)

V1 self.InRange(1950,2017) || self==8888 || self==0

M1 Year entered seems unlikely. Please confirm.

NUMERIC: INTEGER ag_d32

D33. For how many years was it left fallow?

I NUMBER OF YEARS

E ag_d32.HasValue && ag_d32!=0 && ag_d32!=8888

V1 (hh_a03b ==1 && self.InRange(2,6))|| (hh_a03b ==2 && self.InRange(2,10))

M1 Number Of Years Unlikely, Please Confirm

V2 (hh_a03b ==1 && self.InRange(2,6))|| (hh_a03b ==2 && self.InRange(2,10))

M2 Number of years Unlikely Please confirm

NUMERIC: INTEGER ag_d33

D34. Why was this plot (%rostertitle%) left fallow?

I LIST UP TO 2

E (ag_d32.HasValue && ag_d32!=0 && ag_d32!=8888) && ag_d33>0

MULTI-SELECT: ORDERED ag_d34

01 ☐ Good for land

02 ☐ Lack of non-labour inputs

03 ☐ Lack of household labour

04 ☐ Lack of hired labour

05 ☐ Lack of equipment

06 ☐ Lack of credit

08 ☐ I have enough land

07 ☐ Other (Specify)

D34. Specify why was this plot (%rostertitle%) left fallow.

E ag_d34.Contains(7)

TEXT ag_d34_oth

D35_1a. In what month did you finish planting this plot (%rostertitle%)?

E ag_d14==1

SINGLE-SELECT: COMBO BOX ag_d35_1a

01 ◯ JANUARY
02 ◯ FEBRUARY
03 ◯ MARCH
04 ◯ APRIL
05 ◯ MAY
06 ◯ JUNE
07 ◯ JULY
08 ◯ AUGUST
09 ◯ SEPTEMBER
10 ◯ OCTOBER
11 ◯ NOVEMBER
12 ◯ DECEMBER

D35_1b. Did you finish planting this plot (%rostertitle%) in the first or second half of the month?

E ag_d14==1

SINGLE-SELECT ag_d35_1b

01 ◯ 1ST HALF
02 ◯ 2ND HALF

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER

ORGANIC FERTILIZER

E ag_d14==1

D36. Did you use any organic fertilizer on this plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

I ANIMAL MANURE, COMPOST, GREEN MANURE

SINGLE-SELECT ag_d36

01 ◯ YES
02 ◯ NO

D37a. How much organic fertilizer did you apply to this plot (%rostertitle%)?

I QUANTITY. USE THE SAME UNIT FOR ALL PLOTS.

NUMERIC: INTEGER ag_d37a

E ag_d36==1
V1 self>0
M1 Organic fertilizer use must be non-zero. Please confirm.

UNIT

E ag_d36==1

SINGLE-SELECT: COMBO BOX ag_d37b

02 ◯ KILOGRAM
10 ◯ BUCKET
11 ◯ WHEELBARROW
12 ◯ OX CART
13 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_d37b==13

TEXT ag_d37b_oth

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER

INORGANIC FERTILIZER

E ag_d14==1

D38. Did you use any inorganic fertilizer on this plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

SINGLE-SELECT ag_d38

01 ◯ YES
02 ◯ NO

D39a. What type of inorganic fertilizer did you apply to this plot (%rostertitle%) ? FIRST APPLICATION TYPE

I IF TWO TYPES OF FERTILIZER WERE MIXED IN A GIVEN APPLICATI ON, RECORD THE CODE FOR THE MAIN FERTILIZER IN THE COLUMN FOR "TYPE", BUT NOTE THE SUM OF BOTH TYPES OF FERTILIZER I N THE COLUMN FOR "QUANTITY And 2 other symbols [8]

E ag_d38==1

SINGLE-SELECT: COMBO BOX ag_d39a

01 ◯ 23:21:0+4S/CHITOWE
02 ◯ DAP
03 ◯ CAN
04 ◯ UREA
05 ◯ D COMPOUND
06 ◯ OTHER FERTILIZER (SPECIFY)

Specify the type of inorganic fertilizer. FIRST APPLICATION TYPE

E ag_d39a==6

TEXT ag_d39a_oth

FIRST APPLICATION QUANTITY

E ag_d38==1 && ag_d39a.HasValue
V1 self>0
M1 Quantity used must be greater than zero. Please confirm.

NUMERIC: INTEGER ag_d39b

FIRST APPLICATION UNIT

E ag_d39b>0 && ag_d38==1

SINGLE-SELECT: COMBO BOX ag d39c

01 ◯ GRAM
02 ◯ KILOGRAM
03 ◯ 2 KG BAG
04 ◯ 3 KG BAG
05 ◯ 5 KG BAG
06 ◯ 10 KG BAG
07 ◯ 50 KG BAG
13 ◯ OTHER (SPECIFY)

SPECIFY FIRST APPLICATION UNIT

E ag_d39c==13

TEXT ag d39c oth

ENUMERATOR: TOTAL KGs

E ag_d39b>0 && ag_d38==1

NUMERIC: INTEGER ag d39d

D39e. How many weeks after planting did you finish the 1st fertilizer application on this plot (%rostertitle%)? NUMBER OF WEEKS

I REFER TO QUESTION 35_1 ON THE TIMING OF THE PLANTING.

E ag_d38==1 && ag_d39a.HasValue

NUMERIC: INTEGER ag d39e

D39. Did you apply a second application of inorganic fertilizer to this plot (%rostertitle%)?

E ag_d38==1

SINGLE-SELECT ag d39f

01 ◯ YES
02 ◯ NO

D39f. What type of inorganic fertilizer did you apply to this plot (%rostertitle%) ? SECOND APPLICATION TYPE

I IF TWO TYPES OF FERTILIZER WERE MIXED IN A GIVEN APPLICATI ON, RECORD THE CODE FOR THE MAIN FERTILIZER IN THE COLUMN FOR "TYPE", BUT NOTE THE SUM OF BOTH TYPES OF FERTILIZER I N THE COLUMN FOR "QUANTITY And 2 other symbols [9]

E ag_d39f==1

SINGLE-SELECT: COMBO BOX ag d39g

01 ◯ 23:21:0+4S/CHITOWE
02 ◯ DAP
03 ◯ CAN
04 ◯ UREA
05 ◯ D COMPOUND
06 ◯ OTHER FERTILIZER (SPECIFY)

Specify the type of inorganic fertilizer. SECOND APPLICATION TYPE

TEXT ag d39g oth

E ag_d39g==6

SECOND APPLICATION QUANTITY

NUMERIC: INTEGER ag_d39h

E ag_d39f==1 && ag_d39g.HasValue
V1 self>0
M1 Quantity used must be greater than zero. Please confirm.

SECOND APPLICATION UNIT

SINGLE-SELECT: COMBO BOX ag_d39i

E ag_d39h>0

01 ◯ GRAM
02 ◯ KILOGRAM
03 ◯ 2 KG BAG
04 ◯ 3 KG BAG
05 ◯ 5 KG BAG
06 ◯ 10 KG BAG
07 ◯ 50 KG BAG
13 ◯ OTHER (SPECIFY)

SPECIFY SECOND APPLICATION UNIT

TEXT ag d39i oth

E ag_d39i==13

ENUMERATOR: TOTAL KGs

NUMERIC: INTEGER ag_d39j

E ag_d39h>0

D39_1. How many complete weedings did you do on this plot (%rostertitle%)? NUMBER OF WEEDINGS

NUMERIC: INTEGER ag d39 1

D39_2. How many weeks after planting did you finish the 1st weeding on this plot (%rostertitle%)?NUMBER OF WEEKS

NUMERIC: INTEGER ag d39 2

E ag_d39_1>0

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER

PESTICIDES/HERBICIDES

E ag_d14==1

D40. Did you use any pesticides/ herbicides

SINGLE-SELECT ag_d40

on this plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

01 ◯ YES

02 ◯ NO

D41a. How much pesticides/ herbicides did you apply to this plot (%rostertitle%)? FIRST TYPE

SINGLE-SELECT: COMBO BOX ag d41a

I FOR PESTICIDES/HERBICIDES THAT WERE DISSOLVED IN WATER/ OTHER SOLUTION, RECORD THE QUANTITY OF PESTICIDES/HERBICIDES IN LIQUID FORM.

E ag_d40==1

07 ◯ INSECTICIDE

08 ◯ HERBICIDE

09 ◯ FUNGICIDE

10 ◯ FUMIGANT

11 ◯ OTHER PESTICIDE/ HERBICIDE(SPECIFY)

Specify the type of pesticides/ herbicides. FIRST TYPE

TEXT ag d41a oth

E ag_d41a==11

.....

QUANTITY

NUMERIC: INTEGER ag d41b

E ag_d40==1 && ag_d41a.HasValue

V1 self>0

M1 Quantity used must be greater than zero. Please confirm.

.....

UNIT

SINGLE-SELECT: COMBO BOX ag d41c

E ag_d41a>0

01 ◯ GRAM

02 ◯ KILOGRAM

08 ◯ LITER

09 ◯ MILLILITER

13 ◯ OTHER (SPECIFY)

SPECIFY UNIT

TEXT ag d41c oth

E ag_d41c==13

.....

D41d. Did you apply another type of pesticides/ herbicides to this plot (%rostertitle%)?

SINGLE-SELECT ag d41d

E ag_d40==1

01 ◯ YES

02 ◯ NO

D41e. How much pesticides/ herbicides did you apply to this plot (%rostertitle%)? SECOND TYPE

SINGLE-SELECT: COMBO BOX ag d41e

I FOR PESTICIDES/HERBICIDES THAT WERE DISSOLVED IN WATER/ OTHER SOLUTION, RECORD THE QUANTITY OF PESTICIDES/HERBI

07 ◯ INSECTICIDE

08 ◯ HERBICIDE

CIDES IN LIQUID FORM.

E ag_d41d==1

09 ◯ FUNGICIDE

10 ◯ FUMIGANT

11 ◯ OTHER PESTICIDE/ HERBICIDE(SPECIFY)

Specify the type of pesticides/ herbicides. SECOND TYPE

E ag_d41e==11

TEXT ag_d41e_oth

.....

QUANTITY

E ag_d41d==1 && ag_d41e.HasValue

V1 self>0

M1 Quantity used must be greater than zero. Please confirm.

NUMERIC: INTEGER ag d41f

.....

UNIT

E ag_d41f>0

SINGLE-SELECT: COMBO BOX ag d41g

01 ◯ GRAM

02 ◯ KILOGRAM

08 ◯ LITER

09 ◯ MILLILITER

13 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_d41g==13

TEXT ag_d41g_oth

.....

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER

HOUSEHOLD LABOUR

E ag_d14==1

D41_1. Did you use any mechanization on this [PLOT] during the [REFERENCE RAINY SEASON]?

SINGLE-SELECT ag_d41_1

01 ◯ YES

02 ◯ NO

D41_2. Did you use any animal traction on this [PLOT] during the [REFERENCE RAINY SEASON]?

SINGLE-SELECT ag d41 2

01 ◯ YES

02 ◯ NO

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER / HOUSEHOLD LABOUR

Roster: LAND PREPARATION AND PLANTING

ag_hhlabour_landprepplant_roster

generated by list question hh_b02

D42a. During the [REFERENCE RAINY SEASON](%ag_d0%), did %rostertitle% work on this [PLOT] for land preparation and/or planting.

SINGLE-SELECT ag_d42a

01 ◯ YES

02 ◯ NO

D42b. How many weeks did %rostertitle% work?

NUMERIC: INTEGER ag_d42b

I WEEKS
E ag_d42a==1
V1 self>0
M1 Weeks worked must be non zero. Please confirm.

D42c. During those weeks, approximately how many days did %rostertitle% work per week?

NUMERIC: INTEGER ag_d42c

I DAYS/WEEK
E ag_d42a==1

D42d. During those days, approximately how many hours did %rostertitle% work per day?

NUMERIC: INTEGER ag_d42d

I HOURS/DAY
E ag_d42a==1

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER / HOUSEHOLD LABOUR

Roster: WEEDING/FERTILIZING/OTHER ag_hhlabour_weeding_fertilizing

generated by list question hh_b02

D43a. During the [REFERENCE RAINY SEASON] (%ag_d0%), did %rostertitle% work on this [PLOT] for weeding, fertilizing and/or any other non-harvest activity?

SINGLE-SELECT ag_d43a

01 ◯ YES

02 ◯ NO

D43b. How many weeks did %rostertitle% work?

NUMERIC: INTEGER ag_d43b

I WEEK
E ag_d43a==1
V1 self>0
M1 Weeks worked must be non-zero. Please confirm.

D43c. During those weeks, approximately how many days did %rostertitle% work per week?

NUMERIC: INTEGER ag_d43c

I DAYS/WEEK
E ag_d43a==1

D43d. During those days, approximately how many hours did each household member work per day?

NUMERIC: INTEGER ag_d43d

I HOURS/DAY
E ag_d43a==1

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER / HOUSEHOLD LABOUR

Roster: HARVESTING

generated by list question hh_b02

ag_D_hhlabour_harvest

D44a. During the [REFERENCE RAINY SEASON] (%ag_d0%), did %rostertitle% work on this [PLOT] for harvesting?

SINGLE-SELECT — ag_d44a

01 ◯ YES

02 ◯ NO

D44b. How many weeks did %rostertitle% work?

NUMERIC: INTEGER — ag_d44b

I WEEK
E ag_d44a==1
V1 self>0
M1 Weeks worked must be non-zero. Please confirm.

D44c. During those weeks, approximately how many days did %rostertitle% work per week?

NUMERIC: INTEGER — ag_d44c

I DAYS/WEEK
E ag_d44a==1

D44d. During those days, approximately how many hours did each household member work per day?

NUMERIC: INTEGER — ag_d44d

I HOURS/DAY
E ag_d44a==1

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER

LABOUR

E ag_d14==1

D50. During the [REFERENCE RAINY SEASON] (%ag_d0%), did you employ any hired labor?

SINGLE-SELECT — ag_d45

01 ◯ Yes

00 ◯ No

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER / LABOUR

HIRED LABOR

E ag_d45==1

D46a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people to work on this [PLOT] for any and all types of activities?

NUMERIC: INTEGER — ag_d46a

I NOTE THAT YOU ARE EXPECTED TO CODE THE PERSON DAYS FOR ALL ACTIVITIES FOR WHICH THE HH USED HIRED LABOUR ON THE PLOT. E.G IF THE HOUSEHOLD HIRED 3 MEN FOR 6 DAYS TO DO HA RVEST ON THE PLOT, YOU WOULD And 25 other symbols [10]

D46b. What was the average daily wage paid to the people hired for any and all types of activities?

NUMERIC: INTEGER ag_d46b

I AVG. DAILY WAGE IN MK. IF LABOR WAS HIRED FOR MORE THAN O NCE FOR DIFFERENT ACTIVITIES, AID THE RESPONDENT IN COMPU TING THE AVERAGE WAGE.

E ag_d46a>0

D46c. How much crop did you give in total to all workers hired for any and all types of acitivites?

NUMERIC: DECIMAL ag d46c

I QUANTITY. IF NO CROP WAS GIVEN AS PAYMENT, RECORD ZERO

E ag_d46a>0

UNIT

SINGLE-SELECT: COMBO BOX ag d46d

E ag_d46c>0

01 ◯ KILOGRAM
02 ◯ 50 KG BAG
04 ◯ PAIL (SMALL)
05 ◯ PAIL (LARGE)
06 ◯ NO 10 PLATE
07 ◯ NO 12 PLATE
08 ◯ BUNCH
09 ◯ PIECE
12 ◯ OX-CART
13 ◯ OTHER (SPECIFY)

SPECFIY UNIT

TEXT ag_d46d_oth

E ag_d46d==13

S/U

SINGLE-SELECT ag d46e

E ag_d46c>0

01 ◯ S: SHELLED
02 ◯ U: UNSHELLED
03 ◯ NOT APPLICABLE

CROP TYPE

SINGLE-SELECT: COMBO BOX ag d46f

ag d46c>0

E

01 ◯ MAIZE

05 ◯ TOBACCO

11 ◯ GROUNDNUT

17 ◯ RICE

27 ◯ GROUND BEAN(NZAMA)

28 ◯ SWEET POTATO

29 ◯ IRISH [MALAWI] POTATO

30 ◯ WHEAT

31 ◯ FINGER MILLET(MAWERE)

32 ◯ SORGHUM

33 ◯ PEARL MILLET(MCHEWERE)

34 ◯ BEANS

35 ◯ SOYABEAN

36 ◯ PIGEONPEA(NANDOLO)

37 ◯ COTTON

38 ◯ SUNFLOWER

And 10 other [19]

Specify the type of crop.

TEXT d46f_oth

E ag_d46f.InList(10,16,26,48)

.....

D47a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people for any and all non-harvest activities, such as land preparation, planting, ridging, weeding and fertilizing, on this [PLOT]?

NUMERIC: INTEGER ag d47a

.....

I NUMBER OF DAYS. IF NONE, RECORD ZERO IN ALL COLUMNS DESIG NATED FOR "DAYS" NOTE THAT YOU ARE EXPECTED TO CODE THE PERSON DAYS FOR ALL ACTIVITIES FOR WHICH THE HH USED HIRE D LABOUR ON THE PLOT. E.G IF And 99 other symbols [11]

V1 // Uses look up tables to flag outliers // Tables der ived from IHPS data // Uses 5th and 95th percentile (new Func<bool>(() => { // find the lower and upper bo unds of the item for that unit va
And 348 other symbols [6]

M1 The number of people hired to work on the plot seems to be too ma ny. Please confirm that the number of people hired was correctly rec orded.

D47b. What was the average daily wage

NUMERIC: INTEGER ag_d47b

paid to the people hired for any and all non-harvest activities?

I AVG. DAILY WAGE IN MK. IF LABOR WAS HIRED FOR MORE THAN O NCE FOR DIFFERENT ACTIVITIES, AID THE RESPONDENT IN COMPU TING THE AVERAGE WAGE.

E ag_d47a>0

V1 // Uses look up tables to flag outliers // Tables der ived from IHPS data // Uses 5th and 95th percentile (new Func<bool>(() => { // find the lower and upper bo unds of the item for that unit va
And 293 other symbols [7]

M1 The average daily wage paid to the workers seems too high. Please c onfirm that the average daily wage was recorded correctly.

D47c. How much crop did you give in total to all workers hired for any and all non-harvest activities?

NUMERIC: INTEGER ag d47c

I QUANTITY. IF NO CROP WAS GIVEN AS PAYMENT, RECORD ZERO A ND CONTINUE TO 48.

E ag_d47a>0

UNIT

SINGLE-SELECT: COMBO BOX ag d47d

E ag_d47c>0

- 01 ◯ KILOGRAM
- 02 ◯ 50 KG BAG
- 04 ◯ PAIL (SMALL)
- 05 ◯ PAIL (LARGE)
- 06 ◯ NO 10 PLATE
- 07 ◯ NO 12 PLATE
- 08 ◯ BUNCH
- 09 ◯ PIECE
- 12 ◯ OX-CART
- 13 ◯ OTHER (SPECIFY)

SPECFIY UNIT

TEXT ag d47d oth

E ag_d47d==13

S/U

SINGLE-SELECT ag d47e

E ag_d47c>0

- 01 ◯ S: SHELLED
- 02 ◯ U: UNSHELLED
- 03 ◯ NOT APPLICABLE

CROP TYPE

SINGLE-SELECT: COMBO BOX ag_d47f

E ag_d47c>0

01 ◯ MAIZE
05 ◯ TOBACCO
11 ◯ GROUNDNUT
17 ◯ RICE
27 ◯ GROUND BEAN(NZAMA)
28 ◯ SWEET POTATO
29 ◯ IRISH [MALAWI] POTATO
30 ◯ WHEAT
31 ◯ FINGER MILLET(MAWERE)
32 ◯ SORGHUM
33 ◯ PEARL MILLET(MCHEWERE)
34 ◯ BEANS
35 ◯ SOYABEAN
36 ◯ PIGEONPEA(NANDOLO)
37 ◯ COTTON
38 ◯ SUNFLOWER

And 10 other [20]

Specify the type of crop.

E ag_d47f.InList(10,16,26,48)

TEXT ag_d47f_oth

D48a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people to work on this [PLOT] for harvesting?

I NUMBER OF DAYS. EXCLUDE HIRED LABOUR FOR LAND PREPARATIO N AND PLANTING, WEEDING, INPUT APPLICATIONS AND NON- HAR VEST ACTIVITIES. IF NONE, RECORD ZERO. NOTE THAT YOU ARE E XPECTED TO CODE THE PERSON DA And 177 other symbols [12]

V1 // Uses look up tables to flag outliers // Tables der ived from IHPS data // Uses 5th and 95th percentile (new Func<bool>(() => { // find the lower and upper bo unds of the item for that unit va
And 348 other symbols [8]

M1 The number of people hired to work on the plot seems to be too ma ny. Please confirm that the number of people hired was correctly rec orded.

NUMERIC: INTEGER ag d48a

D48b. What was the average daily wage paid to the people hired for for harvesting?

NUMERIC: INTEGER ag_d48b

I AVG. DAILY WAGE IN MK. IF LABOR WAS HIRED FOR MORE THAN O NCE FOR DIFFERENT ACTIVITIES, AID THE RESPONDENT IN COMPU TING THE AVERAGE WAGE.

E ag_d48a>0

V1 // Uses look up tables to flag outliers // Tables der ived from IHPS data // Uses 5th and 95th percentile (new Func<bool>(() => { // find the lower and upper bo unds of the item for that unit va
And 293 other symbols [9]

M1 The average daily wage paid to the workers seems too high. Please c onfirm that the average daily wage was recorded correctly.

D48c. How much crop did you give in total to all workers hired for harvesting?

NUMERIC: INTEGER ag_d48c

I QUANTITY. IF NO CROP WAS GIVEN AS PAYMENT, RECORD ZERO A ND CONTINUE TO 52.

E ag_d48a>0

UNIT

SINGLE-SELECT: COMBO BOX ag_d48d

E ag_d48c>0

- 01 ◯ KILOGRAM
- 02 ◯ 50 KG BAG
- 04 ◯ PAIL (SMALL)
- 05 ◯ PAIL (LARGE)
- 06 ◯ NO 10 PLATE
- 07 ◯ NO 12 PLATE
- 08 ◯ BUNCH
- 09 ◯ PIECE
- 12 ◯ OX-CART
- 13 ◯ OTHER (SPECIFY)

SPECFIY UNIT

TEXT ag_d48d_oth

E ag_d48d==13

S/U

SINGLE-SELECT ag_d48e

E ag_d48c>0

- 01 ◯ S: SHELLED
- 02 ◯ U: UNSHELLED
- 03 ◯ NOT APPLICABLE

CROP TYPE

SINGLE-SELECT: COMBO BOX ag_d48f

E ag_d48c>0

- 01 ◯ MAIZE
- 05 ◯ TOBACCO

11 ○ GROUNDNUT

17 ○ RICE

27 ○ GROUND BEAN(NZAMA)

28 ○ SWEET POTATO

29 ○ IRISH [MALAWI] POTATO

30 ○ WHEAT

31 ○ FINGER MILLET(MAWERE)

32 ○ SORGHUM

33 ○ PEARL MILLET(MCHEWERE)

34 ○ BEANS

35 ○ SOYABEAN

36 ○ PIGEONPEA(NANDOLO)

37 ○ COTTON

38 ○ SUNFLOWER

And 10 other [21]

Specify the type of crop.

E ag_d48f.InList(10,16,26,48)

TEXT ag 48f oth

[AG-D] PLOT DETAILS (RAINY SEASON) / GARDEN ROSTER / PLOT ROSTER / LABOUR

EXCHANGE/ FREE LABOUR

D50. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did people from other households work on this plot (%rostertitle%) for any and all activities, such as land preparation, planting, ridging, weeding and fertilizing, free of charge, as exchange labourers or to assist for nothing in return?

I NUMBER OF DAYS. IF NONE, RECORD ZERO

NUMERIC: INTEGER ag d50

D51. From whose household did the exchange/free labour come to work on this plot (%rostertitle%) for any and all non-harvest activities?

I LIST UP TO 3 FROM NETWORK ROSTER.

E ag_d50>0

MULTI-SELECT ag_d51

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

17 ☐ Other farmer in the village

D55_1. Are there any trees growing in or on the border of this plot (%rostertitle%)?

SINGLE-SELECT ag d55 1

01 ◯ YES

02 ◯ NO

D55_2. What is the main tree species growing in or on the border of this plot (%rostertitle%)?

E ag_d55_1 == 1

SINGLE-SELECT ag d55 2

01 ◯ FAIDHERBIA ALBIDA

02 ◯ GLIRICIDIA SEPIUM

03 ◯ SESEBANIA SESBAN

04 ◯ TEPHROSIA VOGELII (UBUBA)

05 ◯ MPUNDU TREE

06 ◯ JATHROPHA

07 ◯ NYAMUNDALO

08 ◯ ACACIA

09 ◯ MUSEKESE

10 ◯ LUKINA (LEUCAENA)

11 ◯ MORINGA (ZAKALANDA)

12 ◯ MASAU

13 ◯ MULUBENI

14 ◯ OTHER(SPECIFY)

D55_2Oth. Please Specify the OTHER tree species growing in or on the border of this plot (%rostertitle%)?

E ag_d55_2.InList(14)

TEXT ag d55 2oth

D56. How many trees were removed in the past year from plot (%rostertitle%)? (including border)

I IF NONE, RECORD ZERO.

NUMERIC: INTEGER ag_d56

D57. Did you cultivate this plot (%rostertitle%) during the PREVIOUS rainy season?

SINGLE-SELECT ag d57

01 ◯ YES

02 ◯ NO

D58. At the end of the 2014/15 rainy season (before planting season for the 2015/16 rainy season), did you have cover crops remaining on the plot (%rostertitle%)?

E ag_d57==1

SINGLE-SELECT ag d58

01 ◯ YES

02 ◯ NO

D59. What type of cover crop was left on plot (%rostertitle%)?

I DESCRIBE COVER CROP TO RESPONDENT BECAUSE THEY MAY NOT UNDERSTAND THE TERM "COVER CROP"

E ag_d58==1

SINGLE-SELECT: COMBO BOX ag d59

01 ◯ Mucuna (Velvet beans/Kalongonda)

02 ◯ Pigeon Pea (Nandolo)

03 ◯ Lablab (Dolichos beans/nkhungudzu)

04 ◯ Sesbania Sesbans (Jerejere)

05 ◯ Cow Peas (Khobwe/Nseula

06 ◯ Chick Pea (Tchana)

07 ◯ Peas (Nsawawa)

08 ◯ Other (Specify)

D59_oth. Specify the type of cover crop that was left on plot (%rostertitle%).

E ag_d59==8

TEXT ag d59 oth

.....

D60. What did you do with the crop residues from this plot (%rostertitle%) after the 2014/15 harvest?

E ag_d58==1

SINGLE-SELECT ag d60

01 ◯ Left in the field and then ploughed /incorporated in to the field

02 ◯ Left in the field as a cover and not ploughed in

03 ◯ Burned on field

04 ◯ Cut and removed from the field and fed to animals

05 ◯ Cut and removed from the field for Household use

06 ◯ Grazed by animals.

D61. In what month during 2015 was plot (%rostertitle%) burned?

SINGLE-SELECT: COMBO BOX ag d61

01 ◯ JANUARY

E ag_d60.InList(2,3)

02 ◯ FEBRUARY

03 ◯ MARCH

04 ◯ APRIL

05 ◯ MAY

06 ◯ JUNE

07 ◯ JULY

08 ◯ AUGUST

09 ◯ SEPTEMBER

10 ◯ OCTOBER

11 ◯ NOVEMBER

12 ◯ DECEMBER

D61_1. What percentage of the [PLOT] was covered by the residues after harvest?

I SEE PHOTO AID

SINGLE-SELECT ag_d61_1

01 ◯ 0%

02 ◯ 25%

03 ◯ 50%

04 ◯ 75%

05 ◯ More than 75%

D62. How did you prepare land for planting on plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

SINGLE-SELECT: COMBO BOX ag d62

01 ◯ Traditional Ridging

02 ◯ Tied or Box Ridging

03 ◯ Planting Pits

04 ◯ Zero Tillage

05 ◯ Ripping

06 ◯ Minimum Tillage(only part of field tilled; e.g. in zones or strips /contours)

07 ◯ Other (Specify)

D62_oth. Specify how you prepared land for planting on plot (%rostertitle%) during the [REFERENCE RAINY SEASON]

TEXT ag d62 oth

(%ag_d0%).

E ag_d62==7

D63. What implements did you use to prepare land for planting on plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

I LIST UP TO 2.

E ag_d62.InList(1,2,7)

MULTI-SELECT: ORDERED ag_d63

01 ☐ Hand Hoe

02 ☐ Animal, mouldboard plough

03 ☐ Animal, disc plough

04 ☐ Animal, ripper

05 ☐ Tractor, mouldboard plough

06 ☐ Tractor, disc plough

07 ☐ Tractor, ripper

08 ☐ Other (Specify)

D63_oth. Specify the implements you use to prepare land for planting on plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%).

E ag_d63.Contains(8)

TEXT ag d63 oth

D64. In what year did you first begin using the [PREPARATION PRACTICE] practice on plot (%rostertitle%)?

E ag_d62.InList(3,4,5,6)

SINGLE-SELECT: COMBO BOX ag d64

01 ◯ During last 12 months

02 ◯ 2 years ago

03 ◯ 3 years ago

04 ◯ 4 years ago

05 ◯ 5 years ago

06 ◯ More than 5 years ago

D69. What crop was planted in this [PLOT] following the previous rainy season?

I LIST ALL CROPS IN ORDER OF IMPORTANCE, STARTING WITH THE MOST IMPORTANT CROP. DO NOT LIST CASSAVA, TEA, COFFEE OR ANY FRUITS.

E ag_d14==1

MULTI-SELECT ag_d69

01 ☐ MAIZE

05 ☐ TOBACCO

12 ☐ GROUNDNUT

17 ☐ RICE

27 ☐ GROUND BEAN(NZAMA)

28 ☐ SWEET POTATO

29 ☐ IRISH [MALAWI] POTATO

30 ☐ WHEAT

31 ☐ FINGER MILLET(MAWERE)

32 ☐ SORGHUM

33 ☐ PEARL MILLET(MCHEWERE)

34 ☐ BEANS

35 ☐ SOYABEAN

36 ☐ PIGEONPEA(NANDOLO)

37 ☐ COTTON

38 ☐ SUNFLOWER

And 10 other []

D69_oth. Specify the crops planted.

E ag_d69.Contains(48)

TEXT ag_d69_oth

.....

D70. What crop do you plan to plant in this [PLOT] after the next rainy season?

I LIST ALL CROPS IN ORDER OF IMPORTANCE, STARTING WITH THE MOST IMPORTANT CROP. DO NOT LIST CASSAVA, TEA, COFFEE OR ANY FRUITS.

E ag_d14==1

MULTI-SELECT ag d70

01 ☐ MAIZE

05 ☐ TOBACCO

12 ☐ GROUNDNUT

17 ☐ RICE

27 ☐ GROUND BEAN(NZAMA)

28 ☐ SWEET POTATO

29 ☐ IRISH [MALAWI] POTATO

30 ☐ WHEAT

31 ☐ FINGER MILLET(MAWERE)

32 ☐ SORGHUM

33 ☐ PEARL MILLET(MCHEWERE)

34 ☐ BEANS

35 ☐ SOYABEAN

36 ☐ PIGEONPEA(NANDOLO)

37 ☐ COTTON

38 ☐ SUNFLOWER

And 10 other []

D70_oth. Specify the crops planted.

E ag_d70.Contains(48)

TEXT ag_d70_oth

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE D:

SINGLE-SELECT: LINKED ag moduleD respondent

[AG-E] COUPON USE (RAINY SEASON)

STATIC TEXT

COUPON DISTRIBUTION FOR FARM INPUTS

E00. ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag e00

01 ◯ 2014/2015

02 ◯ 2015/2016

E01. Did you or anyone in your household obtain any input coupons during the [REFERENCE RAINY SEASON], regardless of how the coupons were obtained and/or used?

SINGLE-SELECT ag e01

01 ◯ YES

02 ◯ NO

[AG-E] COUPON USE (RAINY SEASON)

Roster: HH MEMBERS THAT OBTAINED COUPONS

generated by list question hh_b02

hh_E_roster_coupons

E ag_e01 == 1

ENUMERATOR: DID %rostertitle% OBTAIN COUPONS DURING THE [REFERENCE RAINY SEASON]? WE ARE REFERING TO PAPER COUPONS THAT WERE OBTAINED BY HOUSEHOLD MEMBERS, REGARDLESS OF HOW THEY WERE OBTAINED AND/OR USED.

SINGLE-SELECT ag e0

01 ◯ YES

02 ◯ NO

COUPON TYPE:

E ag_e0 == 1

MULTI-SELECT ag_e_coupon_type

01 ☐ 23:21:0+4S / CHITOWE

04 ☐ UREA

10 ☐ MAIZE SEED

11 ☐ FLEXI SEED

[AG-E] COUPON USE (RAINY SEASON) / HH MEMBERS THAT OBTAINED COUPONS

Roster: COUPONS

generated by multi-select question ag_e_coupon_type

ag_e_coupons

NUMBER OBTAINED:

NUMERIC: INTEGER

ag e number coupon

E ag_e0 == 1

V1 self.InRange(1,5) /* Range from IHPS data */

M1 Number of coupons obtained seems to be unlikely. Please confirm tha t the number was recorded correctly.

.....

[AG-E] COUPON USE (RAINY SEASON) / HH MEMBERS THAT OBTAINED COUPONS / COUPONS

COUPON DETAILS

[AG-E] COUPON USE (RAINY SEASON) / HH MEMBERS THAT OBTAINED COUPONS / COUPONS / COUPON DETAILS

Roster: INDIVIDUAL COUPONS DETAILS

generated by numeric question ag_e_number_coupon

indivi_coupons

E02. From whom did [NAME] obtain the coupon?

I LIST FROM NETWORK ROSTER. IF ASSIGNED AT THE VILLAGE OPE N FORUM, RECORD "VILLAGE OPEN FORUM" AND NOT "VILLAGE HE ADMAN"

MULTI-SELECT

ag e02

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

06 ☐ Community police

07 ☐ Village development committee

08 ☐ Area development committee

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

E03. Did [NAME] have to pay any money to get the [COUPON]?

SINGLE-SELECT

ag e03

01 ◯ YES

02 ◯ NO

E04. How much did [NAME] pay to get the [COUPON]?

I IN MK. ESTIMATE THE VALUE OF IN-KIND PAYMENTS.

E ag_e03==1

NUMERIC: INTEGER ag_e04

.....

E05a. When did [NAME] obtain the [COUPON]?

I MONTH

SINGLE-SELECT: COMBO BOX ag_e05a

01 ◯ JANUARY

02 ◯ FEBRUARY

03 ◯ MARCH

04 ◯ APRIL

05 ◯ MAY

06 ◯ JUNE

07 ◯ JULY

08 ◯ AUGUST

09 ◯ SEPTEMBER

10 ◯ OCTOBER

11 ◯ NOVEMBER

12 ◯ DECEMBER

E05b. YEAR (4-DIGIT)

V1 /* year obtained must be within rainy season for recall years */ // if 2014/15 rainy season, must be within season hh_x02==1 ? ag_e05a.InList(11,12,1,2,3,4) && ag_e05b.InList(2014,2015) : // if 2015
And 95 other symbols [10]

M1 Please enter a valid date

NUMERIC: INTEGER ag_e05b

.....

E06. Did [NAME] redeem [COUPON] for inputs?

SINGLE-SELECT ag_e06

01 ◯ YES

02 ◯ NO

E07. What type of input did [NAME] purchase with [COUPON]?

E ag_e06==1

SINGLE-SELECT: COMBO BOX ag_e07

01 ◯ 23:21:0+4S/CHITOWE

04 ◯ UREA

06 ◯ OTHER FERTILIZER (SPECIFY)

12 ◯ OPV MAIZE SEED

15 ◯ HYBRID MAIZE

16 ◯ BEAN SEED

17 ◯ GROUNDNUT SEED

18 ◯ SOYABEAN SEED

19 ◯ PIGEON PEAS SEED

E08a. What was the quantity of input purchased with [COUPON]?

NUMERIC: INTEGER ag_e08a

I QUANTITY. RECORD THE TOTAL AMOUNT OF INPUT OBTAINED AT THE TIME OF REDEEMING THE COUPON, PRIOR TO ANY SHARING OR EXCHANGE ARRANGEMENTS.

E ag_e06==1

E08b. UNIT

SINGLE-SELECT: COMBO BOX ag_e08b

E ag_e06==1

V1 /* if coupon type is CHITOWE or UREA, quantity must equal 50 */ // grams ag_e07.InList(1,4) && ag_e08b==1 ? (ag_e08a/1000)==50 : // 2 kg bag ag_e07.InList(1,4) && ag_e08b==3 ? (ag_e08a*2)==50
And 298 other symbols [11]

M1 Quantity of chitowe / urea is inconsistent with the coupon type. Please confirm.

V2 /* if coupon type is maize seeds, quantity must be between 5 and 10 kg */ // grams ag_e07.InList(12,15) && ag_e08b==1 ? (ag_e08a/1000).InRange(5,10) : // 2 kg bag ag_e07.InList(12,15) && ag_e0
And 378 other symbols [11]

M2 Quantity of maize seed is inconsistent with coupon type. Please confirm.

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

13 ◯ OTHER (SPECIFY)

E08b_oth. SPECIFY UNIT

NUMERIC: INTEGER ag_e08b_oth

E ag_e08b==13

E08_1a. When did [NAME] redeem the [COUPON]?

SINGLE-SELECT: COMBO BOX ag_e08_1a

I MONTH

E ag_e06==1

01 ◯ JANUARY

02 ◯ FEBRUARY

03 ◯ MARCH

04 ◯ APRIL

05 ◯ MAY

06 ◯ JUNE

07 ◯ JULY

08 ◯ AUGUST

09 ◯ SEPTEMBER

10 ◯ OCTOBER

11 ◯ NOVEMBER

12 ◯ DECEMBER

E08_1b. YEAR (4-DIGIT)

NUMERIC: INTEGER ag_e08_1b

E ag_e06==1

V1 /* coupon can only be used after it has been obtained */ (new DateTime((int) ag_e08_1b, (int) ag_e08_1a,1)) >= (new DateTime((int) ag_e05b, (int) ag_e05a,1)) && /* coupon can only be used within the
And 279 other symbols [12]

M1 A coupon can only be redeemed after it is obtained. Please check the date obtained (E05) and the date redeemed (E08_1)

E08_2a. How long did [NAME] have to wait at ADMARC or OTHER INPUT SUPPLIER to redeem the [COUPON]?

NUMERIC: INTEGER ag_e08_2a

I NUMBER

E ag_e06==1

E08_2b. TIME UNIT

SINGLE-SELECT ag_e08_2b

E ag_e06==1

01 ◯ HOURS

02 ◯ DAY

E09. Was any of the input purchased with [COUPON] exchanged with a fellow farmer for another input?

SINGLE-SELECT ag_e09

E ag_e06==1

01 ◯ YES

02 ◯ NO

E10a. How much of the input purchased with [COUPON] was exchanged for another? In return, how much and what type of input was received?

NUMERIC: INTEGER ag_e10a

I INPUT GIVEN. QUANTITY

E ag_e09==1

E10b. INPUT GIVENUNIT

SINGLE-SELECT: COMBO BOX ag_e10b

E ag_e09==1

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

	04 ◯ 3 KG BAG 05 ◯ 5 KG BAG 06 ◯ 10 KG BAG 07 ◯ 50 KG BAG 13 ◯ OTHER (SPECIFY)
E10b_oth. SPECIFY UNIT E ag_e10b==13	TEXT ag e10b oth .....
E10c. INPUT RECEIVEDTYPE E ag_e09==1	SINGLE-SELECT: COMBO BOX ag_e10c 01 ◯ 23:21:0+4S/CHITOWE 04 ◯ UREA 06 ◯ OTHER FERTILIZER (SPECIFY) 12 ◯ OPV MAIZE SEED 15 ◯ HYBRID MAIZE 16 ◯ BEAN SEED 17 ◯ GROUNDNUT SEED 18 ◯ SOYABEAN SEED 19 ◯ PIGEON PEAS SEED 20 ◯ OTHER (SPECIFY)
E10c_oth. SPECIFY TYPE OF INPUT RECEIVED E ag_e10c==20	TEXT ag e10c oth .....
E10d. INPUT RECEIVED QUANTITY E ag_e09==1	NUMERIC: INTEGER ag e10d .....
E10e. INPUT RECEIVEDUNIT E ag_e09==1	SINGLE-SELECT: COMBO BOX ag e10e 01 ◯ GRAM 02 ◯ KILOGRAM 03 ◯ 2 KG BAG 04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

13 ◯ OTHER (SPECIFY)

E10e_oth. SPECIFY UNIT

E ag_e10e==13

TEXT ag_e10e_oth

.....

E11. Was any of the input purchased with [COUPON] shared with a fellow farmer for nothing in return?

E ag_e06==1

SINGLE-SELECT ag_e11

01 ◯ YES

02 ◯ NO

E11_1. Who proposed the sharing arrangement?

E ag_e11==1

SINGLE-SELECT: COMBO BOX ag_e11_1

01 ◯ Village Headman

02 ◯ VDC Member

03 ◯ Household Member Himself/Herself

04 ◯ Fellow Farmer

05 ◯ Other (Specify)

E11_1_oth. Specify who proposed the sharing arrangement.

E ag_e11_1==5

TEXT ag_e11_1_oth

.....

E12a. How much of the input purchased with [COUPON] was shared with a fellow farmer for nothing in return?

I INPUT SHARED. QUANTITY

E ag_e11==1

NUMERIC: INTEGER ag_e12a

.....

E12b. INPUT SHAREDUNIT

E ag_e11==1

SINGLE-SELECT: COMBO BOX ag_e12b

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

13 ◯ OTHER (SPECIFY)

E12b_oth. SPECIFY UNIT

E ag_e12b==13

TEXT ag_e12b_oth

E13. What was the main mode of transportation used to bring back the input that [NAME] purchased with the [COUPON]?

I READ RESPONSES

E ag_e06==1

SINGLE-SELECT ag_e13

01 ◯ On Foot

02 ◯ Bicycle Taxi

03 ◯ Own Bicycle or Oxcart

04 ◯ Truck / Bus/ Minibus

05 ◯ Other (Specify)

E13_oth. Specify the main mode of transportation used

E ag_e13==5

TEXT ag_e13_oth

E13_1. Was any other coupon redeemed during the same trip as referred to in the previous question?

E ag_e06==1

SINGLE-SELECT ag_e13_1

01 ◯ YES

02 ◯ NO

E13_2. Which [COUPONS] were redeemed?

I LIST UP TO 4 ADDITIONAL COUPON ID CODES

E ag_e13_1==1

TEXT ag_e13_2

E14. How much did [NAME] pay for transportation to acquire the input that [NAME] purchased with the [COUPON]?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE HOUSEHOLD.

E ag_e06==1

NUMERIC: INTEGER ag_e14

E15. How much was paid while redeeming the [COUPON] for inputs? [i.e. the cost shouldered by the [MEMBER]

I IN MK. EXCLUDE TRANSPORTATION COSTS, BRIBES, OTHER SIDE PAYMENTS. ESTIMATE THE VALUE OF IN-KIND PAYMENTS.

E ag_e06==1

NUMERIC: INTEGER ag_e15

E15_1. How much did [MEMBER] pay in bribes or other side payments while redeeming [COUPON]?

I IN MK. EXCLUDE TRANSPORTATION COSTS AND THE OFFICIAL COS

NUMERIC: INTEGER ag_e15_1

T OF REDEEMING THE COUPON REPORTED IN QUESTION 15. ESTIM ATE THE VALUE OF IN-KIND PAYMENTS.

E ag_e06==1

E16. From whom or which firm/ institution did [NAME] purchase the inputs by redeeming the [COUPON]?

I LIST FROM NETWORK ROSTER

E ag_e06==1

MULTI-SELECT ag_e16

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

05 ☐ Traditional Authority

10 ☐ ADMARC depot

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

E18. Did [NAME] sell the [COUPON] that [NAME] obtained during the [REFERENCE RAINY SEASON]?

SINGLE-SELECT ag e18

01 ◯ YES

02 ◯ NO

E20. How much did [NAME] receive from the sale of the [COUPON]?

I IN MK. ESTIMATE THE VALUE OF IN-KIND PAYMENTS.

E ag_e18==1

NUMERIC: INTEGER ag e20

.....

E21. To whom did [NAME] sell the [COUPON]?

I LIST FROM NETWORK ROSTER

E ag_e18==1

MULTI-SELECT ag e21

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

06 ☐ Community police

07 ☐ Village development committee

08 ☐ Area development committee

10 ☐ ADMARC depot

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

E22. Did [NAME] give away [COUPON] to non- household members (family / friends) for free?

E ag_e18==2

SINGLE-SELECT ag_e22

01 ◯ YES

02 ◯ NO

E24. Was the [COUPON] lost or stolen?

E ag_e22==2

SINGLE-SELECT ag_e24

01 ◯ YES

02 ◯ NO

E26. Why did [NAME] not redeem the [COUPON]?

I READ RESPONSES. LIST UP TO 2.

E ag_e24==2

MULTI-SELECT: ORDERED ag_e26

01 ☐ Did not have enough money to buy inputs

02 ☐ Input supplier was too far / inaccessible

03 ☐ Accessible input supplier did not have the input

04 ☐ Coupon was obtained too late

05 ☐ Preferred cash / other items

06 ☐ Gave away, sold or lost coupon

07 ☐ Other

E26_oth. Specify why [NAME] did not redeem the [COUPON].

I READ RESPONSES. LIST UP TO 2.

E ag_e26.Contains(7)

TEXT ag_e26_oth

.....

[AG-E] COUPON USE (RAINY SEASON)

COUPON USE (PART 2)

E27. Did your household obtain any FERTILIZER or MAIZE SEED coupons in the following previous rainy seasons?

MULTI-SELECT: YES/NO ag_e27

01 ☐/☐ Fertilizer Coupons 2011/2012

02 ☐/☐ Fertilizer Coupons 2012/2013

03 ☐/☐ Fertilizer Coupons 2013/2014

	04 ☐/☐ Fertilizer Coupons 2014/2015 05 ☐/☐ Maize Seed Coupons 2011/2012 06 ☐/☐ Maize Seed Coupons 2012/2013 07 ☐/☐ Maize Seed Coupons 2013/2014 08 ☐/☐ Maize Seed Coupons 2014/2015
E28. Did any members of this village obtain any fertilizer, maize or flexi seed input coupons during the [REFERENCE RAINY SEASON]?	SINGLE-SELECT ag_e28 01 ◯ YES 02 ◯ NO

[AG-E] COUPON USE (RAINY SEASON) / COUPON USE (PART 2)

DISTRIBUTION OF VOUCHERS

E ag_e28==1

E29a. Were Open Forum Distribution used in the distribution of Fertilizer coupons in the [REFERENCE RAINY SEASON]?	SINGLE-SELECT ag_e29a 01 ◯ YES 02 ◯ NO
E29c. Were Redistribution Following Open Forum Distribution used in the final distribution of benefits from Fertilizer coupons in the [REFERENCE RAINY SEASON]?	SINGLE-SELECT ag_e29c 01 ◯ YES 02 ◯ NO
E29e. Were Open Forum Distribution used in the distribution of Maize seed coupons in the [REFERENCE RAINY SEASON]?	SINGLE-SELECT ag_e29e 01 ◯ YES 02 ◯ NO
E29g. Were Redistribution Following Open Forum used in the final distribution of Maize seed coupons in the [REFERENCE RAINY SEASON]?	SINGLE-SELECT ag e29g 01 ◯ YES 02 ◯ NO
E29j. Were Open Forum Distribution used in the distribution of Flexi seed coupons in the [REFERENCE RAINY SEASON]?	SINGLE-SELECT ag e29j 01 ◯ YES

02 ◯ NO

E29k. Were Redistribution Following Open Forum used in the final distribution of Flexi seed coupons in the [REFERENCE RAINY SEASON]?

SINGLE-SELECT ag_e29k

01 ◯ YES

02 ◯ NO

[AG-E] COUPON USE (RAINY SEASON) / COUPON USE (PART 2)

PEOPLE INVOLVED IN ALLOCATING & DISTRIBUTING VOUCHERS

E ag_e28==1

[AG-E] COUPON USE (RAINY SEASON) / COUPON USE (PART 2) / PEOPLE INVOLVED IN ALLOCATING & DISTRIBUTING VOUCHERS

Roster: E30. PEOPLE INVOLVED ag_e30_roster

generated by fixed list

00 Agricultural Extension Staff

01 VDC Members

02 Village Headman

03 Traditional Authority

04 Local Political Leaders

05 Other (Specify)

E30a. Were %rostertitle% involved and how important were they in allocating & distributing vouchers?

I Open Forum Allocation

SINGLE-SELECT ag_e30a

01 ◯ Involved, Important

02 ◯ Involved, Not Important

03 ◯ Not Involved

04 ◯ Method Not Applicable

E30b. Were %rostertitle% involved and how important were they in allocating & distributing vouchers?

I Open Forum Distribution

SINGLE-SELECT ag_e30b

01 ◯ Involved, Important

02 ◯ Involved, Not Important

03 ◯ Not Involved

04 ◯ Method Not Applicable

E30c. Were %rostertitle% involved and how important were they in allocating & distributing vouchers?

I Redistribution Following Open Forum

SINGLE-SELECT ag_e30c

01 ◯ Involved, Important

02 ◯ Involved, Not Important

03 ◯ Not Involved

	04 ◯ Method Not Applicable
E30d. Were %rostertitle% involved and how important were they in allocating & distributing vouchers? I Later Supplementary Allocations	SINGLE-SELECT ag e30d 01 ◯ Involved, Important 02 ◯ Involved, Not Important 03 ◯ Not Involved 04 ◯ Method Not Applicable
ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE E:	SINGLE-SELECT: LINKED ag moduleE respondent

[AG-F] OTHER INPUTS (RAINY SEASON)

F-0. ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?	SINGLE-SELECT ag f00 01 ◯ 2014/2015 02 ◯ 2015/2016
A. Did you or anyone in your household cultivate any plots during the reference rainy season (%ag_f00%)?	SINGLE-SELECT ag f a 01 ◯ YES 02 ◯ NO

[AG-F] OTHER INPUTS (RAINY SEASON)

ORGANIC FERTILIZER

E `ag_f_a==1 && (ag_moduleD_garden_roster.SelectMany(x=>x.ag_moduleD_plot_roster).Any(y=>y.ag_d36==1 && y.ag_d36.HasValue))`

F01a. ENUMERATOR: FOR ORGANIC FERTILIZER (MANURE), ENTER THE TOTAL QUANTITY, AS REPORTED IN MODULE D QUESTION 37.QUANTITY	NUMERIC: INTEGER ag_f01a .....
F01b. UNIT E `ag_f01a>0`	SINGLE-SELECT: COMBO BOX ag f01b 01 ◯ GRAM 02 ◯ KILOGRAM 08 ◯ LITER 09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F01b_oth. SPECIFY UNIT

E ag_f01b==13

TEXT ag_f01b_oth

.....

F02. ENUMERATOR:ASK THE FARMER WHETHER THE FIGURES FROM QUESTION 1 CORRESPOND TO THE AMOUNT OF EACH TYPE OF INPUT USED DURING THE REFERENCE RAINY SEASON (%ag_f00%).

SINGLE-SELECT ag_f02

01 ◯ YES, THE FIGURES MATCHED

02 ◯ NO, THE ENTRIES IN MODULE D, AND QUESTION 1 OF MODULE F WERE ADJUSTED

F03. During the [REFERENCE RAINY SEASON] (%ag_f00%), did all of this input (ORGANIC FERTILIZER) come from purchases by using coupons / vouchers?

SINGLE-SELECT ag_f03

01 ◯ YES

02 ◯ NO

F04. During the [REFERENCE RAINY SEASON] (%ag_f00%), did you purchase any input (ORGANIC FERTILIZER) without coupons/ vouchers or purchase any input (ORGANIC FERTILIZER) on credit?

E ag_f03==2

SINGLE-SELECT ag_f04

01 ◯ YES

02 ◯ NO

[AG-F] OTHER INPUTS (RAINY SEASON) / ORGANIC FERTILIZER

COMMERCIAL [INPUT] PURCHASES

E ag_f04==1

F06. Who/Which firms/institutions were the sources of the input (ORGANIC FERTILIZER) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I LIST UP TO 2 FROM NETWORK ROSTER

MULTI-SELECT ag_f06

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

F07a. How much of the input (ORGANIC FERTILIZER) was purchased without coupons / vouchers or purchased on credit during the reference rainy season (%ag_f00%)?

I RECORD TOTAL QUANTITY, REGARDLESS OF SOURCE

NUMERIC: INTEGER ag_f07a

F07b. UNIT

E ag_f07a>0

SINGLE-SELECT: COMBO BOX ag_f07b

01 ◯ GRAM
02 ◯ KILOGRAM
03 ◯ 2 KG BAG
04 ◯ 3 KG BAG
05 ◯ 5 KG BAG
06 ◯ 10 KG BAG
07 ◯ 50 KG BAG
08 ◯ LITER
09 ◯ MILLILITER
10 ◯ BUCKET
11 ◯ WHEELBARROW
12 ◯ OX CART
13 ◯ OTHER (SPECIFY)

F07b_oth. SPECIFY UNIT

E ag_f07b==13

TEXT ag_f07b_oth

F08. What was the main mode of transportation used to bring back all of the input that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I READ RESPONSES

SINGLE-SELECT ag_f08

01 ◯ On Foot
02 ◯ Bicycle Taxi
03 ◯ Own Bicycle or Oxcart
04 ◯ Truck / Bus/ Minibus
05 ◯ Other (Specify)

F08_oth. Specify the main mode of transportation used to bring back the input.

TEXT f08_oth

E ag_f08==5

F09. How much did you pay for transportation to acquire all of the input (ORGANIC FERTILIZER) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.

NUMERIC: INTEGER ag_f09

F10. What was the value of all of the input (ORGANIC FERTILIZER) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK.

NUMERIC: INTEGER ag_f10

F11. How did you finance this input (ORGANIC FERTILIZER) purchase?

I READ RESPONSES

SINGLE-SELECT ag_f11

01 ◯ Paid in full, with own-savings

02 ◯ Received on credit

03 ◯ Part own-savings, part on credit

F12. How much did you pay up-front for this input (ORGANIC FERTILIZER) purchase?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN-KIND PAYMENTS. IF NOTHING, RECORD ZERO.

E ag_f11.InList(2,3)

NUMERIC: INTEGER ag_f12

F13. How much did you repay/will you repay?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN-KIND PAYMENTS.

E ag_f11.InList(2,3)

NUMERIC: INTEGER ag_f13

F14. What was the source of credit for the input (ORGANIC FERTILIZER) purchase?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_f11.InList(2,3)

MULTI-SELECT ag_f14

09 ☐ Village saving and lending assoc.

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

15 ☐ Microfinance institution

16 ☐ Private bank

FREE [INPUT]

E ag_f03==2

F37. Did you receive any of the input (ORGANIC FERTILIZER) for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I EXCLUDE ORGANIC FERTILIZER OUT OF OWN-PRODUCTION OR ANY INPUT LEFT OVER FROM PREVIOUS SEASON.

SINGLE-SELECT ag_f37

01 ◯ YES

02 ◯ NO

F38a. How much of the input (ORGANIC FERTILIZER) did you receive in total for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I QUANTITY

E ag_f37==1

NUMERIC: INTEGER ag_f38a

.....

F38b. UNIT

E ag_f38a>0

SINGLE-SELECT: COMBO BOX ag_f38b

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F38b_oth. SPECIFY UNIT

E ag_f38b==13

TEXT ag_f38b_oth

.....

F39. During the [REFERENCE RAINY SEASON] (%ag_f00%), from whom did you receive most of the input (ORGANIC

MULTI-SELECT ag_f39

03 ☐ Lead farmer

FERTILIZER) for free?

I LIST UP TO 2 FROM NETWORK ROSTER
E ag_f37==1

12 ☐ Neighbour
13 ☐ Relative
14 ☐ Clan leader

F40. How much did you pay for transportation in total to acquire all of the input (ORGANIC FERTILIZER) that you received for free during the [REFERENCE RAINY SEASON] (%ag_f00%) ?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.
E ag_f37==1

NUMERIC: INTEGER ag_f40

.....

[AG-F] OTHER INPUTS (RAINY SEASON) / ORGANIC FERTILIZER
LEFT-OVER [INPUT]

E ag_f03==2

F41. Was any of the input (ORGANIC FERTILIZER) that you used during the [REFERENCE RAINY SEASON] (%ag_f00%) left over from a previous season?

SINGLE-SELECT ag f41

01 ◯ YES
02 ◯ NO

F42a. How much of the input (ORGANIC FERTILIZER) that you used during the [REFERENCE RAINY SEASON] (%ag_f00%) was left over from a previous season?

I QUANTITY
E ag_f41==1

NUMERIC: INTEGER ag f42a

.....

F42b. UNIT

E ag_f42a>0

SINGLE-SELECT: COMBO BOX ag f42b

01 ◯ GRAM
02 ◯ KILOGRAM
03 ◯ 2 KG BAG
04 ◯ 3 KG BAG
05 ◯ 5 KG BAG
06 ◯ 10 KG BAG
07 ◯ 50 KG BAG
08 ◯ LITER
09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F42b_oth. SPECIFY UNIT

E ag_f42b==13

TEXT ag_f42b_oth

.....

[AG-F] OTHER INPUTS (RAINY SEASON) / ORGANIC FERTILIZER

OWN-PRODUCED ORGANIC FERTILIZER

E ag_f03==2

F43. Did you use any ORGANIC FERTILIZER out of own-production or own animals during the [REFERENCE RAINY SEASON] (%ag_f00%)?

SINGLE-SELECT ag_f43

01 ◯ YES

02 ◯ NO

F44a.How much of the ORGANIC FERTILIZER was used out of own-production or own animals during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I QUANTITY

E ag_f43==1

NUMERIC: INTEGER ag_f44a

.....

F44b. UNIT

E ag_f44a>0

SINGLE-SELECT: COMBO BOX ag_f44b

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F44b_oth. SPECIFY UNIT

TEXT ag f44b oth

E ag_f44b==13

SELECT THE TYPES OF INORGANIC FERTILIZER USED ON THE PLOTS. IF THE FARMER HAS MIXED TWO OR MORE FERTILIZERS IN ANY OF THE APPLICATIONS, YOU MUST SELECT ALL TYPES OF FERTILIZERS USED.

MULTI-SELECT ag f0 inorganic

01 ☐ 23:21:0+4S/CHITOWE

02 ☐ DAP

03 ☐ CAN

04 ☐ UREA

05 ☐ D COMPOUND

06 ☐ 20:20:0

07 ☐ Super D

08 ☐ OTHER

E ag_f_a==1 && (ag_moduleD_garden_roster.SelectMany(x=> x.ag_moduleD_plot_roster).Any(y=>y.ag_d38==1 && y.ag_d38.HasValue))

V1 new Func<bool>(() => { var plots = ag_moduleD_garden_roster.SelectMany(x => x.ag_moduleD_plot_roster); decimal[] bothApplications = plots.Select(x => x.ag_d39a).Union(plots.Select(x => x.ag_d39
And 127 other symbols [13]

M1 All types of inorganic fertilizer used on plots must be selected.

SELECT THE TYPES OF PESTICIDES/HERBICIDES USED ON THE PLOTS.

MULTI-SELECT ag f0 pesticides

07 ☐ INSECTICIDE

08 ☐ HERBICIDE

09 ☐ FUNGICIDE

10 ☐ FUMIGANT

11 ☐ OTHER PESTICIDE/ HERBICIDE(SPECIFY)

E ag_f_a==1 && (ag_moduleD_garden_roster.SelectMany(x=> x.ag_moduleD_plot_roster).Any(y=>y.ag_d40==1 && y.ag_d40.HasValue))

V1 new Func<bool>(() => { var plots = ag_moduleD_garden_roster.SelectMany(x => x.ag_moduleD_plot_roster); decimal[] bothApplications = plots.Select(x => x.ag_d41a).Union(plots.Select(x => x.ag_d41
And 127 other symbols [14]

M1 All types of pesticides/herbicides used on plots must be selected.

[AG-F] OTHER INPUTS (RAINY SEASON)

INORGANIC FERTILIZER

[AG-F] OTHER INPUTS (RAINY SEASON) / INORGANIC FERTILIZER

Roster: INORGANIC FERTILIZER

generated by multi-select question ag_f0_inorganic

ag_f_inorganic_fertilizer_roster

SPECIFY THE OTHER TYPE OF INORGANIC FERTILIZER

TEXT ag f inorganic fertilizer oth

E @rowcode==8

F01a. ENTER THE TOTAL KGs USED FOR EACH TYPE OF INORGANIC FERTILIZER,

NUMERIC: INTEGER ag_f01a_1

AND CHECK THAT THE TOTAL KGs REPORTED HERE IN THIS QUESTION FOR ALL FERTILIZERS MATCHES THE TOTAL KGs REPORTED IN MODULE D QUESTION 39 OVER BOTH APPLICATIONS AND ALL PLOTS.

I QUANTITY

F01b. UNIT

E ag_f01a_1>0

SINGLE-SELECT: COMBO BOX ag f01b 1

01 ◯ GRAM

02 ◯ KILOGRAM

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F01b_oth. SPECIFY UNIT

E ag_f01b_1==13

TEXT ag f01b oth 1

F01c. SPECIFY PRICE PAID PER UNIT

E ag_f01a_1>0

NUMERIC: INTEGER ag f01c

F02. ENUMERATOR:ASK THE FARMER WHETHER THE FIGURES FROM QUESTION 1 CORRESPOND TO THE AMOUNT OF EACH TYPE OF INPUT USED DURING THE REFERENCE RAINY SEASON (%ag_f00%).

SINGLE-SELECT ag_f02_1

01 ◯ YES, THE FIGURES MATCHED

02 ◯ NO, THE ENTRIES IN MODULE D, AND QUESTION 1 OF MODULE F WERE ADJUSTED

F03. During the [REFERENCE RAINY SEASON] (%ag_f00%), did all of this input (%rostertitle%) come from purchases by using coupons / vouchers?

SINGLE-SELECT ag f03 1

01 ◯ YES

02 ◯ NO

F04. During the [REFERENCE RAINY SEASON] (%ag_f00%), did you purchase any input (%rostertitle%) without coupons/ vouchers or purchase any input (%rostertitle%) on credit?

SINGLE-SELECT ag f04 1

01 ◯ YES

02 ◯ NO

E ag_f03_1==2

F05a. During the [REFERENCE RAINY SEASON] (%ag_f00%), were you offered to purchase any input (%rostertitle%) without coupons/ vouchers for cash at a cheap price below commercial price?

SINGLE-SELECT ag f05a 1

01 ◯ Yes

00 ◯ No

F05b. During the [REFERENCE RAINY SEASON] (%ag_f00%), if you were offered to purchase any input (%rostertitle%) without coupons/ vouchers for cash at a cheap price below commercial price, did you buy any?

E ag_f05a_1==1

SINGLE-SELECT ag f05b 1

01 ◯ Yes

02 ◯ No

F05c. During the [REFERENCE RAINY SEASON] (%ag_f00%), if you purchased any input (%rostertitle%) without coupons/ vouchers for cash at a cheap price below commercial price, how much did you buy? SPECIFY QUANTITY IN KG

E ag_f05b_1==1

NUMERIC: INTEGER ag f05c 1

.....

F05d. If you were offered or bought any such cheap fertilizer, what was the price you were offered or paid? PRICE PER 50 KG BAG OF FERTILIZER EQUIVALENT

E ag_f05a_1==1

NUMERIC: INTEGER ag_f05d_1

.....

[AG-F] OTHER INPUTS (RAINY SEASON) / INORGANIC FERTILIZER / INORGANIC FERTILIZER

COMMERCIAL [INPUT] PURCHASES

E ag_f04_1==2

F06. Who/Which firms/institutions were the sources of the input (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I LIST UP TO 2 FROM NETWORK ROSTER

MULTI-SELECT ag f06 1

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

04 ☐ Group village headman/chief

10 ☐ ADMARC depot

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

16 ☐ Private bank

17 ☐ Veterinary extension officer

F07a. How much of the input (%rostertitle%) was purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I RECORD TOTAL QUANTITY, REGARDLESS OF SOURCE

NUMERIC: INTEGER ag_f07a_1

.....

F07b. UNIT

E ag_f07a_1>0

SINGLE-SELECT: COMBO BOX ag_f07b_1

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F07b_oth. SPECIFY UNIT

E ag_f07b_1==13

TEXT ag_f07b_oth_1

.....

F08. What was the main mode of transportation used to bring back all of the input that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

SINGLE-SELECT ag_f08_1

01 ◯ On Foot

02 ◯ Bicycle Taxi

03 ◯ Own Bicycle or Oxcart

I READ RESPONSES

04 ◯ Truck / Bus/ Minibus

05 ◯ Other (Specify)

F08_oth. Specify the main mode of transportation used to bring back all of the input.

E ag_f08_1==5

TEXT ag f08 oth 1

F09. How much did you pay for transportation to acquire all of the input (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.

NUMERIC: INTEGER ag_f09_1

F10. What was the value of all of the input (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK

NUMERIC: INTEGER ag f10 1

F11. How did you finance this input (%rostertitle%) purchase?

I READ RESPONSES

SINGLE-SELECT ag f11 1

01 ◯ Paid in full, with own-savings

02 ◯ Received on credit

03 ◯ Part own-savings, part on credit

F12. How much did you pay up-front for this input (%rostertitle%) purchase?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN-KIND PAYMENTS. IF NOTHING, RECORD ZERO.

E ag_f11_1.InList(2,3)

NUMERIC: INTEGER ag f12 1

F13. How much did you repay/will you repay?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN-KIND PAYMENTS.

E ag_f11_1.InList(2,3)

NUMERIC: INTEGER ag f13 1

F14. What was the source of credit for the input (%rostertitle%) purchase?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_f11_1.InList(2,3)

MULTI-SELECT ag f14 1

09 ☐ Village saving and lending assoc.

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

15 ☐ Microfinance institution

16 ☐ Private bank

[AG-F] OTHER INPUTS (RAINY SEASON) / INORGANIC FERTILIZER / INORGANIC FERTILIZER

FREE [INPUT]

E ag_f03_1==2

F37. Did you receive any of the input (%rostertitle%) for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I EXCLUDE ORGANIC FERTILIZER OUT OF OWN-PRODUCTION OR ANY [INPUT] LEFT OVER FROM PREVIOUS SEASON.

SINGLE-SELECT ag_f37_1

01 ○ YES

02 ○ NO

F38a. How much of the input (%rostertitle%) did you receive in total for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I QUANTITY

E ag_f37_1==1

NUMERIC: INTEGER ag_f38a_1

F38b. UNIT

E ag_f38a_1>0

SINGLE-SELECT: COMBO BOX ag_f38b_1

01 ○ GRAM

02 ○ KILOGRAM

03 ○ 2 KG BAG

04 ○ 3 KG BAG

05 ○ 5 KG BAG

06 ○ 10 KG BAG

07 ○ 50 KG BAG

08 ○ LITER

09 ○ MILLILITER

10 ○ BUCKET

11 ○ WHEELBARROW

12 ○ OX CART

13 ○ OTHER (SPECIFY)

TEXT ag_f38b_oth_1

F38b_oth. SPECIFY UNIT

E ag_f38b_1==13

.....

F39. During the [REFERENCE RAINY SEASON] (%ag_f00%), from whom did you receive most of the input (%rostertitle%) for free?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_f37_1==1

MULTI-SELECT ag_f39_1

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

04 ☐ Group village headman/chief

10 ☐ ADMARC depot

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

F40. How much did you pay for transportation in total to acquire all of the input (%rostertitle%) that you received for free during the [REFERENCE RAINY SEASON] (%ag_f00%) ?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.

E ag_f37_1==1

NUMERIC: INTEGER ag_f40_1

.....

[AG-F] OTHER INPUTS (RAINY SEASON) / INORGANIC FERTILIZER / INORGANIC FERTILIZER

LEFT-OVER [INPUT]

E ag_f03_1==2

F41. Was any of the input (%rostertitle%) that you used during the [REFERENCE RAINY SEASON] (%ag_f00%) left over from a previous season?

SINGLE-SELECT ag_f41_1

01 ◯ YES

02 ◯ NO

F42a. How much of the input (%rostertitle%) that you used during the [REFERENCE RAINY SEASON] (%ag_f00%) was left over from a previous season?

I QUANTITY

E ag_f41_1==1

NUMERIC: INTEGER ag_f42a_1

.....

F42b. UNIT

E ag_f42a_1>0

SINGLE-SELECT: COMBO BOX ag_f42b_1

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F42b_oth. SPECIFY UNIT

E ag_f42b_1==13

TEXT ag_f42b_oth_1

.....

[AG-F] OTHER INPUTS (RAINY SEASON)

PESTICIDES/HERBICIDES

[AG-F] OTHER INPUTS (RAINY SEASON) / PESTICIDES/HERBICIDES

Roster: PESTICIDES/HERBICIDES ag_f_pesticides_roster

generated by multi-select question ag_f0_pesticides

SPECIFY THE OTHER TYPE OF PESTICIDES/HERBICIDES

E @rowcode==11

TEXT ag f pesticides oth

.....

F01a. ENTER THE TOTAL AMOUNT USED FOR EACH TYPE OF PESTICIDES/HERBICIDES OVER ALL PLOTS, AS REPORTED IN MODULE D QUESTION 41.

I QUANTITY

NUMERIC: INTEGER ag f01a 2

.....

F01b. UNIT

E ag_f01a_2>0

SINGLE-SELECT: COMBO BOX ag_f01b_2

01 ◯ GRAM

02 ◯ KILOGRAM

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F01b_oth. SPECIFY UNIT

TEXT ag f01b oth 2

E ag_f01b_2==13

F02. ENUMERATOR:ASK THE FARMER WHETHER THE FIGURES FROM QUESTION 1 CORRESPOND TO THE AMOUNT OF EACH TYPE OF INPUT USED DURING THE REFERENCE RAINY SEASON(%ag_f00%).

SINGLE-SELECT ag_f02_2

01 ◯ YES, THE FIGURES MATCHED

02 ◯ NO, THE ENTRIES IN MODULE D, AND QUESTION 1 OF MODULE F WERE ADJUSTED

F03. During the [REFERENCE RAINY SEASON] (%ag_f00%), did all of this input (%rostertitle%) come from purchases by using coupons / vouchers?

SINGLE-SELECT ag f03 2

01 ◯ YES

02 ◯ NO

F04. During the [REFERENCE RAINY SEASON] (%ag_f00%), did you purchase any input (%rostertitle%) without coupons/ vouchers or purchase any input (%rostertitle%) on credit?

SINGLE-SELECT ag f04 2

01 ◯ YES

02 ◯ NO

E ag_f03_2==2

[AG-F] OTHER INPUTS (RAINY SEASON) / PESTICIDES/HERBICIDES / PESTICIDES/HERBICIDES

COMMERCIAL [INPUT] PURCHASES

E ag_f04_2==2

F06. Who/Which firms/institutions were the sources of the input (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I LIST UP TO 3 FROM NETWORK ROSTER

MULTI-SELECT ag f06 2

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

04 ☐ Group village headman/chief

05 ☐ Traditional Authority

10 ☐ ADMARC depot

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

F07a. How much of the input (%rostertitle%) was purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I RECORD TOTAL QUANTITY, REGARDLESS OF SOURCE

NUMERIC: INTEGER ag_f07a_2

.....

F07b. UNIT

E ag_f07a_2>0

SINGLE-SELECT: COMBO BOX ag_f07b_2

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F07b_oth. SPECIFY UNIT

E ag_f07b_2==13

TEXT ag_f07b_oth_2

.....

F08. What was the main mode of transportation used to bring back all of the input that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON]

SINGLE-SELECT ag_f08_2

01 ◯ On Foot

02 ◯ Bicycle Taxi

(%ag_f00%)?

I READ RESPONSES

03 ◯ Own Bicycle or Oxcart

04 ◯ Truck / Bus/ Minibus

05 ◯ Other (Specify)

F08_oth. Specify the main mode of transportation used to bring back all of the input.

E ag_f08_2==5

TEXT ag_f08_oth

F09. How much did you pay for transportation to acquire all of the input (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.

NUMERIC: INTEGER ag_f09_2

F10. What was the value of all of the input (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK.

NUMERIC: INTEGER ag_f10_2

F11. How did you finance this input (%rostertitle%) purchase?

I READ RESPONSES

SINGLE-SELECT ag_f11_2

01 ◯ Paid in full, with own-savings

02 ◯ Received on credit

03 ◯ Part own-savings, part on credit

F12. How much did you pay up-front for this input (%rostertitle%) purchase?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN-KIND PAYMENTS. IF NOTHING, RECORD ZERO.

E ag_f11_2.InList(2,3)

NUMERIC: INTEGER ag_f12_2

F13. How much did you repay/will you repay?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN-KIND PAYMENTS.

E ag_f11_2.InList(2,3)

NUMERIC: INTEGER ag_f13_2

F14. What was the source of credit for the input (%rostertitle%) purchase?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_f11_2.InList(2,3)

MULTI-SELECT ag_f14_2

09 ☐ Village saving and lending assoc.

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

15 ☐ Microfinance institution

16 ☐ Private bank

[AG-F] OTHER INPUTS (RAINY SEASON) / PESTICIDES/HERBICIDES / PESTICIDES/HERBICIDES

FREE [INPUT]

E ag_f03_2==2

F37. Did you receive any of the input (%rostertitle%) for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I EXCLUDE ORGANIC FERTILIZER OUT OF OWN-PRODUCTION OR ANY [INPUT] LEFT OVER FROM PREVIOUS SEASON.

SINGLE-SELECT ag_f37_2

01 ○ YES

02 ○ NO

F38a. How much of the input (%rostertitle%) did you receive in total for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I QUANTITY

E ag_f37_2==1

NUMERIC: INTEGER ag_f38a_2

F38b. UNIT

E ag_f38a_2>0

SINGLE-SELECT: COMBO BOX ag_f38b_2

01 ○ GRAM

02 ○ KILOGRAM

03 ○ 2 KG BAG

04 ○ 3 KG BAG

05 ○ 5 KG BAG

06 ○ 10 KG BAG

07 ○ 50 KG BAG

08 ○ LITER

09 ○ MILLILITER

10 ○ BUCKET

11 ○ WHEELBARROW

12 ○ OX CART

13 ○ OTHER (SPECIFY)

F38b_oth. SPECIFY UNIT

E ag_f38b_2==13

TEXT ag_f38b_oth_2

F39. During the [REFERENCE RAINY SEASON] (%ag_f00%), from whom did you receive most of the input (%rostertitle%) for free?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_f37_2==1

MULTI-SELECT ag_f39_2

01 ☐ Village headman/chief

03 ☐ Lead farmer

07 ☐ Village development committee

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

F40. How much did you pay for transportation in total to acquire all of the input (%rostertitle%) that you received for free during the [REFERENCE RAINY SEASON] (%ag_f00%)?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.

E ag_f37_2==1

NUMERIC: INTEGER ag_f40_2

[AG-F] OTHER INPUTS (RAINY SEASON) / PESTICIDES/HERBICIDES / PESTICIDES/HERBICIDES

LEFT-OVER [INPUT]

E ag_f03_2==2

F41. Was any of the input (%rostertitle%) that you used during the [REFERENCE RAINY SEASON] (%ag_f00%) left over from a previous season?

SINGLE-SELECT ag_f41_2

01 ◯ YES

02 ◯ NO

F42a. How much of the input (%rostertitle%) that you used during the [REFERENCE RAINY SEASON] (%ag_f00%) was left over from a previous season?

I QUANTITY

E ag_f41_2==1

NUMERIC: INTEGER ag_f42a_2

F42b. UNIT

E ag_f42a_2>0

SINGLE-SELECT: COMBO BOX ag_f42b_2

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 5 KG BAG

06 ◯ 10 KG BAG

07 ◯ 50 KG BAG

08 ◯ LITER

09 ◯ MILLILITER

10 ◯ BUCKET

11 ◯ WHEELBARROW

12 ◯ OX CART

13 ◯ OTHER (SPECIFY)

F42b_oth. SPECIFY UNIT

E ag_f42b_2==13

TEXT ag_f32b_oth_2

.....

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE F:

SINGLE-SELECT: LINKED ag_moduleF_respondent

[AG-G] CROPS (RAINY SEASON)

G-0. ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag_g0

01 ◯ 2014/2015

02 ◯ 2015/2016

A. Did you or anyone in your household plant any crops during the reference rainy season (%ag_g0%)?

SINGLE-SELECT ag_ga

01 ◯ YES

02 ◯ NO

[AG-G] CROPS (RAINY SEASON)

Roster: GARDENS

generated by list question ag_b_1_0

ag_G_garden_roster

[AG-G] CROPS (RAINY SEASON) / GARDENS

Roster: PLOTS

generated by list question ag_c0

ag_G_plot_roster

Roster: CROPS

generated by multi-select question ag_d20

ag_G_crop_roster

ENUMERATOR: RECORD PRIMARY RESPONDENT ID

SINGLE-SELECT: LINKED

ag moduleG respondent

G0a. Variety of maize: FOR ONLY MAIZE 1, MAIZE 2, MAIZE 3, MAIZE 4

E (ag_d20.Contains(1) || ag_d20.Contains(2) || ag_d20.Contains(3) || ag_d20.Contains(4))

SINGLE-SELECT: COMBO BOX

ag g0a

001 ◯ AFRIC 1
002 ◯ Bantum
003 ◯ Chisowa
004 ◯ CX5005
005 ◯ CZR3
006 ◯ CZR4
007 ◯ CZR8
008 ◯ Decap
009 ◯ DK8021
010 ◯ DK8031
011 ◯ DK8033
012 ◯ DK8035
013 ◯ DK8041
014 ◯ DK8051
015 ◯ DK8053(Mkangala)
016 ◯ DK8067

And 88 other[22]

G0aOth. Please specify other variety:

E ag_g0a.InList(55)

TEXT

ag g0aoth

.....

G0b. Is the maize type local or improved?

E ag_g0a!=null

SINGLE-SELECT

ag g0b

01 ◯ LOCAL
02 ◯ IMPROVED

G0c. Is the variety recycled?

SINGLE-SELECT

ag_g0c

E ag_g0b==2

01 ◯ YES

02 ◯ NO

G01. What type of crop stand was on the PLOT?

I READ RESPONSES

V1 // if pure stand, then there should only be one crop planted on the plot self==1 ? ag_d20.Length==1 : // if mixed stand, then there should be more than one crop planted on the plot self==2 ? ag_d20.L
And 15 other symbols [15]

M1 Crop stand reported here is inconsistent with the number of crops selected in D20 for this plot.

SINGLE-SELECT ag g01

01 ◯ Pure stand / Sole

02 ◯ Strip Intercrop

03 ◯ Row Intercrop

04 ◯ Relay Intercrop

05 ◯ Mixed stand

G04a. How much seed did you plant for the crop (%rostertitle%) on this [PLOT] during the reference rainy season (%ag_g0%)?

I QUANTITY

NUMERIC: DECIMAL ag g04a

.....

G04b. UNIT

E ag_g04a>0

SINGLE-SELECT: COMBO BOX ag g04b

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 3.7 KG BAG

06 ◯ 5 KG BAG

07 ◯ 10 KG BAG

08 ◯ 50 KG BAG

09 ◯ OTHER (SPECIFY)

G04b_oth. SPECIFY UNIT

E ag_g04b==9

V1 ag_g04b_oth.Length<=244

M1 Response is too long.

TEXT ag_g04b_oth

.....

G05a. When did you plant the seeds for the crop (%rostertitle%) on this [PLOT] during the reference rainy season (%ag_g0%)?

I MONTH

SINGLE-SELECT: COMBO BOX ag g05a

01 ◯ JANUARY

02 ◯ FEBRUARY

03 ◯ MARCH

04 ◯ APRIL

05 ◯ MAY

06 ◯ JUNE

07 ◯ JULY

08 ◯ AUGUST

09 ◯ SEPTEMBER

10 ◯ OCTOBER

11 ◯ NOVEMBER

12 ◯ DECEMBER

G05b. YEAR (4 DIGIT)

NUMERIC: INTEGER ag_g05b

V1 (ag_g0==1 && self.InRange(2014,2015)) || (ag_g0==2 && self.InRange(2015,2016))

M1 This question asks about the reference rainy season. The recorded answer falls outside of the recall period. Please confirm.

G13a. How much %rostertitle% did you harvest from this plot during the reference rainy season (%ag_g0%)?

NUMERIC: DECIMAL ag_g13a

I QUANTITY IF NO HARVEST, RECORD ZERO.

G13b. UNIT

SINGLE-SELECT: COMBO BOX ag_g13b

E ag_g13a>0

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

G13b_oth. SPECIFY UNIT

TEXT ag_g13b_oth

E ag_g13b==13

G13c. S/U

E ag_g13a>0

V1 /* ALGORITHM Convert area to acre Generate Area categ ories Generate Harvest in KG Calculate Yield kg/acre Determine whether yield is within allowable bounds LO OKUP: extremeyield, from Chec And 1980 other symbols [16]

M1 Harvest amount for this plot seems unlikely. Please check.

SINGLE-SELECT ag_g13c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

04 ◯ GRADED

05 ◯ UNGRADED

G14. Who in the household makes the decision concerning the use of the %rostertitle% output from this plot?

I LIST UP TO TWO HOUSEHOLD MEMBERS

MULTI-SELECT: LINKED ag_g14

[AG-H] SEEDS (RAINY SEASON)

H-0. ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag_h0

01 ◯ 2014/2015

02 ◯ 2015/2016

SELECT ALL DIFFERENT TYPES OF CROPS PLANTED BY THE HOUSEHOLD DURING THE [REFERENCE RAINY SEASON] (%ag_h0%) .

V1 self.ContainsOnly(ag_moduleD_garden_roster.SelectMany (x => x.ag_moduleD_plot_roster).SelectMany(y => y.ag_ d20).Distinct().ToArray())

M1 All crop types planted by household must be selected. Please reconfir m the answers selected.

MULTI-SELECT ag_h00

01 ☐ MAIZE

05 ☐ TOBACCO

11 ☐ GROUNDNUT

17 ☐ RICE

27 ☐ GROUND BEAN(NZAMA)

28 ☐ SWEET POTATO

29 ☐ IRISH [MALAWI] POTATO

30 ☐ WHEAT

31 ☐ FINGER MILLET(MAWERE)

32 ☐ SORGHUM

33 ☐ PEARL MILLET(MCHEWERE)

34 ☐ BEANS

35 ☐ SOYABEAN

36 ☐ PIGEONPEA(NANDOLO)

37 ☐ COTTON

38 ☐ SUNFLOWER

And 11 other []

[AG-H] SEEDS (RAINY SEASON)

Roster: SEEDS (RAINY SEASON)

generated by multi-select question ag_h00

ag_H_seed_roster

SPECIFY THE CROP TYPE

E @rowcode==10 || @rowcode==16 || @rowcode==26 || @rowcode==48

TEXT ag h00 oth

H01a. ENUMERATOR: REFER TO AG-MODULE G, QUESTION 4. FOR EACH TYPE OF SEED, COMPUTE THE TOTAL AMOUNT PLANTED ACROSS PLOTS CULTIVATED BY THE HOUSEHOLD DURING THE [REFERENCE RAINY SEASON] (%ag_h0%). RECORD THE VALUE HERE. QUANTITY

NUMERIC: DECIMAL ag_h01a

H01b. UNIT

E ag_h01a>0

SINGLE-SELECT ag h01b

01 ◯ GRAM

02 ◯ KILOGRAM

H02. ENUMERATOR: ASK THE FARMER WHETHER THE FIGURES FROM QUESTION H01 CORRESPOND TO THE AMOUNT OF EACH TYPE OF SEED USED DURING THE [REFERENCE RAINY SEASON] (%ag_h0%).

SINGLE-SELECT ag h02

01 ◯ YES, THE FIGURES MATCHED

02 ◯ NO, THE ENTRIES IN AG-MODULE G, AND QUESTION 1 OF AG-MODULE H WERE ADJUSTED

H03. During the [REFERENCE RAINY SEASON] (%ag_h0%), did all of this seed (%rostertitle%) come from purchases by using coupons / vouchers?

SINGLE-SELECT ag h03

01 ◯ YES

02 ◯ NO

H04. During the [REFERENCE RAINY SEASON] (%ag_h0%), did you purchase any seed (%rostertitle%) without coupons/

SINGLE-SELECT ag_h04

01 ◯ YES

vouchers or purchase any seed (%rostertitle%) on credit?

E ag_h03==2

02 ◯ NO

[AG-H] SEEDS (RAINY SEASON) / SEEDS (RAINY SEASON)

COMMERCIAL [SEED] PURCHASES

E ag_h04==1

H06. Who/Which firms/institutions were the sources of the seed (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I LIST UP TO 2 FROM NETWORK ROSTER

MULTI-SELECT ag_h06

10 ☐ ADMARC depot

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

H07a. How much of the seed (%rostertitle%) was purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I RECORD TOTAL QUANTITY, REGARDLESS OF SOURCE.

NUMERIC: INTEGER ag_h07a

.....

H07b. UNIT

E ag_h07a>0

SINGLE-SELECT: COMBO BOX ag_h07b

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 3.7 KG BAG

06 ◯ 5 KG BAG

07 ◯ 10 KG BAG

08 ◯ 50 KG BAG

09 ◯ OTHER (SPECIFY)

H07b_oth. SPECIFY UNIT

E ag_h07b==9

TEXT ag_h07b_oth

.....

SINGLE-SELECT ag_h08

H08. What was the main mode of transportation used to bring back all of the seed (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I READ RESPONSES

01 ◯ On Foot

02 ◯ Bicycle Taxi

03 ◯ Own Bicycle or Oxcart

04 ◯ Truck / Bus/ Minibus

05 ◯ Other (Specify)

H08_oth. Specify the main mode of transportation.

E ag_h08==5

TEXT ag_h08_oth

.....

H09. How much did you pay for transportation to acquire all of the seed (%rostertitle%) that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.

NUMERIC: INTEGER ag_h09

.....

H10. What was the value of all of the [SEED] that you purchased without coupons / vouchers or purchased on credit during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I IN MK.

NUMERIC: INTEGER ag_h10

.....

H11. How did you finance this seed (%rostertitle%) purchase?

I READ RESPONSES

E ag_h10>0

SINGLE-SELECT ag_h11

01 ◯ Paid in full, with own-savings

02 ◯ Received on credit

03 ◯ Part own-savings, part on credit

H12. How much did you pay up-front for this seed (%rostertitle%) purchase?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN- KI ND PAYMENTS. IF NOTHING, RECORD ZERO.

E ag_h11.InList(2,3)

NUMERIC: INTEGER ag_h12

.....

H13. How much did you repay/will you repay?

I IN MK. INCLUDE CASH PAYMENTS AND ESTIMATED VALUE OF IN- KI ND PAYMENTS.

E ag_h11.InList(2,3)

NUMERIC: INTEGER ag_h13

.....

H14. What was the source of credit for the seed (%rostertitle%) purchase?

MULTI-SELECT ag_h14

09 ☐ Village saving and lending assoc.

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_h11.InList(2,3)

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

15 ☐ Microfinance institution

16 ☐ Private bank

[AG-H] SEEDS (RAINY SEASON) / SEEDS (RAINY SEASON)

FREE [SEED]

H37. Did you receive any of the seed (%rostertitle%) for free during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I EXCLUDE ANY SEED LEFT OVER FROM PREVIOUS SEASON.

SINGLE-SELECT ag_h37

01 ◯ YES

02 ◯ NO

H38a. How much of the seed (%rostertitle%) did you receive in total for free during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I QUANTITY

E ag_h37==1

NUMERIC: INTEGER ag_h38a

.....

H38b. UNIT

E ag_h38a>0

SINGLE-SELECT: COMBO BOX ag_h38b

01 ◯ GRAM

02 ◯ KILOGRAM

03 ◯ 2 KG BAG

04 ◯ 3 KG BAG

05 ◯ 3.7 KG BAG

06 ◯ 5 KG BAG

07 ◯ 10 KG BAG

08 ◯ 50 KG BAG

09 ◯ OTHER (SPECIFY)

H38b_oth. SPECIFY UNIT

E ag_h38b==9

TEXT ag_h38b_oth

.....

H39. During the [REFERENCE RAINY SEASON] (%ag_h0%), from whom did you

MULTI-SELECT ag_h39

receive the seed (%rostertitle%) for free?

I LIST UP TO 2 FROM NETWORK ROSTER
E ag_h37==1

01 ☐ Village headman/chief
02 ☐ Agricultural extension worker
03 ☐ Lead farmer
04 ☐ Group village headman/chief
07 ☐ Village development committee
08 ☐ Area development committee
12 ☐ Neighbour
13 ☐ Relative
14 ☐ Clan leader

H40. How much did you pay for transportation in total to acquire all of the seed (%rostertitle%) that you received for free during the [REFERENCE RAINY SEASON] (%ag_h0%)?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM.
E ag_h37==1

NUMERIC: INTEGER ag_h40

[AG-H] SEEDS (RAINY SEASON) / SEEDS (RAINY SEASON)
LEFT-OVER [SEED]

H41. Was any of the seed (%rostertitle%) that you used during the [REFERENCE RAINY SEASON] (%ag_h0%) left over from a previous season?

SINGLE-SELECT ag_h41

01 ◯ YES
02 ◯ NO

H42a. How much of the seed (%rostertitle%) that you used during the [REFERENCE RAINY SEASON] (%ag_h0%) left over from a previous season?

I QUANTITY
E ag_h41==1

NUMERIC: INTEGER ag_h42a

H42b. UNIT

E ag_h42a>0

SINGLE-SELECT: COMBO BOX ag_h42b

01 ◯ GRAM
02 ◯ KILOGRAM
03 ◯ 2 KG BAG
04 ◯ 3 KG BAG
05 ◯ 3.7 KG BAG

06 ◯ 5 KG BAG

07 ◯ 10 KG BAG

08 ◯ 50 KG BAG

09 ◯ OTHER (SPECIFY)

H42b_oth. SPECIFY UNIT

E ag_h42b==9

TEXT ag_h42b_oth

.....

H43. Why did you choose to use this seed (%rostertitle%)?

I READ RESPONSES

E ag_h42a > 0

SINGLE-SELECT ag_h43

01 ◯ Improved variety is too expensive

02 ◯ Preference for traditional variety

03 ◯ Advice from extension officer

04 ◯ Advice from input supplier

05 ◯ Advice from fellow farmer

06 ◯ Seed received through the voucher program

07 ◯ Other (Specify)

H43_oth. Specify why you choose to use this seed (%rostertitle%).

E ag_h43==7

TEXT ag_43_oth

.....

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE H:

SINGLE-SELECT: LINKED ag_moduleH_respondent

[AG-I]: SALES/STORAGE (RAINY SEASON)

I-0. ENUMERATOR: WHAT WAS THE REFERENCE RAINY SEASON FOR THIS HOUSEHOLD?

SINGLE-SELECT ag_i_0

01 ◯ 2014/2015

02 ◯ 2015/2016

[AG-I]: SALES/STORAGE (RAINY SEASON)

Roster: SALES/STORAGE ROSTER

generated by multi-select question ag_h00

ag_H_sales_storage_roster

I01. Did you sell any of the harvested crop

SINGLE-SELECT ag_i01

(%rostertitle%)?

01 ◯ YES

02 ◯ NO

I01_1.ENUMERATOR: RECORD PRIMARY RESPONDENT ID

SINGLE-SELECT: LINKED ag i01 1

E ag_i01==1

I02a. How much of the harvested crop (%rostertitle%) was sold in total?

NUMERIC: INTEGER ag i02a

I QUANTITY. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHE THER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

E ag_i01==1

V1 ag_i02a>0

M1 Quantity must be greater than zero.

I02b. UNIT

SINGLE-SELECT: COMBO BOX ag i02b

E ag_i02a>0

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I02b_oth. SPECIFY UNIT

TEXT ag i02b oth

E ag_i02b==13

I02c. S/U

SINGLE-SELECT ag i02c

E ag_i02a>0

V1 // Check that amount sold is less than the total harv est (new Func<bool>(() => { // Look up crops in neste d roster // generate new object with quantity and con version factor var crops = ag_G_garden_r
And 1140 other symbols [17]

M1 Amount sold is greater than harvest size for the crop. Please confirm t he amount sold.

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

NUMERIC: INTEGER ag i03

I03. What was the total value of all crop (%rostertitle%) sales?

I IN MK. ESTIMATE THE VALUE OF IN-KIND PAYMENTS.
E ag_i02a>0
V1 ag_i03>0
M1 Quantity must be greater than zero.

I05. Who/What were the main buyers/outlets for your crop (%rostertitle%) sales?

I LIST UP TO 2 FROM NETWORK ROSTER
E ag_i01==1

MULTI-SELECT ag_i05

11 ☐ Private (agro-)dealer/Vendor
12 ☐ Neighbour
13 ☐ Relative
15 ☐ Microfinance institution
16 ☐ Sold at the local market
17 ☐ Sold at market in town
18 ☐ Other, specify

I06. Who in your household kept/decided what to do with these earnings?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER
E ag_i01==1

MULTI-SELECT: LINKED ag_i06

I07a. When was most of the crop (%rostertitle%) sold?

I MONTH
E ag_i01==1

SINGLE-SELECT: COMBO BOX ag_i07a

01 ◯ JANUARY
02 ◯ FEBRUARY
03 ◯ MARCH
04 ◯ APRIL
05 ◯ MAY
06 ◯ JUNE
07 ◯ JULY
08 ◯ AUGUST
09 ◯ SEPTEMBER
10 ◯ OCTOBER
11 ◯ NOVEMBER
12 ◯ DECEMBER

I07b. YEAR (4-DIGIT)

NUMERIC: INTEGER ag i07b

E ag_i01==1
V1 $seasonyear_range
M1 Reported year is out of range. Please confirm.

I08. Approximately how many transactions took place while selling crop (%rostertitle%)?

NUMERIC: INTEGER ag i08

I NUMBER OF TRANSACTIONS
E ag_i01==1

I09.What was the main mode of transportation associated with all crop (%rostertitle%) sales?

SINGLE-SELECT ag_i09

I READ RESPONSES
E ag_i01==1

01 ◯ On Foot
02 ◯ Bicycle Taxi
03 ◯ Own Bicycle or Oxcart
04 ◯ Truck / Bus/ Minibus
05 ◯ Buyer picked up the crop
06 ◯ Other (Specify)

I09_oth. Specify the main mode of transportation.

TEXT ag i09 oth

E ag_i09==6

I10. What was the total cost of transportation associated with all crop (%rostertitle%) sales?

NUMERIC: INTEGER ag i10

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM. IF NOTH ING, RECORD ZERO.
E ag_i01==1

[AG-I]: SALES/STORAGE (RAINY SEASON) / SALES/STORAGE ROSTER

ALTERNATIVE USES

I31a.How much of the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was given out as gifts or reimbursements for land, labour?

NUMERIC: INTEGER ag_i31a

I QUANTITY. EXCLUDE REIMBURSEMENTS FOR INPUTS BORROWED / ACQUIRED ON CREDIT. IF NOTHING, RECORD ZERO FOR "QUANTIT Y" AND CONTINUE TO 32. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VA And 28 other symbols [13]

I31b. UNIT

SINGLE-SELECT: COMBO BOX ag_i31b

E ag_i31a>0

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I31b_oth. SPECIFY UNIT

E ag_i31b==13

TEXT ag i31b oth

I31c. S/U

E ag_i31a>0

SINGLE-SELECT ag 131c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

I32a. How much of the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was given out as reimbursements for inputs borrowed or acquired on credit?

I QUANTITY. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 33. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

NUMERIC: INTEGER ag i32a

I32b. UNIT

E ag_i32a>0

SINGLE-SELECT: COMBO BOX ag i32b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I32b_oth. SPECIFY UNIT

E ag_i32b==13

TEXT ag i32b oth

I32c. S/U

E ag_i32a>0

SINGLE-SELECT ag_i32c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

I33a. How much of the harvested crop(%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was used for animal feed?

I QUANTITY. EXCLUDE THE QUANTITY OF CROP USED AS ANIMAL FE ED DUE TO PEST DAMAGE. IF NOTHING, RECORD ZERO FOR "QUAN TITY" AND CONTINUE TO 34. FOR ALL APPLICABLE CROPS, MAKE S URE TO ASK WHETHER THE REPORTE And 31 other symbols [14]

NUMERIC: INTEGER ag_i33a

I33b. UNIT

E ag_i33a>0

SINGLE-SELECT: COMBO BOX ag i33b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I33b_oth. SPECIFY UNIT

E ag_i33b==13

TEXT ag_i33b_oth

I33c. S/U

E ag_i33a>0

SINGLE-SELECT ag i33c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

I34a. How much of the harvested crop(%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was used as input for crop (%rostertitle%) by-products that your household sold, if any, for cash/ in-kind goods/ services?

I QUANTITY. EXCLUDE CROP USED AS INPUT FOR OWN-PRODUCED BY-PRODUCTS CONSUMED AT HOME. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 35. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE RE And 37 other symbols [15]

NUMERIC: INTEGER ag i34a

I34b. UNIT

E ag_i34a>0

SINGLE-SELECT: COMBO BOX ag_i34b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I34b_oth. SPECIFY UNIT

E ag_i34b==13

TEXT ag i34b oth

I34c. S/U

E ag_i34a>0

SINGLE-SELECT ag i34c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

I35a. How much of the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON](%ag_i_0%) was saved for seed?

I QUANTITY. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 36. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

NUMERIC: INTEGER ag i35a

.....

I35b. UNIT

E ag_i35a>0

SINGLE-SELECT: COMBO BOX ag i35b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I35b_oth. SPECIFY UNIT

E ag_i35b==13

TEXT ag i35b oth

.....

I35c. S/U

E ag_i35a>0

SINGLE-SELECT ag_i35c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

I36a. How much of the the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was lost to rotting, insects, rodents, theft, etc. in the post- harvest period?

I INCLUDE THE QUANTITY OF CROP USED AS ANIMAL FEED DUE TO P

NUMERIC: INTEGER ag_i36a

.....

EST DAMAGE. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WH ETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.. FIRST OPTION. QUANTITY FILL IN OPTI And 134 other symbols [16]

I36b. OPTION 1 UNIT

E ag_i36a>0

SINGLE-SELECT: COMBO BOX ag i36b

01 ◯ KILOGRAM
02 ◯ 50 KG BAG
04 ◯ PAIL (SMALL)
05 ◯ PAIL (LARGE)
06 ◯ NO 10 PLATE
07 ◯ NO 12 PLATE
08 ◯ BUNCH
09 ◯ PIECE
10 ◯ BALE
12 ◯ OX-CART
13 ◯ OTHER (SPECIFY)

I36b_oth. SPECIFY UNIT

E ag_i36b==13

TEXT ag i36b oth

I36c. OPTION 1 S/U

E ag_i36a>0

SINGLE-SELECT ag_i36c

01 ◯ S: SHELLED
02 ◯ U: UNSHELLED
03 ◯ NOT APPLICABLE

I36d. OPTION 2PERCENTAGE

E !(ag_i36a.HasValue) || ag_i36a==0
V1 self.InRange(0,100)
M1 Please enter a valid percentage between 1 and 100.

NUMERIC: INTEGER ag i36d

I37. What was the reason for loss?

I READ RESPONSES. LIST UP TO 2.
E ag_i36a.HasValue?ag_i36a!=0:true || ag_i36d!=0

MULTI-SELECT: ORDERED ag i37

01 ☐ Rotting
02 ☐ Insects
03 ☐ Rodents/Pests
04 ☐ Flood

05 ☐ Theft

06 ☐ Other (Specify)

I37_oth. Specify the reason for loss.

E ag_i37.Contains(6)

TEXT ag i37 oth

[AG-I]: SALES/STORAGE (RAINY SEASON) / SALES/STORAGE ROSTER

STORAGE

I38. Do you have any of the harvested crop (%rostertitle%) in storage now?

SINGLE-SELECT ag i38

01 ◯ YES

02 ◯ NO

I39. What is your main method of storage for this crop?

I READ RESPONSES

E ag_i38==1

SINGLE-SELECT ag i39

01 ◯ Unprotected pile

02 ◯ Heaped in house

03 ◯ Bags in house

04 ◯ Chitandala in house

05 ◯ Chitandala outside

06 ◯ Traditional Nkhokwe

07 ◯ Improved Nkhokwe

08 ◯ Metallic Silo

09 ◯ Other (Specify)

I39_oth. Specify your main method of storage for this crop.

E ag_i39==9

TEXT ag i39 oth

I40a. How much of the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) season is being stored by your household?

I QUANTITY. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHE THER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

E ag_i38==1

NUMERIC: INTEGER ag i40a

I40b. UNIT

E ag_i40a>0

SINGLE-SELECT: COMBO BOX ag i40b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

I40b_oth. SPECIFY UNIT

E ag_i40b==13

TEXT ag_i40b_oth

I40c. S/U

E ag_i40a>0

SINGLE-SELECT ag_i40c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

I41. What did you do to protect the stored crop (%rostertitle%)?

I READ RESPONSES. LIST UP TO 2.

E ag_i38==1

MULTI-SELECT: ORDERED ag_i41

01 ☐ Spraying

02 ☐ Smoking

03 ☐ Hired Guard

04 ☐ Magic (Kutsirika)

05 ☐ Powder (dust)

06 ☐ Other (Specify)

07 ☐ Do nothing

I41_oth. Specify what you do to protect the stored crop (%rostertitle%).

E ag_i41.Contains(6)

TEXT ag_i41_oth

I42. In general, when you store crop

MULTI-SELECT: ORDERED ag_i42

(%rostertitle%), what is usually the main purpose for storing it?

I READ RESPONSES. LIST UP TO 2.

01 ☐ Food for household

02 ☐ To sell at a higher price

03 ☐ Seed for planting

04 ☐ Render payments in-kind

05 ☐ Wait for the arrival of buyer

06 ☐ Does not usually store

07 ☐ Other (Specify)

I42_oth. Specify what is usually the main purpose for storing the crop.

E ag_i42.Contains(7)

TEXT ag_i42_oth

[AG-O_1] ADDITIONAL TREE/PERMANENT CROP PARCEL ROSTER

O_1_1. IN ADDITION TO THE PARCELS DISCUSSED SO FAR, WERE THERE ANY OTHER (ADDITIONAL) PARCELS THAT YOU HAVE OWNED OR CULTIVATED WITH TREE/PERMANENT CROPS IN THE LAST 12 MONTHS?

SINGLE-SELECT ag o 1 1

01 ◯ YES

02 ◯ NO

STATIC TEXT

A PARCEL IS A CONTINUOUS PIECE OF LAND AND SHOULD NOT BE SPLIT BY A RIVER OR A PATH WIDE ENOUGH TO FIT AN OX-CART OR VEHICLE. A GARDEN CAN CONTAIN ONE OR MORE PLOTS. A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A UNIQUE CROP OR A MIXTURE OF CROPS IS GROWN, UNDER A UNIFORM, CONSISTENT CROP MANAGEMENT SYSTEM. A PLOT MUST BE CONTINUOUS AND SHOULD NOT BE SPLIT BY A PATH OF MORE THAN ONE METRE IN WIDTH. PLOT BOUNDARIES ARE DEFINED ACCORDING TO THE CROPS GROWN AND THE OPERATOR.

O_1_0. Please list all additional PARCELS you or anyone in your household owned or cultivated during the last 12 months THAT HAVE TREES/PERMANENT CROPS.

I Do not forget prefixes "TG01, TG02, TG03, etc."

E ag_o_1_1==1

LIST ag o 1 0

[AG-O_1] ADDITIONAL TREE/PERMANENT CROP PARCEL ROSTER

Roster: PARCEL ROSTER (TREE/PERMANENT CROP) ag_O_1_garden_roster

generated by list question ag_o_1_0

O_1_2. PARCEL NAME

TEXT ag o 1 2

O_1_3. LOCATION & DESCRIPTION

TEXT

ag o 1 3

O_1_4. What is the area of this PARCEL (%rostertitle%)? AREA

I ENUMERATOR: ASK THE FARMER TO ESTIMATE THE AREA.

V1 self>0

M1 Area of garden must be greater than 0.

NUMERIC: DECIMAL

ag o 1 4a

O_1_4b. UNIT

E ag_o_1_4a>0

V1 (self==4) || ((ag_o_1_4a*(self==1? 0.404686:0+self==2 ? 1:0 + self==3? 0.0001:0))<=4)

M1 Reported land area is unlikely. Please confirm.

SINGLE-SELECT

ag_o_1_4b

01 ◯ ACRE

02 ◯ HECTARE

03 ◯ SQUARE METERS

04 ◯ OTHER (SPECIFY)

O_1_4b_oth. SPECIFY UNIT

E ag_o_1_4b==4

TEXT

ag o 1 4b oth

What is the area of this PARCEL (%rostertitle%)? ENUMERATOR: MEASURE THE AREA WITH THE GPS. MAKE SURE TO MEASURE THE PARCEL AREA WITH GPS AT LEAST TWICE TO GET A CONSISTENT VALUE. RECORD ZEROS TO THE RIGHT OF THE DECIMAL.AREA

I DON'T FORGET TO SAVE THE TRACK ON YOUR GPS UNIT. SAVE TR ACK AS THE 7-DIGIT IHS4 HHID PLUS GARDEN ID! EXAMPLE: "09280 02RG01"

V1 self>0

M1 Please Confirm The Size

NUMERIC: DECIMAL

ag_o_1_4a2

O_1_05a. ENUMERATOR: RECORD THE COORDINATES FOR THE CORNER OF THE PARCEL AT WHICH YOU STARTED AREA MEASUREMENT.

I DON'T FORGET TO SAVE THE COORDINATES ON YOUR GPS UNIT. S AVE COORDINATES AS THE 7-DIGIT IHS4 HHID PLUS THE PARCEL I D! EXAMPLE: "0928002RG01"

TEXT

ag o 1 05a

LONGITUDE

TEXT

ag o 1 05b

O_1_05c. IF YOU DID NOT RECORD THE GPS COORDINATES, PLEASE SPECIFY REASON.

E String.IsNullOrEmpty(ag_o_1_05a) && String.IsNullOrEm

SINGLE-SELECT

ag_o_1_05c

01 ◯ LONG DISTANCE WITHIN THIS DISTRICT

pty(ag_o_1_05b)

02 ◯ LONG DISTANCE OUTSIDE THIS DISTRICT

03 ◯ HOUSEHOLD REFUSED

04 ◯ OTHER (SPECIFY)

O_1_05coth. PLEASE SPECIFY REASON YOU DID NOT RECORD THE GPS COORDINATES

TEXT ag o 1 05cOth

E ag_o_1_05c==4

O_1_06. ENUMERATOR: RECORD NUMBER OF SATELLITES GPS TRACKED TO CAPTURE PLOT COORDINATES

NUMERIC: INTEGER ag o 1 06

E !ag_o_1_05c.InList(1,2,3,4)

ENUMERATOR: RECORD GPS ACCURACY

NUMERIC: INTEGER ag_o_1_06a

E !ag_o_1_05c.InList(1,2,3,4)

V1 self<=6

M1 Wait for GPS to stabilise and Recapture Co-ordinates for better accuracy

O_1_07. ENUMERATOR: RECORD THE WEATHER CONDITIONS AT TIME OF MEASUREMENT:

SINGLE-SELECT: COMBO BOX ag o 1 07

E !ag_o_1_05c.InList(1,2,3,4)

01 ◯ Clear/Sunny

02 ◯ Mostly Clear / Mostly Sunny

03 ◯ Partly Cloudy / Partly Sunny

04 ◯ Mostly Cloudy / Considerable Cloudiness

05 ◯ Completely Cloudy

06 ◯ Rainy

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE O_1:

SINGLE-SELECT: LINKED ag_module_O_1_respondent

[AG-O_2] PLOT ROSTER-TREE/PERMANENT CROPS

O_2_01. DID YOU HAVE ANY PLOTS WITH TREE/PERMANENT CROPS IN THE LAST 12 MONTHS?

SINGLE-SELECT ag o 2 01

01 ◯ YES

02 ◯ NO

STATIC TEXT

A GARDEN (MUNDA) IS A CONTINUOUS PIECE OF LAND AND SHOULD NOT BE SPLIT BY A RIVER OR A PATH WIDE ENOUGH TO FIT AN OX-CART OR VEHICLE. A GARDEN CAN CONTAIN ONE OR MORE PLOTS. A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A UNIQUE CROP OR A MIXTURE OF CROPS IS GROWN, UNDER A UNIFORM, CONSISTENT CROP MANAGEMENT SYSTEM. A PLOT MUST BE CONTINUOUS AND SHOULD NOT BE SPLIT BY A PATH OF MORE THAN ONE METRE IN WIDTH. PLOT BOUNDARIES ARE DEFINED ACCORDING TO THE CROPS GROWN AND THE OPERATOR.

O_2_1. Please list all PLOTS on all GARDENS (MINDA) AND OTHER PARCELS you or anyone in your household owned or cultivated during the last 12 months THAT HAVE TREES/PERMANENT CROPS

I Do not forget prefixes "T01, T02, T03, etc."

E ag_o_2_01==1

LIST ag O 2 plot list

[AG-O_2] PLOT ROSTER-TREE/PERMANENT CROPS

Roster: PLOT ROSTER

generated by list question ag_O_2_plot_list

ag_o_2_plot_roster

O_2_2. PLOT NAME

TEXT ag o 2 2

O_2_3. LOCATION & DESCRIPTION

TEXT ag_o_2_3

O_2_1. WAS THIS PLOT PART OF.....

SINGLE-SELECT ag o 2 1

01 ◯ RAINY SEASON GARDENS

02 ◯ DIMBA SEASON GARDENS

03 ◯ TREE/PERMANENT CROP GARDENS

O_2_3_2. RECORD THE RAINY SEASON GARDEN THAT THE PLOT IS A PART OF.

E ag_o_2_1==1

SINGLE-SELECT: LINKED ag o 2 3 2a

O_2_3_2. RECORD TREE/PERMANENT PARCEL THAT THE PLOT IS A PART OF.

E ag_o_2_1==3

SINGLE-SELECT: LINKED ag o 2 3 2c

O_2_4a. What is the area of this plot (%rostertitle%)?

I AREA. ENUMERATOR: ASK THE FARMER TO ESTIMATE THE AREA. R ECORD ZEROS TO THE RIGHT OF THE DECIMAL.

V1 self>0

M1 Area of plot must be greater than 0.

NUMERIC: DECIMAL ag o 2 4a

O_2_4b. UNIT

SINGLE-SELECT ag_o_2_4b

E ag_o_2_4a>0

V1 (self==4) || ((ag_o_2_4a*(self==1? 0.404686:0+self==2 ? 1:0 + self==3? 0.0001:0))<=4)

M1 Reported land area is unlikely. Please confirm.

01 ◯ ACRE

02 ◯ HECTARE

03 ◯ SQUARE METERS

04 ◯ OTHER (SPECIFY)

O_2_4b_oth. SPECIFY UNIT

TEXT ag o 2 4b oth

E ag_o_2_4b==4

O_2_4c. What is the area of this plot (%rostertitle%)? [GPS]

NUMERIC: DECIMAL ag_o_2_4c

I AREA IN ACRES ENUMERATOR: MEASURE THE AREA WITH THE GPS . MAKE SURE TO MEASURE THE PLOT AREA WITH GPS AT LEAST T WICE TO GET A CONSISTENT VALUE. RECORD ZEROS TO THE RIGH T OF THE DECIMAL. DON'T FORGET T And 155 other symbols [17]

O_2_05a. ENUMERATOR: RECORD THE COORDINATES FOR THE CORNER OF THE PLOT AT WHICH YOU STARTED AREA MEASUREMENT.

TEXT ag_o_2_05a

I DON'T FORGET TO SAVE THE COORDINATES ON YOUR GPS UNIT. S AVE COORDINATES AS THE 12-DIGIT IHS4 CROSS-SECTIONAL HHID PLUS THE GARDEN ID PLUS THE PLOT ID! EXAMPLE: "30110731000 1TG01T02"

LONGITUDE

TEXT ag o 2 05b

O_2_05c. IF YOU DID NOT RECORD THE GPS COORDINATES, PLEASE SPECIFY REASON.

SINGLE-SELECT ag_o_2_05c

E String.IsNullOrEmpty(ag_o_2_05a) && String.IsNullOrEm pty(ag_o_2_05b)

01 ◯ LONG DISTANCE WITHIN THIS DISTRICT

02 ◯ LONG DISTANCE OUTSIDE THIS DISTRICT

03 ◯ HOUSEHOLD REFUSED

04 ◯ OTHER (SPECIFY)

O_2_05coth. PLEASE SPECIFY REASON YOU DID NOT RECORD THE GPS COORDINATES

TEXT ag o 2 05cOth

E ag_o_2_05c==4

O_2_06. ENUMERATOR: RECORD NUMBER OF SATELLITES GPS TRACKED TO CAPTURE PLOT COORDINATES

NUMERIC: INTEGER ag o 2 06

E !ag_o_2_05c.InList(1,2,3,4)

ENUMERATOR: RECORD GPS ACCURACY

NUMERIC: INTEGER

ag o 2 06a

E !ag_o_2_05c.InList(1,2,3,4)
V1 self<=6
M1 Wait for GPS to stabilise and Recapture Co-ordinates for better accuracy

O_2_07. ENUMERATOR: RECORD THE WEATHER CONDITIONS AT TIME OF MEASUREMENT:

SINGLE-SELECT: COMBO BOX

ag o 2 07

E !ag_o_2_05c.InList(1,2,3,4)

01 ◯ Clear/Sunny
02 ◯ Mostly Clear / Mostly Sunny
03 ◯ Partly Cloudy / Partly Sunny
04 ◯ Mostly Cloudy / Considerable Cloudiness
05 ◯ Completely Cloudy
06 ◯ Rainy

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE O_2:

SINGLE-SELECT: LINKED

ag moduleO 2 respondent

[AG-P] TREE/PERMANENT CROP PRODUCTION-LAST 12 MONTHS

[AG-P] TREE/PERMANENT CROP PRODUCTION-LAST 12 MONTHS

Roster: PLOT ROSTER-TREE/PERMANENT CROPS

generated by list question ag_O_2_plot_list

ag_P_plot_roster

For each plot, list all the types of tree species growing on this [PLOT] (for fodder, fertilizer and other trees)?

MULTI-SELECT: ORDERED

ag p0 crops

I Answers should be ticket off in their order of dominance, with the most dominant ticked first.

0002 ☐ Tea
0003 ☐ Coffee
0004 ☐ Mango
0005 ☐ Orange
0006 ☐ Pawpaw/Papaya
0007 ☐ Banana
0008 ☐ Avocado
0009 ☐ Guava
0010 ☐ Lemon
0011 ☐ Naartje (Tangerine)

0012 ☐ Peach

0013 ☐ [Custade apple] Poza

0014 ☐ Mexican apple (Masuku)

0016 ☐ Pineapple

0017 ☐ Macadamia

1901 ☐ Faidherrbia albida (Msangu)

And 70 other []

If other, please specify:

E ag_p0_crops.Contains(1)

TEXT ag p0 crops oth

.....

[AG-P] TREE/PERMANENT CROP PRODUCTION-LAST 12 MONTHS / PLOT ROSTER-TREE/PERMANENT CROPS

ASK THESE QUESTIONS ONLY FOR THE MOST DOMINANT TREE/PERMANENT CROP ON THIS PLOT

P01. Is the tree/permanent crop cultivation in a plantation or scattered in the field?

SINGLE-SELECT ag p01

01 ◯ PLANTATION

02 ◯ SCATTERED

P02a. What is the area of the plantation?

I AREA

E ag_p01==1

NUMERIC: DECIMAL ag p02a

.....

P02b. UNIT

E ag_p02a>0

SINGLE-SELECT ag_p02b

01 ◯ ACRE

02 ◯ HECTARE

03 ◯ SQUARE METERS

04 ◯ OTHER (SPECIFY)

P02b_oth. SPECIFY UNIT

E ag_p02b==4

TEXT ag_p02b_oth

.....

P03. How many plants/trees for the tree/permanent crop do you own on this [PLOT]?

I IF THE FARMER IS UNABLE TO QUANTIFY, RECORD 999.

NUMERIC: INTEGER ag p03

.....

P04. In what year were most of these

NUMERIC: INTEGER ag_p04

perennials/ trees planted?

I YEAR (4-DIGIT)
E ag_p03!=null
V1 self.InRange(1950,2016)
M1 The year seems unlikely. Please check.

P05. How many plants/ trees were planted during the last 12 months?

NUMERIC: INTEGER ag_p05

E ag_p03!=null

P09a. How much tree/permanent crop did you harvest during the last 12 months?

NUMERIC: INTEGER ag_p09a

I QUANTITY. IF NOTHING, RECORD ZERO FOR "QUANTITY"

P09b. UNIT

SINGLE-SELECT: COMBO BOX ag_p09b

E ag_p09a>0

01 ◯ KILOGRAM
02 ◯ 50 KG BAG
03 ◯ 90 KG BAG
04 ◯ PAIL (SMALL)
05 ◯ PAIL (LARGE)
06 ◯ NO 10 PLATE
07 ◯ NO 12 PLATE
08 ◯ BUNCH
09 ◯ PIECE
10 ◯ BALE
11 ◯ BASKET (DENGU)
12 ◯ OX-CART
13 ◯ OTHER(SPECIFY)

P09b_oth. SPECIFY UNIT

TEXT ag_p09b_oth

E ag_p09b==13

P10. How many of the other trees/permanent crops (not including the dominant one) are planted on this plot?

TEXT ag_p10

I If no other types than the dominant, enter zero. Enter individually for each type.

[AG-Q]: TREE/PERMANENT CROP SALES AND STORAGE

SELECT ALL THE DIFFERENT TYPES OF TREE/ PERMANENT CROPS HARVESTED DURING THE LAST 12 MONTHS.

E ag_o_2_01==1

MULTI-SELECT ag Q crop list

- 01 ☐ CASSAVA
- 02 ☐ TEA
- 03 ☐ COFFEE
- 04 ☐ MANGO
- 05 ☐ ORANGE
- 06 ☐ PAWPAW/PAPAYA
- 07 ☐ BANANA
- 08 ☐ AVOCADO
- 09 ☐ GUAVA
- 10 ☐ LEMON
- 11 ☐ NAARTJE (TANGERINE)
- 12 ☐ PEACH
- 13 ☐ [CUSTADE APPLE] POZA
- 14 ☐ MEXICAN APPLE [MASUKU]
- 15 ☐ MASAU
- 16 ☐ PINEAPPLE

And 2 other []

[AG-Q]: TREE/PERMANENT CROP SALES AND STORAGE

Roster: SALES/STORAGE CROP ROSTER

generated by multi-select question ag_Q_crop_list

ag_Q_storage_roster

Q01. Did you sell any of the harvested tree/permanent crop (%rostertitle%) during the last 12 months?

SINGLE-SELECT ag q01

- 01 ◯ YES
- 02 ◯ NO

Q02a. How much of the harvested tree/permanent crop (%rostertitle%) was sold in total during the last 12 months?

NUMERIC: INTEGER ag q02a

I QUANTITY; FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHE THER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

E ~~ag_q01==1~~

Q02b. UNIT

E ag_q02a>0

SINGLE-SELECT: COMBO BOX ag_q02b

- 01 ◯ KILOGRAM
- 02 ◯ 50 KG BAG
- 04 ◯ PAIL (SMALL)
- 05 ◯ PAIL (LARGE)
- 06 ◯ NO 10 PLATE
- 07 ◯ NO 12 PLATE
- 08 ◯ BUNCH
- 09 ◯ PIECE
- 10 ◯ BALE
- 12 ◯ OX-CART
- 13 ◯ OTHER (SPECIFY)

Q02b_oth. SPECIFY UNIT

E ag_q02b==13

TEXT ag_q02b_oth

.....

Q02c. S/U

E ag_q02a>0

SINGLE-SELECT ag_q02c

- 01 ◯ S: SHELLED
- 02 ◯ U: UNSHELLED
- 03 ◯ NOT APPLICABLE

Q03. What was the total value of all tree/permanent crop (%rostertitle%) sales during the last 12 months?

I ESTIMATE THE VALUE OF IN-KIND PAYMENTS. MK

E ag_q01==1

NUMERIC: INTEGER ag_q03

.....

Q05. Who/What were the main buyers/outlets for your tree/permanent crop (%rostertitle%) sales?

E ag_q01==1

MULTI-SELECT ag_q05

- 01 ☐ Village headman/chief
- 04 ☐ Group village headman/chief
- 05 ☐ Traditional Authority
- 07 ☐ Village development committee

08 ☐ Area development committee

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

Q06. Who in your household kept/decided what to do with these earnings?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER
E ag_q01==1

MULTI-SELECT: LINKED ag_q06

Q07a. When was most of the crop (%rostertitle%) sold during the last 12 months?

I MONTH
E ag_q01==1

SINGLE-SELECT: COMBO BOX ag_q07a

01 ◯ JANUARY

02 ◯ FEBRUARY

03 ◯ MARCH

04 ◯ APRIL

05 ◯ MAY

06 ◯ JUNE

07 ◯ JULY

08 ◯ AUGUST

09 ◯ SEPTEMBER

10 ◯ OCTOBER

11 ◯ NOVEMBER

12 ◯ DECEMBER

Q07b. YEAR (4-DIGIT)

E ag_q01==1
V1 $seasonyear_range
M1 Reported year is out of range. Please confirm.

NUMERIC: INTEGER ag_q07b

.....

Q08. Approximately how many transactions took place while selling tree/permanent crop(%rostertitle%) TO [LARGEST BUYER/ OUTLET] during the last 12 months?

I NUMBER OF TRANSACTIONS
E ag_q01==1

NUMERIC: INTEGER ag_q08

.....

Q09.What was the main mode of transportation associated with all tree/permanent crop (%rostertitle%) sales during the last 12 months?

I READ RESPONSES

E ag_q01==1

SINGLE-SELECT ag_q09

01 ◯ On Foot

02 ◯ Bicycle Taxi

03 ◯ Own Bicycle or Oxcart

04 ◯ Truck / Bus/ Minibus

05 ◯ Buyer picked up the crop

06 ◯ Other (Specify)

Q09_oth. Specify the main mode of transportation.

E ag_q09==6

TEXT ag_q09_oth

.....

Q10. What was the total cost of transportation associated with all tree/permanent crop (%rostertitle%) sales during the last 12 months?

I IN MK. INCLUDE ALL TRIPS FROM AND BACK TO THE FARM. IF NOTH ING, RECORD ZERO.

E ag_q01==1

NUMERIC: INTEGER ag_q10

.....

[AG-Q]: TREE/PERMANENT CROP SALES AND STORAGE / SALES/STORAGE CROP ROSTER

ALTERNATIVE USES

Q31a.How much of the harvested tree/permanent crop (%rostertitle%) during the last 12 months was given out as gifts or reimbursements for land, labour?

I QUANTITY. EXCLUDE REIMBURSEMENTS FOR INPUTS BORROWED / ACQUIRED ON CREDIT. IF NOTHING, RECORD ZERO AND CONTINUE TO 32.

NUMERIC: INTEGER ag_q31a

.....

Q31b. UNIT

E ag_q31a>0

SINGLE-SELECT: COMBO BOX ag_q31b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

Q31b_oth. SPECIFY UNIT

TEXT ag q31b oth

E ag_q31b==13

Q31c. S/U

SINGLE-SELECT ag_q31c

E ag_q31a>0

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

Q32a. How much of the harvested tree/permanent crop (%rostertitle%) during the last 12 months was given out as reimbursements for inputs borrowed or acquired on credit?

NUMERIC: INTEGER ag q32a

I QUANTITY. IF NOTHING, RECORD ZERO AND CONTINUE TO 33.

Q32b. UNIT

SINGLE-SELECT: COMBO BOX ag q32b

E ag_q32a>0

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

Q32b_oth. SPECIFY UNIT

TEXT ag q32b oth

E ag_q32b==13

Q32c. S/U

E ag_q32a>0

SINGLE-SELECT ag q32c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

Q33a. How much of the harvested tree/permanent crop (%rostertitle%) during the last 12 months was used as input for [TREE/ PERMANENT CROP] by-products that your household sold, if any, in the market?

I QUANTITY. EXCLUDE CROP USED AS INPUT FOR OWN-PRODUCED BY-PRODUCTS CONSUMED AT HOME. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 34.

NUMERIC: INTEGER ag q33a

.....

Q33b. UNIT

E ag_q33a>0

SINGLE-SELECT: COMBO BOX ag q33b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

Q33b_oth. SPECIFY UNIT

E ag_q33b==13

TEXT ag q33b oth

.....

Q33c. S/U

E ag_q33a>0

SINGLE-SELECT ag_q33c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

Q34a. How much of the harvested tree/permanent crop (%rostertitle%) during the last 12 months was saved for seed?

I QUANTITY. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CON TINUE TO 35. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WH ETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

NUMERIC: INTEGER

ag q34a

.....

Q34b. UNIT

E ag_q34a>0

SINGLE-SELECT: COMBO BOX

ag q34b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

Q34b_oth. SPECIFY UNIT

E ag_q34b==13

TEXT

ag q34b oth

.....

Q34c. S/U

E ag_q34a>0

SINGLE-SELECT

ag q34c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

Q35a. How much of the the harvested tree/permanent crop (%rostertitle%) during the last 12 months was lost to rotting, insects, rodents, theft, etc. in the post-harvest period?

I FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE RE PORTED VALUE IS SHELLED OR UNSHELLED. FIRST OPTION QUANT ITY FILL IN OPTION 2/PERCENTAGE ONLY IF THE FARMER CANNOT PROVIDE AN APPROXIMATE QUANT And 71 other symbols [18]

NUMERIC: INTEGER

ag q35a

.....

SINGLE-SELECT: COMBO BOX

ag q35b

Q35b. OPTION 1 UNIT

E `ag_q35a>0`

01 ◯ KILOGRAM
02 ◯ 50 KG BAG
04 ◯ PAIL (SMALL)
05 ◯ PAIL (LARGE)
06 ◯ NO 10 PLATE
07 ◯ NO 12 PLATE
08 ◯ BUNCH
09 ◯ PIECE
10 ◯ BALE
12 ◯ OX-CART
13 ◯ OTHER (SPECIFY)

Q35b_oth. SPECIFY UNIT

E `ag_q35b==13`

TEXT `ag_q35b_oth`

.....

Q35c. OPTION 1 S/U

E `ag_q35a>0`

SINGLE-SELECT `ag q35c`

01 ◯ S: SHELLED
02 ◯ U: UNSHELLED
03 ◯ NOT APPLICABLE

Q35d. OPTION 2PERCENTAGE

V1 `self.InRange(1,100) && !(ag_q35a.HasValue)`
M1 Please enter a valid percentage between 1 and 100 AND/OR only fill out option 1 or option 2.

NUMERIC: INTEGER `ag q35d`

.....

Q36. What was the reason for loss?

I READ RESPONSES. LIST UP TO 2.
E `ag_q35a!=0 || ag_q35d!=0`

MULTI-SELECT: ORDERED `ag q36`

01 ☐ Rotting
02 ☐ Insects
03 ☐ Rodents/Pests
04 ☐ Flood
05 ☐ Theft
06 ☐ Other (Specify)

Q36_oth. Specify the reason for loss.

E ag_q36.Contains(6)

TEXT ag_q36_oth

[AG-Q]: TREE/PERMANENT CROP SALES AND STORAGE / SALES/STORAGE CROP ROSTER

STORAGE

Q37. Do you have any of the harvested tree/permanent crop (%rostertitle%) in storage now?

SINGLE-SELECT ag_q37

01 ◯ YES

02 ◯ NO

Q38. What is your main method of storage for this crop?

I READ RESPONSES

E ag_q37==1

SINGLE-SELECT ag_q38

01 ◯ Unprotected pile

02 ◯ Heaped in house

03 ◯ Bags in house

04 ◯ Chitandala in house

05 ◯ Chitandala outside

06 ◯ Traditional Nkhokwe

07 ◯ Improved Nkhokwe

08 ◯ Metallic Silo

09 ◯ Other (Specify)

Q38_oth. Specify your main method of storage for this tree/permanent crop.

E ag_q38==9

TEXT ag_q38_oth

Q39a. How much of the harvested tree/permanent crop (%rostertitle%) during the REFERENCE SEASON season is being stored by your household?

I QUANTITY

E ag_q37==1

NUMERIC: INTEGER ag_q39a

Q39b. UNIT

E ag_q39a>0

SINGLE-SELECT: COMBO BOX ag_q39b

01 ◯ KILOGRAM

02 ◯ 50 KG BAG

04 ◯ PAIL (SMALL)

05 ◯ PAIL (LARGE)

06 ◯ NO 10 PLATE

07 ◯ NO 12 PLATE

08 ◯ BUNCH

09 ◯ PIECE

10 ◯ BALE

12 ◯ OX-CART

13 ◯ OTHER (SPECIFY)

Q39b_oth. SPECIFY UNIT

E ag_q39b==13

TEXT ag_q39b_oth

.....

Q39c. S/U

E ag_q39a>0

SINGLE-SELECT ag q39c

01 ◯ S: SHELLED

02 ◯ U: UNSHELLED

03 ◯ NOT APPLICABLE

Q40. What did you do to protect the stored tree/permanent crop (%rostertitle%)?

I READ RESPONSES. LIST UP TO 2.

E ag_q37==1

MULTI-SELECT: ORDERED ag q40

01 ☐ Spraying

02 ☐ Smoking

03 ☐ Hired Guard

04 ☐ Magic (Kutsirika)

05 ☐ Did Nothing

06 ☐ Other (Specify)

Q40_oth. Specify what you do to protect the stored crop (%rostertitle%).

E ag_q40.Contains(6)

TEXT ag q40 oth

.....

Q41. In general, when you store tree/permanent crop (%rostertitle%), what is usually the main purpose for storing it?

I READ RESPONSES. LIST UP TO 2.

MULTI-SELECT: ORDERED ag q41

01 ☐ Food for household

02 ☐ To sell at a higher price

03 ☐ Seed for planting

04 ☐ Render payments in-kind

05 ☐ Wait for the arrival of buyer

06 ☐ Does not usually store

07 ☐ Other (Specify)

Q41_oth. Specify what is usually the main purpose for storing the crop.

E `ag_q41.Contains(7)`

TEXT `ag q41 oth`

[AG-R] LIVESTOCK

A. Did you or anyone in your household own any livestock in the last 12 months?

V1 `//cross section ((ag_ra==1 && hh_x07==1) || (ag_ra==2 && hh_x07==2))`

M1 Response does not match response in module X. Please confirm.

SINGLE-SELECT `ag ra`

01 ◯ YES

02 ◯ NO

[AG-R] LIVESTOCK

Roster: LIVESTOCK

generated by fixed list

`ag_r01`

01 Cows, Traditional cattle

02 Cows, Improved breed cattle

03 Calfs, traditional cattle

04 Calfs, improved breed

05 Steer/heifer, traditional cattle

06 Steer/heifer, improved breed

07 Ox/bull, traditional cattle

08 Ox/bull, improved breed

09 Sheep

10 Goats

11 Donkey/mule/horse

12 Chicken, traditional

13 Chicken, broiler

14 Pigeons/doves

15 Pigs

16 Other

Specify the other type of livestock.

TEXT `ag r01 oth`

E @rowcode==16

R01_1. What are the household's major purposes for owning/keeping %rostertitle%?

I Select main purpose first

MULTI-SELECT: ORDERED ag r01 1

01 ☐ Sale of adult animals
02 ☐ Sale of young animals
03 ☐ Sale of livestock products
04 ☐ Food for the family
05 ☐ Cope with unexpected expenditures
06 ☐ Cope with seasonal expenditures
07 ☐ Draught power
08 ☐ Manure
09 ☐ Transport
10 ☐ Wealth status
11 ☐ Savings
12 ☐ Wage
13 ☐ Reproduction
14 ☐ Other/specify

R02. How many %rostertitle% are owned by your household now (present at your farm or away)?

I IF NONE, RECORD ZERO

NUMERIC: INTEGER ag r02

R04. If you wanted to sell one of the %rostertitle% today, how much would you receive from the sale?

I IN MK
E ag_r02>0

NUMERIC: INTEGER ag r04

R05. Who in your household owns %rostertitle%?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER
E ag_r02>0

MULTI-SELECT: LINKED ag r05

R06. Who in your household is responsible for feeding/taking care of %rostertitle%?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER
E ag_r02>0

MULTI-SELECT: LINKED ag r06

R07. How many %rostertitle% did your household own exactly 12 months ago?

I NUMBER

NUMERIC: INTEGER ag_r07

R08. During the last 12 months, how many %rostertitle% were born?

I NUMBER. IF NONE, RECORD ZERO
E ag_r02>0

NUMERIC: INTEGER ag_r08

R09_1. During the last 12 months, how many %rostertitle% did your household receive as gifts or payment for services rendered?

I NUMBER. INCLUDE THOSE FROM NGOs. IF NONE, RECORD ZERO.

NUMERIC: INTEGER ag_r09_1

R10. During the last 12 months, how many %rostertitle% did your household buy to raise?

I IF NONE, RECORD ZERO

NUMERIC: INTEGER ag_r10

R11. What was the total value of %rostertitle% purchases during the last 12 months?

I IN MK. ESTIMATE THE VALUE OF IN-KIND PAYMENTS
E ag_r10.HasValue?ag_r10!=0:true

NUMERIC: INTEGER ag_r11

R12. From whom did your household purchase most %rostertitle% purchased during the last 12 months?

I LIST UP TO 2 FROM NETWORK ROSTER
E ag_r10.HasValue?ag_r10!=0:true

MULTI-SELECT ag_r12

11 ☐ Private dealer
12 ☐ Neighbour
13 ☐ Relative
14 ☐ Clan leader
15 ☐ Not applicable

R14. During the last 12 months, how many %rostertitle% did your household give away as gifts or payment for services received?

I NUMBER. IF NONE, RECORD ZERO

NUMERIC: INTEGER ag_r14

R15. During the last 12 months, how many %rostertitle% got lost or stolen?

I NUMBER. IF NONE, RECORD ZERO.

NUMERIC: INTEGER ag_r15

R16. During the last 12 months, how many

NUMERIC: INTEGER ag_r16

have you sold alive?

I NUMBER. IF NONE, RECORD ZERO

.....

R17. What was the total value of %rostertitle% sales during the last 12 months?

I IN MK. ESTIMATE THE VALUE OF IN-KIND PAYMENTS.

E ag_r16.HasValue?ag_r16!=0:true

NUMERIC: INTEGER ag_r17

.....

R18. To whom did your household sell most of %rostertitle% sold during the last 12 months?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_r16.HasValue?ag_r16!=0:true

MULTI-SELECT ag_r18

01 ☐ Village headman/chief

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

R19. During the last 12 months, how many %rostertitle% did your household slaughter for sales or consumption?

I IF NONE, RECORD ZERO

NUMERIC: INTEGER ag_r19

.....

R20. During the last 12 months, did any %rostertitle% suffer from any disease or injury?

SINGLE-SELECT ag_r20

01 ◯ YES

02 ◯ NO

R21. During the last 12 months, what was the main disease/injury %rostertitle% suffered from? How many %rostertitle% were lost to this disease/injury?

I DISEASE CODE. REFER TO THE DISEASE CODES AT THE END OF TH E MODULE. RECORD THE NUMBER OF LIVESTOCK LOST SEPARATEL Y FOR EACH DISEASE/INJURY.

E ag_r20==1

SINGLE-SELECT: COMBO BOX ag_r21a

01 ◯ AVIAN INFLUENZA

02 ◯ COCCIDIOSIS (Kamwazi)

03 ◯ FOWL CHOLERA

04 ◯ FOWL POX(Nthomba)

05 ◯ FOWL TYPHOID

06 ◯ GUMBORO (Khuputo)

07 ◯ NEW CASTTLE (Chitopa, Chidelu)

08 ◯ BLACK HEAD

09 ◯ MAREKS DISEASE

10 ◯ INFECTIOUS BROCHNITIES

11 ◯ INFECTIOUS LARYNGEAL TRACHEITIS

12 ◯ MYCOPLASMOSIS

13 ◯ INFECTIOUS CORYZA

14 ◯ ASPERGILLOSIS

16

◯ EAST COST FEVER (Chigodola cha ng'ombe)

17 ◯ HEART WATER(Khunyu)

And 18 other [26]

NUMBER LOST

E ag_r20==1

NUMERIC: INTEGER ag_r21b

.....

R21_1. Was the animal treated?

E ag_r20==1

SINGLE-SELECT ag r21 1

01 ◯ YES

02 ◯ NO

R21_2. Who treated this animal?

E ag_r21_1==1

MULTI-SELECT ag r21 2

01 ☐ Village headman/chief

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

10 ☐ ADMARC depot

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

14 ☐ Clan leader

17 ☐ Veterinary extension officer

R22. How many of your %rostertitle% are currently vaccinated?

I NUMBER. IF NONE, RECORD ZERO

NUMERIC: INTEGER ag_r22

.....

R23. Who provided the vaccination services for %rostertitle%?

I LIST UP TO 2 FROM NETWORK ROSTER

E ag_r22.HasValue?ag_r22!=0:true

MULTI-SELECT ag r23

02 ☐ Agricultural extension worker

03 ☐ Lead farmer

11 ☐ Private dealer

12 ☐ Neighbour

13 ☐ Relative

17 ☐ Veterinary extension officer

[AG-S] LIVESTOCK PRODUCTS

S01. Did your household produce any [PRODUCT] during the last 12 months?

I RECORD AN ANSWER FOR EACH TYPE OF LIVESTOCK PRODUCT BEFORE GOING THROUGH THE ENTIRE MODULE FOR EACH APPLICABLE ROW, ONE ROW AT A TIME.

MULTI-SELECT: YES/NO ag_s01

401 ☐/☐ COW MILK

402 ☐/☐ CHICKEN EGGS

403 ☐/☐ GUINEA FOWL EGGS

404 ☐/☐ MEAT

406 ☐/☐ SKINS AND HIDES

407 ☐/☐ MANURE

408 ☐/☐ OTHER (SPECIFY)

[AG-S] LIVESTOCK PRODUCTS

Roster: LIVESTOCK PRODUCTS

generated by multi-select question ag_s01

livestockProducts

S02. During the last 12 months, for how many months did your household produce any %rostertitle%?

I NUMBER OF MONTHS

V1 self.InRange(1,12)

M1 Please enter a valid number of months.

NUMERIC: INTEGER ag_s02

.....

S03. During these months, what was the average quantity of %rostertitle% produced per month?

I QUANTITY/MONTH

NUMERIC: INTEGER ag_s03a

.....

UNIT

E ag_s03a>0

SINGLE-SELECT: COMBO BOX ag_s03b

01 ◯ LITRE

02 ◯ KILOGRAM

03 ◯ PIECE

04 ◯ BUCKET

05 ◯ WHEELBARROW

06 ◯ OXCART

07 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_s03b==7

TEXT ag_s03b_oth

.....

S04. Did you sell any of the %rostertitle% that you produced in the last 12 months?

SINGLE-SELECT ag_s04

01 ◯ YES

02 ◯ NO

S05. How much of the %rostertitle% produced did you sell in the last 12 months?

I QUANTITY

E ag_s04==1

NUMERIC: INTEGER ag_s05a

.....

UNIT

E ag_s05a>0

SINGLE-SELECT: COMBO BOX ag_s05b

01 ◯ LITRE

02 ◯ KILOGRAM

03 ◯ PIECE

04 ◯ BUCKET

05 ◯ WHEELBARROW

06 ◯ OXCART

07 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_s05b==7

TEXT ag_s05b_oth

.....

S06. What was the total value of sales of %rostertitle% in the last 12 months?

I NUMBER. ESTIMATE THE VALUE OF IN-KIND PAYMENTS.

E ag_s04==1

NUMERIC: INTEGER ag_s06

.....

S07. Who in your household kept/decided what to do with the earnings from %rostertitle%?

I LIST UP TO 2 FROM HOUSEHOLD ROSTER

E ag_s04==1

MULTI-SELECT: LINKED ag_s07

S08. To whom did you sell most %rostertitle% that you sold?

E ag_s04==1

MULTI-SELECT ag_s08

- 01 ☐ Village headman/chief
- 02 ☐ Agricultural extension worker
- 03 ☐ Lead farmer
- 04 ☐ Group village headman/chief
- 05 ☐ Traditional Authority
- 06 ☐ Community police
- 11 ☐ Private dealer
- 12 ☐ Neighbour
- 13 ☐ Relative
- 14 ☐ Clan leader
- 17 ☐ Veterinary extension officer

S09. How much of the %rostertitle% produced did your household consume in the last 12 months?

I QUANTITY. IF NOTHING, RECORD ZERO FOR "QUANTITY".

NUMERIC: INTEGER ag_s09

.....

UNIT

E ag_s09>0

SINGLE-SELECT: COMBO BOX ag_s09b

- 01 ◯ LITRE
- 02 ◯ KILOGRAM
- 03 ◯ PIECE
- 04 ◯ BUCKET
- 05 ◯ WHEELBARROW
- 06 ◯ OXCART
- 07 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_s09b==7

TEXT ag_s09b_oth

.....

S10. How much of the %rostertitle% produced did you give out in the last 12 months as gifts or reimbursements for land, labour or any other service received?

NUMERIC: INTEGER ag_s10a

.....

I QUANTITY. EXCLUDE REIMBURSEMENTS FOR INPUTS BORROWED / ACQUIRED ON CREDIT. IF NOTHING, RECORD ZERO.

UNIT

E ag_s10a>0

SINGLE-SELECT: COMBO BOX ag_s10b

01 ◯ LITRE
02 ◯ KILOGRAM
03 ◯ PIECE
04 ◯ BUCKET
05 ◯ WHEELBARROW
06 ◯ OXCART
07 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_s10b==7

TEXT ag_s10b_oth

S11. How much of the %rostertitle% produced did you give out in the last 12 months as reimbursements for inputs borrowed or acquired on credit?

I QUANTITY. IF NOTHING, RECORD ZERO FOR "QUANTITY"

NUMERIC: INTEGER ag_s11a

UNIT

E ag_s11a>0

SINGLE-SELECT: COMBO BOX ag_s11b

01 ◯ LITRE
02 ◯ KILOGRAM
03 ◯ PIECE
04 ◯ BUCKET
05 ◯ WHEELBARROW
06 ◯ OXCART
07 ◯ OTHER (SPECIFY)

SPECIFY UNIT

E ag_s11b==7

TEXT ag_s11b_oth

S12. Did you incur any expenses, such as labor costs, additional inputs, transport, etc. in the production of %rostertitle% in the last 12 months?

SINGLE-SELECT ag_s12

01 ◯ YES
02 ◯ NO

S13. What was the total value of these additional expenses?

NUMERIC: INTEGER

ag_s13

I IN MK
E ag_s12==1

ENUMERATOR: RECORD PRIMARY RESPONDENT ID FOR MODULE S:

SINGLE-SELECT: LINKED

moduleAgS respondent

[AG-T] ACCESS TO EXTENSION SERVICES

T01. During the [REFERENCE RAINY SEASON], did you or anyone in your household receive any advice on…

MULTI-SELECT: YES/NO

ag_t01

301 ☐/☐ New Seed Varieties

302 ☐/☐ Pest Control

303 ☐/☐ Fertilizer Use

304 ☐/☐ Pit Planting

305 ☐/☐ Irrigation

306 ☐/☐ Composting

307 ☐/☐ Marketing/Crop Sales

308 ☐/☐ Growing/Selling Tobacco

309 ☐/☐ Access to Credit

310 ☐/☐ Forestry

311 ☐/☐ General Animal Care

312 ☐/☐ Animal Diseases / Vaccination

313 ☐/☐ Fishery Production

314 ☐/☐ Contract Farming

315 ☐/☐ Agroforestry

316 ☐/☐ Other SPECIFY

[AG-T] ACCESS TO EXTENSION SERVICES

Roster: ADVICE

generated by multi-select question ag_t01

receiveAdvice

T01_O1. Specify the other topic you or anyone in your household receive any advice on.

E @rowcode==316

TEXT ag t01 oth

.....

T01_O2. Specify the second other topic (if relevant) you or anyone in your household receive any advice on.

E @rowcode==316

TEXT ag t01 oth2

.....

T02. What was the main source of the advice on %rostertitle%?

SINGLE-SELECT: COMBO BOX ag_t02

01 ◯ Gov Agricultural Extension Service
02 ◯ Private Agricultural Extension Service
03 ◯ Gov Fishery Extension Service
04 ◯ NGO
05 ◯ Agricultural Coop/Farmers' Assoc
06 ◯ Fishing Coop
07 ◯ Farmer Field Days/Field School
08 ◯ Village Agricultural Extension Meeting
09 ◯ Agricultural Extension Course
10 ◯ Lead Farmer
11 ◯ Other Farmer(Neighbor/Relative)
12 ◯ Electronic Media (TV, Radio, Etc)
13 ◯ Paper Media (Handouts / Flyers)
14 ◯ Other (Specify)

T03. Did you follow the advice received on %rostertitle%?

SINGLE-SELECT ag t03

01 ◯ YES
02 ◯ NO

[AG-T] ACCESS TO EXTENSION SERVICES

SOURCES OF ADVICE

SOURCES OF ADVICE

MULTI-SELECT ag t02b

01 ☐ Gov Agricultural Extension Service

02 ☐ Private Agricultural Extension Service

04 ☐ NGO

05 ☐ Agricultural Coop/Farmers' Assoc

07 ☐ Farmer Field Days/Field School

08 ☐ Village Agricultural Extension Meeting

09 ☐ Agricultural Extension Course

10 ☐ Lead Farmer

11 ☐ Other Farmer(Neighbor/Relative)

12 ☐ Electronic Media (TV, Radio, Etc)

13 ☐ Paper Media (Handouts / Flyers)

14 ☐ Other (Specify)

[AG-T] ACCESS TO EXTENSION SERVICES / SOURCES OF ADVICE

Roster: SOURCES OF ADVICE

adviceSource

generated by multi-select question ag_t02b

Specify other source

TEXT — ag t02b oth

E @rowcode==14

.....

T05. Who in your household received advice / information through %rostertitle% during the last 12 months?

MULTI-SELECT: LINKED — ag t05

T05_1. Did the household member(s) request or otherwise demand the advice from this %rostertitle%?

SINGLE-SELECT — ag t05 1

01 ◯ YES

02 ◯ NO

T06. How many times did someone from %rostertitle% visit your farm during the last 12 months? How many of these visits were solicited?

NUMERIC: INTEGER — ag_t06a

I IF NONE, RECORD ZERO IN BOTH FIELDS. TOTAL NUMBER OF VISITS

E ! (/* farmer field school */ @rowcode==7 || /* village ag extension meeting */ @rowcode==8 || /* ag extension course */ @rowcode==9 || /* lead farmer */ @rowcode==10 || /* other farmer */ @rowcode==1
And 76 other symbols [2]

.....

NUMBER OF UNSOLICITED VISITS

NUMERIC: INTEGER — ag_t06b

E ! (/* farmer field school */ @rowcode==7 || /* villa ge ag extension meeting */ @rowcode==8 || /* ag exten sion course */ @rowcode==9 || /* lead farmer */ @rowc ode==10 || /* other farmer */ @rowcode==1
And 76 other symbols [3]

T07. How many times did you or any member of your household visit or meet with the %rostertitle% at a location other than your dwelling or your plots during the last 12 months?

NUMERIC: INTEGER ag t07

I NUMBER. RECORD THE TOTAL FOR THE ENTIRE HH. IF NONE, RECO RD ZERO

E ! (/* farmer field school */ @rowcode==7 || /* villa ge ag extension meeting */ @rowcode==8 || /* ag exten sion course */ @rowcode==9 || /* lead farmer */ @rowc ode==10 || /* other farmer */ @rowcode==1
And 76 other symbols [4]

V1 self.InRange(0,30)

M1 Number entered seems too high. Please confirm number was correctl y recorded.

T08. How many times did you or any member of your household attend source (%rostertitle%) in the last 12 months?

NUMERIC: INTEGER ag t08

I NUMBER. RECORD THE TOTAL FOR THE ENTIRE HH. IF NONE, RECO RD ZERO

E !(/* gov ag extension */ @rowcode==1 || /* private a g extension */ @rowcode==2 || /* gov fishery extensio n */ @rowcode==3 || /* ngo */ @rowcode==4 || /* ag co op */ @rowcode==5 || /* fishing coop */ @
And 154 other symbols [5]

V1 self.InRange(0,30)

M1 Number entered seems too high. Please confirm number was correctl y recorded.

T09. Did you or any member of your household pay anything in order to receive any type of advice / information from %rostertitle% during the last 12 months?

SINGLE-SELECT ag t09

01 ◯ YES

02 ◯ NO

E !(/* electronic media */ @rowcode==12 || /* paper me dia */ @rowcode==13)

T10. How much in total did your household pay to receive advice / information from %rostertitle% during the last 12 months?

NUMERIC: INTEGER ag_t10

I NUMBER. INCLUDE: ESTIMATED VALUE OF IN-KIND PAYMENTS

E !(/* electronic media */ @rowcode==12 || /* paper me dia */ @rowcode==13) && (ag_t09==1)

T11. On average, how useful was the advice / information received from source (%rostertitle%) source?

SINGLE-SELECT ag_t11

I READ RESPONSES

01 ◯ Useless

02 ◯ Not very useful

03 ◯ Useful

04 ◯ Very useful

[AG-U] LAND DISPOSITION

U0A. Has your household sold, given away, or lost any GARDENS (both agricultural AND non-agricultural) in the last 10 years?

SINGLE-SELECT ag u0a

01 ◯ YES

02 ◯ NO

ENUMERATOR: PLEASE LIST ALL GARDENS THAT YOUR HOUSEHOLD HAS SOLD, GIVEN AWAY, OR LOST IN THE LAST 10 YEARS. PLEASE NOTE THAT THESE GARDENS DO NOT CORRESPOND TO ANY GARDENS PREVIOUSLY LISTED IN THE QUESTIONNAIRE

E `ag_u0a == 1`

LIST ag u0b

[AG-U] LAND DISPOSITION

Roster: LAND DISPOSITION ROSTER

generated by list question `ag_u0b`

landDispositionRoster

U01. How did your household acquire this garden (%rostertitle%)?

SINGLE-SELECT: COMBO BOX ag_u01

01 ◯ GRANTED BY LOCAL LEADERS

02 ◯ INHERITED

03 ◯ BRIDE PRICE

04 ◯ PURCHASED WITH TITLE

05 ◯ PURCHASED WITHOUT TITLE

11 ◯ OTHER (SPECIFY)

U01_oth. Please specify the other way your household acquired this garden.

E `ag_u01==11`

TEXT ag u01 oth

U01_1. In what year did your household acquire this [GARDEN]?

V1 `self.InRange(1940,2017)`

M1 Please Specify a Valid Year

NUMERIC: INTEGER ag u01 1

U02. From whom did you acquire this garden (%rostertitle%)?

I LIST UP TO 2.

E `ag_u01.InList(2,3)`

MULTI-SELECT ag u02

01 ☐ Parents on husband's side

02 ☐ Parents on wife's side

03 ☐ Other relatives

04 ☐ Village headman allocation

05 ☐ Purchased

06 ☐ Other

U02_oth. If other, please specify:

E ag_u02. Contains(6)

TEXT ag u02 oth

U03. Who in this household owned this garden (%rostertitle%)?

I LIST UP TO 2 JOINT OWNERS FROM HOUSEHOLD ROSTER

MULTI-SELECT: LINKED ag u03

U04. What year did your household sell, give away, or lose this garden (%rostertitle%)?

I YEAR [4-DIGIT]

V1 self.InRange(2006,2017) || self==8888

M1 The year recorded seems unlikely. Please confirm.

NUMERIC: INTEGER ag_u04

U05a. What kind of land is or was this %rostertitle%)?

SINGLE-SELECT ag u05

01 ◯ AGRICULTURE

02 ◯ RESIDENTIAL

03 ◯ FOREST(ED)

04 ◯ PASTURE/GRAZING LAND

05 ◯ MINERAL LAND

06 ◯ OTHER (SPECIFY)

U05_oth. Please specify the other kind of land

E ag_u05 == 6

TEXT ag_u05_oth

U06. What is the area of this [GARDEN]?

I ENUMERATOR: ASK THE FARMER TO ESTIMATE THE AREA.

NUMERIC: DECIMAL ag u06a

UNIT

SINGLE-SELECT: COMBO BOX ag u06b

01 ◯ ACRE

02 ◯ HECTARE

03 ◯ SQUARE METERS

04 ◯ YARDS

05 ◯ OTHER (SPECIFY)

UNIT_oth. Please specify the other unit

E ag_u06b == 5

TEXT ag_u06b_oth

.....

U07. How did your household part with this [GARDEN]?

SINGLE-SELECT: COMBO BOX ag_u07

01 ◯ SOLD

02 ◯ GIVEN AWAY

03 ◯ TAKEN BY LOCAL AUTHORITIES

04 ◯ TAKEN BY GOVERNMENT

05 ◯ TAKEN BY INDIVIDUALS

06 ◯ ABANDONED

07 ◯ TRADED FOR ANOTHER PLOT

08 ◯ OTHER SPECIFY)

Please specify how else your household parted with this garden

E ag_u07==8

TEXT ag_u07_oth

.....

U08. Who purchased, received, or took this garden (%rostertitle%)?

I LIST UP TO 2.

E ag_u07.InList(1,2)

MULTI-SELECT ag_u08

01 ☐ Sold to neighbor

02 ☐ Sold to other person in the village

03 ☐ Sold to outsider

04 ☐ Taken by chief

05 ☐ Grabbed by relative

06 ☐ Grabbed by other person

07 ☐ Expropriated by government

08 ☐ Other

U08_oth. If other, please specify:

E ag_u08. Contains(8)

TEXT ag_u08_oth

.....

[AG-V] LAND TENURE

V0A. Do you or anyone in your household currently own any gardens (both agricultural AND non-agricultural)?

SINGLE-SELECT ag v0a

01 ◯ YES

02 ◯ NO

V01. ENUMERATOR: PLEASE LIST ALL GARDENS THAT YOUR HOUSEHOLD CURRENTLY OWNS

LIST ag v01

I COPY ALL NAMES OF GARDENS OWNED EXACTLY FROM THE RAINY SEASON, DRY SEASON AND TREE/PERMANENT CROPS USING THE PREFIXES PLUS THE NAMES. IF IT IS A NON-AGRICULTURAL PIECE OF LAND ASSIGN THE IDS "V01, V And 14 other symbols [19]

E ag_v0a==1

[AG-V] LAND TENURE

Roster: GARDENS CURRENTLY OWNED agroster_landtenure

generated by list question ag_v01

E ag_v0a==1

V02. Have you ever had any land dispute or disagreements with anyone over this?

SINGLE-SELECT ag v02

01 ◯ YES

02 ◯ NO

V02_1. In what year was the most recent dispute or disagreement over this [GARDEN]?

NUMERIC: INTEGER ag v02 1

E ag_v02==1

V1 self.InRange(1940,2017)

M1 Please Specify a Valid Year

V03. What was the nature of the most recent dispute or agreement over this %rostertitle%?

SINGLE-SELECT ag v03

E ag_v02==1

01 ◯ BOUNDARY DISPUTE

02 ◯ OWNERSHIP; INHERITANCE RELATED

03 ◯ OWNERSHIP: SALES RELATED

04 ◯ OWNERSHIP: EXPROPRIATION

05 ◯ OWNERSHIP: OTHER

06 ◯ RENTAL RELATED

07 ◯ OTHER (SPECIFY)

V03Oth. Please specify the nature of the most recent dispute or agreement over this %rostertitle%?

E ag_v03.InList(7)

TEXT ag v03oth

.....

V04. With whom was the most recent dispute or disagreement over this %rostertitle%?

E ag_v02==1

SINGLE-SELECT ag_v04

01 ◯ WITHIN FAMILY

02 ◯ OTHER PRIVATE

03 ◯ GOVERNMENT

04 ◯ OTHER SPECIFY)

V04Oth. Please specify with whom the most recent dispute or disagreement over this %rostertitle% was

E ag_v04.InList(4)

TEXT ag v04oth

.....

V05. Where did you first go for arbitration to resolve the most recent dispute or disagreement over this %rostertitle%?

E ag_v02==1

SINGLE-SELECT ag v05

01 ◯ NOWHERE

02 ◯ CLAN/ELDER

03 ◯ VILLAGE HEADMAN

04 ◯ NEIGHBORS

05 ◯ LC COURT

06 ◯ MAGISTRATE

07 ◯ TRIED TO SORT OUT THEMSELVES

V06. Why did you choose this level/office to resolve the most recent dispute or disagreement over this %rostertitle%?

E ag_v02==1

SINGLE-SELECT ag v06

01 ◯ MORE RESPONSIVE

02 ◯ EASILY ACCESSIBLE

03 ◯ MORE KNOWLEDGEABLE

04 ◯ PROTOCOL DICTATES

05 ◯ WAS PREFERRED/ ADVISED

06 ◯ LESS COSTLY

07 ◯ OTHER (SPECIFY)

SINGLE-SELECT ag v07

V07. Is the most recent dispute or disagreement over this %rostertitle% resolved?

E ag_v02==1

01 ◯ YES

02 ◯ NO

V08. Who resolved the most recent dispute or disagreement over this %rostertitle%?

E ag_v07==1

SINGLE-SELECT ag_v08

01 ◯ NO ONE

02 ◯ NEIGHBORS

03 ◯ CLAN/ELDER

04 ◯ VILLAGE HEADMAN

05 ◯ GROUP VILLAGE CHIEF/HEADMAN

06 ◯ TRADITIONAL AUTHORITY

07 ◯ MAGISTRATE

08 ◯ OTHER (SPECIFY)

V08.Oth. Specify who resolved the most recent dispute or disagreement over this %rostertitle%?

E ag_v08.InList(8)

TEXT ag_v08oth

.....

V09. Were you satisfied with the resolution of the most recent dispute or disagreement over this %rostertitle%?

E ag_v07==1

SINGLE-SELECT ag_v09

01 ◯ YES

02 ◯ NO

V10. How much has/had the household spent in solving the most recent dispute or disagreement on this %rostertitle%? MWK

E ag_v02==1

NUMERIC: INTEGER ag_v10

.....

V11. How likely do you think it is that there will be disagreement over the ownership rights to this %rostertitle% in the next 5 years?

SINGLE-SELECT ag_v11

01 ◯ NOT AT ALL

02 ◯ SOMEWHAT LIKELY

03 ◯ LIKELY

04 ◯ VERY LIKELY

05 ◯ CERTAIN, FOR SURE

V12. What is the main concern?

E ag_v11.InList(2,3,4,5)

SINGLE-SELECT ag_v12

01 ◯ BOUNDARY DISPUTE

02 ◯ OWNERSHIP; INHERITANCE RELATED

03 ◯ OWNERSHIP: SALES RELATED

04 ◯ OWNERSHIP: EXPROPRIATION

05 ◯ OWNERSHIP: OTHER

06 ◯ RENTAL RELATED

V12Oth. Please specify the other concern.

E ag_v12.InList(5)

TEXT ag_v12oth

.....

V13. With whom will be the disagreement?

E ag_v11.InList(2,3,4,5)

SINGLE-SELECT ag_v13

01 ◯ WITHIN FAMILY

02 ◯ OTHER PRIVATE

03 ◯ GOVERNMENT

04 ◯ OTHER SPECIFY)

V13Oth. Please specify whom will be the disagreement

E ag_v13.InList(4)

TEXT ag_v13oth

.....

V14. How likely do you think it is that you possess this %rostertitle% in ten years?

SINGLE-SELECT ag_v14

01 ◯ NOT AT ALL

02 ◯ SOMEWHAT LIKELY

03 ◯ LIKELY

04 ◯ VERY LIKELY

05 ◯ CERTAIN, FOR SURE

V15. If the land tenure is insecure, what is the main agent(s)/source(s) of tenure insecurity on this %rostertitle%?

E ag_v11.InList(2,3,4,5)

SINGLE-SELECT ag_v15

01 ◯ NEIGHBORS

02 ◯ RELATIVES

03 ◯ OTHER VILLAGERS

04 ◯ INVESTORS

05 ◯ GOVERNMENT OFFICIALS

06 ◯ LOCAL GOVERNMENT

07 ◯ THE STATE

08 ◯ RELIGIOUS LEADER

09 ◯ OTHER (SPECIFY)

V15Oth. If tenure insecure, Please specify the main agent(s)/source(s) of tenure insecurity on this %rostertitle%?

TEXT ag_v15oth

E ag_v15.InList(9)

V16. What action can you take to protect yourself from loss of this %rostertitle%?

MULTI-SELECT ag v16

01 ☐ CULTIVATE THE LAND

02 ☐ INVEST ON THE LAND

03 ☐ OBTAIN FORMAL DOCUMENT

04 ☐ DEMARCATE PLOT BORDERS

05 ☐ AVOID FALLOWING

06 ☐ STAY ON THE FARM

07 ☐ DO NOT RENT OUT THE LAND

08 ☐ SEEK PROTECTION BY LEADERS

09 ☐ TRY TO SELL THE LAND

10 ☐ OTHER (SPECIFY)

V16Oth. Please specify the action you can take to protect yourself from loss of this %rostertitle%?

TEXT ag_v16oth

E ag_v16. Contains(10)

V17. In case your %rostertitle% is taken, do you expect compenstion for the land loss?

SINGLE-SELECT ag v17

01 ◯ YES

02 ◯ NO

03 ◯ DON'T KNOW

ENUMERATOR:RECORD END TIME FOR MODULE U: HOUR

NUMERIC: INTEGER moduleAGV endHr

V1 self.InRange(5,22)

M1 Please enter valid end hour.

NUMERIC: INTEGER moduleAGV endMin

MINUTES

V1 `self.InRange(0,59)`
M1 Please enter valid end minutes.

QUESTIONNAIRE WRAP-UP

COMMENTS ON INTERVIEW. REMEMBER THESE ARE THE ONLY COMMENTS THAT WILL BE EXPORTED TO THE MANAGEMENT TEAM SO ALL IMPORTANT NOTES MUST BE RECORDED HERE.

TEXT `comment`

APPENDIX A — ENABLING CONDITIONS

[1] hh_p02: P02. How much %rostertitle% did your household receive in total during the last 12 months?
Enablement Condition:

```
@rowcode==104 || @rowcode==105 || @rowcode==106 || @rowcode==107 || @rowcode==108 || @rowcode==109 ||
@rowcode==110 || @rowcode==111 || @rowcode==112 || @rowcode==113 || @rowcode==114 || @rowcode==115
```

[2] ag_t06a: T06. How many times did someone from %rostertitle% <u>visit your farm</u> during the last 12 months? How many of these visits were <u>solicited</u>?
Enablement Condition:

```
! (
/* farmer field school */
@rowcode==7 ||
/* village ag extension meeting */
@rowcode==8 ||
/* ag extension course */
@rowcode==9 ||
/* lead farmer */
@rowcode==10 ||
/* other farmer */
@rowcode==11 ||
/* electronic media */
@rowcode==12 ||
/* paper media */
@rowcode==13
)
```

[3] ag_t06b: NUMBER OF UNSOLICITED VISITS
Enablement Condition:

```
! (
/* farmer field school */
@rowcode==7 ||
/* village ag extension meeting */
@rowcode==8 ||
/* ag extension course */
@rowcode==9 ||
/* lead farmer */
@rowcode==10 ||
/* other farmer */
@rowcode==11 ||
/* electronic media */
@rowcode==12 ||
/* paper media */
@rowcode==13
)
```

[4] ag_t07: T07. How many times did you or any member of your household <u>visit or meet with the %rostertitle% at a location other than your dwelling or your plots</u> during the last 12 months?
Enablement Condition:

```
! (
/* farmer field school */
@rowcode==7 ||
/* village ag extension meeting */
@rowcode==8 ||
/* ag extension course */
@rowcode==9 ||
/* lead farmer */
@rowcode==10 ||
/* other farmer */
@rowcode==11 ||
/* electronic media */
@rowcode==12 ||
/* paper media */
@rowcode==13
)
```

[5] ag_t08: T08. How many times did you or any member of your household attend source (%rostertitle%) in the last 12 months?
Enablement Condition:

```
!(
/* gov ag extension */
@rowcode==1 ||
/* private ag extension */
@rowcode==2 ||
/* gov fishery extension */
@rowcode==3 ||
/* ngo */
@rowcode==4 ||
/* ag coop */
@rowcode==5 ||
/* fishing coop */
@rowcode==6 ||
/* lead farmer */
@rowcode==10 ||
```

```
/* other farmer */
@rowcode==11 ||
/* electronic media */
@rowcode==12 ||
/* paper media */
@rowcode==13
)
```

APPENDIX B — VALIDATION CONDITIONS AND MESSAGES

[1] hh_c22a: C22a. How much was spent on %rostertitle%'s education in the last 12 months by the household, family, and friends for: Tuition, ~~Tutoring, Books & Stationary, School uniform, Boarding fees, Transport to/from school & Other contributions to the school?~~
~~Validation Condition:~~

```
(hh_c12.InList(1,2,3,4,5,6,7,8) && (((double?)self).InRange(0,90000)))
||
(hh_c12.InList(9,10,11,12,13,14) && (((double?)self).InRange(5000,200000)||self==0))
||
(hh_c12.InList(15,16,17,18,19,20,21,22,23) && (((double?)self).InRange(25000,700000)||self==0))

|| self==999999
```

Validation Message: Value out of range. Please enter a valid tuition expenditure amount.

[2] hh_e26b: E26b. What period of time does each of %rostertitle%'s salary payments cover?
~~Validation Condition:~~

```
/* range of e25, by district */

// then evaluate this perform this validation
(new Func<bool>(() =>
{

    // extract the upper and lower bounds for e25
    var e25val = rangeE25.Values.FirstOrDefault(x => x.district_code== (double) hh_a01 && x.hh_e26b_period==
(double) hh_e26b);
    // if no entry for district-period, return true
    if (e25val==null) return true;

    // determine whether e25 is between  upper and lower bounds
    return (hh_e25 > e25val.Lower) && (hh_e25 < e25val.Upper);

})).Invoke()
```

Validation Message: Payment value seems unlikely. Please check.

[3] hh_e28b: E28b. Over what period of time is %rostertitle% reporting his / her allowances and gratuity payments?
~~Validation Condition:~~

```
/* range of e27, by district */

// then evaluate this perform this validation
(new Func<bool>(() =>
{

    // extract the upper and lower bounds for e27
    var e27val = rangeE27.Values.FirstOrDefault(x => x.district_code== (double) hh_a01 && x.hh_e28b_period==
(double) hh_e28b);
    // if no entry for district-period, return true
    if (e27val==null) return true;

    // determine whether e27 is between  upper and lower bounds
    return (hh_e27 > e27val.Lower) && (hh_e27 < e27val.Upper);

})).Invoke()
```

Validation Message: Allowance amount seems unlikely. Please check

[4] hh_p03c: P03c. How much of %rostertitle% came from <u>international locations</u>?
~~Validation Condition:~~

```
(@rowcode==101 && hh_a03b==1) ? self.InRange(6000,500000)|| self==0 :
(@rowcode==102 && hh_a03b==1) ? self.InRange(3000,50000) || self==0 :
(@rowcode==103 && hh_a03b==1) ? self.InRange(5000,300000)|| self==0 :
(@rowcode==101 && hh_a03b==2) ? self.InRange(6000,300000)|| self==0 :
(@rowcode==102 && hh_a03b==2) ? self.InRange(3000,50000) || self==0 :
(@rowcode==103 && hh_a03b==2) ? self.InRange(5000,150000)|| self==0 :
true
```

Validation Message: Amount seems unlikely. Please confirm.

[5] ag_c04b: UNIT
~~Validation Condition:~~

```
// Check for outliers using IHPS data
(new Func<bool>(() =>
{
    // find the lower and upper bounds of the item for that unit
    var bounds = agc04bounds.Values.FirstOrDefault(x => x.unit == (double) ag_c04b);
    if (bounds==null) return true;  // Return true if no such unit

    // determine whether the plot area is within the
    // 5th and 95th percentile
    return (ag_c04a.InRange(bounds.lower,bounds.upper));
 })).Invoke()
```

Validation Message: Reported land area is unlikely. Please confirm.

[6] ag_d47a: D47a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people for any and all non-harvest activities, such as land preparation, planting, ridging, weeding and fertilizing, on this [PLOT]?
Validation Condition:

```
// Uses look up tables to flag outliers
// Tables derived from IHPS data
// Uses 5th and 95th percentile
(new Func<bool>(() =>
{
    // find the lower and upper bounds of the item for that unit
    var bounds = agD47bounds.Values.SingleOrDefault(x => x.type == (double) @rowcode);
    if (bounds == null) return true;

    if (ag_c04c == null) return true;
    // determine whether amount reported consumned is within the
    // 5th and 95th percentile
    return ((double?) ag_d47a).InRange(0,(bounds.upper_pax*(double)ag_c04c));
 })).Invoke()
```

Validation Message: The number of people hired to work on the plot seems to be too many. Please confirm that the number of people hired was correctly recorded.

[7] ag_d47b: D47b. What was the average daily wage paid to the people hired for any and all non-harvest activities?
Validation Condition:

```
// Uses look up tables to flag outliers
// Tables derived from IHPS data
// Uses 5th and 95th percentile
(new Func<bool>(() =>
{
    // find the lower and upper bounds of the item for that unit
    var bounds = agD47bounds.Values.SingleOrDefault(x => x.type == (double) @rowcode);
    if (bounds == null) return true;

    // determine whether amount reported consumned is within the
    // 5th and 95th percentile
    return ((double?) ag_d47b).InRange(0,bounds.upper_wage);
 })).Invoke()
```

Validation Message: The average daily wage paid to the workers seems too high. Please confirm that the average daily wage was recorded cor rectly.

[8] ag_d48a: D48a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people to work on this [PLOT] for harvesting?
Validation Condition:

```
// Uses look up tables to flag outliers
// Tables derived from IHPS data
// Uses 5th and 95th percentile
(new Func<bool>(() =>
{
    // find the lower and upper bounds of the item for that unit
    var bounds = agD48bounds.Values.SingleOrDefault(x => x.type == (double) @rowcode);
    if (bounds == null) return true;

    if (ag_c04c == null) return true;
    // determine whether amount reported consumned is within the
    // 5th and 95th percentile
    return ((double?) ag_d48a).InRange(0,(bounds.upper_pax*(double)ag_c04c));
 })).Invoke()
```

Validation Message: The number of people hired to work on the plot seems to be too many. Please confirm that the number of people hired was correctly recorded.

[9] ag_d48b: D48b. What was the average daily wage paid to the people hired for for harvesting?
Validation Condition:

```
// Uses look up tables to flag outliers
// Tables derived from IHPS data
// Uses 5th and 95th percentile
(new Func<bool>(() =>
{
    // find the lower and upper bounds of the item for that unit
    var bounds = agD48bounds.Values.SingleOrDefault(x => x.type == (double) @rowcode);
    if (bounds == null) return true;

    // determine whether amount reported consumned is within the
    // 5th and 95th percentile
    return ((double?) ag_d48b).InRange(0,bounds.upper_wage);
 })).Invoke()
```

Validation Message: The average daily wage paid to the workers seems too high. Please confirm that the average daily wage was recorded cor rectly.

[10] ag_e05b: E05b. YEAR (4-DIGIT)
Validation Condition:

```
/* year obtained must be within rainy season for recall years */

// if 2014/15 rainy season, must be within season
hh_x02==1 ? ag_e05a.InList(11,12,1,2,3,4) && ag_e05b.InList(2014,2015) :
```

```
// if 2015/16 rainy season
hh_x02==2 ? ag_e05a.InList(11,12,1,2,3,4) && ag_e05b.InList(2015,2016) :

true
```

Validation Message: Please enter a valid date

[11] ag_e08b: E08b. UNIT
~~Validation Condition:~~

```
/* if coupon type is CHITOWE or UREA, quantity must equal 50 */

// grams
ag_e07.InList(1,4) && ag_e08b==1 ? (ag_e08a/1000)==50 :

// 2 kg bag
ag_e07.InList(1,4) && ag_e08b==3 ? (ag_e08a*2)==50 :

// 3 kg bag
ag_e07.InList(1,4) && ag_e08b==4 ? (ag_e08a*3)==50 :

// 5 kg bag

ag_e07.InList(1,4) && ag_e08b==5 ? (ag_e08a*5)==50 :

// 10 kg bag

ag_e07.InList(1,4) && ag_e08b==10 ? (ag_e08a*10)==50 :

// 50 kg bag

ag_e07.InList(1,4) && ag_e08b==50 ? (ag_e08a*50)==50 :

true
```

Validation Message: Quantity of chitowe / urea is inconsistent with the coupon type. Please confirm.
Validation Condition:

```
/* if coupon type is maize seeds, quantity must be between 5 and 10 kg */

// grams
ag_e07.InList(12,15) && ag_e08b==1 ? (ag_e08a/1000).InRange(5,10) :

// 2 kg bag
ag_e07.InList(12,15) && ag_e08b==3 ? (2*ag_e08a).InRange(5,10) :

// 3 kg bag
ag_e07.InList(12,15) && ag_e08b==4 ? (3*ag_e08a).InRange(5,10) :

// 5 kg bag

ag_e07.InList(12,15) && ag_e08b==5 ? (5*ag_e08a).InRange(5,10) :

// 10 kg bag

ag_e07.InList(12,15) && ag_e08b==6 ? (10*ag_e08a).InRange(5,10) :

// 50 kg bag

ag_e07.InList(12,15) && ag_e08b==7 ? (50*ag_e08a).InRange(5,10) :

true
```

Validation Message: Quantity of maize seed is inconsistent with coupon type. Please confirm.

[12] ag_e08_1b: E08_1b. YEAR (4-DIGIT)
~~Validation Condition:~~

```
/* coupon can only be used after it has been obtained */
(new DateTime((int) ag_e08_1b, (int) ag_e08_1a,1)) >= (new DateTime((int) ag_e05b, (int) ag_e05a,1))

&&

/* coupon can only be used within the rainy season within which it was obtained */
(
// if 2014/15 rainy season, must be within season
hh_x02==1 ? ag_e05a.InList(11,12,1,2,3,4) && ag_e05b.InList(2014,2015) :

// if 2015/16 rainy season
hh_x02==2 ? ag_e05a.InList(11,12,1,2,3,4) && ag_e05b.InList(2015,2016) :

true
)
```

Validation Message: A coupon can only be redeemed after it is obtained. Please check the date obtained (E05) and the date redeemed (E08_1)

[13] ag_f0_inorganic: SELECT THE TYPES OF INORGANIC FERTILIZER USED ON THE PLOTS.

 IF THE FARMER HAS MIXED TWO OR ~~MORE FERTILIZERS IN ANY OF THE APPLICATIONS, YOU MUST SELECT ALL TYPES OF FERTILIZERS USED.~~
~~Validation Condition:~~

```
new Func<bool>(() =>
{
```

```
 var plots = ag_moduleD_garden_roster.SelectMany(x => x.ag_moduleD_plot_roster);

    decimal[] bothApplications = plots.Select(x => x.ag_d39a).Union(plots.Select(x => x.ag_d39f))
  .Where(x => x.HasValue)
  .Select(x=> x.Value)
  .ToArray();

    return self.ContainsOnly(bothApplications);
}).Invoke()
```

Validation Message: All types of inorganic fertilizer used on plots must be selected.

[14] ag_f0_pesticides: SELECT THE TYPES OF PESTICIDES/HERBICIDES USED ON THE PLOTS.
~~Validation Condition:~~

```
new Func<bool>(() =>
{
 var plots = ag_moduleD_garden_roster.SelectMany(x => x.ag_moduleD_plot_roster);

    decimal[] bothApplications = plots.Select(x => x.ag_d41a).Union(plots.Select(x => x.ag_d41e))
  .Where(x => x.HasValue)
  .Select(x=> x.Value)
  .ToArray();

    return self.ContainsOnly(bothApplications);
}).Invoke()
```

Validation Message: All types of pesticides/herbicides used on plots must be selected.

[15] ag_g01: G01. What type of <u>crop stand</u> was on the PLOT?
~~Validation Condition:~~

```
// if pure stand, then there should only be one crop planted on the plot
self==1 ? ag_d20.Length==1 :

// if mixed stand, then there should be more than one crop planted on the plot
self==2 ? ag_d20.Length>1 :

true
```

Validation Message: Crop stand reported here is inconsistent with the number of crops selected in D20 for this plot.

[16] ag_g13c: G13c. S/U
~~Validation Condition:~~

```
/*
ALGORITHM
Convert area to acre
Generate Area categories
Generate Harvest in KG
Calculate Yield kg/acre
Determine whether yield is within allowable bounds

LOOKUP: extremeyield, from Check1_Extreme_Yield_Values
-region
-area_cat
-yieldpc1....

LOOKUP agConvertFactor, from ConversionsOCT2011a.dta
region
crop_code
unit
conversion
shell_unshelled

QUESTIONNAIRE:

 area:               ag_c04c
 unit of area:       n/a (acres)
 harvest quantity:   ag_m11a
 harvest unit:       ag_m11b
 shell/unshell:      ag_m11c
*/

(new Func<bool>(() =>
{

// calculate area in acre
var area_acre = ag_c04c;

// generate area categories
var area_cat=   (area_acre>0 && area_acre<=0.5) ? 1 :
                (area_acre>0.5 && area_acre<=1) ? 2 :
                (area_acre>1 && area_acre<=2)   ? 3 :
                                                  4 ;

// calculate harvest

    // find the multiplier for converting to KG
    var factor =  agConvertFactor.Values.FirstOrDefault(x =>
                    x.region == (double) ihs_region &&
                    x.crop_code == (double) @rowcode &&
                    x.unit== (double) ag_g13b &&
```

```
                    x.condition== (double) ag_g13c
                    );
    if (factor==null) return true;    // but return true if no such entry or if all values are null

    // compute harvest in KGs
    var harvest = factor.conversion * (double) ag_g13a;
    if (factor.conversion==null) return true;

    // calculate yield (i.e, kg/acre)
    var yield = harvest / area_acre;
    if (harvest==null || area_acre==null) return true;

    // extract extreme values
     var yieldbounds=extremeyield.Values.FirstOrDefault(x=>
           x.region== (double) ihs_region &&
           x.crop_code== (double) @rowcode &&
           x.area_cat== (double) area_cat
           );
     if (yieldbounds==null) return true;

     // deermine whether yield is between the 5th and 95th percentile
    if (yieldbounds.yieldpc5==null || yieldbounds.yieldpc95==null) return true;
    return (yield.InRange(yieldbounds.yieldpc5,yieldbounds.yieldpc95));

})).Invoke()
```

Validation Message: Harvest amount for this plot seems unlikely. Please check.

[17] ag_i02c: I02c. S/U
Validation Condition:

```
// Check that amount sold is less than the total harvest

(new Func<bool>(() =>
{
// Look up crops in nested roster
// generate new object with quantity and conversion factor
var crops = ag_G_garden_roster.
 SelectMany(g=> g.ag_G_plot_roster.
 SelectMany(p=> p.ag_G_crop_roster)).
 Where(x=> x.@rowcode == @rowcode). // rowcode = crop code
 Select(x=> new{ amount = (double) x.ag_g13a,
     cf = agConvertFactor.Values.FirstOrDefault(c =>
                    c.region == (double) ihs_region &&
                    c.crop_code == (double) @rowcode &&
                    c.unit== (double) x.ag_g13b &&
                    c.condition== (double) x.ag_g13c
                    )});

// If conversion factor is not found, return true
if(crops.Any(x=> x.cf==null))
 return true;

var harvest = crops.Sum(x=> x.amount * x.cf.conversion);

var sale_cf = agConvertFactor.Values.FirstOrDefault(x =>
                    x.region == (double) ihs_region &&
                    x.crop_code == (double) @rowcode &&
                    x.unit== (double) ag_i02b &&
                    x.condition== (double) ag_i02c
                    );

// check that harvest amount is greater or equal to sales amount
// Return true if no conversion factor found for sales
return sale_cf==null ? true : harvest >= (ag_i02a * sale_cf.conversion);

})).Invoke()
```

Validation Message: Amount sold is greater than harvest size for the crop. Please confirm the amount sold.

APPENDIX C — INSTRUCTIONS

[1] hh_n09a: N09. Please provide details on the main product or service of each Enterprise that your household operated during the past 12 ~~months.~~

~~PROVIDE~~ A WRITTEN DESCRIPTION CONCERNING THE MAIN PRODUCT/SERVICE OF EACH ENTERPRISE THAT THE HOUSEHOLD OPERATED DURING THE PAST 12 MONTHS, BEFORE GOING ON TO N10. PLEASE INCLUDE BUSINESS VENTURES THAT HAVE BEEN SHUT DOWN PERMANENTLY OR TEMPORARILY DURING THE PAST 12 MONTHS

[2] hh_t13: T13. During the last 12 months, was there a time when you or others in your household were unable to eat healthy and nutritious ~~food because of a lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:~~

~~CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pakhomo~~ lanu lino, inalipo nthawi imene munali ndi nkhawa yoti simukhala ndi chakudya chokwanira choti mudye chifukwa chosowa ndalama kapena njira zina zopezera chakudya? TUMBUKA: Pa MIYEZI 12 iyi yajumpha, ikabapo nyengo iyi imwe panyankhe waliyonse panyumba pinu wakalanguluka /wakopa kuti mubenge kwambula chakurya chakukwana chifukwa chakusoba ndalama panyakhe nthowa zinyake zakusangila chakurya?

[3] hh_t15: T15. During the last 12 months, was there a time when you or others in your household ate only a few kinds of foods because of a ~~lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:~~

~~CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi~~ mwa ena a pakhomo lanu lino, inalipo nthawi lmene munadya mitundu yochepa ya zakudya chifukwa chosowa ndalama kapena njira zina zopezera chakudya? TUMBUKA: Pa MIYEZI 12 iyi yajumpha, yikabapo nyengo iyi imwe panyankhe waliyonse panyumba pinu wakatondeka kurya chakurya chakupambanapambana chifukwa chakusoba ndalama panyakhe nthowa zinyake zakusangila chakurya?

[4] hh_t16: T16. During the last 12 months, was there a time when you or others in your household had to skip a meal because there was not ~~enough money or other resources to get food? YOU MUST READ TRANSLATIONS BELOW:~~

~~CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pak~~homo lanu lino, inalipo nthawi imene simunadye chakudya cha mmawa kapena chamasana kapena chamadzulo chifukwa chosowa ndalama kapena njira zina zopezera chakudya? TUMBUKA: Pa MIYEZI 12 iyi yajumpha, yikabapo nyengo iyi imwe panyankhe waliyonse panyumba pinu wakatondeka kurya chakurya cha mulenji panyakhe cha muhanya panyakhe cha mise chifukwa chakuchepa kwa ndalama panyakhe nthowa zinyake zakusangila chakurya?

[5] hh_t17: T17. During the last 12 months, was there a time when you or others in your household ate less than you thought you should ~~because of a lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:~~

~~CHICHEWA: Poganizirabe za miyezi khumi ndi Iwiri (12) yapitayi,kodi Inuyo kapena mmodzi mwa~~ ena a pakhomo lanu lino, inalipo nthawi imene munadya chakudya chochepa kusiyana ndi momwe mumaganizira chifukwa chosowa ndalama kapena njira zina zopezera chakudya? TUMBUKA: Pa MIYEZI 12 iyi yajumpha, ikabapo nyengo iyi imwe panyankhe waliyonse panyumba pinu wakarya chakurya chakuperebela na umo mukakhumbiranga chifukwa chakusowa ndalama panyakhe nthowa zinyake zakusangila chakurya?

[6] hh_t20: T20. During the last 12 months, was there a time when you or others in your household went without eating for a whole day ~~because of a lack of money or other resources? YOU MUST READ TRANSLATIONS BELOW:~~

~~CHICHEWA: Pa miyezi khumi ndi iwiri (12) yapitayi, kodi inuyo kapena mmodzi mwa ena a pak~~homo lanu lino, liripo tsiku limene munakhalapo tsiku lonse osadya kanthu chifukwa chosowa ndalama kapena njira zina zopezera chakudya? TUMBUKA: Pa MIYEZI 12 iyi yajumpha ikabapo nyengo iyi imwe panyankhe waliyonse panyumba pinu wakatandala na njala chifukwa chakusowa ndalama panyakhe nthowa zinyake zakusangila chakurya?

[7] ag_d20: D20. What crops were planted on this plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?

~~LIST ALL CROPS IN ORDER OF IMPORTANCE, STARTING WITH THE MOST IMPORTANT CROP. DO NOT LIST CASSAVA, TEA~~, COFFEE OR ANY FRUITS. FOR MAIZE, IF THERE ARE SEVERAL VARIETIES OF MAIZE ON THE SAME PLOT, TREAT EACH VARIETY AS A SEPARATE CROP AND SELECT MAIZE 1 AS THE MOST DOMINANT VARIETY. IF THERE ARE OTHER MAIZE VARIETIES ON THE SAME PLOT SELECT MAIZE 2, MAIZE 3, MAIZE 4 FOR THESE. THE VARIETY WILL BE SPECIFIED LATER.

[8] ag_d39a: D39a. What type of <u>inorganic fertilizer</u> did you apply to this plot (%rostertitle%) ?

 FIRST APPLICATION TYPE

~~IF TWO TYPES OF FERTILIZER WERE MIXED IN A GIVEN APPLICATION, RECORD THE CODE FOR THE MAIN FERTILIZER IN THE COLUMN FOR~~ "TYPE", BUT NOTE THE SUM OF BOTH TYPES OF FERTILIZER IN THE COLUMN FOR "QUANTITY."

[9] ag_d39g: D39f. What type of <u>inorganic fertilizer</u> did you apply to this plot (%rostertitle%) ?

SECOND APPLICATION ~~TYPE~~

~~IF TW~~O TYPES OF FERTILIZER WERE MIXED IN A GIVEN APPLICATION, RECORD THE CODE FOR THE MAIN FERTILIZER IN THE COLUMN FOR "TYPE", BUT NOTE THE SUM OF BOTH TYPES OF FERTILIZER IN THE COLUMN FOR "QUANTITY."

[10] ag_d46a: D46a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people to work on this [PLOT] for any ~~and all types of activities?~~

~~NOTE THAT YOU ARE EX~~PECTED TO CODE THE PERSON DAYS FOR ALL ACTIVITIES FOR WHICH THE HH USED HIRED LABOUR ON THE PLOT. E.G IF THE HOUSEHOLD HIRED 3 MEN FOR 6 DAYS TO DO HARVEST ON THE PLOT, YOU WOULD WRITE 18 (3 MEN X 6 DAYS)

[11] ag_d47a: D47a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people for any and all non-harvest ~~activities, such as land preparation, planting, ridging, weeding and fertilizing, on this~~ [PLOT]?

~~NUMBER OF DAYS. IF NONE, RECORD ZERO IN ALL COLUMNS DESIGNATED FOR "DAYS" NO~~TE THAT YOU ARE EXPECTED TO CODE THE PERSON DAYS FOR ALL ACTIVITIES FOR WHICH THE HH USED HIRED LABOUR ON THE PLOT. E.G IF THE HOUSEHOLD HIRED 3 MEN FOR 6 DAYS TO DO HARVEST ON THE PLOT, YOU WOULD WRITE 18 (3 MEN X 6 DAYS)

[12] ag_d48a: D48a. During the [REFERENCE RAINY SEASON] (%ag_d0%), how many days did you hire people to work on this [PLOT] for ~~harvesting?~~

~~NUMBER OF~~ DAYS. EXCLUDE HIRED LABOUR FOR LAND PREPARATION AND PLANTING, WEEDING, INPUT APPLICATIONS AND NON-HARVEST ACTIVITIES. IF NONE, RECORD ZERO. NOTE THAT YOU ARE EXPECTED TO CODE THE PERSON DAYS FOR ALL ACTIVITIES FOR WHICH THE HH USED HIRED LABOUR ON THE PLOT. E.G IF THE HOUSEHOLD HIRED 3 MEN FOR 6 DAYS TO DO HARVEST ON THE PLOT, YOU WOULD WRITE 18 (3 MEN X 6 DAYS)

[13] ag_i31a: I31a.How much of the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was given out as gifts ~~or reimbursements for land, labour?~~

~~QUANTITY. EXCLUDE REIMBURSE~~MENTS FOR INPUTS BORROWED / ACQUIRED ON CREDIT. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 32. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

[14] ag_i33a: I33a. How much of the harvested crop(%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was used for animal

feed?
~~QUAN~~TITY. EXCLUDE THE QUANTITY OF CROP USED AS ANIMAL FEED DUE TO PEST DAMAGE. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 34. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED

[15] ag_i34a: I34a. How much of the harvested crop(%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was used as input for ~~crop (%rostertitle%) by products that your household sold, if any, for cash/ in-kind goods/ services?~~
~~QUANTITY. EXCLUDE CROP USED AS INPUT FOR OWN-PRODUCED BY-PRODUCTS CONSUMED AT H~~OME. IF NOTHING, RECORD ZERO FOR "QUANTITY" AND CONTINUE TO 35. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.

[16] ag_i36a: I36a. How much of the the harvested crop (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_i_0%) was lost to ~~rotting, insects, rodents, theft, etc. in the post- harvest period?~~
~~INCLUDE THE QUANTITY OF CROP USED AS ANIMAL FEED DUE~~ TO PEST DAMAGE. FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.. FIRST OPTION. QUANTITY FILL IN OPTION 2/PERCENTAGE ONLY IF THE FARMER CANNOT PROVIDE AN APPROXIMATE QUANTITY FOR OPTION 1. IF NOTHING WAS LOST, RECORD ZERO AND GO TO 38

[17] ag_o_2_4c: O_2_4c. What is the area of this plot (%rostertitle%)?
 [GPS]
~~AREA IN ACRES ENUMERATOR: MEASURE THE AREA WITH THE GPS. MAKE SUR~~E TO MEASURE THE PLOT AREA WITH GPS AT LEAST TWICE TO GET A CONSISTENT VALUE. RECORD ZEROS TO THE RIGHT OF THE DECIMAL. DON'T FORGET TO SAVE THE TRACK ON YOUR GPS UNIT. SAVE TRACK AS THE 12-DIGIT IHS4 CROSS-SECTIONAL HHID PLUS THE GARDEN ID PLUS THE PLOT ID! EXAMPLE: "301107310001TG01T02"

[18] ag_q35a: Q35a. How much of the the harvested tree/permanent crop (%rostertitle%) during the last 12 months was <u>lost</u> to ~~rotting, insects, rodents, theft, etc. in the <u>post- harvest period</u>?~~
~~FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPOR~~TED VALUE IS SHELLED OR UNSHELLED. FIRST OPTION QUANTITY FILL IN OPTION 2/PERCENTAGE ONLY IF THE FARMER CANNOT PROVIDE AN APPROXIMATE QUANTITY FOR OPTION 1. IF NOTHING WAS LOST, RECORD ZERO AND CONTINUE TO 37.

[19] ag_v01: V01. ENUMERATOR: PLEASE LIST ALL GARDENS THAT YOUR HOUSEHOLD CURRENTLY OWNS
~~COPY ALL NAMES OF GARDENS OWNED EXACTLY FROM THE RAINY SEASON, DRY SEASON AND TREE/~~PERMANENT CROPS USING THE PREFIXES PLUS THE NAMES. IF IT IS A NON-AGRICULTURAL PIECE OF LAND ASSIGN THE IDS "V01, V02, V03, ETC."

APPENDIX D — OPTIONS

[1] hh_a01: A01. DISTRICT
Options: 101:Chitipa, 102:Karonga, 103:Nkhata Bay, 104:Rumphi, 105:Mzimba, 106:Likoma, 107:Mzuzu City, 201:Kasungu, 202:Nkhotakota, 203:Ntchisi, 204:Dowa, 205:Salima, 206:Lilongwe, 207:Mchinji, 208:Dedza, 209:Ntcheu, 210:Lilongwe City, 301:Mangochi, 302:Machinga, 303:Zomba, 304:Chiradzulu, 305:Blantyre, 306:Mwanza, 307:Thyolo, 308:Mulanje, 309:Phalombe, 310:Chikwawa, 311:Nsanje, 312:Balaka, 313:Neno, 314:Zomba City, 315:Blantyre City,

[2] hh_c08: C08. What class is %rostertitle% in or what was the highest class level %rostertitle% ever attended?
Options: 0:NURSERY/PRE-SCHOOL, 1:PRIMARY STND 1, 2:PRIMARY STND 2, 3:PRIMARY STND 3, 4:PRIMARY STND 4, 5:PRIMARY STND 5, 6:PRIMARY STND 6, 7:PRIMARY STND 7, 8:PRIMARY STND 8, 9:SECONDARY FORM 1, 10:SECONDARY FORM 2, 11:SECONDARY FORM 3, 12:SECONDARY FORM 4, 13:SECONDARY FORM 5, 14:SECONDARY FORM 6, 15:UNIVERSITY 1, 16:UNIVERSITY 2, 17:UNIVERSITY 3, 18:UNIVERSITY 4, 19:UNIVERSITY 5 & ABOVE, 20:TRAINING COLLEGE YR 1, 21:TRAINING COLLEGE YR 2, 22:TRAINING COLLEGE YR 3, 23:TRAINING COLLEGE YR 4,

[3] hh_c12: C12. What class was %rostertitle% in during the last completed academic year?
Options: 0:NURSERY/PRE-SCHOOL, 1:PRIMARY STND 1, 2:PRIMARY STND 2, 3:PRIMARY STND 3, 4:PRIMARY STND 4, 5:PRIMARY STND 5, 6:PRIMARY STND 6, 7:PRIMARY STND 7, 8:PRIMARY STND 8, 9:SECONDARY FORM 1, 10:SECONDARY FORM 2, 11:SECONDARY FORM 3, 12:SECONDARY FORM 4, 13:SECONDARY FORM 5, 14:SECONDARY FORM 6, 15:UNIVERSITY 1, 16:UNIVERSITY 2, 17:UNIVERSITY 3, 18:UNIVERSITY 4, 19:UNIVERSITY 5 & ABOVE, 20:TRAINING COLLEGE YR 1, 21:TRAINING COLLEGE YR 2, 22:TRAINING COLLEGE YR 3, 23:TRAINING COLLEGE YR 4,

[4] hh_c14: C14. Why did %rostertitle% not continue his/her education?
Options: 1:ACQUIRED ALL EDUCATION WANTED, 2:NO MONEY FOR FEES OR UNIFORM, 3:TOO OLD TO CONTINUE, 4:MARRIED / BECAME PREGNANT, 5:ILLNESS OR DISABILITY, 6:FOUND WORK, 7:NOT INTERESTED, LAZY, 8:PARENTS TOLD ME TO STOP, 9:HAD TO WORK OR HELP AT HOME, 10:POOR/CROWDED SCHOOL FACILITIES, 11:POOR QUALITY INSTRUCTION, 12:TEACHERS OFTEN ABSENT, 13:SCHOOL TOO DANGEROUS FOR GIRLS, 14:SCHOOL TOO FAR FROM HOME, 15:SCHOOL CONFLICT W/ BELIEFS, 16:FAILED PROMOTION EXAM, 17:DISMISSED / EXPELLED, 18:OTHER (SPECIFY),

[5] hh_u01a: U01a. During the last <u><u>24 months</u>, was your household affected negatively by any of the following shocks?</u>
Options: 101:Drought, 1101:Irregular Rains, 102:Floods, 1102:Landslides, 103:Earthquakes, 104:Unusually High Level of Crop Pests or Disease, 105:Unusually High Level of Livestock Disease, 106:Unusually Low Prices for Agricultural Output, 107:Unusually High Costs of Agricultural Inputs, 108:Unusually High Prices for Food, 109:End of Regular Assistance/Aid/Remittances From Outside Household, 110:Reduction in the Earnings from Household (Non-Agricultural) Business (Not due to Illness or Accident), 111:Household (Non-Agricultural) Business Failure (Not due to Illness or Accident), 112:Reduction in the Earnings of Currently Salaried Household Member(s) (Not due to Illness or Accident), 113:Loss of Employment of Previously Salaried Household Member(s) (Not due to Illness or Accident), 114:Serious Illness or Accident of Household Member(s), 115:Birth in the Household, 116:Death of Income Earner(s), 117:Death of Other Household Member(s), 118:Break-Up of Household, 119:Theft of Money/Valuables/Assets/Agricultural Output, 120:Conflict/Violence, 121:Other (Specify),

[6] hh_u02: U02. Rank the three most significant shocks you experienced by selecting them in descending order of severity--most severe first, second most severe, third most severe
Options: 101:Drought, 1101:Irregular Rains, 102:Floods, 1102:Landslides, 103:Earthquakes, 104:Unusually High Level of Crop Pests or Disease, 105:Unusually High Level of Livestock Disease, 106:Unusually Low Prices for Agricultural Output, 107:Unusually High Costs of Agricultural Inputs, 108:Unusually High Prices for Food, 109:End of Regular Assistance/Aid/Remittances From Outside Household, 110:Reduction in the Earnings from Household (Non-Agricultural) Business (Not due to Illness or Accident), 111:Household (Non-Agricultural) Business Failure (Not due to Illness or Accident), 112:Reduction in the Earnings of Currently Salaried Household Member(s) (Not due to Illness or Accident), 113:Loss of Employment of Previously Salaried Household Member(s) (Not due to Illness or Accident), 114:Serious Illness or Accident of Household Member(s), 115:Birth in the Household, 116:Death of Income Earner(s), 117:Death of Other Household Member(s), 118:Break-Up of Household, 119:Theft of Money/Valuables/Assets/Agricultural Output, 120:Conflict/Violence, 121:Other (Specify),

[7] hh_u04a: U04a. What did your household do in response to this %rostertitle% to try to regain your former welfare level?
Options: 1:RELIED ON OWN-SAVINGS, 2:RECEIVED UNCONDITIONAL HELP FROM RELATIVES / FRIENDS, 3:RECEIVED UNCONDITIONAL HELP FROM GOVERNMENT, 4:RECEIVED UNCONDITIONAL HELP FROM NGO / RELIGIOUS INSTITUTION, 5:CHANGED EATING PATTERNS (RELIED ON LESS PREFERRED FOOD OPTIONS, REDUCED THE PROPORTION OR NUMBER OF MEALS PER DAY, OR HOUSEHOLD MEMBERS SKIPPED DAYS OF EATING, ETC), 6:EMPLOYED HOUSEHOLD MEMBERS TOOK ON MORE EMPLOYMENT, 7:ADULT HOUSEHOLD MEMBERS WHO WERE PREVIOUSLY NOT WORKING HAD TO FIND WORK, 8:HOUSEHOLD MEMBERS MIGRATED, 9:REDUCED EXPENDITURES ON HEALTH AND/OR EDUCATION, 10:OBTAINED CREDIT, 11:SOLD AGRICULTURAL ASSETS, 12:SOLD DURABLE ASSETS, 13:SOLD LAND/BUILDING, 14:SOLD CROP STOCK, 15:SOLD LIVESTOCK, 16:INTENSIFY FISHING, 17:SENT CHILDREN TO LIVE ELSEWHERE, 18:ENGAGED IN SPIRITUAL EFFORTS -PRAYER, SACRIFICES, DIVINER CONSULTATIONS, 19:DID NOT DO ANYTHING, 20:OTHER (SPECIFY),

[8] hh_v09: V09. Which of these technologies are you familiar with?
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/Elephant grass, 4:Contour bunds/terraces, 5:Box ridges, 6:Pit planting, 7:Minimum tillage, 8:Herbicide use, 9:Mulching (residue retention), 10:Ripping, 11:Planting stick, 12:Jab planter, 13:Organic manure, 14:Organic fertilizer (mix or organic manure and inorganic fertilizer), 15:Agroforestry, 16:Drought tolerant maize, 17:OPV maize, 18:Hybrid maize,

[9] hh_v09a: V09a. Which of these technologies have you had demonstration trials for?
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/elephant grass, 4:Contour bunds/terraces, 5:Contour ridges, 6:Box ridges, 7:Pit planting, 8:Minimum tillage, 9:Herbicide use, 10:Mulching (residue retention), 11:Ripper, 12:Planting stick, 13:Jab planter, 14:Organic manure, 15:Agroforestry technologies, 16:Drought-tolerant maize varieties, 17:Other improved maize, 18:Maize fertilizer trials, 19:Compost-making, 20:Storage technology, 21:Other,

[10] hh_v09b: V09b. Which of these technologies did you use on your own farm in 2015/16?
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/elephant grass, 4:Contour bunds/terraces, 5:Contour ridges, 6:Box ridges, 7:Pit planting, 8:Minimum tillage, 9:Herbicide use, 10:Mulching (residue retention), 11:Ripper, 12:Planting stick, 13:Jab planter, 14:Organic manure, 15:Agroforestry technologies, 16:Drought-tolerant maize varieties, 17:Other improved maize, 18:Maize fertilizer trial

s, 19:Compost-making, 20:Storage technology, 21:Other,

[11] hh_v10: V10. Indicate your closer familiarity with these technologies
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/elephant grass, 4:Contour bunds/terraces, 5:Contour ridges, 6:Box ridges, 7:Pit planting, 8:Minimum tillage, 9:Herbicide use, 10:Mulching (residue retention), 11:Ripping, 12:Planting stick, 13:Jab planter, 14:Organic manure, 15:Organic fertilizer, 16:Agroforestry, 17:Drought-tolerant maize, 18:OPV maize, 19:Hybrid maize,

[12] hh_v12a: V12a. Which of the following technologies do you recommend other farmers to adopt?
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/elephant grass, 4:Contour bunds/terraces, 5:Contour ridges, 6:Box ridges, 7:Pit planting, 8:Minimum tillage, 9:Herbicide use, 10:Mulching (residue retention), 11:Ripping, 12:Planting stick, 13:Jab planter, 14:Organic manure, 15:Organic fertilizer, 16:Agroforestry, 17:Drought-tolerant maize, 18:Other improved maize,

[13] hh_v09pf: V09. Which of these technologies are you familiar with?
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/Elephant grass, 4:Contour bunds/terraces, 5:Box ridges, 6:Pit planting, 7:Minimum tillage, 8:Herbicide use, 9:Mulching (residue retention), 10:Ripping, 11:Planting stick, 12:Jab planter, 13:Organic manure, 14:Organic fertilizer (mix or organic manure and inorganic fertilizer), 15:Agroforestry, 16:Drought tolerant maize, 17:OPV maize, 18:Hybrid maize,

[14] hh_v09bpf: V09b. Which of these technologies did you use on your own farm in 2015/16?
Options: 1:Maize-legume intercropping, 2:Crop rotation, 3:Vetiver/elephant grass, 4:Contour bunds/terraces, 5:Contour ridges, 6:Box ridges, 7:Pit planting, 8:Minimum tillage, 9:Herbicide use, 10:Mulching (residue retention), 11:Ripper, 12:Planting stick, 13:Jab planter, 14:Organic manure, 15:Agroforestry technologies, 16:Drought-tolerant maize varieties, 17:Other improved maize, 18:Maize fertilizer trials, 19:Compost-making, 20:Storage technology, 21:Other,

[15] ag_b_2_08a: B_2_08a. CROP TYPE
Options: 1:MAIZE, 5:TOBACCO, 11:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:OTHER (SPECIFY),

[16] ag_d69: D69. What crop was planted in this [PLOT] following the previous rainy season?
Options: 1:MAIZE, 5:TOBACCO, 12:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:OTHER (SPECIFY),

[17] ag_d70: D70. What crop do you plan to plant in this [PLOT] after the next rainy season?
Options: 1:MAIZE, 5:TOBACCO, 12:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:OTHER (SPECIFY),

[18] ag_d20: D20. What crops were planted on this plot (%rostertitle%) during the [REFERENCE RAINY SEASON] (%ag_d0%)?
Options: 1:MAIZE 1, 2:MAIZE 2, 3:MAIZE 3, 4:MAIZE 4, 5:TOBACCO, 11:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:CASSAVA, 49:OTHER (SPECIFY),

[19] ag_d46f: CROP TYPE
Options: 1:MAIZE, 5:TOBACCO, 11:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:OTHER (SPECIFY),

[20] ag_d47f: CROP TYPE
Options: 1:MAIZE, 5:TOBACCO, 11:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:OTHER (SPECIFY),

[21] ag_d48f: CROP TYPE
Options: 1:MAIZE, 5:TOBACCO, 11:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:OTHER (SPECIFY),

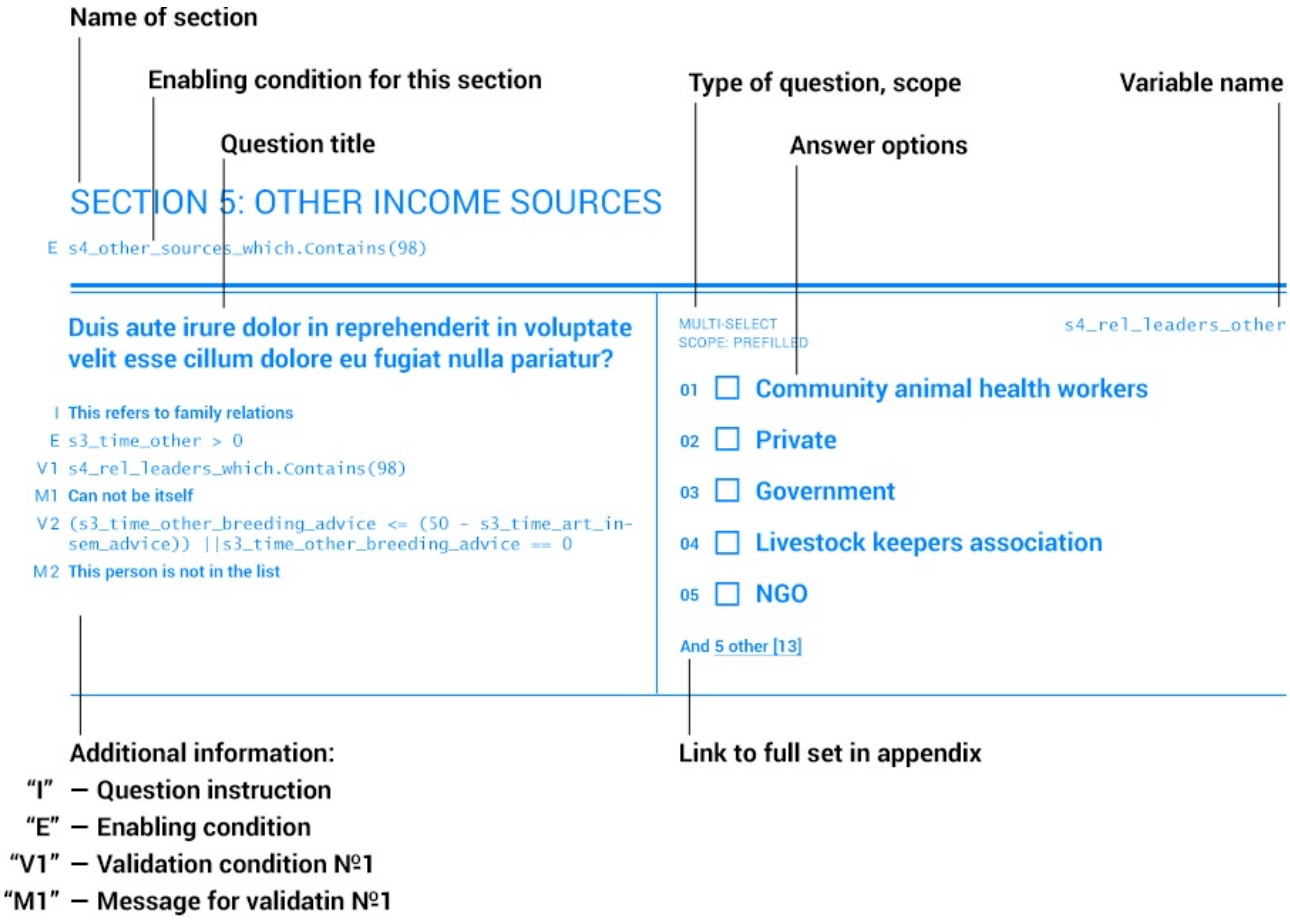
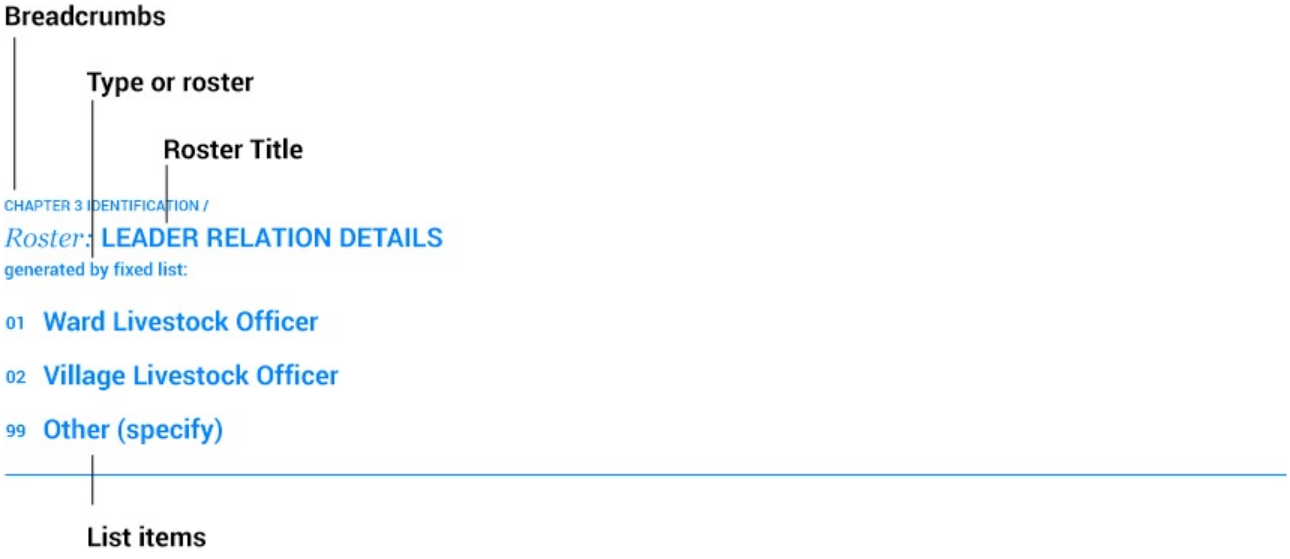
[22] ag_g0a: G0a. Variety of maize: FOR ONLY <u>MAIZE 1, MAIZE 2, MAIZE 3, MAIZE 4</u>
Options: 1:AFRIC 1, 2:Bantum, 3:Chisowa, 4:CX5005, 5:CZR3, 6:CZR4, 7:CZR8, 8:Decap, 9:DK8021, 10:DK8031, 11:DK8033, 12:DK8035, 13:DK8041, 14:DK8051, 15:DK8053(Mkangala), 16:DK8067, 17:DK8071, 18:DK8073, 19:DK8099, 20:DK9089, 21:GV702, 22:Kagoro, 23:Kanjerenjere, 24:LH11, 25:LH17, 26:Local, 27:Masika, 28:MH12, 29:MH15, 30:MH16, 31:MH17, 32:MH18, 33:MH19, 34:MH20, 35:MH21, 36:MH22, 37:MH23, 38:MH24, 39:MH25, 40:MH26, 41:MH27, 42:MH28, 43:MH29, 44:MH30, 45:MH31, 46:MH32, 47:MH41, 48:mm604, 49:MR1724, 50:MR1734, 51:NSCM31, 52:NSCM41, 53:NSCM51, 54:NSCM91, 55:Other (Specify), 56:PAN33, 57:PAN4m-19, 58:PAN4M-21, 59:PAN53, 60:PAN57, 61:PAN5M-35, 62:Pan6193, 63:Pan6195, 64:PAN63, 65:Pan6343, 66:Pan6363, 67:Pan6479, 68:Pan67, 69:PAN6777, 70:PAN77, 71:Pan85, 72:Pannar413, 73:PHB3043, 74:PHB30D79, 75:PHB30G19, 76:PHB30G97, 77:PHB30V33, 78:PHB3253, 79:Popcorn, 80:QPM, 81:SC403(Kanyani), 82:SC405, 83:SC407, 84:SC501, 85:SC515, 86:SC621, 87:SC623, 88:SC624, 89:SC627(Mkango), 90:SC709, 91:SC717, 92:SC719(Njovu), 93:SC729, 94:Sensako2151, 95:Sensako2265, 96:Sundwe, 97:White Pool, 98:ZM309, 99:ZM421, 100:ZM521, 101:ZM523(Demeta), 102:ZM621, 103:ZM623, 104:ZM721,

[23] ag_h00: SELECT ALL DIFFERENT TYPES OF CROPS PLANTED BY THE HOUSEHOLD DURING THE [REFERENCE RAINY SEASON] (%ag_h0%) .
Options: 1:MAIZE, 5:TOBACCO, 11:GROUNDNUT, 17:RICE, 27:GROUND BEAN(NZAMA), 28:SWEET POTATO, 29:IRISH [MALAWI] POTATO, 30:WHEAT, 31:FINGER MILLET(MAWERE), 32:SORGHUM, 33:PEARL MILLET(MCHEWERE), 34:BEANS, 35:SOYABEAN, 36:PIGEONPEA(NANDOLO), 37:COTTON, 38:SUNFLOWER, 39:SUGAR CANE, 40:CABBAGE, 41:TANAPOSI, 42:NKHWANI, 43:THERERE/OKRA, 44:TOMATO, 45:ONION, 46:PEAS, 47:PAPRIKA, 48:CASSAVA, 49:OTHER,

[24] ag_p0_crops: For each plot, list all the types of tree species growing on this [PLOT] (for fodder, fertilizer and other trees)?
Options: 2:Tea, 3:Coffee, 4:Mango, 5:Orange, 6:Pawpaw/Papaya, 7:Banana, 8:Avocado, 9:Guava, 10:Lemon, 11:Naartje (Tangerine), 12:Peach, 13:[Custade apple] Poza, 14:Mexican apple (Masuku), 16:Pineapple, 17:Macadamia, 1901:Faidherrbia albida (Msangu), 1902:Acacia galpini (Nkungu), 1903:Acacia polyacantha (Mthete), 1904:Tephrosia vogelli (Katupe), 1905:Gliricidia sepium (Glilisidya), 1906:Pigeon pea (Nandolo), 1907:Sesbania sesban (Njerenjere), 1908:Leucaena leucocephala (Lukina), 1802:Bauhinia thonningi (Chitimbe), 1803:Ficus capensis (Mkuyu), 2001:Senna siamea (Khesya Wamilimo), 2005:Albizia lebbeck (Mtangatanga), 2006:Azadirachta indica (Nimu), 2007:Eucalyptus, 2008:Pine, 2009:Jatropha (Nsatsi), 2010:Moringa (Chammwamba), 2011:Acacia (Kesiyasi), 101:Mpundu, 103:Nyamundalo, 104:Msekese, 105:Masau, 106:Mulubeni, 107:Balaka, 108:Chithekere/Kithekere, 109:Masangwi, 110:Mgwalangwa, 111:Matuvi, 112:Chilikhano2/Mchilingano, 113:Azungu (Masoghazungu), 114:Gomani2, 115:Beatrice, 116:Mbawala, 117:Kasungwi, 118:Guguza, 119:Thipula/Thupula, 120:Koloeka1/kolobeka, 121:GomaniMufipa, 122:GomaniMutua/mutuba, 123:Kachamba, 124:Twentetwente, 125:Chitembwereka (Chitembwere), 126:Yizaso, 127:Mkondezi, 128:Sagonja, 129:Mulola, 130:Phoso, 131:Sauti, 132:Maunjili, 133:Silira, 134:Buladifulu, 135:Njalayamfumuwako, 136:Kalawe, 137:Chinangwa 2, 138:Chiombola, 139:Chamandanda, 140:Chinangwa 1, 141:Mpale, 142:Abiti Mdala, 143:Mwatatu, 144:Mwenemzuku, 145:Matakolembwende, 146:Lwinga, 147:Dzalamayenje, 148:Chamaza, 149:Lunzua, 150:Mpapa, 151:Manyimanyi, 152:Simama, 153:Nakalasi, 1:Others,

[25] ag_Q_crop_list: SELECT ALL THE DIFFERENT TYPES OF TREE/ PERMANENT CROPS HARVESTED DURING THE LAST 12 MONTHS.
Options: 1:CASSAVA, 2:TEA, 3:COFFEE, 4:MANGO, 5:ORANGE, 6:PAWPAW/PAPAYA, 7:BANANA, 8:AVOCADO, 9:GUAVA, 10:LEMON, 11:NAARTJE (TANGERINE), 12:PEACH, 13:[CUSTADE APPLE] POZA, 14:MEXICAN APPLE [MASUKU], 15:MASAU, 16:PINEAPPLE, 17:MACADAMIA, 18:OTHER (SPECIFY),

[26] ag_r21a: R21. During the last 12 months, what was the main disease/injury %rostertitle% suffered from? How many %rostertitle% were lost to this disease/injury?
Options: 1:AVIAN INFLUENZA, 2:COCCIDIOSIS (Kamwazi), 3:FOWL CHOLERA, 4:FOWL POX(Nthomba), 5:FOWL TYPHOID, 6:GUMBORO (Khuputo), 7:NEW CASTTLE (Chitopa, Chidelu), 8:BLACK HEAD, 9:MAREKS DISEASE, 10:INFECTIOUS BROCHNITIES, 11:INFECTIOUS LARYNGEAL TRACHEITIS, 12:MYCOPLASMOSIS, 13:INFECTIOUS CORYZA, 14:ASPERGILLOSIS, 16:EAST COST FEVER (Chigodola cha ng'ombe), 17:HEART WATER(Khunyu), 18:ANAPLASMOSISI (Matenda a Chikasu), 19:ANTHRAX, 20:BABEISIOSIS (Likodzo la ng'ombe), 21:FOOT AND MOUTH DISEASE, 22:LUMPY SKIN (Matenda a zotupatupa-Kalimbwi), 23:CBPP, 24:CCPP, 25:RABIES (Chiwewe), 26:TRYPANOSOMIASIS (Matenga a kaodzela), 27:PPR, 28:BLACK QUARTER, 29:Tuberculosis (Chifuwa cha chichikulu cha ng,ombe), 30:AFRICAN SWINE FEVER, 32:HOG CHOLERA, 33:WORMS, 34:SWINE DYSENTRY, 35:OTHER (SPECIFY), 36:MANGE,

LEGEND

Legend and structure of information in this file