**Survey Solutions**

# PAFA HH Questionnaire - FINAL

SURVEY IDENTIFICATION INFORMATION
QUESTIONNAIRE DESCRIPTION

## BASIC INFORMATION AND CONSENT
Sub-sections: 1, No rosters, Questions: 21, Static texts: 2, Variables: 17.

## [A] HOUSEHOLD ROSTER
No sub-sections, Rosters: 1, Questions: 36, Static texts: 3, Variables: 2.

## [M] MIGRATION
Sub-sections: 2, Rosters: 2, Questions: 36, Static texts: 2.

## [B] PARCEL IDENTIFICATION
Sub-sections: 1, Rosters: 2, Questions: 29, Static texts: 4, Variables: 2.

## [C-S1]. AGRICULTURAL PRODUCTION %SEASON1%
Sub-sections: 15, Rosters: 9, Questions: 214, Static texts: 11, Variables: 19.

## [C-S2]. AGRICULTURAL PRODUCTION %SEASON2%
Sub-sections: 15, Rosters: 9, Questions: 214, Static texts: 11, Variables: 19.

## [C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP%
Sub-sections: 12, Rosters: 7, Questions: 160, Static texts: 10, Variables: 16.

## [C-HG] HOME GARDEN PRODUCTION BETWEEN %AG_REFPERIOD%
No sub-sections, Rosters: 3, Questions: 27, Static texts: 2, Variables: 2.

## [D] LIVESTOCK
No sub-sections, Rosters: 4, Questions: 33, Variables: 1.

## [E] HOUSING
No sub-sections, No rosters, Questions: 38, Static texts: 2.

## [F] ASSETS
Sub-sections: 10, No rosters, Questions: 204, Static texts: 10.

## [G] FOOD CONSUMPTION / SECURITY
Sub-sections: 2, Rosters: 1, Questions: 11, Static texts: 2, Variables: 1.

## [H] ENTERPRISES
No sub-sections, Rosters: 1, Questions: 18.

## [I] EMPLOYMENT
No sub-sections, Rosters: 2, Questions: 14.

## [J] OTHER INCOME
No sub-sections, Rosters: 1, Questions: 4.

## [L] CREDIT
No sub-sections, Rosters: 1, Questions: 30.

## [N] SAVINGS
No sub-sections, Rosters: 1, Questions: 9.

## [K] SOCIAL CAPITAL
No sub-sections, Rosters: 1, Questions: 10.

## [O] SHOCKS
Sub-sections: 2, Rosters: 4, Questions: 34, Static texts: 1.

## [Q] EXTENSION AND INFORMATION
No sub-sections, Rosters: 1, Questions: 11.

## [P] PO MEMBERSHIP
No sub-sections, No rosters, Questions: 46.

## QUESTIONNAIRE WRAP UP
No sub-sections, No rosters, Questions: 2.

## APPENDIX A — ENABLING CONDITIONS

## APPENDIX B — VALIDATION CONDITIONS AND MESSAGES

## APPENDIX C — INSTRUCTIONS

## APPENDIX D — CATEGORIES

## APPENDIX E — VARIABLES

## APPENDIX F — CATEGORIES FILTERS

## LEGEND

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## Basic information

*Title*   PAFA HH Questionnaire - FINAL

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## Survey data information

*Study type*   Agricultural Survey

*Kind of data*   Sample survey data [ssd]

# BASIC INFORMATION AND CONSENT

| VARIABLE | LONG | |
|---|---|---|
| start_visitdate.Value.Year | | IntYear |

| VARIABLE | LONG | |
|---|---|---|
| start_visitdate.Value.Month | | IntMonth |

| VARIABLE | STRING | |
|---|---|---|
| "CFA" | | lcu |

| VARIABLE | STRING | |
|---|---|---|
| "les 12 derniers mois (May 2017 / April 2018)" | | refperiod |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2017, 05, 1)) | | start_refperiod |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2018, 04, 30)) | | end_refperiod |

| VARIABLE | STRING | |
|---|---|---|
| "2010" | | bl_refperiod |

| VARIABLE | STRING | |
|---|---|---|
| "Mai 2017 - Avril 2018" | | ag_refperiod |

| VARIABLE | STRING | |
|---|---|---|
| "Mai 2017 - Avril 2018" | | seasontp |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2017, 05, 01)) | | start_agrefperiod_tp |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2018, 04, 30)) | | end_agrefperiod_tp |

| VARIABLE | STRING | |
|---|---|---|
| "Hivernage 2017" | | season1 |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2017, 06, 1)) | | start_agrefperiod_s1 |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2017, 10, 01)) | | end_agrefperiod_s1 |

| VARIABLE | STRING | |
|---|---|---|
| "saison séche 2017/2018" | | season2 |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2018, 10, 1)) | | start_agrefperiod_s2 |

| VARIABLE | DATETIME | |
|---|---|---|
| (new DateTime (2018, 01, 31)) | | end_agrefperiod_s2 |

| Enumerator name | TEXT<br>SCOPE: IDENTIFYING | enq_name |
|---|---|---|
| | ......................................................................... | |

| ENUMERATOR: RECORD START DATE & TIME FOR QUESTIONNAIRE | DATE: CURRENT TIME | start_visitdate |
|---|---|---|
| | ......................................................................... | |

| | | |
|---|---|---|
| ENUMERATOR: RECORD CURRENT GPS LOCATION | GPS | start_location |
| | N - - - - - - - - - - - - - - - - - - - - - - - - | |
| | W - - - - - - - - - - - - - - - - - - - - - - - - | |
| | A - - - - - - - - - - - - - - - - - - - - - - - - | |
| op_ID | NUMERIC: INTEGER<br>SCOPE: IDENTIFYING<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - . | op_id |
| _id | NUMERIC: INTEGER<br>SCOPE: IDENTIFYING<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - . | id_conf |
| Househlold number | NUMERIC: INTEGER<br>SCOPE: IDENTIFYING<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - . | hh_id |
| OP PAFA? | SINGLE-SELECT<br>SCOPE: IDENTIFYING<br>01 ◯ OUI<br>00 ◯ NON | op_pafa |
| Is household a SPAM beneficiary? | SINGLE-SELECT<br>SCOPE: IDENTIFYING<br>01 ◯ SPAM<br>00 ◯ NON SPAM | hh_spam |
| I1. Region | SINGLE-SELECT<br>01 ◯ Diourbel<br>02 ◯ Fatick<br>03 ◯ Kaffrine<br>04 ◯ Kaolack<br>05 ◯ Louga<br>06 ◯ Tambacounda<br>07 ◯ Thies | id1 |
| I2. Departement | SINGLE-SELECT: CASCADING<br>11 ◯ Bambey<br>12 ◯ Diourbel<br>13 ◯ Mbacke<br>14 ◯ Fatick<br>15 ◯ Foundiougne<br>16 ◯ Gossas<br>17 ◯ Birkelane<br>18 ◯ Kaffrine<br>19 ◯ Koungheul<br>20 ◯ Malem Hoddar<br>21 ◯ Guinguineo<br>22 ◯ Kaolack<br>23 ◯ Nioro du Rip<br>24 ◯ Lingu�re<br>25 ◯ Koumpentoum<br>26 ◯ Mbour<br><br>And 2 other symbols [1] | id2 |

| I3. Arrondissement | SINGLE-SELECT: CASCADING | id3 |
|---|---|---|

30 O Baba Garage
31 O Bambey
32 O Lambaye
33 O Ngoye
34 O Ndindy
35 O Ndoulo
36 O Kael
37 O Ndame
38 O Taif
39 O Fimela
40 O Ndiob
41 O Niakhar
42 O Djilor
43 O Toubacouta
44 O Colobane
45 O Ouadiour

And 27 other symbols [2]

| I3. Commune | SINGLE-SELECT: CASCADING | id4 |
|---|---|---|

080 O Baba Garage
081 O Dinguiraye
082 O Ndondol
083 O Gawane
084 O Lambaye
085 O Ngogom
086 O Ndangalma
087 O Ngoye
088 O Thiakhar
089 O Dankh Sene
090 O Keur Ngalgou
091 O Ndindy
092 O Ngohe
093 O Patar
094 O Tocky Gare
095 O Darou Nahim

And 72 other symbols [3]

| I3. Village | SINGLE-SELECT: CASCADING | id5 |
|---|---|---|

200 O Baba Garage
201 O Ndiaby
202 O Ndiobel
203 O Grame
204 O Keur makhaly
205 O Ng�m� issa
206 O mbokk haoul
207 O Gawane Mbacke
208 O Bousso Ndir
209 O Lambaye peye
210 O Lob�tte
211 O Ngithie thiandige
212 O ndangalma 1
213 O ngoye
214 O Mbeedi
215 O Sikane

And 171 other symbols [4]

STATIC TEXT

*Convey the following Information to the Respondent:*

*"Hello. My name is [....], I am an agent of KANTAR Public. You have been selected by your OP for a study we are conducting on behalf of IFAD to attempt to understand agricultural production dynamics in the region. We will as you questions about your family composition, agricultural production patterns, shocks experienced etc... The information collected will be confidentiel and only used for the purposes of this study. Do you have any questions?"*

| Do you agree to participate in the survey? | SINGLE-SELECT | consent |
|---|---|---|

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

01 ⭕ Yes
00 ⭕ No

| I5. Main respondent cell phone | TEXT | cell_respond |
|---|---|---|

E `consent==1`

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

BASIC INFORMATION AND CONSENT
## FUTURE CONTACT INFORMATION

E `consent==1`

| What is the location of the household? Could you use a few words to describe where your household is located in the village? | TEXT | location_hh |
|---|---|---|

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

| Could you provide the address of this dwelling or provide a landmark close to your dwelling to locate? | TEXT | address_hh |
|---|---|---|

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

| What is the name of a person in this village who we can contact if we cannot contact you in the future? | TEXT | contact_1name |
|---|---|---|

I — Enumerator: please remember that the farm household might be interviewed again over the next years, and thus having a way to contact them in the future is critical to the success of the survey. We ar
[And 193 other symbols [1]](#)

| What is your relationship to this person? | SINGLE-SELECT | contact_1rel |
|---|---|---|

01 ⭕ RELATIVE
02 ⭕ FRIEND
03 ⭕ NEIGHBOR
04 ⭕ ACQUAINTANCE

| What is the telephone of this contact person? | TEXT | contact_1infotel |
|---|---|---|

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

| Could you provide the address of this person's dwelling or provide a landmark close to this person's dwelling to locate it? | TEXT | contact_1infoaddress |
|---|---|---|

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

# [A] HOUSEHOLD ROSTER

E `consent==1`

STATIC TEXT

*ENUMERATOR: PLEASE READ OUT:*

STATIC TEXT

*I WOULD LIKE TO MAKE A COMPLETE LIST OF ALL INDIVIDUALS WHO ARE PART OF THIS HOUSEHOLD.*

*FOR US, A HOUSEHOLD IS A GROUP OF INDIVIDUALS THAT EATS TOGETHER AND SHARES A COMMON BUDGET.*

*THIS INCLUDES ALL MEMBER THAT LIVE IN THE SAME DWELLING, SAME COMPOUND OR CLOSE BY. MEMBERS OF A HOUSEHOLD NEED NOT BE RELATED BY BLOOD OR MARRIAGE.*

*IF POLYGAMOUS HOUSEHOLDS, MORE THAN ONE SPOUSE MAY BE INCLUDED IF THE SPOUSES AND ASSOCIATED HOUSEHOLD MEMBERS LIVE IN THE SAME COMPOUND AND SHARE A COMMON BUDGET. SPOUSES OF THE HOUSEHOLD HEAD THAT DO NOT LIVE TOGETHER AND SHARE A COMMON BUDGET SHOULD NOT BE INCLUDED IN THE HOUSEHOLD.*

*MEMBERS THAT LIVE ELSEWHERE (EX. STUDENTS AT BOARDING SCHOOL, HEADS WHO HAVE MIGRATED TEMPORARILY FOR WORK) MAY STILL BE INCLUDED IF THEY SHARE THE COMMON BUDGET (SENDING REMITTANCES DOES NOT CONSTITUTE SHARING THE SAME BUDGET).*

*GUESTS/CLAN MEMBERS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE SHOULD NOT BE INCLUDED.*

| A1.1. Please make a complete list of all individuals who are part of this household. | LIST a1_1 |
|---|---|
| | ................................................................................. |

| VARIABLE<br>hhroster.Count(x=>IsAnswered(x.a1_4)) | LONG hhsize |
|---|---|

| VARIABLE<br>hhroster.Where(p=>p.a1_6a>=5).Count(x=>IsAnswered(x.a1_6a)) | LONG hh_nonchild_size |
|---|---|

| A1.2 Who is the head of your household? | SINGLE-SELECT: LINKED a1_2 |
|---|---|

| A1.3. Who in your household responsible for day-to-day decisions about money? | MULTI-SELECT: LINKED a1_3 |
|---|---|
| I Select up to two | |

STATIC TEXT

E a1_1.Length>1 && !IsAnswered(a1_2)

*YOU DID NOT ANSWER QUESTION A1.2 YET: WHO IS THE HEAD OF THE HOUSEHOLD. PLEASE ANSWER THIS QUESTION BEFORE CONTINUING.*

[A] HOUSEHOLD ROSTER
## Roster: BASIC INFORMATION
generated by list question a1_1                                   hhroster

| A1.4. What is the sex of %rostertitle%? | SINGLE-SELECT a1_4 |
|---|---|
| | 00 ◯ Male |
| | 01 ◯ Female |

| A1.5. What is %rostertitle%'s relationship to %a1_2%? | SINGLE-SELECT a1_5 |
|---|---|
| E a1_2!=@rowcode<br>V1 /* Check that head has different gender than spouse(s) */ // if head is current person, and does at least one spouse exist? a1_2==@rowcode && hhroster.Any(x=>x.a1_5==2) ? !( hhroster.Any(a=>a.a <u>And 76 other symbols [1]</u><br>M1 The head and his/her spouse typically have different genders. Please confirm.<br>V2 /* Check that spouse has different gender than head */ // if spouse is current person? a1_5==2 ? // if so, check whether spouse has different gender than head !( hhroster.Any(b=>b.@rowcode==a1 <u>And 70 other symbols [1]</u><br>M2 Spouse typically has a different genders than his/her spouse (the head of household). Please confirm.<br>V3 self==5? (hhroster.Count(x=>x.a1_5==5)<=2): true<br>M3 Household head has at most 1 father and mother. | 002 ◯ Spouse<br>003 ◯ Son/Daughter<br>004 ◯ Grandchild<br>005 ◯ Father/Mother<br>006 ◯ Sister/Brother<br>007 ◯ Niece/Nephew<br>008 ◯ Uncle/Aunt<br>009 ◯ Son/Daughter-In-Law<br>010 ◯ Father/Mother-In-Law<br>011 ◯ Brother/Sister-In-Law<br>012 ◯ Grandparents<br>013 ◯ Foster children<br>014 ◯ Orphan children<br>999 ◯ Other, Specify |

| A1.5oth. Please specify the relationship of %rostertitle% to %a1_2%? | TEXT | a1_5oth |
|---|---|---|

E    a1_5==999
V1   `self.Length>=3`
M1   Error! Description too short.

---

| A1.6a. How old is %rostertitle%? (YEARS) | NUMERIC: INTEGER | a1_6a |
|---|---|---|

I    IN YEARS
V1   `a1_6a<120`
M1   Reported age is unlikely. Please check.
V2   `(a1_5==3 && (hhroster.Count(x=>x.@rowcode==a1_2 && x.a1_4==1 && (x.a1_6a-a1_6a<=14))==0)) && ((hhroster.Count(x=>x.@rowcode==a1_2 && x.a1_4==2 && (x.a1_6a-a1_6a<=12))==0)) || (@rowcode==a1_2 && a1` [And 265 other symbols [2]](#)
M2   Age difference between head and his child is less than 12 years. Please check.
V3   `(a1_5 == 2 && self >= 14) || a1_5 != 2`
M3   Person (%rostertitle%) seems to be too young to be married (%a1_6a%). Check or confirm.
V4   `a1_2==@rowcode ? a1_6a >= 12 : true`
M4   Household head is supposed to be an adult at least 12 years old, yet %rostertitle% is %a1_6a%. Check or confirm
V5   `(a1_5 == 5 && a1_6a > 24) || a1_5 != 5`
M5   Person (%rostertitle%) seems to young to be the parent of household head. Check or confirm.
V6   `(a1_5 == 12 && a1_6a > 36) || a1_5 != 12`
M6   Grandparent should be older than 36. Please check or confirm.

SPECIAL VALUES

00   Less than one year

---

| A1.6b. How old is %rostertitle%? (MONTHS) | NUMERIC: INTEGER | a1_6b |
|---|---|---|

I    RECORD THE NUMBER OF FULL MONTHS OF THE INCOMPLETE YEAR.
E    a1_6a<3
V1   `self.InRange(0,11)`
M1   Reported number of months is not possible. Number of full months of incomplete year can only be between 0 and 11.

SPECIAL VALUES

00   Less than one full month

---

| A1.7. For how many months during %refperiod% was %rostertitle% away from the household? | NUMERIC: INTEGER | a1_7 |
|---|---|---|

I    Cumulative Months
V1   `self.InRange(0,12)`
M1   This is not possible. One year has only 12 months. Please check.

SPECIAL VALUES

00   Was not absent

---

| A1.8. What is %rostertitle%'s current marital status? | SINGLE-SELECT | a1_8 |
|---|---|---|

E    a1_6a>=14
V1   `a1_5==2? self!=6: true`
M1   %rostertitle% is spouse of household head. Therefore, must have been married.

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

---

| A1.9. What religion, if any, does %rostertitle% practice? | SINGLE-SELECT | a1_9 |
|---|---|---|

E    @rowcode==a1_2 || a1_5==2

001 ◯ ISLAM
002 ◯ CHRISTIANITY
003 ◯ TRADITIONAL
000 ◯ NONE
999 ◯ OTHER

---

| A1.9oth. Please specify other. | TEXT | a1_9oth |
|---|---|---|

E    a1_9==999
V1   `self.Length>3`
M1   Error! Description is too short.

| | |
|---|---|
| **A1.10.** What language does %rostertitle% mainly speak at home?<br><br>E `@rowcode==a1_2 \|\| a1_5==2` | SINGLE-SELECT        a1_10<br><br>001 ◯ WOLOF<br>000 ◯ FRENCH<br>002 ◯ SEREER<br>003 ◯ PULAAR<br>004 ◯ BAMBARA<br>005 ◯ MANDINKA<br>006 ◯ JOOLA<br>007 ◯ SONINKE<br>999 ◯ OTHER, SPECIFY |
| **A1.10oth.** Please specify other.<br><br>E `a1_10 ==999`<br>V1 `self.Length>3` | TEXT        a1_10oth<br><br>┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈ |
| **A2.1.** Which languages is %rostertitle% able to speak?<br><br>E `a1_6a>=5` | MULTI-SELECT        a2_1<br><br>000 ☐ FRENCH<br>001 ☐ WOLOF<br>002 ☐ SEREER<br>003 ☐ PULAAR<br>004 ☐ BAMBARA<br>005 ☐ MANDINKA<br>006 ☐ JOOLA<br>007 ☐ SONINKE<br>999 ☐ OTHER, SPECIFY |
| **A2.1oth.** Please specify.<br><br>E `a2_1.Contains(999)` | TEXT        a2_1oth<br><br>┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈┈ |
| **A2.2.** Is %rostertitle% able to read in french?<br><br>E `a1_6a>=5` | SINGLE-SELECT        a2_2<br><br>01 ◯ No<br>02 ◯ Yes, with difficulties<br>03 ◯ Yes, fluently |
| **A2.3.** Is %rostertitle% able to write in french?<br><br>E `a1_6a>=5` | SINGLE-SELECT        a2_3<br><br>01 ◯ No<br>02 ◯ Yes, with difficulties<br>03 ◯ Yes, fluently |
| **A2.4.** Has %rostertitle% ever attended school?<br><br>E `a1_6a>=5` | SINGLE-SELECT        a2_4<br><br>01 ◯ Yes<br>00 ◯ No |
| **A2.5.** How many years of schooling has %rostertitle% completed?<br><br>I CALENDAR YEARS<br>E `a1_6a>=5 && a2_4==1`<br>V1 `self>0`<br>M1 Respondent stated that %rostertitle% has attended school. Years must be larger than zero.<br>V2 `self<29`<br>M2 Number of years of schooling is too much. Please check.<br>V3 `self<(a1_6a-3)`<br>M3 This seems unlikely. Respondent is only %a1_6a% years old. Please check. | NUMERIC: INTEGER        a2_5<br><br>╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌╌ |

| A2.6. What is the highest educational qualification %rostertitle% has acquired?<br><br>E  a1_6a>=5 && a2_4==1 | SINGLE-SELECT                                             a2_6<br>00 ◯  NONE<br>01 ◯  QURANIC SCHOOL<br>02 ◯  PRIMARY INCOMPLETE<br>03 ◯  PRIMARY COMPLETED<br>04 ◯  MIDDLE SCHOOL INCOMPLETE<br>05 ◯  MIDDLE SCHOOL COMPLETED<br>06 ◯  SECONDARY INCOMPLETE<br>07 ◯  SECONDARY COMPLETED<br>08 ◯  UNIVERSITY INCOMPLETE<br>09 ◯  UNIVERSITY COMPLETED |
|---|---|
| A2.7. Is %rostertitle% currently attending school or does %rostertitle% plan to attend next session? ?<br><br>E  a1_6a>=5 && a2_4==1 | SINGLE-SELECT                                             a2_7<br>01 ◯  YES<br>00 ◯  NO |
| A2.8. Has %rostertitle% attended a job training in the past 12 months?<br><br>E  a1_6a>12 | SINGLE-SELECT                                             a2_8<br>01 ◯  YES<br>00 ◯  NO |
| A2.8a. How many sessions?<br><br>E  a2_8 ==1 | NUMERIC: INTEGER                                          a2_8a<br>-------------------------------- |
| A2.9. Has %rostertitle% attended a bussiness development training in the past 12 months?<br><br>E  a1_6a>12 | SINGLE-SELECT                                             a2_9<br>01 ◯  YES<br>00 ◯  NO |
| A2.9a. How many sessions?<br><br>E  a2_9 ==1 | NUMERIC: INTEGER                                          a2_9a<br>-------------------------------- |
| A2.10. Has %rostertitle% attended a natural ressources management training in the past 12 months?<br><br>E  a1_6a>12 | SINGLE-SELECT                                             a2_10<br>01 ◯  YES<br>00 ◯  NO |
| A2.10a. How many sessions?<br><br>E  a2_10 ==1 | NUMERIC: INTEGER                                          a2_10a<br>-------------------------------- |
| A2.11. Has %rostertitle% attended any adult education training in the past 12 months?<br><br>E  a1_6a>15 | SINGLE-SELECT                                             a2_11<br>01 ◯  YES<br>00 ◯  NO |
| A2.11a. How many sessions?<br><br>E  a2_11 ==1 | NUMERIC: INTEGER                                          a2_11a<br>-------------------------------- |
| A2.12. Has %rostertitle% attended any training on how to receive market information in the past 12 months?<br><br>E  a1_6a>12 | SINGLE-SELECT                                             a2_12<br>01 ◯  YES<br>00 ◯  NO |
| A2.12a. How many sessions?<br><br>E  a2_12 ==1 | NUMERIC: INTEGER                                          a2_12a<br>-------------------------------- |

| A3.1. Does %rostertitle% have difficulty seeing, even wearing glasses?<br><br>E  a1_6a>=5 | SINGLE-SELECT           a3_1<br>00 ◯ No<br>01 ◯ Yes, some difficulty<br>02 ◯ Yes, a lot of difficulty<br>03 ◯ Cannot perform activity at all |
|---|---|
| A3.2. Does %rostertitle% have difficulty hearing, even if wearing a hearing aid?<br><br>E  a1_6a>=5 | SINGLE-SELECT           a3_2<br>00 ◯ No<br>01 ◯ Yes, some difficulty<br>02 ◯ Yes, a lot of difficulty<br>03 ◯ Cannot perform activity at all |
| A3.3. Does %rostertitle% have difficulty walking or climbing steps?<br><br>E  a1_6a>=5 | SINGLE-SELECT           a3_3<br>00 ◯ No<br>01 ◯ Yes, some difficulty<br>02 ◯ Yes, a lot of difficulty<br>03 ◯ Cannot perform activity at all |
| A3.4. Does this difficulty reduce the amount of work %rostertitle% can do at home, at work or at school?<br><br>E  a3_3 ==1 | a3_3 ==2 | a3_3 ==3 | SINGLE-SELECT           a3_4<br>00 ◯ No<br>01 ◯ Yes, all the time<br>02 ◯ Yes, sometimes<br>03 ◯ Not in school / not working |

# [M] MIGRATION

E  consent==1

[M] MIGRATION
## MIGRATION IN

E  hhroster.Any(x=>x.a1_7>0)

STATIC TEXT

*IF THE HOUSEHOLD MEMBER LEFT AND RETURNED MULTIPLE TIMES %refperiod%, ASK ABOUT THE MOST RECENT INSTANCE.*

[M] MIGRATION / MIGRATION IN
## Roster: MIGRATION EPISODE
generated by list question a1_1                roster_migrationin

E  a1_7>0

| M1.1. Did %rostertitle% join the household for the first time, or return to the household following an absence? | SINGLE-SELECT           m1_1<br>01 ◯ FIRST TIME<br>02 ◯ RETURNEE |
|---|---|
| M1.2. What was %rostertitle%'s main activity while away from the household? | SINGLE-SELECT           m1_2<br>001 ◯ FARMING<br>002 ◯ SELF-EMPLOYED<br>003 ◯ WAGE, AGRICULTURAL<br>004 ◯ WAGE, NON-AGRICULTURAL<br>005 ◯ PROFESSIONAL<br>006 ◯ UNPAID APPRENTICESHIP<br>007 ◯ STUDENT<br>008 ◯ UNEMPLOYED<br>999 ◯ OTHER |

| M1.2oth. Please specify. | TEXT | m1_2oth |
| --- | --- | --- |
| E  m1_2 ==999 | ................................................................ | |

| M1.3a. In which YEAR did %rostertitle% join/rejoin the household? | NUMERIC: INTEGER | m1_3a |
| --- | --- | --- |
| I  YEAR DURING THE LAST 12 MONTHS | – – – – – – – – – – – – – – – – – – – – – – – – – – | |
| V1  self.InRange(start_refperiod.Value.Year,end_refperiod.Value.Year) \|\| self==9 | SPECIAL VALUES | |
| M1  This is not possible. The year of rejoin must be during %refperiod%. | 09  Currently away | |

| M1.3b. In which MONTH did %rostertitle% join/rejoin the household? | SINGLE-SELECT | m1_3b |
| --- | --- | --- |
| | 01  ◯  January | |
| I  MONTH | 02  ◯  February | |
| F  m1_3a<IntYear \|\| @optioncode<=IntMonth //Lists all months if not within year of interview. Otherwise list only those months of the Interview Year // that have passed already | 03  ◯  March | |
| | 04  ◯  April | |
| | 05  ◯  May | |
| | 06  ◯  June | |
| | 07  ◯  July | |
| | 08  ◯  August | |
| | 09  ◯  September | |
| | 10  ◯  October | |
| | 11  ◯  November | |
| | 12  ◯  December | |

| M1.4. When %rostertitle% joined/rejoined the household, did they bring cash for household use? | SINGLE-SELECT | m1_4 |
| --- | --- | --- |
| | 01  ◯  YES | |
| | 00  ◯  NO | |

| M1.5. What was the total value of the cash (In %lcu%) that %rostertitle% brought for household use when they joined/rejoined the household? | NUMERIC: INTEGER | m1_5 |
| --- | --- | --- |
| I  Value in CFA | – – – – – – – – – – – – – – – – – – – – – – – – – – | |
| E  m1_4==1 | | |
| V1  self>0 | | |
| M1  Respondent did bring cash for houshould use. Value must be larger than zero. | | |
| V2  self<$err_lcu_val | | |
| M2  This is too high. Please check. | | |
| W3  self<$warn_lcu_val | | |
| M3  This seems very high. Please confirm. | | |

| M1.6. When %rostertitle% joined/rejoined the household, did they bring in-kind goods for household use? | SINGLE-SELECT | m1_6 |
| --- | --- | --- |
| | 01  ◯  YES | |
| | 00  ◯  NO | |

[M] MIGRATION
# MIGRATION OUT

STATIC TEXT

*[ENUMERATOR, PLEASE READ:*

*Now I would like to talk about any spouse of the head, and all biological children of head and/or spouse(s) who currently live elsewhere.*

| M2.1. Are there any household members, spouse of the head, or all biological children of head and/or spouse(s) who currently live elsewhere? | SINGLE-SELECT | m2_1 |
| --- | --- | --- |
| | 01  ◯  Yes | |
| | 00  ◯  No | |

| M2.2. Please list any household members not listed earlier, spouse of the head, and all biological children of head and/or spouse(s) who currently live elsewhere | LIST m2_2 |
| --- | --- |
| E  m2_1==1 | -------------------------------------------------- |

## Roster: PERMANENT MIGRATION
generated by list question m2_2

roster_migrationout

| M2.3. What is the sex of %rostertitle%? | SINGLE-SELECT m2_3<br>00 ◯  Male<br>01 ◯  Female |
| --- | --- |

| M2.4. What is the age of %rostertitle%?<br><br>I  IN YEARS<br>V1  self.InRange(0,120)<br>M1  This seems unlikely. Please check. | NUMERIC: INTEGER m2_4<br>- - - - - - - - - - - - - - - - - - - - - - - - - -<br>SPECIAL VALUES<br>00  Less than one year |
| --- | --- |

| M2.5. What is the highest educational qualification %rostertitle% has acquired?<br><br>E  m2_4>=5 | SINGLE-SELECT m2_5<br>00 ◯  NONE<br>01 ◯  QURANIC SCHOOL<br>02 ◯  PRIMARY INCOMPLETE<br>03 ◯  PRIMARY COMPLETED<br>04 ◯  MIDDLE SCHOOL INCOMPLETE<br>05 ◯  MIDDLE SCHOOL COMPLETED<br>06 ◯  SECONDARY INCOMPLETE<br>07 ◯  SECONDARY COMPLETED<br>08 ◯  UNIVERSITY INCOMPLETE<br>09 ◯  UNIVERSITY COMPLETED |
| --- | --- |

| M2.7. Has %rostertitle% ever lived in this household? | SINGLE-SELECT m2_7<br>01 ◯  YES<br>00 ◯  NO |
| --- | --- |

| M2.8. In which year did %rostertitle% leave the household?<br><br>I  IF MORE THAN ONE INSTANCE, REPORT MOST RECENT YEAR.<br>E  m2_7 ==1<br>V1  self>(IntYear-m2_4)<br>M1  This seems unlikely. Person only can have left the household after being born.<br>V2  self<=IntYear<br>M2  This is not possible. Year must not be within the future. | NUMERIC: INTEGER m2_8<br>- - - - - - - - - - - - - - - - - - - - - - - - - - |
| --- | --- |

| M2.9. Where does %rostertitle% currently live? | SINGLE-SELECT m2_9<br>001 ◯  In the same rural community<br>002 ◯  In a different rural community<br>003 ◯  In Dakar<br>004 ◯  In another urban city in Senegal<br>005 ◯  In another country of West Africa<br>006 ◯  In Europe<br>999 ◯  Other (specify)<br>009 ◯  Don't know |
| --- | --- |

| M2.9oth. Please specify<br><br>E  m2_9 == 999 | TEXT m2_9oth<br>-------------------------------------------------- |
| --- | --- |

| | |
|---|---|
| **M2.12.** For how many years has %rostertitle% lived in this location? | NUMERIC: INTEGER      m2_12 |
| V1 `self<=(IntYear-m2_8)` | |
| M1 Respondent stated to have left the household in the year %m2_8%. Therefore this answer is not possible. Please check. | SPECIAL VALUES |
| | 00 Less than 12 months |
| | 98 Don't know |

| | |
|---|---|
| **M2.13.** What is %rostertitle%'s <u>CURRENT</u> main occupation? | SINGLE-SELECT      m2_13 |
| | 001 ◯ FARMING |
| | 002 ◯ SELF-EMPLOYED |
| | 003 ◯ WAGE, AGRICULTURAL |
| | 004 ◯ WAGE, NON-AGRICULTURAL |
| | 005 ◯ PROFESSIONAL |
| | 006 ◯ UNPAID APPRENTICESHIP |
| | 007 ◯ STUDENT |
| | 008 ◯ UNEMPLOYED |
| | 999 ◯ OTHER |
| | 098 ◯ Don't know |

| | |
|---|---|
| **M2.13oth.** Please specify other. | TEXT      m2_13oth |
| E `m2_13==999` | |

| | |
|---|---|
| **M2.14.** Just before %rostertitle% left the household in %m2_8%, what was their main activity? | SINGLE-SELECT      m2_14 |
| | 001 ◯ FARMING |
| | 002 ◯ SELF-EMPLOYED |
| | 003 ◯ WAGE, AGRICULTURAL |
| | 004 ◯ WAGE, NON-AGRICULTURAL |
| | 005 ◯ PROFESSIONAL |
| | 006 ◯ UNPAID APPRENTICESHIP |
| | 007 ◯ STUDENT |
| | 008 ◯ UNEMPLOYED |
| | 999 ◯ OTHER |
| | 098 ◯ Don't know |

| | |
|---|---|
| **M2.14oth.** Please specify other. | TEXT      m2_14oth |
| E `m2_14==999` | |

| | |
|---|---|
| **M2.15.** Did %rostertitle% send any cash to this household at any point during %refperiod%? | SINGLE-SELECT      m2_15 |
| | 01 ◯ Yes |
| | 00 ◯ No |
| | 98 ◯ Don't know |

| | |
|---|---|
| **M2.16.** At what frequency did %rostertitle% send cash to this household during %refperiod%? | SINGLE-SELECT      m2_16 |
| E `m2_15==1` | 001 ◯ MORE THAN ONCE PER MONTH |
| | 002 ◯ MONTHLY |
| | 003 ◯ QUARTERLY |
| | 004 ◯ SEMI-ANNUALLY |
| | 005 ◯ ANNUALLY |
| | 006 ◯ SPORADICALLY AS NEEDED |
| | 999 ◯ OTHER |

| | |
|---|---|
| **M2.16oth.** Please specify other. | TEXT      m2_16oth |
| E `m2_16==999` | |

| | |
|---|---|
| **M2.17.** How much cash did %rostertitle% send to this household in total during %refperiod% in %lcu%?<br><br>I Value in CFA ESTIMATE VALUE OF NON CFA CURRENCY IN CFA TERMS<br>E m2_15==1<br>V1 self>0<br>M1 Respondent stated that %rostertitle% send cash to this household. Amount of cash must be larger than zero! Please check.<br>V2 self<$err_lcu_val<br>M2 This is too high. Please check.<br>W3 self<$warn_lcu_val<br>M3 This seems quite high. Please confirm with respondent. | NUMERIC: INTEGER         m2_17<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - . |
| **M2.18.** Who in the household kept / decided on the use of this income?<br><br>I SELECT UP TO TWO.<br>F a1_6a>12<br>E m2_15==1 | MULTI-SELECT: LINKED         m2_18 |
| **M2.18a.** How was cash sent by %rostertitle% used?<br><br>E m2_15 ==1 | SINGLE-SELECT         m2_18a<br>001 ◯ Household day to day expenses<br>002 ◯ Unexpected expense (household member fell sick, death..etc)<br>003 ◯ School fees<br>004 ◯ Health expenses<br>005 ◯ Inputs for the agricultural campaign<br>006 ◯ Start or improve micro-enterprise / business<br>999 ◯ Other, specify |
| **M2.18aoth.** Specify other uses.<br><br>E m2_18a == 999 | TEXT         m2_18aoth<br><br>.................................................. |
| **M2.19.** Did %rostertitle% send any in-kind assistance to this household during %refperiod%? | SINGLE-SELECT         m2_19<br>01 ◯ Yes<br>00 ◯ No<br>98 ◯ Don't know |
| **M2.20.** At what frequency did %rostertitle% send in-kind assistance to this household during %refperiod%?<br><br>E m2_19==1 | SINGLE-SELECT         m2_20<br>001 ◯ MORE THAN ONCE PER MONTH<br>002 ◯ MONTHLY<br>003 ◯ QUARTERLY<br>004 ◯ SEMI-ANNUALLY<br>005 ◯ ANNUALLY<br>006 ◯ SPORADICALLY AS NEEDED<br>999 ◯ OTHER |
| **M2.20oth.** Please specify other.<br><br>E m2_20==999 | TEXT         m2_20oth<br><br>.................................................. |

| M2.21. What type of in-kind assistance was sent? | MULTI-SELECT: ORDERED | m2_21 |
|---|---|---|

I READ ALL OPTIONS THEN SELECT UP TO THREE IN ORDER OF IMPORTANCE
E m2_19==1

- 001 ☐ FOOD
- 002 ☐ MEDICINE
- 003 ☐ SCHOOL ITEMS
- 004 ☐ ELECTRONICS
- 005 ☐ HOUSEHOLD ITEMS
- 006 ☐ AGRICULTURAL INPUTS
- 007 ☐ ITEMS FOR BUSINESS
- 999 ☐ OTHER

| M2.21oth. Please list the other items. | LIST | m2_21oth |
|---|---|---|

E m2_21.Contains(999)

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

| M2.22. What was the total estimated cash value (In %lcu%) of all food and other in-kind assistance that %rostertitle% sent to this household during %refperiod%? | NUMERIC: INTEGER | m2_22 |
|---|---|---|

– – – – – – – – – – – – – – – – – – – – – – – – – .

I Value in CFA
E m2_19==1
V1 self>0
M1 Respondent stated that %rostertitle% send in-kind assistance to this household. Value must be larger than zero! Please check.
V2 self<$err_lcu_val
M2 This is too high. Please check.
W3 self<$warn_lcu_val
M3 This seems very high. Please confirm with respondent.

| M2.23. Who in the household kept / decided on the use of this in-kind assistance? | MULTI-SELECT: LINKED | m2_23 |
|---|---|---|

I SELECT UP TO TWO.
F a1_6a>12
E m2_19==1

# [B] PARCEL IDENTIFICATION

E consent==1

STATIC TEXT

*ENUMERATOR: PLEASE HAND OUT THE SKETCH TO THE RESPONDENT.*

STATIC TEXT

*ENUMERATOR, PLEASE CONVEY THE FOLLOWING MESSAGE TO THE RESPONDENT:*

STATIC TEXT

*Please sketch out all of the land parcels that the household had access to <u>during %ag_refperiod%, regardless of whether you are the owner, and regardless of whether you cultivated the land during this period</u>.*

*Please illustrate their relative size, and where they are relative to your home.*

*Note that: A PLOT MUST FULFILL THREE CONDITIONS:*
*1) A continuous piece of land – (small paths between plots are possible)*

*2) A unique crop OR a mixture of crops – differential intercropping scenarios possible*

*3) A uniform, consistent crop management system – a uniform and consistent use of inputs (incl. labour) on the plot, a uniform and consistent water and land management system on the plot, a single person making decision on plot management (or, if more than one manager, they need to make decisions together).*

| ENUMERATOR: TAKE A PICTURE OF THE PARCEL SKETCH | PICTURE | parcelsketch |
|---|---|---|

STATIC TEXT

*Please tell us about each of these parcels.*

*[ENUMERATOR: THIS SHOULD BE FILLED EVEN IF ACCESS WAS NOT FOR THE WHOLE 12 MONTHS.]*

| What is the total land area of your family farms (in HA)? | NUMERIC: INTEGER | ag1 |
|---|---|---|
| | - - - - - - - - - - - - - - - - - - - - - - - - - - - - | |

**B1.1. [ENUMERATOR:] Based on the parcelsketch: Please fill in the number of parcels that the household cultivated on or had access to during %refperiod%.**

NUMERIC: INTEGER — b1_1

I A PARCEL IS A CONTINUOUS PIECE OF LAND THAT IS NOT DIVIDED BY A PATH GREATER THAN 2 METER WIDE. PLEASE CHECK IF THE NUMBER OF PARCELS REPORTED IS IN LINE WITH THE SKETCH DRAWN BY THE RESPONDENT.

W1 `self<15`

M1 This seems a very high number of parcels. Please check.

V2 `self<30`

M2 This is too high. Please check.

[B] PARCEL IDENTIFICATION
# CULTIVATION AND ACCESS TO PARCELS

E `b1_1>0`

[B] PARCEL IDENTIFICATION / CULTIVATION AND ACCESS TO PARCELS
## Roster: PARCEL CHARACTERISTICS
generated by numeric question b1_1

parcelroster

| **B1.2. What is the name of the parcel?** | TEXT | b1_2 |
|---|---|---|
| | ................................................................ | |

I USE A SHORT DESCRIPTIVE PHRASE THAT WILL HELP THE RESPONDENT REMEMBER THE PARCEL BEING DISCUSSED.

V1 `parcelroster.All(y=>IsAnswered(y.b1_2)) ? parcelroster.Select(x=>x.b1_2.ToUpper()).Distinct().Count()==b1_1 : true`

M1 Error! Duplicate entries found! Please give every parcel a unique name!

| **B1.3a. What is the area of %parcelroster%?** | NUMERIC: DECIMAL | b1_3a |
|---|---|---|
| | - - - - - - - - - - - - - - - - - - - - - - - - - - - - | |

V1 `self>0`

M1 A parcel can not have the size of zero. Please check.

**B1.3b. Specify MEASUREMENT UNIT**

SINGLE-SELECT — b1_3b

V1 `area_parcel<20`

M1 The size of the parcel seems very high. Please check.

V2 `area_parcel>0.005`

M2 The size of the parcel seems too small. Please check.

W3 `area_parcel>0.01`

M3 The size of the parcel seems small. Please confirm the size and or check the MEASUREMENT UNIT.

- 01 ○ HECTARE
- 02 ○ SQUARE METER
- 03 ○ SQUARE KILOMETER
- 04 ○ ACRE

| B1.4. How did your household acquire parcel %parcelroster%? | SINGLE-SELECT | b1_4 |
|---|---|---|

001 ○ INHERITED
002 ○ PURCHASED OR LEASED
003 ○ GRANTED / ALLOCATED BY GOVERNMENT
004 ○ GRANTED / ALLOCATED BY LOCAL LEADER
005 ○ RENTED IN
006 ○ SHARE-CROPPED
007 ○ BORROWED FOR FREE
008 ○ CLEARED AND OCCUPIED
999 ○ OTHER

---

**B1.4oth. Please specify**

E `b1_4==999`

TEXT  b1_4oth

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

---

**B1.5. What document do you have to show how you acquired %parcelroster%?**

F `!b1_4.InList(1,8) ? true : @optioncode.InList(1,2,3,999) // Displays all options if b1_4 is not 1 or 8. Otherwise do not display option 4.`

SINGLE-SELECT  b1_5

001 ○ NONE
002 ○ TITLE / DEED ISSUED BY LOCAL GOVERNMENT
003 ○ CERTIFICATE ISSUED BY NON-GOVERNMENT
004 ○ RENTAL AGREEMENT
999 ○ OTHER

---

**B1.5oth. Please specify other.**

E `b1_5==999`

TEXT  b1_5oth

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

---

**B1.6a. How much did you pay to rent %parcelroster% between %ag_refperiod% IN CASH?**

E `b1_4.InList(5,6)`

NUMERIC: DECIMAL  b1_6a

-----------------------------------------

---

**B1.6b. How much did you pay to rent %parcelroster% between %ag_refperiod% IN KIND?**

I IF IN-KIND PAYMENTS, PLEASE EXCLUDE PAYMENTS MADE WITH CROPS HARVESTED FROM THIS PARCEL.
E `b1_4.InList(5,6)`

NUMERIC: DECIMAL  b1_6b

-----------------------------------------

---

**B1.7. Who in the household owns %parcelroster%?**

I LIST UP TO TWO.
F `a1_6a>12`
E `b1_4.InList(1,2,3,4,8,999)`

MULTI-SELECT: LINKED  b1_7

---

**B1.8. How long does it take to travel to %parcelroster%?**

I NUMBER OF MINUTES ONE-WAY TRIP BY USUAL METHOD OF TRANSPORT.
W1 `self<360`
M1 This seems very far away. Please confirm.
V2 `self<600`
M2 A distance of more than 10 hours is not possible. Please check.
V3 `self>0`
M3 Must be more than 0 minutes. If right next to household choose the displayed option.

NUMERIC: INTEGER  b1_8

-----------------------------------------

SPECIAL VALUES

01  Right next to household (Within one minute)

---

| B1.9. What is the color of the soil of plot %parcelroster%? | SINGLE-SELECT | b1_9 |
|---|---|---|
| | 001 ⚪ BLACK<br>002 ⚪ RED<br>003 ⚪ WHITE / LIGHT<br>004 ⚪ YELLOW<br>999 ⚪ OTHER<br>888 ⚪ DON'T KNOW | |

| B1.9a. What is the type of soil? | SINGLE-SELECT | b1_9a |
|---|---|---|
| | 001 ⚪ SABLEUX (DIOR)<br>002 ⚪ SABLEUX - ARGILEUX (DECK DIOR)<br>003 ⚪ ARGILEUX (DECK)<br>999 ⚪ AUTRES | |

| B1.9oth. Please specify other. | TEXT | b1_9oth |
|---|---|---|
| **E** b1_9==999 | ................................................. | |

| B1.10. What erosion structures are on %parcelroster% currently?<br><br>**I** READ ANSWERS Select up to three. If more than three, select three most important. None cannot be selected in conjunction with any other type<br>**V1** !self.Contains(1) \|\| self.ContainsOnly(1)<br>**M1** OPTION "NONE"CAN NOT BE SELECTED WHILE OTHER OPTIONS ARE SELECTED. PLEASE CHECK | MULTI-SELECT | b2_10 |
|---|---|---|
| | 001 ☐ NONE<br>002 ☐ TERRACES<br>003 ☐ BUNDS<br>004 ☐ GABIONS/SANDBAGS<br>005 ☐ DRAINAGE DITCHES<br>006 ☐ TREES<br>007 ☐ GRASS STRIPS/TREE BELT/WOOD MATERIAL<br>008 ☐ HEDGES/CONTOURS<br>999 ☐ OTHER | |

| B1.10oth. Please specify the other erosion structures | TEXT | b2_10aoth |
|---|---|---|
| **E** b2_10.Contains(999) | ................................................. | |

| B1.11. What is the slope of %parcelroster%?<br><br>**I** READ ANSWERS | SINGLE-SELECT | b1_11 |
|---|---|---|
| | 01 ⚪ FLAT<br>02 ⚪ MODERATE<br>03 ⚪ STEEP/HILLY | |

| B1.12. Did you dedicate this entire parcel %rostertitle% or part of it to any of the following uses between %ag_refperiod%?<br><br>**V1** self.Missing.Length==0<br>**M1** Respondent has not answered all questions yet. Please continue untill all uses have been checked. | MULTI-SELECT: YES/NO | b2_1a |
|---|---|---|
| | 00 ☐ / ☐ Cultivated<br>01 ☐ / ☐ Rented out<br>02 ☐ / ☐ Grazing land<br>03 ☐ / ☐ Left fallow<br>04 ☐ / ☐ Virgin land | |

[B] PARCEL IDENTIFICATION / CULTIVATION AND ACCESS TO PARCELS / PARCEL CHARACTERISTICS

## Roster: PARCEL USED AS

generated by multi-select question b2_1a        parcel_use

| B2.1b. Did you dedicate the entire parcel %parcelroster% or only part of it to/as %rostertitle%? | SINGLE-SELECT | b2_1b |
|---|---|---|
| | 01 ⚪ The whole parcel<br>02 ⚪ Only some part of the parcel | |

| | |
|---|---|
| **B2.1c.** What is the area of the parcel that you used to %rostertitle% between %ag_refperiod%? | NUMERIC: DECIMAL $\qquad$ b2_1ca |
| E  b2_1b==2 | |
| V1  self>0 | - - - - - - - - - - - - - - - - - - - - - - - - . - |
| M1  This is not possible. Please check. | |

| | |
|---|---|
| **B2.1cb. UNIT** | SINGLE-SELECT $\qquad$ b2_1cb |
| E  b2_1b==2 | 01 ◯  HECTARE |
| V1  area_parcel>=use_area | 02 ◯  SQUARE METER |
| M1  SIZE OF PLOT ON PARCEL %parcelroster% CAN NOT BE LARGER THAN THE PARCEL ITSELF. PLEASE CHECK EITHER UNIT AND/OR AREA OF PLOT OR PARCEL. | 03 ◯  SQUARE KILOMETER |
| V2  area_parcel>use_area | 04 ◯  ACRE |
| M2  THIS IS NOT POSSIBLE. RESPONDENT STATED THAT IT DID NOT USE THE ENTIRE PARCEL FOR %rostertitle%. PLEASE CHECK. | |

| | |
|---|---|
| **B2.1d.** Did you use / Was this parcel %parcelroster% area used to/as %rostertitle% for the whole 12 months between %ag_refperiod% or less than 12 months? | SINGLE-SELECT $\qquad$ b2_1d |
| | 01 ◯  Whole 12 months |
| | 02 ◯  Less than 12 months |
| V1  self==1 && b2_1b==1 ? b2_1a.Yes.Length==1 : true | |
| M1  This is not possible. Respondent stated to have used the parcel differently between %ag_refperiod%. Therefore, the whole parcel can not be used as/to %rostertitle% for the whole 12 months. | |

| | |
|---|---|
| **B2.1e.** For how many months was the parcel %parcelroster% used as/to %rostertitle% between %ag_refperiod%? | NUMERIC: INTEGER $\qquad$ b2_1e |
| | - - - - - - - - - - - - - - - - - - - - - - - - . - |
| E  b2_1d==2 | SPECIAL VALUES |
| V1  self<11 | 00  Less than one full month |
| M1  This is not possible. Respondent stated that it used this parcel to/as %rostertitle% for less than 12 months. | |

| | |
|---|---|
| **B1.10f.** How much did you receive from renting out this parcel or a part of this parcel between %ag_refperiod% <u>IN CASH</u>? | NUMERIC: INTEGER $\qquad$ b2_1f |
| | - - - - - - - - - - - - - - - - - - - - - - - - . - |
| I  IN CFA | |
| E  @rowcode==1 | |

| | |
|---|---|
| **B1.10g.** How much did you receive from renting out this parcel or a part of this parcel between %ag_refperiod% <u>IN KIND</u>? | NUMERIC: INTEGER $\qquad$ b2_1g |
| | - - - - - - - - - - - - - - - - - - - - - - - - . - |
| I  ASK THE RESPONDENT TO ESTIMATE CASH VALUE OF IN KIND PAYMENTS (IN CFA). | |
| E  @rowcode==1 | |

| | |
|---|---|
| VARIABLE  b2_1ca*AreaConv[(int)b2_1cb].factor | DOUBLE $\qquad$ use_area |

| | |
|---|---|
| **B2.2a.** Between %ag_refperiod%, did you dedicate this entire parcel %parcelroster% or part of it to cultivate the following ? | MULTI-SELECT: YES/NO $\qquad$ b2_2a |
| | 01 ☐ / ☐  Single season crops during the rainy season |
| E  b2_1a.Yes.Contains(0) // Check if there has been a non-cultivation use on parcel | 02 ☐ / ☐  Single season crops during the dry season |
| V1  self.Missing.Length==0 | 03 ☐ / ☐  Trees / multiple season crops |
| M1  Respondent has not answered all questions yet. Please continue untill all uses have been checked. | 04 ☐ / ☐  Homegarden |

| | |
|---|---|
| VARIABLE  b1_3a*AreaConv[(int)b1_3b].factor | DOUBLE $\qquad$ area_parcel |

# [C-S1]. AGRICULTURAL PRODUCTION %SEASON1%

E  `consent==1 && parcelroster.Any(p=>p.b2_2a.Yes.Contains(1))`

---

STATIC TEXT

*[ENUMERATOR: CONVEY THE FOLLOWING STATEMENT TO THE RESPONDENT:]*

STATIC TEXT

*Now I will ask you questions about your crop production. First, I would like to start talking about your agricultural activities during the %season1%. Once we finished this season, I would like to ask you the same questions for the %season2%. Lastly, we will talk about your perennial crop production between %seasontp% and your homegardens.*

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1%
## %SEASON1% INPUTS AND HARVEST

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST
## Roster: PARCEL
generated by numeric question b1_1                                      parcelroster_s1

E  `b2_2a.Yes.Contains(1)`

| | |
|---|---|
| C1.1. Who in the household makes the decisions concerning crops to be planted, input use and the timing of cropping activities on %parcelroster_s1% during %season1%?<br><br>I  Select up to two<br>F  a1_6a>12 | MULTI-SELECT: LINKED      c1s1_1 |
| C1.2. What was %parcelroster_s1% mainly used for before preparing the soil during %season1%? | SINGLE-SELECT      c1s1_2<br>001 ○ CULTIVATED W/ SINGLE SEASON CROPS<br>002 ○ CULTIVATED W/ TREE / PERMANENT CROPS<br>003 ○ RENTED / SHARECROPPED OUT<br>004 ○ LOANED OUT<br>005 ○ GRAZING LAND / PASTURE<br>006 ○ VIRGIN LAND<br>007 ○ DEFRICHE<br>999 ○ OTHER |
| C1.2oth. Please specify other.<br><br>E  `c1s1_2==999` | TEXT      c1s1_2oth<br>................................................................. |
| C1.4. How was crop residue on %parcelroster_s1% from previous planting season mainly used / disposed of? | MULTI-SELECT      c1s1_4<br>001 ☐ BURNED ON FIELD<br>002 ☐ LEFT IN FIELD THEN TILLED / INCORPORATED INTO FIELD<br>003 ☐ CUT AND REMOVED FROM FIELD FOR FODDER OR OTHER USE<br>004 ☐ GRAZED BY ANIMALS<br>999 ☐ OTHER |
| C1.4oth. Please specify other.<br><br>E  `c1s1_4.Contains(999)` | TEXT      c1s1_4oth<br>................................................................. |
| C1.5. Did you grow any sort of legume on this plot %rostertitle% in the season before preparing the soil for %season1%? | SINGLE-SELECT      c1s1_5<br>01 ○ Yes<br>00 ○ No |

| | |
|---|---|
| C1.6. How did you prepare the soil for planting on %parcelroster_s1% during %season1%? | MULTI-SELECT        c1s1_6<br><br>001 ☐ HAND HOEING<br>002 ☐ PLOW - MOLDBOARD<br>003 ☐ PLOW - DISC<br>004 ☐ ZERO / MINIMUM TILLAGE<br>005 ☐ GRATTAGE<br>999 ☐ OTHER |
| C1.6oth. Please specify how you prepared the soil<br><br>E  `c1s1_6.Contains(999)`<br>V1 `self.Length>2`<br>M1 Description too short! Please specify more. | TEXT        c1s1_6oth<br><br>................................................. |
| C1.7. What was the main source of power used to prepare the soil for planting on %parcelroster_s1% during %season1%? | MULTI-SELECT        c1s1_7<br><br>01 ☐ OWN / FREE MANUAL LABOR<br>02 ☐ HIRED MANUAL LABOR<br>03 ☐ OWN / FREE ANIMAL<br>04 ☐ HIRED ANIMAL<br>05 ☐ OWN / FREE MECHANICAL<br>06 ☐ HIRED MECHANICAL |
| C1.8. Which crops were planted on %parcelroster_s1% during %season1%? | MULTI-SELECT        c1s1_8<br><br>501 ☐ MAIZE<br>502 ☐ RICE (UPLAND)<br>503 ☐ RICE (LOWLAND)<br>504 ☐ SORGHUM<br>505 ☐ MILLET<br>506 ☐ PEANUT<br>507 ☐ SESAME<br>508 ☐ COW EYED PEA<br>509 ☐ BISSAP<br>510 ☐ SWEET POTATO<br>511 ☐ ORANGE SWEET POTATO<br>512 ☐ POTATO<br>513 ☐ TOMATO<br>514 ☐ ONION<br>515 ☐ PEPPERS<br>516 ☐ EGGPLANT<br><br>And 11 other symbols [5] |
| C1.8oth. Please specify other.<br><br>E  `c1s1_8.Contains(999)` | TEXT        c1s1_8oth<br><br>................................................. |
| C1.8a. Were these seeds intercropped?<br><br>E  `c1s1_8.Length >1` | SINGLE-SELECT        c1s1_8a<br><br>01 ◯ YES<br>00 ◯ NO |

| C1.8b. Which of these crops were intercropped? | MULTI-SELECT c1s1_8b |
|---|---|
| F c1s1_8.Contains(@optioncode)<br>E c1s1_8.Length >2 | 501 ☐ MAIZE<br>502 ☐ RICE (UPLAND)<br>503 ☐ RICE (LOWLAND)<br>504 ☐ SORGHUM<br>505 ☐ MILLET<br>506 ☐ PEANUT<br>507 ☐ SESAME<br>508 ☐ COW EYED PEA<br>509 ☐ BISSAP<br>510 ☐ SWEET POTATO<br>511 ☐ ORANGE SWEET POTATO<br>512 ☐ POTATO<br>513 ☐ TOMATO<br>514 ☐ ONION<br>515 ☐ PEPPERS<br>516 ☐ EGGPLANT<br><br>And 11 other symbols [6] |
| B3.2. In addition to your single season crops, did you harvest any tree crops or other multiple-season crops from plot %parcelroster_s1% between %ag_refperiod%? | SINGLE-SELECT b3s1_2<br>01 ◯ Yes<br>00 ◯ No |
| C2.1. During %season1%, was the plot %parcelroster_s1% irrigated? | SINGLE-SELECT c2s1_1<br>01 ◯ YES<br>00 ◯ NO |
| C2.2. What is the primary source of water for irrigation on %parcelroster_s1%?<br><br>I Difference between BOREHOLE and WELL is whether the well is drilled (BOREHOLE) or dug (WELL)<br>E c2s1_1==1 | SINGLE-SELECT c2s1_2<br>002 ◯ BOREHOLE<br>003 ◯ WELL<br>004 ◯ RIVER / STREAM<br>005 ◯ POND / LAKE<br>999 ◯ OTHER |
| C2.2oth. Please specify the primary source of water for irrigation.<br><br>E c2s1_2==999<br>V1 self.Length>2<br>M1 Description is too short! Please specify more. | TEXT c2s1_2oth<br><br>............................................................ |
| C2.3. What is the primary method for distributing water for irrigation on plot %parcelroster_s1% during %season1%?<br><br>E c2s1_1==1 | SINGLE-SELECT c2s1_3<br>001 ◯ HAND / BUCKET<br>002 ◯ HAND PUMP<br>003 ◯ MOTORIZED / ELECTRICAL PUMP<br>004 ◯ FLOODING<br>005 ◯ CANAL<br>999 ◯ OTHER |
| C2.3oth. Please specify the primary method for distributing water for irrigation.<br><br>E c2s1_3==999<br>V1 self.Length>2<br>M1 Description is too short! Please specify more. | TEXT c2s1_3oth<br><br>............................................................ |

| | |
|---|---|
| C2.4. Is the irrigation system for %parcelroster_s1% part of a community irrigation scheme during %season1%? <br><br> E `c2s1_1==1` | SINGLE-SELECT `c2s1_4` <br> 01 ◯ Yes <br> 00 ◯ No |
| C2.4a. Who provided this communal irrigation system? <br><br> E `c2s1_1==1 & c2s1_4 ==1` | SINGLE-SELECT `c2s1_4a` <br> 001 ◯ PAFA <br> 002 ◯ Government <br> 003 ◯ Other NGO/ development program <br> 004 ◯ Own community <br> 999 ◯ Other, specify |
| C2.4aoth. Please specify other. <br><br> E `c2s1_4a==99` | TEXT `c2s1_4aoth` <br> ............................................................................ |
| C2.5. Was the timing of water from the irrigation system adequate for production on %parcelroster_s1% during %season1%? <br><br> E `c2s1_1==1` | SINGLE-SELECT `c2s1_5` <br> 01 ◯ Yes <br> 00 ◯ No |
| C2.6. Was the amount of water from the irrigation system adequate for production on %parcelroster_s1% during %season1%? <br><br> E `c2s1_1==1` | SINGLE-SELECT `c2s1_6` <br> 01 ◯ Yes <br> 00 ◯ No |
| C2.7. What was the quality of the water from the irrigation system for %parcelroster_s1% during %season1%? <br><br> E `c2s1_1==1` | SINGLE-SELECT `c2s1_7` <br> 01 ◯ Very Good <br> 02 ◯ Good <br> 03 ◯ Bad <br> 04 ◯ Very Bad |
| C2.8a. Did you use any organic fertilizer on %parcelroster_s1% during %season1%? | SINGLE-SELECT `c2s1_8a` <br> 01 ◯ YES <br> 00 ◯ NO |
| C2.8b. What type of organic fertiliser was used on %parcelroster_s1% in the %season1%? <br><br> E `c2s1_8a==1` | MULTI-SELECT `c2s1_8b` <br> 010 ☐ ANIMAL MANURE (FERMENTED) <br> 011 ☐ FRESH/GREEN MANURE (NON FERMENTED MANURE) <br> 012 ☐ COMPOST <br> 013 ☐ PARCAGE <br> 999 ☐ OTHER (SPECIFY) |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL
## Roster: ORGANIC FERTILIZER
generated by multi-select question `c2s1_8b`                                    `organfert_s1`

| | |
|---|---|
| C2.8oth. Please specify other. <br><br> E `@rowcode==999` | TEXT `c2s1_8oth` <br> ............................................................................ |

| C2.8c. How many times did you apply %rostertitle% on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_8c |
|---|---|---|

- V1 `self>0`
- M1 Respondent stated to have used %rostertitle% during %season1%. There fore must be larger than zero.
- W2 `self<75`
- M2 This seems very high. Please check.
- V3 `self<150`
- M3 The number of applications is too high. Please check.

| C2.8d. How much in total of %rostertitle% was applied on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_8da |
|---|---|---|

- I QUANTITY
- V1 `self>0`
- M1 Respondent stated to have used %rostertitle% during %season1%. There fore must be larger than zero.
- V2 `self.InRange(0.01,1000)`
- M2 This seems unlikely. Please check.

| C2.8db. UNIT | SINGLE-SELECT | c2s1_8db |
|---|---|---|

- I UNIT
- E `c2s1_8da!=888`
- V1 `c2s1_8da.InList(1,2,3,5,6) ? qty_orgfert_s1<$err_fertilizer_qty : true`
- M1 The quantity of fertilizer is too high. Please check.
- W2 `c2s1_8da.InList(1,2,3,5,6) ? qty_orgfert_s1<$warn_fertilizer_qty : true`
- M2 This seems very high. Please confirm.

- 01 ○ KG
- 02 ○ TON
- 03 ○ GRAM
- 04 ○ BAG (NON-LIQUID)
- 05 ○ LITER
- 06 ○ MILLILITER
- 09 ○ CART

| C2.8dbbag. How many KGs does ONE %c2s1_8db% contain? | NUMERIC: DECIMAL | c2s1_8dbbag |
|---|---|---|

- E `c2s1_8db==4`
- V1 `self<=$err_qtybag`
- M1 The quantity of KG per BAG is too high. Please check.
- V2 `qty_orgfert_s1<$err_fertilizer_qty`
- M2 The quantity of fertilizer is too high. Please check.
- W3 `qty_orgfert_s1<$warn_fertilizer_qty`
- M3 This seems very high. Please confirm.
- V4 `self>0`
- M4 This is not possible. KG per ONE BAG must be larger than zero. Please check.

| C2.8dbbag2. How many KGs does ONE %c2s1_8db% contain? | NUMERIC: INTEGER | c2s1_8dbbag2 |
|---|---|---|

- E `c2s1_8db == 9`

| VARIABLE | DOUBLE | qty_orgfert_s1 |
|---|---|---|

```
c2s1_8db.InList(1,2,3,5,6) ? c2s1_8da*WeightplusLiterCon
v[(int)c2s1_8db].factor : new[]{c2s1_8da*c2s1_8dbbag, c2
s1_8da*c2s1_8dbbag2}.Sum()
```

STATIC TEXT

*Now I would like to ask you about inorganic fertilizers that you used during %season1%.*

| C2.9a. Did you use any basal inorganic fertilizer on %parcelroster_s1% during %season1%? | SINGLE-SELECT | c2s1_9a |
|---|---|---|

- 01 ○ YES
- 00 ○ NO

| C2.9b. What types of inorganic fertilizer did you apply as basal fertilizer on %parcelroster_s1% during %season1%? | MULTI-SELECT | c2s1_9b |
|---|---|---|

C2.9b. What types of inorganic fertilizer did you apply as basal fertilizer on %parcelroster_s1% during %season1%?

I SELECT UP TO THREE.
E c2s1_9a==1

MULTI-SELECT    c2s1_9b

- 01000 ☐ UREA
- 02000 ☐ NPK
- 03000 ☐ DAP
- 04000 ☐ MOP
- 05000 ☐ AS
- 06000 ☐ SSP
- 07000 ☐ APS
- 08000 ☐ Nitrogen
- 09000 ☐ Phosphate
- 10000 ☐ Potash
- 00999 ☐ OTHER, SPECIFY

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL

## Roster: BASAL INORGANIC FERTILIZER

generated by multi-select question c2s1_9b    basalinorgfrtzl_s1

---

C2.9oth. Please specify

E @rowcode==999

TEXT    c2s1_9both

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

---

C2.9c. How many times did you apply %rostertitle% on %parcelroster_s1% as basal fertilizer during %season1%?

V1 self>0
M1 Respondent stated to have used %rostertitle% during %season1%. The refore must be larger than zero.
V2 self.InRange(1,50)
M2 This seems unlikely. Please check.

NUMERIC: INTEGER    c2s1_9c

---

C2.9da. When was the primary application of basal fertilizer made on %parcelroster_s1% during %season1%?

I YEAR OF APPLICATION
V1 self.InRange(start_agrefperiod_s1.Value.Year,end_agrefperiod_s1.Value.Year)
M1 This is not possible. Year must be within reference period of %season1%!

NUMERIC: INTEGER    c2s1_9da

---

C2.9db. In which MONTH of %c2s1_9da% has the primary application of basal fertilizer been made on %parcelroster_s1%?

I MONTH OF APPLICATION
F @optioncode>=start_agrefperiod_s1.Value.Month || @optioncode<=end_agrefperiod_s1.Value.Month /// Makes sure that only the months of your reference period are listed.

SINGLE-SELECT    c2s1_9db

- 01 ○ January
- 02 ○ February
- 03 ○ March
- 04 ○ April
- 05 ○ May
- 06 ○ June
- 07 ○ July
- 08 ○ August
- 09 ○ September
- 10 ○ October
- 11 ○ November
- 12 ○ December

---

C2.9dc. In which HALF of MONTH %c2s1_9db%?

I HALF OF MONTH

SINGLE-SELECT    c2s1_9dc

- 01 ○ FIRST HALF
- 02 ○ SECOND HALF

| | |
|---|---|
| **C2.9ea.** How much in total of %rostertitle% was applied as basal fertilizer on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL      c2s1_9ea |
| I   QUANTITY | |
| V1   `self>0` | |
| M1   Respondent stated to have used %rostertitle% during %season1% on plot %parcelroster_s1%. Therefore quantity must be larger than zero. | |
| V2   `self.InRange(0.01,1000)` | |
| M2   This seems unlikely. Please check. | |

| | |
|---|---|
| **C2.9eb.** UNIT | SINGLE-SELECT      c2s1_9eb |
| E   `c2s1_9ea!=888` | 01 ◯ KG |
| V1   `c2s1_9eb.InList(1,2,3,5,6,8) ? qty_bas_inorgfert_s1<$err_fertilizer_qty : true` | 02 ◯ TON |
| | 03 ◯ GRAM |
| M1   The quantity of fertilizer is too high. Please check. | 04 ◯ BAG (NON-LIQUID) |
| W2   `c2s1_9eb.InList(1,2,3,5,6,8) ? qty_bas_inorgfert_s1<$warn_fertilizer_qty : true` | 05 ◯ LITER |
| | 06 ◯ MILLILITER |
| M2   This seems very high. Please confirm. | 10 ◯ BUCKET (LIQUID) |
| | 11 ◯ TABLETS |

| | |
|---|---|
| **C2.9dbbag.** How many KGs does <u>ONE %c2s1_9eb%</u> contain? | NUMERIC: DECIMAL      c2s1_9ebbag |
| E   `c2s1_9eb==4` | |
| V1   `self<=$err_qtybag` | |
| M1   The quantity of KG per BAG is too high. Please check. | |
| V2   `qty_bas_inorgfert_s1<$err_fertilizer_qty` | |
| M2   The quantity of fertilizer is too high. Please check. | |
| W3   `qty_bas_inorgfert_s1<$warn_fertilizer_qty` | |
| M3   This seems very high. Please confirm. | |
| V4   `self>0` | |
| M4   This is not possible. KG per ONE BAG must be larger than zero. Please check. | |

| | |
|---|---|
| **C2.9bcan.** How many LITERS does <u>ONE %c2s1_9eb%</u> contain? | NUMERIC: DECIMAL      c2s1_9ebcan |
| E   `c2s1_9eb==10` | |
| V1   `self<=$err_litcan` | |
| M1   The amount of LITERS for <u>ONE BUCKET</u> is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br>`c2s1_9eb.InList(1,2,3,5,6,8) ? c2s1_9ea*WeightplusLiterConv[(int)c2s1_9eb].factor : new[]{c2s1_9ea*c2s1_9ebbag, c2s1_9ea*c2s1_9ebcan}.Sum()` | DOUBLE      qty_bas_inorgfert_s1 |

| | |
|---|---|
| **C2.10a.** Did you use any top-dressing inorganic fertilizer on %parcelroster_s1% during %season1%? | SINGLE-SELECT      c2s1_10a |
| | 01 ◯ YES |
| | 00 ◯ NO |

| | |
|---|---|
| **C2.10b.** What types of inorganic fertilizer did you apply as top-dressing fertilizer on %parcelroster_s1% during %season1%? | MULTI-SELECT      c2s1_10b |
| I   SELECT UP TO THREE. | 01000 ☐ UREA |
| E   `c2s1_10a==1` | 02000 ☐ NPK |
| | 03000 ☐ DAP |
| | 04000 ☐ MOP |
| | 05000 ☐ AS |
| | 06000 ☐ SSP |
| | 07000 ☐ APS |
| | 08000 ☐ Nitrogen |
| | 09000 ☐ Phosphate |
| | 10000 ☐ Potash |
| | 00999 ☐ OTHER, SPECIFY |

## Roster: TOP-DRESSING INORGANIC FERTILIZER

generated by multi-select question c2s1_10b

topdressinorgfrtzl_s1

| | |
|---|---|
| **C2.10both. Please specify** | TEXT        c2s1_10both |
| E @rowcode==999 | ............................................................ |

| | |
|---|---|
| **C2.10C. How many times did you apply %rostertitle% on %parcelroster_s1% as top-dressing fertilizer during %season1%?** | NUMERIC: INTEGER        c2s1_10c |
| V1 self>0 | |
| M1 Respondent stated to have used %rostertitle% during %season1%. Therefore must be larger than zero. | |
| V2 self.InRange(1,50) | |
| M2 This seems unlikely. Please check. | |

| | |
|---|---|
| **C2.10da. When was the primary application of top-dressing fertilizer made on %parcelroster_s1% during %season1%?** | NUMERIC: INTEGER        c2s1_10da |
| I YEAR OF APPLICATION | |
| V1 self.InRange(start_agrefperiod_s1.Value.Year,end_agrefperiod_s1.Value.Year) | |
| M1 This is not possible. Year must be within reference period of %season1%! | |

| | |
|---|---|
| **C2.10db. In which MONTH of %c2s1_10da% has the primary application of top-dressing %rostertitle% been made on %parcelroster_s1%?** | SINGLE-SELECT        c2s1_10db |
| I MONTH OF APPLICATION | 01 ◯ January |
| F @optioncode>=start_agrefperiod_s1.Value.Month \|\| @optioncode<=end_agrefperiod_s1.Value.Month /// Makes sure that only the months of your reference period are listed. | 02 ◯ February |
| | 03 ◯ March |
| | 04 ◯ April |
| | 05 ◯ May |
| | 06 ◯ June |
| | 07 ◯ July |
| | 08 ◯ August |
| | 09 ◯ September |
| | 10 ◯ October |
| | 11 ◯ November |
| | 12 ◯ December |

| | |
|---|---|
| **C2.10dc. In which HALF of MONTH %c2s1_10db%?** | SINGLE-SELECT        c2s1_10dc |
| I HALF OF MONTH | 01 ◯ FIRST HALF |
| | 02 ◯ SECOND HALF |

| | |
|---|---|
| **C2.10ea. How much in total of %rostertitle% was applied as top-dressing fertilizer on %parcelroster_s1% during %season1%?** | NUMERIC: DECIMAL        c2s1_10ea |
| I QUANTITY | |
| V1 self>0 | |
| M1 Respondent stated to have used %rostertitle% during %season1% on plot %parcelroster_s1%. Therefore quantity must be larger than zero. | |
| V2 self.InRange(0.01,1000) | |
| M2 This seems unlikely. Please check. | |

| | |
|---|---|
| **C2.10eb. UNIT** | SINGLE-SELECT        c2s1_10eb |
| E c2s1_10da!=888 | 01 ◯ KG |
| V1 c2s1_10eb.InList(1,2,3,5,6,8) ? qty_top_inorgfert_s1<$err_fertilizer_qty : true | 02 ◯ TON |
| M1 The quantity of fertilizer is too high. Please check. | 03 ◯ GRAM |
| W2 c2s1_10eb.InList(1,2,3,5,6,8) ? qty_top_inorgfert_s1<$warn_fertilizer_qty : true | 04 ◯ BAG (NON-LIQUID) |
| M2 This quantity of input is very high. Please confirm. | 05 ◯ LITER |
| | 06 ◯ MILLILITER |
| | 10 ◯ BUCKET (LIQUID) |
| | 11 ◯ TABLETS |

## C2.10dbbag. How many KGs does <u>ONE %c2s1_10eb%</u> contain?

| | |
|---|---|
| E | `c2s1_10eb==4` |
| V1 | `self<=$err_qtybag` |
| M1 | The quantity of KG per BAG is too high. Please check. |
| W2 | `qty_top_inorgfert_s1<$warn_fertilizer_qty` |
| M2 | This quantity of fertilizer is very high. Please confirm. |
| V3 | `qty_top_inorgfert_s1<$err_fertilizer_qty` |
| M3 | The quantity of fertilizer is too high. Please check. |
| V4 | `self>0` |
| M4 | This is not possible. KG per ONE BAG must be larger than zero. Please check. |

NUMERIC: DECIMAL     c2s1_10ebbag

- - - - - - - - - - - - - - - - - - - - - - - - - - -

---

## C2.10bcan. How many LITERS does <u>ONE %c2s1_10eb%</u> contain?

| | |
|---|---|
| E | `c2s1_10eb==10` |
| V1 | `self<=$err_litcan` |
| M1 | The amount of LITERS for <u>ONE %c2s1_10eb%</u> is too high. Please check. |
| V2 | `qty_top_inorgfert_s1<$warn_fertilizer_qty` |
| M2 | The quantity of fertilizer is very high. Please confirm. |
| V3 | `qty_top_inorgfert_s1<$err_fertilizer_qty` |
| M3 | The quantity of fertilizer is too high. Please check. |

NUMERIC: DECIMAL     c2s1_10ebcan

- - - - - - - - - - - - - - - - - - - - - - - - - - -

---

VARIABLE

```
c2s1_10eb.InList(1,2,3,5,6,8) ? c2s1_10ea*WeightConv[(in
t)c2s1_10eb].factor : new[]{c2s1_10ea*c2s1_10ebbag, c2s1
_10ea*c2s1_10ebcan}.Sum()
```

DOUBLE     qty_top_inorgfert_s1

---

## C2.11a. How many complete weedings did you do on %parcelroster_s1% during %season1%?

| | |
|---|---|
| V1 | `self<150` |
| M1 | This seems unlikely. Please check. |

NUMERIC: INTEGER     c2s1_11a

- - - - - - - - - - - - - - - - - - - - - - - - - - -

SPECIAL VALUES

00   Never weeded

---

## C2.11b. How many weeks after planting was the first weeding completed on %parcelroster_s1% during %season1%?

| | |
|---|---|
| E | `c2s1_11a>0` |
| V1 | `self>0` |
| M1 | This is not possible. Weeding has been done, must be larger than 0. |

NUMERIC: INTEGER     c2s1_11b

- - - - - - - - - - - - - - - - - - - - - - - - - - -

SPECIAL VALUES

01   Within week of planting

---

## C2.12a. Did you use any pesticides / herbicides on this %parcelroster_s1% during %season1%?

SINGLE-SELECT     c2s1_12a

01 ◯ YES
00 ◯ NO

---

## C2.12b. What type(s) of pesticide / herbicide did you apply on plot %parcelroster_s1% during %season1%?

| | |
|---|---|
| I | SELECT UP TO THREE. |
| E | `c2s1_12a==1` |

MULTI-SELECT     c2s1_12b

100 ☐ CONFIDOR
101 ☐ DELORO
102 ☐ KARATE
103 ☐ TRICHO
104 ☐ ACTARA
105 ☐ MOSIBAR
106 ☐ MORINTO
107 ☐ SPINOSAD
108 ☐ VERTIMEC/ ABAMICTIN
109 ☐ TOPSIN
110 ☐ TACHARGIM
111 ☐ PREVICUR
112 ☐ SERTMICE
113 ☐ ACARICIDE
999 ☐ OTHER (SPECIFY)

# Roster: PESTICIDE
generated by multi-select question c2s1_12b

pesticide_s1

---

**C2.12both.** Please name the other pesticide/herbicide that you applied on %parcelroster_s1% during %season1%

TEXT

c2s1_12both

E @rowcode==999

---

**C2.12ca.** How much in total of %rostertitle% was applied on %parcelroster_s1% during %season1%?

NUMERIC: DECIMAL

c2s1_12ca

I QUANTITY
V1 `self>0`
M1 Quantity must be larger than zero. Please check.
V2 `self.InRange(0.01,1000)`
M2 This seems unlikely. Please check.

---

**C2.12cb.** UNIT

SINGLE-SELECT

c2s1_12cb

- 01 ◯ KG
- 02 ◯ TON
- 03 ◯ GRAM
- 04 ◯ BAG (NON-LIQUID)
- 05 ◯ LITER
- 06 ◯ MILLILITER
- 10 ◯ BUCKET (LIQUID)
- 11 ◯ TABLETS

E `c2s1_12ca!=888`
V1 `c2s1_12cb.InList(1,2,3,5,6,8) ? qty_pesticide_s1<$err_pesticide_qty : true`
M1 The quantity of pesticides is too high. Please check.
W2 `c2s1_12cb.InList(1,2,3,5,6,8) ? qty_pesticide_s1<$warn_pesticide_qty : true`
M2 The quantity of pesticides seems very high. Please confirm.

---

**C2.12cbag.** How many KGs does ONE %c2s1_12cb% contain?

NUMERIC: DECIMAL

c2s1_12cbag

E `c2s1_12cb==4`
V1 `self<=$err_qtybag`
M1 The quantity of KG per BAG is too high. Please check.
V2 `qty_pesticide_s1<$err_pesticide_qty`
M2 The quantity of pesticides is too high. Please check.
W3 `qty_pesticide_s1<$warn_pesticide_qty`
M3 The quantity of pesticides seems very high. Please confirm.

---

**C2.12ccan.** How many LITERS does ONE %c2s1_12cb% contain?

NUMERIC: DECIMAL

c2s1_12ccan

E `c2s1_12cb==10`
V1 `qty_pesticide_s1<$err_pesticide_qty`
M1 The quantity of pesticides is too high. Please check.
W2 `qty_pesticide_s1<$warn_pesticide_qty`
M2 The quantity of pesticides seems very high. Please confirm.
V3 `self<=$err_litcan`
M3 The amount of LITERS for <u>ONE %c2s1_12cb%</u> is too high. Please check.

---

VARIABLE

DOUBLE

qty_pesticide_s1

`c2s1_12cb.InList(1,2,3,5,6,8) ? c2s1_12ca*WeightConv[(int)c2s1_12cb].factor : new[]{c2s1_12ca*c2s1_12cbag, c2s1_12ca*c2s1_12ccan}.Sum()`

---

**C2.12da.** When was the primary application of %rostertitle% on %parcelroster_s1% during %season1%?

NUMERIC: INTEGER

c2s1_12da

I YEAR OF APPLICATION
V1 `self.InRange(start_agrefperiod_s1.Value.Year,end_agrefperiod_s1.Value.Year)`
M1 This is not possible. Year must be within reference period of %season1%!

---

| C2.12db. In which MONTH of %c2s1_12da% has the primary application of top-dressing %rostertitle% been made on %parcelroster_s1%? | SINGLE-SELECT | c2s1_12db |
|---|---|---|
| | 01 ◯ January | |
| I MONTH OF APPLICATION | 02 ◯ February | |
| F @optioncode>=start_agrefperiod_s1.Value.Month \|\| @optioncode<=end_agrefperiod_s1.Value.Month /// Makes sure that only the months of your reference period are listed. | 03 ◯ March | |
| | 04 ◯ April | |
| | 05 ◯ May | |
| | 06 ◯ June | |
| | 07 ◯ July | |
| | 08 ◯ August | |
| | 09 ◯ September | |
| | 10 ◯ October | |
| | 11 ◯ November | |
| | 12 ◯ December | |

| C2.12dc. In which HALF of MONTH %c2s1_12db%? | SINGLE-SELECT | c2s1_12dc |
|---|---|---|
| | 01 ◯ FIRST HALF | |
| I HALF OF MONTH | 02 ◯ SECOND HALF | |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL

# LABOR

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL / LABOR

# LABOR - LAND PREPARATION

| C2.17. How many days of family labor were worked on land preparation on %parcelroster_s1% during %season1%: | NUMERIC: INTEGER | c2s1_17 |
|---|---|---|
| | ------------------------------- | |

| C2.17aa. How many ADULT MALES worked on land preparation on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_17aa |
|---|---|---|
| | ------------------------------- | |
| V1 self.InRange(0,100) | | |
| M1 This seems unlikely. Please check. | | |

| C2.17ab. How many ADULT FEMALES worked on land preparation on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_17ab |
|---|---|---|
| | ------------------------------- | |
| I Adult Female Days | | |
| V1 self.InRange(0,100) | | |
| M1 This seems unlikely. Please check. | | |

| C2.17ac. How many CHILDREN (≤14 yrs) worked on land preparation on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_17ac |
|---|---|---|
| | ------------------------------- | |
| I Child (≤14 yr) Days | | |
| V1 self.InRange(0,100) | | |
| M1 This seems unlikely. Please check. | | |

| C2.17b. How many days of Exchange/Free labor were worked on land preparation on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_17b |
|---|---|---|
| | ------------------------------- | |
| I DAYS | | |
| V1 self<$err_labor_s1 | | |
| M1 This amount of days of exchange/free labor during %season1% is too high. Please check. | | |

| | | |
|---|---|---|
| C2.17c. How many days of hired labor were worked on land preparation on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_17c |

I DAYS
V1 `self<$err_labor_s1`
M1 This amount of days of hired labor during %season1% is too high. Please check.

| | | |
|---|---|---|
| C2.17d. What was the total cost for the %c2s1_17c% days of hired labor on land preparation on %parcelroster_s1% during %season1% in cash and in kind in %lcu%? | NUMERIC: INTEGER | c2s1_17d |

I Value in %lcu%
E `c2s1_17c>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL / LABOR
## LABOR - PLANTING

| | | |
|---|---|---|
| C2.17. How many days of family labor were worked on planting on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_20 |

| | | |
|---|---|---|
| C2.17aa. How many ADULT MALES worked on planting on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_20aa |

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.17ab. How many ADULT FEMALES worked on planting on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_20ab |

I Adult Female Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.17ac. How many CHILDREN (≤14 yrs) worked on planting on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_20ac |

I Child (≤14 yr) Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.17b. How many days of Exchange/Free labor were worked on planting on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_20b |

I DAYS
V1 `self<$err_labor_s1`
M1 This amount of days of exchange/free labor during %season1% is too high. Please check.

| C2.17c. How many days of hired labor were worked on planting on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_20c |
|---|---|---|

I DAYS
V1 `self<$err_labor_s1`
M1 This amount of days of hired labor during %season1% is too high. Please check.

| C2.17d. What was the total cost for the %c2s1_17c% days of hired labor on planting on %parcelroster_s1% during %season1% <u>in cash and in kind</u> in %lcu%? | NUMERIC: INTEGER | c2s1_20d |
|---|---|---|

I Value in %lcu%
E `c2s1_17c>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL / LABOR

## LABOR - HARVEST

| C2.18. How many days of family labor were worked on harvest on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_18 |
|---|---|---|

| C2.18aa. How many ADULT MALES worked on land harvest on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_18aa |
|---|---|---|

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| C2.18ab. How many ADULT FEMALES worked on harvest on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER | c2s1_18ab |
|---|---|---|

| C2.18ac. How many days CHILDREN (≤14 yr) worked on harvest on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_18ac |
|---|---|---|

I Child (≤14 yr) Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| C2.18b. How many days of exchange / free labor were worked on harvest on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_18b |
|---|---|---|

I DAYS
V1 `self<$err_labor_s1`
M1 This amount of days of exchange/free labor during %season1% is too high. Please check.

| | |
|---|---|
| C2.18c. How many days of hired labor were worked on harvest on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL          c2s1_18c<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

  I  DAYS
V1  `self<$err_labor_s1`
M1  This amount of days of hired labor during %season1% is too high. Please check.

| | |
|---|---|
| C2.18d. What was the total cost for the %c2s1_18c% days of hired labor on harvest on %parcelroster_s1% during %season1% <u>in cash and in kind</u> in %lcu%? | NUMERIC: INTEGER          c2s1_18d<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

  I  Value in %lcu%
  E  `c2s1_18c>0`
V1  `self>0`
M1  Respondent hired paid labor. Costs must be larger than zero.
V2  `self<$err_laborcost`
M2  The laborcost are too high. Please check.
W3  `self<$warn_laborcost`
M3  The laborcost seem very high. Please confirm.

| | |
|---|---|
| C2.19a. Did you have any other family labor and/or exchange/free labor and/or hired labor for any other activity on plot %parcelroster_s1% during %season1%? | SINGLE-SELECT          c2s1_19a<br>01 ○ Yes<br>00 ○ No |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL / LABOR
## LABOR - ANY OTHER ACTIVITY

  E  `c2s1_19a==1`

| | |
|---|---|
| C2.19aoth. Please specify the other activities. | TEXT          c2s1_19aoth<br>. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |

| | |
|---|---|
| C2.19. How many days of family labor were worked on any other activity on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL          c2s1_19<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| | |
|---|---|
| C2.19aa. How many ADULT MALES worked on any other activities on %parcelroster_s1% during %season1%? | NUMERIC: INTEGER          c2s1_19aa<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

  I  ADULT MALES
V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| | |
|---|---|
| C2.19bb. How many ADULT FEMALES worked on any other activity on %parcelroster_s1% during %season1% | NUMERIC: DECIMAL          c2s1_19bb<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

  I  Adult Females
V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| | |
|---|---|
| C2.19bc. How many CHILDREN worked on any other activity on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL          c2s1_19bc<br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

  I  Children (<= 14 yrs)
V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| C2.19c. How many days of exchange/free labor were worked on any other activity on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_19c |
|---|---|---|
| I DAYS | | |

I DAYS
V1 `self<$err_labor_s1`
M1 This amount of days of exchange/free labor during %season1% is too high. Please check.

---

| C2.19d. How many days of hired labor were worked on any other activity on %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL | c2s1_19d |
|---|---|---|

I DAYS
V1 `self<$err_labor_s1`
M1 This amount of days of hired labor during %season1% is too high. Please check.

---

| C2.19e. What was the total cost for the %c2s1_19d% days of hired labor on any other activity on %parcelroster_s1% during %season1% <u>in cash and in-kind</u> in %lcu%? | NUMERIC: INTEGER | c2s1_19e |
|---|---|---|

I Value in %lcu%
E `c2s1_19d>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL
# PLANTING, STRESSES AND HARVEST

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL / PLANTING, STRESSES AND HARVEST
## Roster: PLOT %PARCELROSTER_S1% - CROP
generated by multi-select question c1s1_8

plotcrop_s1

| C3.0. How much of the area of %parcelroster_s1% was cultivated with %rostertitle%? | SINGLE-SELECT | c3s1_0 |
|---|---|---|
| | 10 ◯ 10% | |
| E `c1s1_8.Length>1` | 20 ◯ 20% | |
| | 30 ◯ 30% | |
| | 40 ◯ 40% | |
| | 50 ◯ 50% | |
| | 60 ◯ 60% | |
| | 70 ◯ 70% | |
| | 80 ◯ 80% | |
| | 90 ◯ 90% | |

| C3.1. Was the seed for %rostertitle% local / recycled, or hybrid / improved? | SINGLE-SELECT | c3s1_1 |
|---|---|---|
| | 004 ◯ AUTO PRODUITE | |
| | 006 ◯ SEMENCE CERTIFIEE (CONTROLE) | |
| | 007 ◯ SEMENCE AMELIOREE | |
| | 001 ◯ LOCAL / RECYCLED | |
| | 002 ◯ HYBRID / IMPROVED | |
| | 003 ◯ MIX | |
| | 888 ◯ DON'T KNOW | |

| | |
|---|---|
| C3.2a. How much seed/seedling was planted for %rostertitle% on %parcelroster_s1% during the %season1%? | NUMERIC: DECIMAL      c3s1_2a |
| I  QUANTITY<br>V1  `self.InRange(0.01,999)`<br>M1  This seems unlikely. Please check. | |

| | |
|---|---|
| C3.2b.UNIT OF SEEDS | SINGLE-SELECT      c3s1_2b |
| I  UNIT OF QUANTITY<br>E  `c3s1_2a>0 && c3s1_2a!=888` | 01 ◯ KG<br>02 ◯ SEEDLINGS<br>04 ◯ BAG (NON-LIQUID)<br>07 ◯ BARIGO |

| | |
|---|---|
| C3.2bbag. How many KGs does <u>ONE %c3s1_2b%</u> contain? | NUMERIC: DECIMAL      c3s1_2bbag |
| E  `c3s1_2b==4`<br>V1  `self>0`<br>M1  This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V2  `self<=$err_qtybag`<br>M2  The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| C3.3a. When did you finish planting for %rostertitle% on %parcelroster_s1% during %season1%? | SINGLE-SELECT      c3s1_3a |
| I  IF PLANTED MULTIPLE TIMES IN SEASON, ENTER FOR MONTH OF LARGEST PLANTATION<br>F  `@optioncode>=start_agrefperiod_s1.Value.Month \|\| @optioncode<=end_agrefperiod_s1.Value.Month` /// Makes sure that only the months of your reference period are listed. // Check if you want to add M<br>[And 168 other symbols \[1\]] | 01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December |

| | |
|---|---|
| C3.3b.In which half of the month %c3s1_3a% did you finish planting? | SINGLE-SELECT      c3s1_3b |
| | 01 ◯ FIRST HALF<br>02 ◯ SECOND HALF |

| | |
|---|---|
| C3.4a. How much %rostertitle% did you harvest from %parcelroster_s1% during %season1%? | NUMERIC: DECIMAL      c3s1_4a |
| I  QUANTITY | |

| | |
|---|---|
| C3.4b. UNIT OF HARVEST | SINGLE-SELECT      c3s1_4b |
| I  UNIT<br>E  `c3s1_4a>0 && c3s1_4a!=888`<br>V1  `stand_harvests1<=$err_harvest`<br>M1  Quantity of harvest is too high. Please check. | 01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG (NON-LIQUID)<br>07 ◯ BARIGO |

| | |
|---|---|
| C3.4bbag. How many KGs does <u>ONE %c3s1_4b%</u> contain? | NUMERIC: DECIMAL      c3s1_4bbag |
| E  `c3s1_4b==4`<br>V1  `self>0`<br>M1  This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V2  `stand_harvests1<=$err_harvest`<br>M2  Quantity of harvest is too high. Please check.<br>V3  `self<=$err_qtybag`<br>M3  The quantity of KG per BAG is too high. Please check. | |

| VARIABLE | DOUBLE | stand_harvests1 |
|---|---|---|

c3s1_4b.InList(1,2,3,7) ? c3s1_4a*WeightConv[(int)c3s1_4b].factor : new[]{c3s1_4a*c3s1_4bbag}.Sum()

---

**C3.5. Was the area harvested less than the area planted?**

I ENUMERATOR: Avez-vous récolté moins que ce que vous esperiez?

SINGLE-SELECT · c3s1_5

- 01 ○ Yes
- 00 ○ No

---

**C3.6. Why was the area harvested less than the area planted?**

I SELECT ONE
E c3s1_5==1

SINGLE-SELECT · c3s1_6

- 001 ○ Drought
- 002 ○ Irregular Rains
- 003 ○ Floods
- 004 ○ Landslides
- 005 ○ Fire
- 006 ○ Insects
- 007 ○ Animals
- 008 ○ Disease
- 009 ○ Theft
- 999 ○ Other, Specify

---

**C3.6oth. Please specify other.**

E c3s1_6==999

TEXT · c3s1_2oth6

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

---

**C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_s1% during %season1%?**

F @optioncode>=start_agrefperiod_s1.Value.Month || @optioncode<=end_agrefperiod_s1.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add M
And 163 other symbols [2]
E c3s1_4a>0

SINGLE-SELECT · c3s1_7a

- 01 ○ January
- 02 ○ February
- 03 ○ March
- 04 ○ April
- 05 ○ May
- 06 ○ June
- 07 ○ July
- 08 ○ August
- 09 ○ September
- 10 ○ October
- 11 ○ November
- 12 ○ December

---

**C3.7b.In which half of the month %c3s1_7a% did you finish harvesting?**

E c3s1_4a>0

SINGLE-SELECT · c3s1_7b

- 01 ○ FIRST HALF
- 02 ○ SECOND HALF

---

**C3.8. Who in the household makes the decision concerning the use of %rostertitle% harvested from %parcelroster_s1% during %season1%?**

I Select up to two
F a1_6a>12

MULTI-SELECT: LINKED · c3s1_8

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL
## PERENNIAL CROPS ON PLOT %ROSTERTITLE%

E b3s1_2==1

---

STATIC TEXT

*You mentioned before that, besides single season crops, you also cultivated perennial trees and/or multiple season crops on this plot.*

| C1.2. Which trees / permanent crops were harvested from %parcelroster_s1% between %seasontp%? | MULTI-SELECT | c1tps1_2 |
|---|---|---|

MULTI-SELECT     c1tps1_2

- 527 ☐ WATERMELON
- 528 ☐ BANANA
- 529 ☐ PLANTAIN
- 530 ☐ MANGO
- 531 ☐ PINNEAPLE
- 532 ☐ PAPAYA
- 533 ☐ GUYAVA
- 534 ☐ ORANGE
- 535 ☐ LEMON
- 536 ☐ LIME
- 537 ☐ APPLE
- 538 ☐ COCONUT
- 539 ☐ POMEGRANADE
- 540 ☐ TANGERINE
- 541 ☐ CHERRY
- 542 ☐ MADD/JUJUBE/SOUMP

And 5 other symbols [7]

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS AND HARVEST / PARCEL / PERENNIAL CROPS ON PLOT %ROSTERTITLE%

## Roster: PERENNIAL CROP ON %PARCELROSTER_S1%

generated by multi-select question `c1tps1_2`
    plotcrop_tps1

| Please specify the crop | TEXT | c1tps1_2oth |
|---|---|---|

E `@rowcode==999`

·····················································································

---

**C1.3. Is the %rostertitle% planted in a dedicated area, or spread throughout %parcelroster_s1%?**

SINGLE-SELECT     c1tps1_3

- 01 ○ Dedicated Area
- 02 ○ Spread Throughout

---

**C1.4. Approximately how much of %parcelroster_s1% was/is planted with %rostertitle% ?**

E `c1tps1_3==1`

SINGLE-SELECT     c1tps1_4

- 01 ○ Less than 1/4
- 02 ○ 1/4
- 03 ○ 1/2
- 04 ○ 3/4
- 05 ○ The whole area of plot

---

**C1.5. How many %rostertitle% trees/crops are placed on this plot %parcelroster_s1%?**

V1 `self>0`
M1 Respondent said that this plot is planted with this crop. Quantity must be larger than zero.

NUMERIC: INTEGER     c1tps1_5

---

**C1.6. In what year were most of these %rostertitle% planted on plot %parcelroster_s1%?**

I YEAR
V1 `self>1900 || self==888`
M1 This year is too far in the past. Please check.
V2 `self<=IntYear`
M2 Year must not be within the future.

NUMERIC: INTEGER     c1tps1_6

SPECIAL VALUES

888 Don't know

---

**C1.7. How many %rostertitle% were planted on %parcelroster_s1% between %seasontp%?**

I NUMBER OF PLANTED CROP
V1 `self<=c1tps1_5`
M1 This seems unlikely. Respondent stated that there are %c1tps1_6% crops on this plot. Planted crops within %seasontp% should be smaller or equal to this number. Please check.

NUMERIC: INTEGER     c1tps1_17

---

| | |
|---|---|
| **C3.4a.** How much %rostertitle% did you harvest from %parcelroster_s1% during %seasontp%?<br><br>I QUANTITY | NUMERIC: DECIMAL $\qquad$ c3tps1_4a<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| **C3.4b. UNIT OF HARVEST**<br><br>I UNIT<br>E c3tps1_4a>0 && c3tps1_4a!=888<br>V1 stand_harvesttps1<=$err_harvest<br>M1 Quantity of harvest is too high. Please check. | SINGLE-SELECT $\qquad$ c3tps1_4b<br>01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG (NON-LIQUID)<br>07 ◯ BARIGO |
| **C3.4bbag.** How many KGs does <u>ONE</u> <u>%c3tps1_4b%</u> contain?<br><br>E c3tps1_4b==4<br>V1 self>0<br>M1 This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V2 stand_harvesttps1<=$err_harvest<br>M2 Quantity of harvest is too high. Please check.<br>V3 self<=$err_qtybag<br>M3 The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL $\qquad$ c3tps1_4bbag<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| VARIABLE<br><br>c3tps1_4b.InList(1,2,3) ? c3tps1_4a*WeightConv[(int)c3tps1_4b].factor : c3tps1_4a*c3tps1_4bbag | DOUBLE $\qquad$ stand_harvesttps1 |
| **C3.5.** Was the area harvested less than the area planted?<br><br>I ENUMERATOR: Avez-vous récolté moins que ce que vous esperiez? | SINGLE-SELECT $\qquad$ c3tps1_5<br>01 ◯ Yes<br>00 ◯ No |
| **C3.6.** Why was the area harvested less than the area planted?<br><br>I SELECT ONE<br>E c3tps1_5==1 | SINGLE-SELECT $\qquad$ c3tps1_6<br>001 ◯ Drought<br>002 ◯ Irregular Rains<br>003 ◯ Floods<br>004 ◯ Landslides<br>005 ◯ Fire<br>006 ◯ Insects<br>007 ◯ Animals<br>008 ◯ Disease<br>009 ◯ Theft<br>999 ◯ Other, Specify |
| **C3.6oth.** Please specify other.<br><br>E c3tps1_6==999 | TEXT $\qquad$ c3tps1_2oth6<br><br>.............................................. |
| **C3.7a.** When did you finish harvesting %rostertitle% from %parcelroster_s1% during %seasontp%?<br><br>E c3tps1_4a>0 | SINGLE-SELECT $\qquad$ c3tps1_7a<br>01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December |

| | |
|---|---|
| C3.7b.In which half of the month %c3tps1_7a% did you finish harvesting?<br><br>E  c3tps1_4a>0 | SINGLE-SELECT                                    c3tps1_7b<br>01 ○  FIRST HALF<br>02 ○  SECOND HALF |
| C3.8. Who in the household makes the decision concerning the use of %rostertitle% harvested from %parcelroster_s1% during %seasontp%?<br><br>I  Select up to two<br>F  a1_6a>12 | MULTI-SELECT: LINKED                             c3tps1_8 |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1%
# %SEASON1% POST-HARVEST AND SALES/DISPOSITION

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% POST-HARVEST AND SALES/DISPOSITION
## Roster: CROP
generated by fixed list                                             cropdisposition_s1

501  MAIZE

502  RICE (UPLAND)

503  RICE (LOWLAND)

504  SORGHUM

505  MILLET

506  PEANUT

507  SESAME

508  COW EYED PEA

509  BISSAP

510  SWEET POTATO

511  ORANGE SWEET POTATO

512  POTATO

513  TOMATO

514  ONION

515  PEPPERS

516  EGGPLANT

517  CUCUMBER

518  CARROT

519  RADISH

520  TURNIP

521  CABBAGE

522  LEAFY VEGETABLES

523  PUMPKIN

524  SQUASH

525  GREEN BEANS

526  SOYBEANS

999  OTHER, SPECIFY

E  parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) && x.c1s1_8!=null).Any(c=>c.c1s1_8.Contains(@rowcode))

STATIC TEXT

*ENUMERATOR: PLEASE CONVEY THE FOLLOWING MESSAGE:*

*According to your answers before, you have harvested a total amount of %std_harvest_crop_s1% KG during %season1%.*

*I would like to know about your activities/handling of %rostertitle% after the harvest.*

| VARIABLE | DOUBLE | std_harvest_crop_s1 |
|---|---|---|
| parcelroster_s1.Where(x=>x.c1s1_8!=null && x.c1s1_8.Cont ains(@rowcode)).Sum(p=>p.plotcrop_s1[@rowcode].stand_har vests1) | | |

| C4.1a. How much of the %rostertitle% harvested during %season1% was lost to rotting, insects, rodents, theft, etc in the post-harvest period? | NUMERIC: INTEGER | c4s1_1a |
|---|---|---|
| I QUANTITY | | |

| C4.1b. UNIT | SINGLE-SELECT | c4s1_1b |
|---|---|---|
| E c4s1_1a>0 && c4s1_1a!=888 | 01 ◯ KG | |
| V1 std_harvest_crop_s1>=(c4s1_1b.InList(1,2,3,7) ? c4s1_1a* WeightConv[(int)c4s1_1b].factor : (int)0) | 02 ◯ TON | |
| M1 Not possible that loss is larger than the total harvest! | 03 ◯ GRAM | |
| | 04 ◯ BAG (NON-LIQUID) | |
| | 07 ◯ BARIGO | |

| C4.1bbag. How many KGs does ONE %c4s1_1b% contain? | NUMERIC: DECIMAL | c4s1_1bbag |
|---|---|---|
| E c4s1_1b==4 | | |
| V1 self>0 | | |
| M1 This is not possible. KG per ONE BAG must be larger than zero. Please check. | | |
| V2 self<=$err_qtybag | | |
| M2 The quantity of KG per BAG is too high. Please check. | | |
| V3 std_harvest_crop_s1>=c4s1_1a*c4s1_1bbag | | |

| VARIABLE | DOUBLE | croploss_s1 |
|---|---|---|
| c4s1_1b.InList(1,2,3) ? c4s1_1a*WeightConv[(int)c4s1_1b] .factor : c4s1_1a*c4s1_1bbag | | |

| VARIABLE | DOUBLE | qty_dispo_s1 |
|---|---|---|
| std_harvest_crop_s1-(new[]{croploss_s1}.Sum()) | | |

| C4.2. What was the reason for loss in the post-harvest period? | MULTI-SELECT | c4s1_2 |
|---|---|---|
| I Select up to two | 001 ☐ ROTTING | |
| E c4s1_1a>0 | 002 ☐ INSECTS | |
| | 003 ☐ ANIMAL DAMAGE | |
| | 004 ☐ FLOOD / WATERLOGGING | |
| | 005 ☐ THEFT | |
| | 999 ☐ OTHER | |

| Please specify other. | TEXT | c4s1_2oth |
|---|---|---|
| E c4s1_2.Contains(999) | | |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% POST-HARVEST AND SALES/DISPOSITION / CROP

## CROP USES %SEASON1%

E qty_dispo_s1!=0

STATIC TEXT

*QUANTITY OF HARVEST AFTER POST-HARVEST LOSS IN %season1%: %qty_dispo_s1% KG.*

| | | |
|---|---|---|
| C4.3a. Of the total harvest of %rostertitle% , in the %season1% how much was dedicated to <u>USED FOR HOME CONSUMPTION</u>? | NUMERIC: DECIMAL | c4s1_3a |
| | -------------------------------- . | |
| I  QUANTITY | SPECIAL VALUES<br>00  NONE | |

| | | |
|---|---|---|
| C4.3b. UNIT | SINGLE-SELECT | c4s1_3b |
| E  `c4s1_3a>0 && c4s1_3a!=888` | 01 ◯ KG | |
| V1 `qty_dispo_s1>=(c4s1_3b.InList(1,2,3,7) ? c4s1_3a*WeightConv[(int)c4s1_3b].factor : (int)0)` | 02 ◯ TON<br>03 ◯ GRAM | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%] | 04 ◯ BAG (NON-LIQUID)<br>07 ◯ BARIGO | |

| | | |
|---|---|---|
| C4.3bbag. How many KGs does <u>ONE %c4s1_3b%</u> contain? | NUMERIC: DECIMAL | c4s1_3bbag |
| | -------------------------------- . | |
| E  `c4s1_3b==4` | | |
| V1 `qty_dispo_s1>=c4s1_3a*c4s1_3bbag` | | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%] | | |
| V2 `self>0` | | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | | |
| V3 `self<=$err_qtybag` | | |
| M3 The quantity of KG per BAG is too high. Please check. | | |

| | | |
|---|---|---|
| VARIABLE<br>`c4s1_3b.InList(1,2,3,7) ? c4s1_3a*WeightConv[(int)c4s1_3b].factor : c4s1_3a*c4s1_3bbag` | DOUBLE | standuse_homes1 |

| | | |
|---|---|---|
| C4.4a. Of the total harvest of %rostertitle% , in the %season1% how much was dedicated to <u>SALES/USED TO SELL</u>? | NUMERIC: DECIMAL | c4s1_4a |
| | -------------------------------- . | |
| I  QUANTITY<br>E  `IsAnswered(c4s1_3a)` | SPECIAL VALUES<br>00  NONE | |

| | | |
|---|---|---|
| C4.4b. UNIT | SINGLE-SELECT | c4s1_4b |
| E  `c4s1_4a>0 && c4s1_4a!=888` | 01 ◯ KG | |
| V1 `qty_dispo_s1>=(c4s1_4b.InList(1,2,3) ? c4s1_4a*WeightConv[(int)c4s1_4b].factor : 0)` | 02 ◯ TON<br>03 ◯ GRAM | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%] | 04 ◯ BAG<br>07 ◯ BARIGO | |

| | | |
|---|---|---|
| C4.4bbag. How many KGs does <u>ONE %c4s1_4b%</u> contain? | NUMERIC: DECIMAL | c4s1_4bbag |
| | -------------------------------- . | |
| E  `c4s1_4b==4` | | |
| V1 `qty_dispo_s1>=c4s1_4a*c4s1_4bbag` | | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%] | | |
| V2 `self>0` | | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | | |
| V3 `self<=$err_qtybag` | | |
| M3 The quantity of KG per BAG is too high. Please check. | | |

| | | |
|---|---|---|
| VARIABLE<br>`c4s1_4b.InList(1,2,3,7) ? c4s1_4a*WeightConv[(int)c4s1_4b].factor : c4s1_4a*c4s1_4bbag` | DOUBLE | standuse_saless1 |

| | | |
|---|---|---|
| C4.5a. Of the total harvest of %rostertitle% , in the %season1% how much was dedicated to <u>USED FOR ANIMAL FEED</u> ? | NUMERIC: DECIMAL | c4s1_5a |

I QUANTITY

E `qty_dispo_s1>new[]{standuse_homes1, standuse_saless1}.Sum() && IsAnswered(c4s1_4a)`

SPECIAL VALUES
00 NONE

---

C4.5b. UNIT

E `c4s1_5a>0 && c4s1_5a!=888`

V1 `qty_dispo_s1>=(c4s1_5b.InList(1,2,3) ? c4s1_5a*WeightConv[(int)c4s1_5b].factor : 0)`

M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]

SINGLE-SELECT     c4s1_5b
- 01 ◯ KG
- 02 ◯ TON
- 03 ◯ GRAM
- 04 ◯ BAG
- 07 ◯ BARIGO

---

C4.5bbag. How many KGs does <u>ONE %c4s1_5b%</u> contain?

E `c4s1_5b==4`

V1 `qty_dispo_s1>=c4s1_5a*c4s1_5bbag`

M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]

V2 `self>0`

M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.

V3 `self<=$err_qtybag`

M3 The quantity of KG per BAG is too high. Please check.

NUMERIC: DECIMAL     c4s1_5bbag

---

VARIABLE

`c4s1_5b.InList(1,2,3,7) ? c4s1_5a*WeightConv[(int)c4s1_5b].factor : c4s1_5a*c4s1_5bbag`

DOUBLE     standuse_feeds1

---

C4.6a. Of the total harvest of %rostertitle% , in the %season1% how much was dedicated to <u>SAVED FOR SEEDS</u> ?

I QUANTITY

E `qty_dispo_s1>new[]{standuse_homes1, standuse_saless1, standuse_feeds1}.Sum() && IsAnswered(c4s1_5a)`

NUMERIC: DECIMAL     c4s1_6a

SPECIAL VALUES
00 NONE

---

C4.6b. UNIT

E `c4s1_6a>0 && c4s1_6a!=888`

V1 `qty_dispo_s1>=(c4s1_6b.InList(1,2,3) ? c4s1_6a*WeightConv[(int)c4s1_6b].factor : 0)`

M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]

SINGLE-SELECT     c4s1_6b
- 01 ◯ KG
- 02 ◯ TON
- 03 ◯ GRAM
- 04 ◯ BAG
- 07 ◯ BARIGO

---

C4.6bbag. How many KGs does <u>ONE %c4s1_6b%</u> contain?

E `c4s1_6b==4`

V1 `qty_dispo_s1>=c4s1_6a*c4s1_6bbag`

M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]

V2 `self>0`

M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.

V3 `self<=$err_qtybag`

M3 The quantity of KG per BAG is too high. Please check.

NUMERIC: DECIMAL     c4s1_6bbag

---

VARIABLE

`c4s1_6b.InList(1,2,3,7) ? c4s1_6a*WeightConv[(int)c4s1_6b].factor : c4s1_6a*c4s1_6bbag`

DOUBLE     standuse_seeds1

| | |
|---|---|
| **C4.7a.** Of the total harvest of %rostertitle% , in the %season1% how much was dedicated to <u>ANY OTHER ACTIVITY</u>? | NUMERIC: DECIMAL           c4s1_7a |
| I   QUANTITY<br>E   `qty_dispo_s1>new[]{standuse_homes1, standuse_saless1, standuse_feeds1, standuse_seeds1}.Sum() && IsAnswered(c4s1_6a)` | SPECIAL VALUES<br><br>00   NONE |

| | |
|---|---|
| **C4.7b.** UNIT | SINGLE-SELECT           c4s1_7b |
| E   `c4s1_7a>0 && c4s1_7a!=888`<br>V1   `qty_dispo_s1>=(c4s1_7b.InList(1,2,3) ? c4s1_7a*WeightConv[(int)c4s1_7b].factor : 0)`<br>M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%] | 01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG<br>07 ◯ BARIGO |

| | |
|---|---|
| **C4.7bbag.** How many KGs does <u>ONE %c4s1_7b%</u> contain? | NUMERIC: DECIMAL           c4s1_7bbag |
| E   `c4s1_7b==4`<br>V1   `qty_dispo_s1>=c4s1_7a*c4s1_7bbag`<br>M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]<br>V2   `self>0`<br>M2   This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V3   `self<=$err_qtybag`<br>M3   The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br>`c4s1_7b.InList(1,2,3,7) ? c4s1_7a*WeightConv[(int)c4s1_7b].factor : c4s1_7a*c4s1_7bbag` | DOUBLE           standuse_oths1 |
| VARIABLE<br>`new[]{standuse_homes1,standuse_saless1,standuse_feeds1,standuse_seeds1,standuse_oths1}.Sum()` | DOUBLE           sum_uses1 |

STATIC TEXT

E   `IsAnswered(c4s1_3a) && qty_dispo_s1<sum_uses1`
V1   `qty_dispo_s1>=sum_uses1`

*THE TOTAL SUM OF USE IS LARGER THAN THE TOTAL AMOUNT OF %rostertitle% AVAILABLE DURING %season1%*

*TOTAL QUANTITY AFTER HARVEST AND LOSSES: %qty_dispo_s1% KG.*

*TOTAL SUM OF USE: %sum_uses1% KG*

*PLEASE CHECK HARVEST OR THIS USE SECTION.*

STATIC TEXT

E   `IsAnswered(c4s1_7a) && !sum_uses1.InRange((0.95*qty_dispo_s1),qty_dispo_s1)`
V1   `false`

*ATTENTION!*
*THE TOTAL QUANTITY OF %rostertitle% <u>USES</u> IS SIGNIFICANTLY LOWER THAN THE TOTAL QUANTITY AVAILABLE AFTER HARVEST IN %season1%.*

*QUANTITY AVAILABLE AFTER HARVEST AND LOSSES: %qty_dispo_s1%*
*CURRENT AMOUNT OF USES: %sum_uses1%*
*PLEASE CHECK AND CORRECT.*

STATIC TEXT

*THE TOTAL SUM OF USE OF %rostertitle% HARVESTED DURING %season1%: <u>%sum_uses1% KG</u>.*

| C4.8. What is your main method of storage for this UNPROCESSED %rostertitle% during %season1%? | SINGLE-SELECT | c4s1_8 |
|---|---|---|
| | 001 ◯ Unprotected pile | |
| | 002 ◯ Metallic Silo | |
| | 003 ◯ Heaped in house | |
| | 004 ◯ Bags in house | |
| | 005 ◯ Traditional Granary | |
| | 006 ◯ Improved Granary | |
| | 999 ◯ OTHER | |

| C4.8oth. Please specify other. | TEXT | c4s1_8oth |
|---|---|---|
| E c4s1_8==999 | | |

| C4.8a. Who owns this storage facility? | SINGLE-SELECT | c4s1_8a |
|---|---|---|
| E c4s1_8 == 1 \|\| c4s1_8 == 2 \|\| c4s1_8 == 5 \|\| c4s1_8 == 6 \|\| c4s1_8 == 999 | 001 ◯ Self | |
| | 002 ◯ Community/village | |
| | 003 ◯ Provided by PAFA | |
| | 004 ◯ Provided by another program | |
| | 005 ◯ My PO | |
| | 999 ◯ Other, specify | |

| C4.8aoth. Please specify other. | TEXT | c4s1_8aoth |
|---|---|---|
| E c4s1_8a==999 | | |

| C4.9. Did you do anything to protect the stored %rostertitle% during %season1%? | MULTI-SELECT | c4s1_9 |
|---|---|---|
| V1 !self.Contains(4) \|\| self.ContainsOnly(4) | 001 ☐ Spraying | |
| M1 These answers exclude each other. Please check | 002 ☐ Smoking | |
| | 003 ☐ Hired Guard | |
| | 004 ☐ Did nothing | |
| | 999 ☐ OTHER | |

| C4.9oth. Please specify | TEXT | c4s1_9oth |
|---|---|---|
| E c4s1_9.Contains(999) | | |

| C4.10. What is usually the main purpose for storing this %rostertitle% during %season1%? | SINGLE-SELECT | c4s1_10 |
|---|---|---|
| | 001 ◯ Food for household | |
| | 002 ◯ Wait to sell at a higher price | |
| | 003 ◯ Seed for planting | |
| | 004 ◯ In-kind Payments | |
| | 005 ◯ Wait for the arrival of buyer | |
| | 999 ◯ OTHER | |

| C4.10oth. Please specify | TEXT | c4s1_10oth |
|---|---|---|
| E c4s1_10==999 | | |

| C4.11a. How much of %rostertitle% do you have currently stored? | NUMERIC: DECIMAL | c4s1_11a |
|---|---|---|
| I QUANTITY | | |

| C4.11b. UNIT | SINGLE-SELECT | c4s1_11b |
|---|---|---|
| E c4s1_11a>0 && c4s1_11a!=888 | 01 ◯ KG | |
| V1 qty_dispo_s1>=(c4s1_11b.InList(1,2,3) ? c4s1_11a*WeightConv[(int)c4s1_11b].factor : 0) | 02 ◯ TON | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%] | 03 ◯ GRAM | |
| | 04 ◯ BAG | |
| | 07 ◯ BARIGO | |

| C4.11bbag. How many KGs does <u>ONE</u> <u>%c4s1_11b%</u> contain? | NUMERIC: DECIMAL      c4s1_11bbag |
|---|---|
| | ------------------------------------ |

E   `c4s1_11b==4`
V1  `qty_dispo_s1>=c4s1_11a*c4s1_11bbag`
M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]
V2  `self>0`
M2  This is not possible. KG per ONE BAG must be larger than zero. Please check.
V3  `self<=$err_qtybag`
M3  The quantity of KG per BAG is too high. Please check.

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% POST-HARVEST AND SALES/DISPOSITION / CROP

# SALES %ROSTERTITLE%

E   `c4s1_4a>0`

---

STATIC TEXT

*According to your answer given before, you stated to have sold %c4s1_4a% %c4s1_4b%'s of %rostertitle% during %season1%.*

| C5.1. What was the total value of all sales (In %lcu%) of this unprocessed %rostertitle% harvested during %season1%? | NUMERIC: INTEGER      c5s1_1 |
|---|---|
| | ------------------------------------ |

I   Value in CFA
V1  `self>0`
M1  Respondent said to have sold %rostertitle%. Value must be larger than 0.
V2  `self<$err_lcu_val`
M2  This is too high. Please check.
V3  `self<$warn_lcu_val`
M3  This seems very high. Please check.

| C5.2. Who in your household kept / decided what to do with these earnings? | MULTI-SELECT: LINKED      c5s1_2 |
|---|---|

I   Select up to two

| C5.3.To how many buyers/outlets did you sell your unprocessed %rostertitle% during %season1%? | NUMERIC: INTEGER      c5s1_3 |
|---|---|
| | ------------------------------------ |

V1  `self>0`
M1  Zero transactions seems unlikely. Please check.

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% POST-HARVEST AND SALES/DISPOSITION / CROP / SALES %ROSTERTITLE%

# SALES IN LARGEST TRANSACTION

E   `c5s1_3>0`

---

| C5.3a. How much of the %rostertitle% harvested during %season1% was sold in the largest transaction? | NUMERIC: DECIMAL      c5s1_4a |
|---|---|
| | ------------------------------------ |

I   QUANTITY

| C5.4b. UNIT | SINGLE-SELECT      c5s1_4b |
|---|---|
| | 01 ◯ KG |
| | 02 ◯ TON |
| | 03 ◯ GRAM |
| | 04 ◯ BAG |
| | 07 ◯ BARIGO |

E   `c5s1_4a>0 && c5s1_4a!=888`
V1  `qty_dispo_s1>=(c5s1_4b.InList(1,2,3) ? c5s1_4a*WeightConv[(int)c5s1_4b].factor : 0)`
M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST AFTER LOSSES IS: %qty_dispo_s1%]

| | |
|---|---|
| C5.4bbag. How many KGs does <u>ONE %c5s1_4b%</u> contain? | NUMERIC: DECIMAL        c5s1_4bbag |

E   `c5s1_4b==4`
V1   `qty_dispo_s1>=c5s1_4a*c5s1_4bbag`
M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: XD]
V2   `self>0`
M2   This is not possible. KG per ONE BAG must be larger than zero. Please check.
V3   `self<=$err_qtybag`
M3   The quantity of KG per BAG is too high. Please check.

---

**C5.4c. Was this sale made individually or with the OP?**

E   `c5s1_4a>0`

SINGLE-SELECT      c5s1_4c

- 01 ◯ INDIVIDUALLY
- 00 ◯ WITH THE OP

---

**C5.5. What type of buyer made the purchase in the largest transaction of %rostertitle% harvested during %season1%?**

SINGLE-SELECT      c5s1_5

- 000 ◯ MY OP
- 001 ◯ OTHER HOUSEHOLDS FOR THEIR OWN USE
- 002 ◯ SMALL-SCALE TRADER
- 003 ◯ LARGE-SCALE TRADER / WHOLESALER
- 004 ◯ MILLER / PROCESSOR
- 005 ◯ DIRECT RETAILER
- 006 ◯ RESTAURANT
- 007 ◯ INSTITUTION (CHURCH, HOSPITAL, SCHOOL, OTHER)
- 008 ◯ NGO
- 009 ◯ GOVERNMENT AGENCY
- 010 ◯ PAFA MARKET OPERATOR
- 011 ◯ OTHER MARKET OPERATOR
- 999 ◯ OTHER

---

**C5.5oth. Please specify other.**

E   `c5s1_5==999`

TEXT      c5s1_5oth

---

VARIABLE
`c5s1_4b.InList(1,2,3,7) ? c5s1_4a*WeightConv[(int)c5s1_4b].factor : c5s1_4a*c5s1_4bbag`

DOUBLE      stand_largbuyers1

---

**C5.6. Where did the largest transaction of %rostertitle% harvested during %season1% take place?**

SINGLE-SELECT      c5s1_6

- 001 ◯ FARM GATE (HOME)
- 002 ◯ VILLAGE MARKET (WITHIN OWN VILLAGE)
- 003 ◯ VILLAGE MARKET (OUTSIDE OWN VILLAGE)
- 004 ◯ TOWN MARKET
- 999 ◯ OTHER

---

**C5.6oth. Please specify other.**

E   `c5s1_6==999`

TEXT      c5s1_6oth

| | |
|---|---|
| C5.7. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season1%? IN HOURS | NUMERIC: INTEGER  c5s1_7 |
| I  IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE And 21 other symbols [2] | |
| V1  `self<72` | |
| M1  This number of hours seems unlikely. Please check. | |

| | |
|---|---|
| C5.7a. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season1%? IN MINUTES | NUMERIC: INTEGER  c5s1_7a |
| I  IN MINUTES | |

| | |
|---|---|
| C5.8. What was the main mode of transport used for the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season1%? | SINGLE-SELECT  c5s1_8 <br><br> 001 ○ ON FOOT <br> 002 ○ BICYCLE <br> 008 ○ MOTO <br> 003 ○ ANIMAL DRAWN CART <br> 004 ○ TAXI / BUS <br> 005 ○ LORRY / TRUCK <br> 006 ○ TRAIN <br> 007 ○ BOAT <br> 999 ○ OTHER |

| | |
|---|---|
| C5.8oth. Please specify other. | TEXT  c5s1_8oth |
| E  `c5s1_8==999` | |

| | |
|---|---|
| C5.9. What was the total value (In %lcu%) of the largest transaction of %rostertitle% harvested during %season1%? | NUMERIC: INTEGER  c5s1_9 |
| I  Value in %lcu% VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED | |
| V1  `self<=c5s1_1` | |
| M1  Value of sales to largest buyer of %rostertitle% can not be larger than the value of total sales during %season1%. Please check. | |
| V2  `self>0` | |
| M2  Value of sales to largest buyer must be larger than 0. Please check. | |

| | |
|---|---|
| C5.10. How many months was it before the household received payment in full for the largest transaction of %rostertitle% harvested during %season1%? | NUMERIC: INTEGER  c5s1_10 <br><br> SPECIAL VALUES <br> 00 WITHIN ONE MONTH <br> 88 HAVE NOT YET BEEN PAID <br> 89 PAYMENT RECEIVED PRIOR TO CROP DELIVERY |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% POST-HARVEST AND SALES/DISPOSITION / CROP / SALES %ROSTERTITLE%

## SALES IN SECOND LARGEST TRANSACTION

E  `c5s1_3>1`

| | |
|---|---|
| C5.11a. How much of the %rostertitle% harvested during %season1% was sold in the second largest transaction? | NUMERIC: DECIMAL  c5s1_11a |
| I  QUANTITY | |

## C5.11b. UNIT

E `c5s1_11a>0 && c5s1_11a!=888`

V1 `qty_dispo_s1>=(c5s1_11b.InList(1,2,3) ? c5s1_11a*WeightConv[(int)c5s1_11b].factor : 0)`

M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST AFTER LOSSES IS: %qty_dispo_s1%]

V2 `stand_seclargbuyers1<=stand_largbuyers1`

M2 QUANTITY OF SALES TO SECOND LARGEST BUYER MUST BE SMALLER THAN THE QUANTITY SOLD TO THE LARGEST BUYER.

**SINGLE-SELECT** — c5s1_11b

- 01 ○ KG
- 02 ○ TON
- 03 ○ GRAM
- 04 ○ BAG
- 07 ○ BARIGO

---

## C5.11bbag. How many KGs does <u>ONE</u> %c5s1_11b% contain?

E `c5s1_11b==4`

V1 `qty_dispo_s1>=c5s1_11a*c5s1_11bbag`

M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season1%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s1%]

V2 `self>0`

M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.

V3 `self<=$err_qtybag`

M3 The quantity of KG per BAG is too high. Please check.

**NUMERIC: DECIMAL** — c5s1_11bbag

---

## C5.12. What type of buyer made the purchase in the largest transaction of %rostertitle% harvested during %season1%?

**SINGLE-SELECT** — c5s1_12

- 000 ○ MY OP
- 001 ○ OTHER HOUSEHOLDS FOR THEIR OWN USE
- 002 ○ SMALL-SCALE TRADER
- 003 ○ LARGE-SCALE TRADER / WHOLESALER
- 004 ○ MILLER / PROCESSOR
- 005 ○ DIRECT RETAILER
- 006 ○ RESTAURANT
- 007 ○ INSTITUTION (CHURCH, HOSPITAL, SCHOOL, OTHER)
- 008 ○ NGO
- 009 ○ GOVERNMENT AGENCY
- 010 ○ PAFA MARKET OPERATOR
- 011 ○ OTHER MARKET OPERATOR
- 999 ○ OTHER

---

## C5.12oth. Please specify other.

E `c5s1_12==999`

**TEXT** — c5s1_12oth

---

**VARIABLE**

`c5s1_11b.InList(1,2,3,7) ? c5s1_11a*WeightConv[(int)c5s1_11b].factor : c5s1_11a*c5s1_11bbag`

**DOUBLE** — stand_seclargbuyers1

---

## C5.13. Where did the second largest transaction of %rostertitle% harvested during %season1% take place?

**SINGLE-SELECT** — c5s1_13

- 001 ○ FARM GATE (HOME)
- 002 ○ VILLAGE MARKET (WITHIN OWN VILLAGE)
- 003 ○ VILLAGE MARKET (OUTSIDE OWN VILLAGE)
- 004 ○ TOWN MARKET
- 999 ○ OTHER

---

## C5.13oth. Please specify other.

E `c5s1_13==999`

**TEXT** — c5s1_13oth

---

| | |
|---|---|
| C5.14. How long did it take to transport all of the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %season1%? | NUMERIC: DECIMAL          c5s1_14 |
| I   IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE And 21 other symbols [3] | |
| V1   `self<72` | |
| M1   This number of hours seems unlikely. Please check. | |

| | |
|---|---|
| C5.15. What was the main mode of transport used for the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %season1%? | SINGLE-SELECT          c5s1_15 <br><br> 001 ◯ ON FOOT <br> 002 ◯ BICYCLE <br> 008 ◯ MOTO <br> 003 ◯ ANIMAL DRAWN CART <br> 004 ◯ TAXI / BUS <br> 005 ◯ LORRY / TRUCK <br> 006 ◯ TRAIN <br> 007 ◯ BOAT <br> 999 ◯ OTHER |

| | |
|---|---|
| C5.15oth. Please specify other. | TEXT          c5s1_15oth |
| E   `c5s1_15==999` | |

| | |
|---|---|
| C5.16. What was the total value (In %lcu%) of the second largest transaction of %rostertitle% harvested during %season1%? | NUMERIC: INTEGER          c5s1_16 |
| I   Value in %lcu% VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED | |
| V1   `self<=c5s1_1` | |
| M1   Value of sales to second largest buyer of %rostertitle% can not be larger than the value of total sales during %season1%. Please check. | |
| V2   `self>0` | |
| M2   Value of sales to second largest buyer must be larger than 0. Please check. | |

| | |
|---|---|
| C5.17. How many months was it before the household received payment in full for the second largest transaction of %rostertitle% harvested during %season1%? | NUMERIC: INTEGER          c5s1_17 <br><br> SPECIAL VALUES <br><br> 00   WITHIN ONE MONTH <br> 88   HAVE NOT YET BEEN PAID <br> 89   PAYMENT RECEIVED PRIOR TO CROP DELIVERY |

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1%
## %SEASON1% INPUTS

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS
## Roster: INPUT
generated by fixed list          input_rosters1

00010   ANIMAL MANURE (FERMENTED)

00011   FRESH/GREEN MANURE (NON FERMENTED MANURE)

00012   COMPOST

00013   PARCAGE

01000   UREA

02000   NPK

03000   DAP

| 04000 | MOP |
|---|---|
| 05000 | AS |
| 06000 | SSP |
| 07000 | APS |
| 08000 | Nitrogen |
| 09000 | Phosphate |
| 10000 | Potash |
| 00100 | CONFIDOR |
| 00101 | DELORO |
| 00102 | KARATE |
| 00103 | TRICHO |
| 00104 | ACTARA |
| 00105 | MOSIBAR |
| 00106 | MORINTO |
| 00107 | SPINOSAD |
| 00108 | VERTIMEC/ ABAMICTIN |
| 00109 | TOPSIN |
| 00110 | TACHARGIM |
| 00111 | PREVICUR |
| 00112 | SERTMICE |
| 00113 | ACARICIDE |
| 00527 | WATERMELON |
| 00528 | BANANA |
| 00529 | PLANTAIN |
| 00530 | MANGO |
| 00531 | PINNEAPLE |
| 00532 | PAPAYA |
| 00533 | GUYAVA |
| 00534 | ORANGE |
| 00535 | LEMON |
| 00536 | LIME |
| 00537 | APPLE |
| 00538 | COCONUT |
| 00539 | POMEGRANADE |
| 00540 | TANGERINE |
| 00541 | CHERRY |
| 00542 | MADD/JUJUBE/SOUMP |
| 00543 | DITAKH |
| 00544 | DIMB |
| 00545 | KINKELIBA |
| 00546 | HENNA |
| 00501 | MAIZE |
| 00502 | RICE (UPLAND) |
| 00503 | RICE (LOWLAND) |
| 00504 | SORGHUM |
| 00505 | MILLET |
| 00506 | PEANUT |

00507 SESAME

00508 COW EYED PEA

00509 BISSAP

00510 SWEET POTATO

00511 ORANGE SWEET POTATO

00512 POTATO

00513 TOMATO

00514 ONION

00515 PEPPERS

00516 EGGPLANT

00517 CUCUMBER

00518 CARROT

00519 RADISH

00520 TURNIP

00521 CABBAGE

00522 LEAFY VEGETABLES

00523 PUMPKIN

00524 SQUASH

00525 GREEN BEANS

00526 SOYBEANS

00999 OTHER, SPECIFY

E `parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) && x.c1s1_8.Length>0).Any(c=>c.c1s1_8.Contains(@rowcode)) || parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) && x.c2` And 434 other symbols [2]

---

| C6.1. Did you or anyone in your household purchase any %rostertitle% for your own use during %season1%? | SINGLE-SELECT |  | c6s1_1 |
| --- | --- | --- | --- |
|  | 01 ⭕ | Yes |  |
|  | 00 ⭕ | No |  |

---

[C-S1]. AGRICULTURAL PRODUCTION %SEASON1% / %SEASON1% INPUTS / INPUT
# DETAILS OF PURCHASE OF %ROSTERTITLE%

E `c6s1_1==1`

---

| C6.2. How many times did you purchase %rostertitle% during the %season1%? | NUMERIC: INTEGER | c6s1_2 |
| --- | --- | --- |

V1 `self.InRange(0,20)`
M1 This seems unlikely. Please check.
V2 `self>0`
M2 This is not possible. Respondent stated to have purchased this input. Quantity must be larger than zero.

---

| C6.3a. How much %rostertitle% was purchased in the largest transaction in %season1%? | NUMERIC: DECIMAL | c6s1_3a |
| --- | --- | --- |

I QUANTITY
V1 `self>0`
M1 This is not possible. Respondent stated to have purchased this input. Quantity must be larger than zero.

---

| C6.3b. UNIT | SINGLE-SELECT |  | c6s1_3b |
| --- | --- | --- | --- |
| E `c6s1_3a>0 && c6s1_3a!=888` | 01 ⭕ | KG |  |
|  | 02 ⭕ | TON |  |
|  | 03 ⭕ | GRAM |  |
|  | 04 ⭕ | BAG |  |
|  | 07 ⭕ | BARIGO |  |

| | |
|---|---|
| C6.3bbag. How many KGs does ONE %c6s1_3b% contain? | NUMERIC: DECIMAL c6s1_3bbag |
| E `c6s1_3b==4` | |
| V1 `self>0` | |
| M1 This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V2 `self<=$err_qtybag` | |
| M2 The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE | DOUBLE std_input_largest_s1 |
| `c6s1_3b.InList(1,2,3,7) ? c6s1_3a*WeightConv[(int)c6s1_3b].factor : c6s1_3a*c6s1_3bbag` | |

| | |
|---|---|
| C6.4. What type of seller made the sale in the largest transaction of %rostertitle%? | SINGLE-SELECT c6s1_4 |
| | 001 ⟳ OTHER FARMER / HOUSEHOLD |
| | 002 ⟳ AGRICULTURAL INPUT DEALER |
| | 003 ⟳ AGRICULTURAL COOPERATIVE |
| | 004 ⟳ GOVERNMENT AGENCY |
| | 005 ⟳ NGO |
| | 999 ⟳ OTHER |

| | |
|---|---|
| C6.4oth. Please specify other. | TEXT c6s1_4oth |
| E `c6s1_4==999` | |

| | |
|---|---|
| C6.5. Where did the largest transaction of %rostertitle% take place? | SINGLE-SELECT c6s1_5 |
| | 001 ⟳ FARM GATE (HOME) |
| | 002 ⟳ VILLAGE MARKET (WITHIN OWN VILLAGE) |
| | 003 ⟳ VILLAGE MARKET (OUTSIDE OWN VILLAGE) |
| | 004 ⟳ TOWN MARKET |
| | 999 ⟳ OTHER |

| | |
|---|---|
| C6.5oth. Please specify other. | TEXT c6s1_5oth |
| E `c6s1_5==999` | |

| | |
|---|---|
| C6.6a. In which year was the largest transaction for %rostertitle% completed? | NUMERIC: INTEGER c6s1_6a |
| I YEAR | |
| V1 `self>=start_agrefperiod_s1.Value.Year` | |
| M1 Year of transaction for %season1% can only be within or after this season. | |
| V2 `self<=IntYear` | |
| M2 Year of transaction can not be within the future. | |

| | |
|---|---|
| C6.6b. In which MONTH of %c6s1_6a% was the largest transaction for %rostertitle% completed? | SINGLE-SELECT c6s1_6b |
| I MONTH | 01 ⟳ January |
| F `c6s1_6a<IntYear || @optioncode<=IntMonth` //Lists all months if not within year of interview. Otherwise list only those months of the Interview Year //that have passed already | 02 ⟳ February |
| | 03 ⟳ March |
| | 04 ⟳ April |
| | 05 ⟳ May |
| | 06 ⟳ June |
| | 07 ⟳ July |
| | 08 ⟳ August |
| | 09 ⟳ September |
| | 10 ⟳ October |
| | 11 ⟳ November |
| | 12 ⟳ December |

| | | |
|---|---|---|
| C6.6c. In which HALF of %c6s1_6b% in %c6s1_6a% was the largest transaction for %rostertitle% completed?<br><br>I  YEAR | SINGLE-SELECT | c6s1_6c |
| | 01 ⃝  First half<br>02 ⃝  Second half | |

| | | |
|---|---|---|
| C6.7. What was the total value of the largest purchase of %rostertitle%?<br><br>I  VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED | NUMERIC: INTEGER<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | c6s1_7 |

| | | |
|---|---|---|
| C6.8. How much did you pay to transport %rostertitle% from %c6s1_5% to your location? | NUMERIC: INTEGER<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | c6s1_8 |

| | | |
|---|---|---|
| C6.9a. How much %rostertitle% was purchased in total?<br><br>I  QUANTITY<br>V1  self>0<br>M1  This is not possible. Respondent stated to have purchased this input. Quantity must be larger than zero. | NUMERIC: DECIMAL<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | c6s1_9a |

| | | |
|---|---|---|
| C6.9b. UNIT<br><br>E  c6s1_9a>0 && c6s1_9a!=888<br>V1  c6s1_9b.InList(1,2,3) ? std_input_largest_s1<=c6s1_9a*WeightConv[(int)c6s1_9b].factor : true<br>M1  The quantity purchased in total must be equal to or larger than the quantity purchased in largest transaction. Please check. <br><br> Quantity purchased in largest transaction: %std_input_largest_s1% | SINGLE-SELECT<br><br>01 ⃝  KG<br>02 ⃝  TON<br>03 ⃝  GRAM<br>04 ⃝  BAG<br>07 ⃝  BARIGO | c6s1_9b |

| | | |
|---|---|---|
| C6.9bbag. How many KGs does ONE %c6s1_9b% contain?<br><br>E  c6s1_9b==4<br>V1  std_input_largest_s1<=c6s1_9a*c6s1_9bbag<br>M1  The quantity purchased in total must be equal to or larger than the quantity purchased in largest transaction. Please check. <br><br> Quantity purchased in largest transaction: %std_input_largest_s1%<br>V2  self>0<br>M2  This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V3  self<=$err_qtybag<br>M3  The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL | c6s1_9bbag |

| | | |
|---|---|---|
| VARIABLE<br><br>c6s1_9b.InList(1,2,3,7) ? c6s1_9a*WeightConv[(int)c6s1_9b].factor : c6s1_9a*c6s1_9bbag | DOUBLE | std_input_total_s1 |

| | | |
|---|---|---|
| C6.10. Did you receive %rostertitle% as part of a subsidy program? | SINGLE-SELECT<br><br>01 ⃝  Yes<br>00 ⃝  No | c6s1_10 |

| | | |
|---|---|---|
| C6.11. How much was spent to purchase %rostertitle%?<br><br>I  ESTIMATE VALUE OF IN-KIND PAYMENTS<br>V1  self>=c6s1_7<br>M1  This is not possible. Value of total purchase must be equal to or larger than the value of purchase made in the largest transaction. Please check. | NUMERIC: INTEGER<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | c6s1_11 |

| | |
|---|---|
| C6.12. How much was spent in total to transport %rostertitle%? | NUMERIC: INTEGER      c6s1_12 |
| I   ESTIMATE VALUE OF IN-KIND PAYMENTS | - - - - - - - - - - - - - - - - - - - - - - - - . |
| V1   self>=c6s1_8 | |
| M1   This is not possible. Value of total costs of transportation must be equal to or larger than the value of total costs of transportation made in the largest transaction. Please check. | |

| | |
|---|---|
| C6.13a. How much %rostertitle% was received for free? | NUMERIC: DECIMAL      c6s1_13a |
| I   QUANTITY | - - - - - - - - - - - - - - - - - - - - - - - - . |

| | |
|---|---|
| C6.13b. UNIT | SINGLE-SELECT      c6s1_13b |
| E   c6s1_13a>0 && c6s1_13a!=888 | 01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG<br>07 ◯ BARIGO |

| | |
|---|---|
| C6.13bbag. How many KGs does ONE %c6s1_13b% contain? | NUMERIC: DECIMAL      c6s1_13bbag |
| E   c6s1_13b==4 | - - - - - - - - - - - - - - - - - - - - - - - - . |
| V1   self>0 | |
| M1   This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V2   self<=$err_qtybag | |
| M2   The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| C6.14. Please select up to three types of party that provided free %rostertitle%, in order of importance. | MULTI-SELECT: ORDERED      c6s1_14 |
| E   c6s1_13a>0 | 001 ☐ OTHER FARMER / HOUSEHOLD<br>002 ☐ AGRICULTURAL INPUT DEALER<br>003 ☐ AGRICULTURAL COOPERATIVE<br>004 ☐ GOVERNMENT AGENCY<br>005 ☐ NGO<br>999 ☐ OTHER |

| | |
|---|---|
| C6.14oth. Please specify other. | TEXT      c6s1_14oth |
| E   c6s1_14.Contains(999) | ............................................................... |

# [C-S2]. AGRICULTURAL PRODUCTION %SEASON2%

E   consent==1 && parcelroster.Any(p=>p.b2_2a.Yes.Contains(2))

STATIC TEXT

*[ENUMERATOR: CONVEY THE FOLLOWING STATEMENT TO THE RESPONDENT:]*

STATIC TEXT

*Now, I would like to ask you the same questions for the %season2%.*

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2%
## %SEASON2% INPUTS AND HARVEST

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST
## Roster: PARCEL
generated by numeric question b1_1      parcelroster_s2

E `b2_2a.Yes.Contains(2)`

| | |
|---|---|
| C1.1. Who in the household makes the decisions concerning crops to be planted, input use and the timing of cropping activities on %parcelroster_s2% during %season2%?<br><br>I Select up to two<br>F `a1_6a>12` | MULTI-SELECT: LINKED     c1s2_1 |
| C1.2. What was %parcelroster_s2% mainly used for before preparing the soil during %season2%? | SINGLE-SELECT     c1s2_2<br><br>001 ○ CULTIVATED W/ SINGLE SEASON CROPS<br>002 ○ CULTIVATED W/ TREE / PERMANENT CROPS<br>003 ○ RENTED / SHARECROPPED OUT<br>004 ○ LOANED OUT<br>005 ○ GRAZING LAND / PASTURE<br>006 ○ VIRGIN LAND<br>007 ○ DEFRICHE<br>999 ○ OTHER |
| C1.2oth. Please specify other.<br><br>E `c1s2_2==999` | TEXT     c1s2_2oth<br><br>⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ |
| C1.4. How was crop residue on %parcelroster_s2% from previous planting season mainly used / disposed of? | MULTI-SELECT     c1s2_4<br><br>001 ☐ BURNED ON FIELD<br>002 ☐ LEFT IN FIELD THEN TILLED / INCORPORATED INTO FIELD<br>003 ☐ CUT AND REMOVED FROM FIELD FOR FODDER OR OTHER USE<br>004 ☐ GRAZED BY ANIMALS<br>999 ☐ OTHER |
| C1.4oth. Please specify other.<br><br>E `c1s2_4.Contains(999)` | TEXT     c1s2_4oth<br><br>⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ |
| C1.5. Did you grow any sort of legume on this plot %rostertitle% in the season before preparing the soil for %season2%? | SINGLE-SELECT     c1s2_5<br><br>01 ○ Yes<br>00 ○ No |
| C1.6. How did you prepare the soil for planting on %parcelroster_s2% during %season2%? | MULTI-SELECT     c1s2_6<br><br>001 ☐ HAND HOEING<br>002 ☐ PLOW - MOLDBOARD<br>003 ☐ PLOW - DISC<br>004 ☐ ZERO / MINIMUM TILLAGE<br>005 ☐ GRATTAGE<br>999 ☐ OTHER |
| C1.6oth. Please specify how you prepared the soil<br><br>E `c1s2_6.Contains(999)`<br>V1 `self.Length>2`<br>M1 Description too short! Please specify more. | TEXT     c1s2_6oth<br><br>⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ |

| | |
|---|---|
| C1.7. What was the main source of power used to prepare the soil for planting on %parcelroster_s2% during %season2%? | MULTI-SELECT      c1s2_7<br>01 ☐ OWN / FREE MANUAL LABOR<br>02 ☐ HIRED MANUAL LABOR<br>03 ☐ OWN / FREE ANIMAL<br>04 ☐ HIRED ANIMAL<br>05 ☐ OWN / FREE MECHANICAL<br>06 ☐ HIRED MECHANICAL |
| C1.8. Which crops were planted on %parcelroster_s2% during %season2%? | MULTI-SELECT      c1s2_8<br>501 ☐ MAIZE<br>502 ☐ RICE (UPLAND)<br>503 ☐ RICE (LOWLAND)<br>504 ☐ SORGHUM<br>505 ☐ MILLET<br>506 ☐ PEANUT<br>507 ☐ SESAME<br>508 ☐ COW EYED PEA<br>509 ☐ BISSAP<br>510 ☐ SWEET POTATO<br>511 ☐ ORANGE SWEET POTATO<br>512 ☐ POTATO<br>513 ☐ TOMATO<br>514 ☐ ONION<br>515 ☐ PEPPERS<br>516 ☐ EGGPLANT<br><br>And 11 other symbols [8] |
| C1.8oth. Please specify other.<br><br>E c1s2_8.Contains(999) | TEXT      c1s2_8oth<br><br>................................................................. |
| C1.8a. Were these seeds intercropped?<br><br>E c1s2_8.Length >1 | SINGLE-SELECT      c1s2_8a<br>01 ◯ YES<br>00 ◯ NO |
| C1.8b. Which of these crops were intercropped?<br><br>F c1s2_8.Contains(@optioncode)<br>E c1s2_8.Length >2 | MULTI-SELECT      c1s2_8b<br>501 ☐ MAIZE<br>502 ☐ RICE (UPLAND)<br>503 ☐ RICE (LOWLAND)<br>504 ☐ SORGHUM<br>505 ☐ MILLET<br>506 ☐ PEANUT<br>507 ☐ SESAME<br>508 ☐ COW EYED PEA<br>509 ☐ BISSAP<br>510 ☐ SWEET POTATO<br>511 ☐ ORANGE SWEET POTATO<br>512 ☐ POTATO<br>513 ☐ TOMATO<br>514 ☐ ONION<br>515 ☐ PEPPERS<br>516 ☐ EGGPLANT<br><br>And 11 other symbols [9] |
| B3.2. In addition to your single season crops, did you harvest any tree crops or other multiple-season crops from plot %parcelroster_s2% between %ag_refperiod%? | SINGLE-SELECT      b3s2_2<br>01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| C2.1. During %season2%, was the plot %parcelroster_s2% irrigated? | SINGLE-SELECT      c2s2_1<br>01 ◯ YES<br>00 ◯ NO |
| C2.2. What is the primary source of water for irrigation on %parcelroster_s2%?<br><br>I   Difference between BOREHOLE and WELL is whether the well is drilled (BOREHOLE) or dug (WELL)<br>E   c2s2_1==1 | SINGLE-SELECT      c2s2_2<br>002 ◯ BOREHOLE<br>003 ◯ WELL<br>004 ◯ RIVER / STREAM<br>005 ◯ POND / LAKE<br>999 ◯ OTHER |
| C2.2oth. Please specify the primary source of water for irrigation.<br><br>E   c2s2_2==999<br>V1   self.Length>2<br>M1   Description is too short! Please specify more. | TEXT      c2s2_2oth<br><br>........................................................ |
| C2.3. What is the primary method for distributing water for irrigation on plot %parcelroster_s2% during %season2%?<br><br>E   c2s2_1==1 | SINGLE-SELECT      c2s2_3<br>001 ◯ HAND / BUCKET<br>002 ◯ HAND PUMP<br>003 ◯ MOTORIZED / ELECTRICAL PUMP<br>004 ◯ FLOODING<br>005 ◯ CANAL<br>999 ◯ OTHER |
| C2.3oth. Please specify the primary method for distributing water for irrigation.<br><br>E   c2s2_3==999<br>V1   self.Length>2<br>M1   Description is too short! Please specify more. | TEXT      c2s2_3oth<br><br>........................................................ |
| C2.4. Is the irrigation system for %parcelroster_s2% part of a community irrigation scheme during %season2%?<br><br>E   c2s2_1==1 | SINGLE-SELECT      c2s2_4<br>01 ◯ Yes<br>00 ◯ No |
| C2.4a. Who provided this communal irrigation system?<br><br>E   c2s2_1==1 & c2s2_4 ==1 | SINGLE-SELECT      c2s2_4a<br>001 ◯ PAFA<br>002 ◯ Government<br>003 ◯ Other NGO/ development program<br>004 ◯ Own community<br>999 ◯ Other, specify |
| C2.4aoth. Please specify other.<br><br>E   c2s2_4a==99 | TEXT      c2s2_4aoth<br><br>........................................................ |
| C2.5. Was the timing of water from the irrigation system adequate for production on %parcelroster_s2% during %season2%?<br><br>E   c2s2_1==1 | SINGLE-SELECT      c2s2_5<br>01 ◯ Yes<br>00 ◯ No |
| C2.6. Was the amount of water from the irrigation system adequate for production on %parcelroster_s2% during %season2%?<br><br>E   c2s2_1==1 | SINGLE-SELECT      c2s2_6<br>01 ◯ Yes<br>00 ◯ No |

| C2.7. What was the quality of the water from the irrigation system for %parcelroster_s2% during %season2%?<br><br>E  c2s2_1==1 | SINGLE-SELECT                          c2s2_7<br><br>01 ◯  Very Good<br>02 ◯  Good<br>03 ◯  Bad<br>04 ◯  Very Bad |
|---|---|
| C2.8a. Did you use any organic fertilizer on %parcelroster_s2% during %season2%? | SINGLE-SELECT                         c2s2_8a<br><br>01 ◯  YES<br>00 ◯  NO |
| C2.8b. What type of organic fertiliser was used on %parcelroster_s2% in the %season2%?<br><br>E  c2s2_8a==1 | MULTI-SELECT                          c2s2_8b<br><br>010 ☐  ANIMAL MANURE (FERMENTED)<br>011 ☐  FRESH/GREEN MANURE (NON FERMENTED MANURE)<br>012 ☐  COMPOST<br>013 ☐  PARCAGE<br>999 ☐  OTHER (SPECIFY) |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL

## Roster: ORGANIC FERTILIZER

generated by multi-select question c2s2_8b                                          organfert_s2

| C2.8oth. Please specify other.<br><br>E  @rowcode==999 | TEXT                                 c2s2_8oth<br><br>.................................................... |
|---|---|
| C2.8c. How many times did you apply %rostertitle% on %parcelroster_s2% during %season2%?<br><br>V1  self>0<br>M1  Respondent stated to have used %rostertitle% during %season2%. Therefore must be larger than zero.<br>W2  self<75<br>M2  This seems very high. Please check.<br>V3  self<150<br>M3  The number of applications is too high. Please check. | NUMERIC: INTEGER                      c2s2_8c<br><br>- - - - - - - - - - - - - - - - - - - - - - - - . |
| C2.8d. How much in total of %rostertitle% was applied on %parcelroster_s2% during %season2%?<br><br>I  QUANTITY<br>V1  self>0<br>M1  Respondent stated to have used %rostertitle% during %season2%. Therefore must be larger than zero.<br>V2  self.InRange(0.01,1000)<br>M2  This seems unlikely. Please check. | NUMERIC: DECIMAL                      c2s2_8da<br><br>- - - - - - - - - - - - - - - - - - - - - - - - . |
| C2.8db. UNIT<br><br>I  UNIT<br>E  c2s2_8da!=888<br>V1  c2s2_8da.InList(1,2,3,5,6) ? qty_orgfert_s2<$err_fertilizer_qty : true<br>M1  The quantity of fertilizer is too high. Please check.<br>W2  c2s2_8da.InList(1,2,3,5,6) ? qty_orgfert_s2<$warn_fertilizer_qty : true<br>M2  This seems very high. Please confirm. | SINGLE-SELECT                        c2s2_8db<br><br>01 ◯  KG<br>02 ◯  TON<br>03 ◯  GRAM<br>04 ◯  BAG (NON-LIQUID)<br>05 ◯  LITER<br>06 ◯  MILLILITER<br>09 ◯  CART |

| C2.8dbbag. How many KGs does <u>ONE</u> %c2s2_8db% contain? | NUMERIC: DECIMAL | c2s2_8dbbag |
|---|---|---|

E `c2s2_8db==4`
V1 `self<=$err_qtybag`
M1 The quantity of KG per BAG is too high. Please check.
V2 `qty_orgfert_s2<$err_fertilizer_qty`
M2 The quantity of fertilizer is too high. Please check.
W3 `qty_orgfert_s2<$warn_fertilizer_qty`
M3 This seems very high. Please confirm.
V4 `self>0`
M4 This is not possible. KG per ONE BAG must be larger than zero. Please check.

| C2.8dbbag2. How many KGs does ONE %c2s2_8db% contain? | NUMERIC: INTEGER | c2s2_8dbbag2 |
|---|---|---|

E `c2s2_8db == 9`

| VARIABLE<br>`c2s2_8db.InList(1,2,3,5,6) ? c2s2_8da*WeightplusLiterConv[(int)c2s2_8db].factor : new[]{c2s2_8da*c2s2_8dbbag, c2s2_8da*c2s2_8dbbag2}.Sum()` | DOUBLE | qty_orgfert_s2 |
|---|---|---|

STATIC TEXT

*Now I would like to ask you about inorganic fertilizers that you used during %season2%.*

| C2.9a. Did you use any basal inorganic fertilizer on %parcelroster_s2%during %season2%? | SINGLE-SELECT | c2s2_9a |
|---|---|---|
| | 01 ○ YES<br>00 ○ NO | |

| C2.9b. What types of inorganic fertilizer did you apply as basal fertilizer on %parcelroster_s2% during %season2%? | MULTI-SELECT | c2s2_9b |
|---|---|---|

I SELECT UP TO THREE.
E `c2s2_9a==1`

| | MULTI-SELECT | c2s2_9b |
|---|---|---|
| | 01000 ☐ UREA | |
| | 02000 ☐ NPK | |
| | 03000 ☐ DAP | |
| | 04000 ☐ MOP | |
| | 05000 ☐ AS | |
| | 06000 ☐ SSP | |
| | 07000 ☐ APS | |
| | 08000 ☐ Nitrogen | |
| | 09000 ☐ Phosphate | |
| | 10000 ☐ Potash | |
| | 00999 ☐ OTHER, SPECIFY | |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL

## Roster: BASAL INORGANIC FERTILIZER

generated by multi-select question c2s2_9b

basalinorgfrtzl_s2

| C2.9oth. Please specify | TEXT | c2s2_9both |
|---|---|---|

E `@rowcode==999`

| C2.9c. How many times did you apply %rostertitle% on %parcelroster_s2% as basal fertilizer during %season2%? | NUMERIC: INTEGER | c2s2_9c |
|---|---|---|

V1 `self>0`
M1 Respondent stated to have used %rostertitle% during %season2%. Therefore must be larger than zero.
V2 `self.InRange(1,50)`
M2 This seems unlikely. Please check.

| | |
|---|---|
| **C2.9da.** When was the primary application of basal fertilizer made on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER      c2s2_9da |
| I   YEAR OF APPLICATION | |
| V1   `self.InRange(start_agrefperiod_s2.Value.Year,end_agrefperiod_s2.Value.Year)` | |
| M1   This is not possible. Year must be within reference period of %season2%! | |

| | |
|---|---|
| **C2.9db.** In which MONTH of %c2s2_9da% has the primary application of basal fertilizer been made on %parcelroster_s2%? | SINGLE-SELECT      c2s2_9db |
| I   MONTH OF APPLICATION | 01 ◯ January |
| F   `@optioncode>=start_agrefperiod_s2.Value.Month \|\| @optioncode<=end_agrefperiod_s2.Value.Month` /// Makes sure that only the months of your reference period are listed. | 02 ◯ February |
| | 03 ◯ March |
| | 04 ◯ April |
| | 05 ◯ May |
| | 06 ◯ June |
| | 07 ◯ July |
| | 08 ◯ August |
| | 09 ◯ September |
| | 10 ◯ October |
| | 11 ◯ November |
| | 12 ◯ December |

| | |
|---|---|
| **C2.9dc.** In which HALF of MONTH %c2s2_9db%? | SINGLE-SELECT      c2s2_9dc |
| I   HALF OF MONTH | 01 ◯ FIRST HALF |
| | 02 ◯ SECOND HALF |

| | |
|---|---|
| **C2.9ea.** How much in total of %rostertitle% was applied as basal fertilizer on %parcelroster_s2% during %season2%? | NUMERIC: DECIMAL      c2s2_9ea |
| I   QUANTITY | |
| V1   `self>0` | |
| M1   Respondent stated to have used %rostertitle% during %season2% on plot %parcelroster_s2%. Therefore quantity must be larger than zero. | |
| V2   `self.InRange(0.01,1000)` | |
| M2   This seems unlikely. Please check. | |

| | |
|---|---|
| **C2.9eb.** UNIT | SINGLE-SELECT      c2s2_9eb |
| E   `c2s2_9ea!=888` | 01 ◯ KG |
| V1   `c2s2_9eb.InList(1,2,3,5,6,8) ? qty_bas_inorgfert_s2<$err_fertilizer_qty : true` | 02 ◯ TON |
| M1   The quantity of fertilizer is too high. Please check. | 03 ◯ GRAM |
| W2   `c2s2_9eb.InList(1,2,3,5,6,8) ? qty_bas_inorgfert_s2<$warn_fertilizer_qty : true` | 04 ◯ BAG (NON-LIQUID) |
| M2   This seems very high. Please confirm. | 05 ◯ LITER |
| | 06 ◯ MILLILITER |
| | 10 ◯ BUCKET (LIQUID) |
| | 11 ◯ TABLETS |

| | |
|---|---|
| **C2.9dbbag.** How many KGs does <u>ONE</u> %c2s2_9eb% contain? | NUMERIC: DECIMAL      c2s2_9ebbag |
| E   `c2s2_9eb==4` | |
| V1   `self<=$err_qtybag` | |
| M1   The quantity of KG per BAG is too high. Please check. | |
| V2   `qty_bas_inorgfert_s2<$err_fertilizer_qty` | |
| M2   The quantity of fertilizer is too high. Please check. | |
| W3   `qty_bas_inorgfert_s2<$warn_fertilizer_qty` | |
| M3   This seems very high. Please confirm. | |
| V4   `self>0` | |
| M4   This is not possible. KG per ONE BAG must be larger than zero. Please check. | |

| C2.9bcan. How many LITERS does ONE %c2s2_9eb% contain? | NUMERIC: DECIMAL | c2s2_9ebcan |
|---|---|---|

E   c2s2_9eb==10
V1  self<=$err_litcan
M1  The amount of LITERS for <u>ONE BUCKET</u> is too high. Please check.

| VARIABLE | DOUBLE | qty_bas_inorgfert_s2 |
|---|---|---|

```
c2s2_9eb.InList(1,2,3,5,6,8) ? c2s2_9ea*WeightplusLiterC
onv[(int)c2s2_9eb].factor : new[]{c2s2_9ea*c2s2_9ebbag,
c2s2_9ea*c2s2_9ebcan}.Sum()
```

| C2.10a. Did you use any top-dressing inorganic fertilizer on %parcelroster_s2% during %season2%? | SINGLE-SELECT | c2s2_10a |
|---|---|---|

01  ◯  YES
00  ◯  NO

| C2.10b. What types of inorganic fertilizer did you apply as top-dressing fertilizer on %parcelroster_s2% during %season2%? | MULTI-SELECT | c2s2_10b |
|---|---|---|

01000 ☐ UREA
02000 ☐ NPK
03000 ☐ DAP
04000 ☐ MOP
05000 ☐ AS
06000 ☐ SSP
07000 ☐ APS
08000 ☐ Nitrogen
09000 ☐ Phosphate
10000 ☐ Potash
00999 ☐ OTHER, SPECIFY

I  SELECT UP TO THREE.
E  c2s2_10a==1

---

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL
## Roster: TOP-DRESSING INORGANIC FERTILIZER
generated by multi-select question c2s2_10b

topdressinorgfrtzl_s2

| C2.10both. Please specify | TEXT | c2s2_10both |
|---|---|---|

E  @rowcode==999

| C2.10C. How many times did you apply %rostertitle% on %parcelroster_s2% as top-dressing fertilizer during %season2%? | NUMERIC: INTEGER | c2s2_10c |
|---|---|---|

V1  self>0
M1  Respondent stated to have used %rostertitle% during %season2%. Therefore must be larger than zero.
V2  self.InRange(1,50)
M2  This seems unlikely. Please check.

| C2.10da. When was the primary application of top-dressing fertilizer made on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER | c2s2_10da |
|---|---|---|

I   YEAR OF APPLICATION
V1  self.InRange(start_agrefperiod_s2.Value.Year,end_agrefperiod_s2.Value.Year)
M1  This is not possible. Year must be within reference period of %season2%!

| | |
|---|---|
| C2.10db. In which MONTH of %c2s2_10da% has the primary application of top-dressing %rostertitle% been made on %parcelroster_s2%?<br><br>I   MONTH OF APPLICATION<br>F   @optioncode>=start_agrefperiod_s2.Value.Month \|\| @optioncode<=end_agrefperiod_s2.Value.Month /// Makes sure that only the months of your reference period are listed. | SINGLE-SELECT     c2s2_10db<br>01 ⭘   January<br>02 ⭘   February<br>03 ⭘   March<br>04 ⭘   April<br>05 ⭘   May<br>06 ⭘   June<br>07 ⭘   July<br>08 ⭘   August<br>09 ⭘   September<br>10 ⭘   October<br>11 ⭘   November<br>12 ⭘   December |
| C2.10dc. In which HALF of MONTH %c2s2_10db%?<br><br>I   HALF OF MONTH | SINGLE-SELECT     c2s2_10dc<br>01 ⭘   FIRST HALF<br>02 ⭘   SECOND HALF |
| C2.10ea. How much in total of %rostertitle% was applied as top-dressing fertilizer on %parcelroster_s2% during %season2%?<br><br>I   QUANTITY<br>V1   self>0<br>M1   Respondent stated to have used %rostertitle% during %season2% on plot %parcelroster_s2%. Therefore quantity must be larger than zero.<br>V2   self.InRange(0.01,1000)<br>M2   This seems unlikely. Please check. | NUMERIC: DECIMAL     c2s2_10ea<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| C2.10eb. UNIT<br><br>E   c2s2_10da!=888<br>V1   c2s2_10eb.InList(1,2,3,5,6,8) ? qty_top_inorgfert_s2<$err_fertilizer_qty : true<br>M1   The quantity of fertilizer is too high. Please check.<br>W2   c2s2_10eb.InList(1,2,3,5,6,8) ? qty_top_inorgfert_s2<$warn_fertilizer_qty : true<br>M2   This quantity of input is very high. Please confirm. | SINGLE-SELECT     c2s2_10eb<br>01 ⭘   KG<br>02 ⭘   TON<br>03 ⭘   GRAM<br>04 ⭘   BAG (NON-LIQUID)<br>05 ⭘   LITER<br>06 ⭘   MILLILITER<br>10 ⭘   BUCKET (LIQUID)<br>11 ⭘   TABLETS |
| C2.10dbbag. How many KGs does ONE %c2s2_10eb% contain?<br><br>E   c2s2_10eb==4<br>V1   self<=$err_qtybag<br>M1   The quantity of KG per BAG is too high. Please check.<br>W2   qty_top_inorgfert_s2<$warn_fertilizer_qty<br>M2   This quantity of fertilizer is very high. Please confirm.<br>V3   qty_top_inorgfert_s2<$err_fertilizer_qty<br>M3   The quantity of fertilizer is too high. Please check.<br>V4   self>0<br>M4   This is not possible. KG per ONE BAG must be larger than zero. Please check. | NUMERIC: DECIMAL     c2s2_10ebbag<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| C2.10bcan. How many LITERS does ONE %c2s2_10eb% contain?<br><br>E   c2s2_10eb==10<br>V1   self<=$err_litcan<br>M1   The amount of LITERS for <u>ONE %c2s2_10eb%</u> is too high. Please check.<br>V2   qty_top_inorgfert_s2<$warn_fertilizer_qty<br>M2   The quantity of fertilizer is very high. Please confirm.<br>V3   qty_top_inorgfert_s2<$err_fertilizer_qty<br>M3   The quantity of fertilizer is too high. Please check. | NUMERIC: DECIMAL     c2s2_10ebcan<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - |

| | | |
|---|---|---|
| **VARIABLE**<br>`c2s2_10eb.InList(1,2,3,5,6,8) ? c2s2_10ea*WeightConv[(int)c2s2_10eb].factor : new[]{c2s2_10ea*c2s2_10ebbag, c2s2_10ea*c2s2_10ebcan}.Sum()` | **DOUBLE** | `qty_top_inorgfert_s2` |

---

**C2.11a. How many complete weedings did you do on %parcelroster_s2% during %season2%?**

V1   `self<150`

M1   This seems unlikely. Please check.

| | |
|---|---|
| NUMERIC: INTEGER | `c2s2_11a` |
| - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | |
| **SPECIAL VALUES** | |
| 00   Never weeded | |

---

**C2.11b. How many weeks after planting was the first weeding completed on %parcelroster_s2% during %season2%?**

E   `c2s2_11a>0`

V1   `self>0`

M1   This is not possible. Weeding has been done, must be larger than 0.

| | |
|---|---|
| NUMERIC: INTEGER | `c2s2_11b` |
| - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | |
| **SPECIAL VALUES** | |
| 01   Within week of planting | |

---

**C2.12a. Did you use any pesticides / herbicides on this %parcelroster_s2% during %season2%?**

| | |
|---|---|
| SINGLE-SELECT | `c2s2_12a` |
| 01 ◯ YES | |
| 00 ◯ NO | |

---

**C2.12b. What type(s) of pesticide / herbicide did you apply on plot %parcelroster_s2% during %season2%?**

I   SELECT UP TO THREE.

E   `c2s2_12a==1`

| | |
|---|---|
| MULTI-SELECT | `c2s2_12b` |
| 100 ☐ CONFIDOR | |
| 101 ☐ DELORO | |
| 102 ☐ KARATE | |
| 103 ☐ TRICHO | |
| 104 ☐ ACTARA | |
| 105 ☐ MOSIBAR | |
| 106 ☐ MORINTO | |
| 107 ☐ SPINOSAD | |
| 108 ☐ VERTIMEC/ ABAMICTIN | |
| 109 ☐ TOPSIN | |
| 110 ☐ TACHARGIM | |
| 111 ☐ PREVICUR | |
| 112 ☐ SERTMICE | |
| 113 ☐ ACARICIDE | |
| 999 ☐ OTHER (SPECIFY) | |

---

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL
## Roster: PESTICIDE
generated by multi-select question `c2s2_12b`         `pesticide_s2`

---

**C2.12both. Please name the other pesticide/herbicide that you applied on %parcelroster_s2% during %season2%**

E   `@rowcode==999`

| | |
|---|---|
| TEXT | `c2s2_12both` |
| ·········································································· | |

---

**C2.12ca. How much in total of %rostertitle% was applied on %parcelroster_s2% during %season2%?**

I   QUANTITY

V1   `self>0`

M1   Quantity must be larger than zero. Please check.

V2   `self.InRange(0.01,1000)`

M2   This seems unlikely. Please check.

| | |
|---|---|
| NUMERIC: DECIMAL | `c2s2_12ca` |
| - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | |

| C2.12cb. UNIT | SINGLE-SELECT | c2s2_12cb |
|---|---|---|

E `c2s2_12ca!=888`
V1 `c2s2_12cb.InList(1,2,3,5,6,8) ? qty_pesticide_s2<$err_pe sticide_qty : true`
M1 The quantity of pesticides is too high. Please check.
W2 `c2s2_12cb.InList(1,2,3,5,6,8) ? qty_pesticide_s2<$warn_p esticide_qty : true`
M2 The quantity of pesticides seems very high. Please confirm.

- 01 ○ KG
- 02 ○ TON
- 03 ○ GRAM
- 04 ○ BAG (NON-LIQUID)
- 05 ○ LITER
- 06 ○ MILLILITER
- 10 ○ BUCKET (LIQUID)
- 11 ○ TABLETS

---

**C2.12cbag. How many KGs does ONE %c2s2_12cb% contain?**

NUMERIC: DECIMAL — c2s2_12cbag

E `c2s2_12cb==4`
V1 `self<=$err_qtybag`
M1 The quantity of KG per BAG is too high. Please check.
V2 `qty_pesticide_s2<$err_pesticide_qty`
M2 The quantity of pesticides is too high. Please check.
W3 `qty_pesticide_s2<$warn_pesticide_qty`
M3 The quantity of pesticides seems very high. Please confirm.

---

**C2.12ccan. How many LITERS does ONE %c2s2_12cb% contain?**

NUMERIC: DECIMAL — c2s2_12ccan

E `c2s2_12cb==10`
V1 `qty_pesticide_s2<$err_pesticide_qty`
M1 The quantity of pesticides is too high. Please check.
W2 `qty_pesticide_s2<$warn_pesticide_qty`
M2 The quantity of pesticides seems very high. Please confirm.
V3 `self<=$err_litcan`
M3 The amount of LITERS for <u>ONE %c2s2_12cb%</u> is too high. Please check.

---

**VARIABLE**

`c2s2_12cb.InList(1,2,3,5,6,8) ? c2s2_12ca*WeightConv[(int)c2s2_12cb].factor : new[]{c2s2_12ca*c2s2_12cbag, c2s2_12ca*c2s2_12ccan}.Sum()`

DOUBLE — qty_pesticide_s2

---

**C2.12da. When was the primary application of %rostertitle% on %parcelroster_s2% during %season2%?**

NUMERIC: INTEGER — c2s2_12da

I YEAR OF APPLICATION
V1 `self.InRange(start_agrefperiod_s2.Value.Year,end_agrefperiod_s2.Value.Year)`
M1 This is not possible. Year must be within reference period of %season2%!

---

**C2.12db. In which MONTH of %c2s2_12da% has the primary application of top-dressing %rostertitle% been made on %parcelroster_s2%?**

SINGLE-SELECT — c2s2_12db

I MONTH OF APPLICATION
F `@optioncode>=start_agrefperiod_s2.Value.Month || @optioncode<=end_agrefperiod_s2.Value.Month /// Makes sure that only the months of your reference period are listed.`

- 01 ○ January
- 02 ○ February
- 03 ○ March
- 04 ○ April
- 05 ○ May
- 06 ○ June
- 07 ○ July
- 08 ○ August
- 09 ○ September
- 10 ○ October
- 11 ○ November
- 12 ○ December

---

**C2.12dc. In which HALF of MONTH %c2s2_12db%?**

SINGLE-SELECT — c2s2_12dc

I HALF OF MONTH

- 01 ○ FIRST HALF
- 02 ○ SECOND HALF

## LABOR

## LABOR - LAND PREPARATION

| | | |
|---|---|---|
| C2.17. How many days of family labor were worked on land preparation on %parcelroster_s2% during %season2%: | NUMERIC: INTEGER | c2s2_17 |

| | | |
|---|---|---|
| C2.17aa. How many ADULT MALES worked on land preparation on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER | c2s2_17aa |

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.17ab. How many ADULT FEMALES worked on land preparation on %parcelroster_s2% during %season2%? | NUMERIC: DECIMAL | c2s2_17ab |

I Adult Female Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.17ac. How many CHILDREN (≤14 yrs) worked on land preparation on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER | c2s2_17ac |

I Child (≤14 yr) Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.17b. How many days of Exchange/Free labor were worked on land preparation on %parcelroster_s2% during %season2%? | NUMERIC: DECIMAL | c2s2_17b |

I DAYS
V1 `self<$err_labor_s2`
M1 This amount of days of exchange/free labor during %season2% is too high. Please check.

| | | |
|---|---|---|
| C2.17c. How many days of hired labor were worked on land preparation on %parcelroster_s2% during %season2%? | NUMERIC: DECIMAL | c2s2_17c |

I DAYS
V1 `self<$err_labor_s2`
M1 This amount of days of hired labor during %season2% is too high. Please check.

| | | |
|---|---|---|
| C2.17d. What was the total cost for the %c2s2_17c% days of hired labor on land preparation on %parcelroster_s2% during %season2% in cash and in kind in %lcu%? | NUMERIC: INTEGER | c2s2_17d |

I Value in %lcu%
E `c2s2_17c>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

## LABOR - PLANTING

| | |
|---|---|
| C2.17. How many days of family labor were worked on planting on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER  c2s2_20 |

C2.17aa. How many ADULT MALES worked on planting on %parcelroster_s2% during %season2%?

NUMERIC: INTEGER  c2s2_20aa

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.17ab. How many ADULT FEMALES worked on planting on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL  c2s2_20ab

I Adult Female Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.17ac. How many CHILDREN (≤14 yrs) worked on planting on %parcelroster_s2% during %season2%?

NUMERIC: INTEGER  c2s2_20ac

I Child (≤14 yr) Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.17b. How many days of Exchange/Free labor were worked on planting on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL  c2s2_20b

I DAYS
V1 `self<$err_labor_s2`
M1 This amount of days of exchange/free labor during %season2% is too high. Please check.

C2.17c. How many days of hired labor were worked on planting on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL  c2s2_20c

I DAYS
V1 `self<$err_labor_s2`
M1 This amount of days of hired labor during %season2% is too high. Please check.

C2.17d. What was the total cost for the %c2s2_17c% days of hired labor on planting on %parcelroster_s2% during %season2% <u>in cash and in kind</u> in %lcu%?

NUMERIC: INTEGER  c2s2_20d

I Value in %lcu%
E `c2s2_17c>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

## LABOR - HARVEST

| | |
|---|---|
| C2.18. How many days of family labor were worked on harvest on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER  c2s2_18<br><br>------------------------------ |
| C2.18aa. How many ADULT MALES worked on land harvest on %parcelroster_s2% during %season2%?<br><br>V1 `self.InRange(0,100)`<br>M1 This seems unlikely. Please check. | NUMERIC: INTEGER  c2s2_18aa<br><br>------------------------------ |
| C2.18ab. How many ADULT FEMALES worked on harvest on %parcelroster_s2% during %season2%? | NUMERIC: INTEGER  c2s2_18ab<br><br>------------------------------ |
| C2.18ac. How many days CHILDREN (≤14 yr) worked on harvest on %parcelroster_s2% during %season2%?<br><br>I Child (≤14 yr) Days<br>V1 `self.InRange(0,100)`<br>M1 This seems unlikely. Please check. | NUMERIC: DECIMAL  c2s2_18ac<br><br>------------------------------ |
| C2.18b. How many days of exchange / free labor were worked on harvest on %parcelroster_s2% during %season2%?<br><br>I DAYS<br>V1 `self<$err_labor_s2`<br>M1 This amount of days of exchange/free labor during %season2% is too high. Please check. | NUMERIC: DECIMAL  c2s2_18b<br><br>------------------------------ |
| C2.18c. How many days of hired labor were worked on harvest on %parcelroster_s2% during %season2%?<br><br>I DAYS<br>V1 `self<$err_labor_s2`<br>M1 This amount of days of hired labor during %season2% is too high. Please check. | NUMERIC: DECIMAL  c2s2_18c<br><br>------------------------------ |
| C2.18d. What was the total cost for the %c2s2_18c% days of hired labor on harvest on %parcelroster_s2% during %season2% <u>in cash and in kind</u> in %lcu%?<br><br>I Value in %lcu%<br>E `c2s2_18c>0`<br>V1 `self>0`<br>M1 Respondent hired paid labor. Costs must be larger than zero.<br>V2 `self<$err_laborcost`<br>M2 The laborcost are too high. Please check.<br>W3 `self<$warn_laborcost`<br>M3 The laborcost seem very high. Please confirm. | NUMERIC: INTEGER  c2s2_18d<br><br>------------------------------ |
| C2.19a. Did you have any other family labor and/or exchange/free labor and/or hired labor for any other activity on plot %parcelroster_s2% during %season2%? | SINGLE-SELECT  c2s2_19a<br><br>01 ◯ Yes<br>00 ◯ No |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL / LABOR
## LABOR - ANY OTHER ACTIVITY

E `c2s2_19a==1`

| | |
|---|---|
| C2.19aoth. Please specify the other activities. | TEXT                        c2s2_19aoth |

C2.19. How many days of family labor were worked on any other activity on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL            c2s2_19

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.19aa. How many ADULT MALES worked on any other activities on %parcelroster_s2% during %season2%?

NUMERIC: INTEGER           c2s2_19aa

I ADULT MALES
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.19bb. How many ADULT FEMALES worked on any other activity on %parcelroster_s2% during %season2%

NUMERIC: DECIMAL          c2s2_19bb

I Adult Females
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.19bc. How many CHILDREN worked on any other activity on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL          c2s2_19bc

I Children (<= 14 yrs)
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

C2.19c. How many days of exchange/free labor were worked on any other activity on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL          c2s2_19c

I DAYS
V1 `self<$err_labor_s2`
M1 This amount of days of exchange/free labor during %season2% is too high. Please check.

C2.19d. How many days of hired labor were worked on any other activity on %parcelroster_s2% during %season2%?

NUMERIC: DECIMAL          c2s2_19d

I DAYS
V1 `self<$err_labor_s2`
M1 This amount of days of hired labor during %season2% is too high. Please check.

C2.19e. What was the total cost for the %c2s2_19d% days of hired labor on any other activity on %parcelroster_s2% during %season2% <u>in cash and in-kind</u> in %lcu%?

NUMERIC: INTEGER          c2s2_19e

I Value in %lcu%
E `c2s2_19d>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL

# PLANTING, STRESSES AND HARVEST

## Roster: PLOT %PARCELROSTER_S2% - CROP

generated by multi-select question c1s2_8            plotcrop_s2

---

| | |
|---|---|
| C3.0. How much of the area of %parcelroster_s2% was cultivated with %rostertitle%? <br><br> E   c1s2_8.Length>1 | SINGLE-SELECT      c3s2_0 <br><br> 10 ◯ 10% <br> 20 ◯ 20% <br> 30 ◯ 30% <br> 40 ◯ 40% <br> 50 ◯ 50% <br> 60 ◯ 60% <br> 70 ◯ 70% <br> 80 ◯ 80% <br> 90 ◯ 90% |
| C3.1. Was the seed for %rostertitle% local / recycled, or hybrid / improved? | SINGLE-SELECT      c3s2_1 <br><br> 004 ◯ AUTO PRODUITE <br> 006 ◯ SEMENCE CERTIFIEE (CONTROLE) <br> 007 ◯ SEMENCE AMELIOREE <br> 001 ◯ LOCAL / RECYCLED <br> 002 ◯ HYBRID / IMPROVED <br> 003 ◯ MIX <br> 888 ◯ DON'T KNOW |
| C3.2a. How much seed/seedling was planted for %rostertitle% on %parcelroster_s2% during the %season2%? <br><br> I   QUANTITY <br> V1   self.InRange(0.01,999) <br> M1   This seems unlikely. Please check. | NUMERIC: DECIMAL      c3s2_2a <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |
| C3.2b.UNIT OF SEEDS <br><br> I   UNIT OF QUANTITY <br> E   c3s2_2a>0 && c3s2_2a!=888 | SINGLE-SELECT      c3s2_2b <br><br> 01 ◯ KG <br> 02 ◯ SEEDLINGS <br> 04 ◯ BAG (NON-LIQUID) <br> 07 ◯ BARIGO |
| C3.2bbag. How many KGs does ONE %c3s2_2b% contain? <br><br> E   c3s2_2b==4 <br> V1   self>0 <br> M1   This is not possible. KG per ONE BAG must be larger than zero. Please check. <br> V2   self<=$err_qtybag <br> M2   The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL      c3s2_2bbag <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |

| C3.3a. When did you finish planting for %rostertitle% on %parcelroster_s2% during %season2%?<br><br>I IF PLANTED MULTIPLE TIMES IN SEASON, ENTER FOR MONTH OF LARGEST PLANTATION<br><br>F @optioncode>=start_agrefperiod_s2.Value.Month \|\| @optioncode<=end_agrefperiod_s2.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add M<br>And 168 other symbols [3] | SINGLE-SELECT          c3s2_3a<br>01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December |
| C3.3b. In which half of the month %c3s2_3a% did you finish planting? | SINGLE-SELECT          c3s2_3b<br>01 ◯ FIRST HALF<br>02 ◯ SECOND HALF |
| C3.4a. How much %rostertitle% did you harvest from %parcelroster_s2% during %season2%?<br><br>I QUANTITY | NUMERIC: DECIMAL          c3s2_4a<br>- - - - - - - - - - - - - - - - - - - - - - - - - - |
| C3.4b. UNIT OF HARVEST<br><br>I UNIT<br>E c3s2_4a>0 && c3s2_4a!=888<br>V1 stand_harvests2<=$err_harvest<br>M1 Quantity of harvest is too high. Please check. | SINGLE-SELECT          c3s2_4b<br>01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG (NON-LIQUID)<br>07 ◯ BARIGO |
| C3.4bbag. How many KGs does ONE %c3s2_4b% contain?<br><br>E c3s2_4b==4<br>V1 self>0<br>M1 This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V2 stand_harvests2<=$err_harvest<br>M2 Quantity of harvest is too high. Please check.<br>V3 self<=$err_qtybag<br>M3 The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL          c3s2_4bbag<br>- - - - - - - - - - - - - - - - - - - - - - - - - - |
| VARIABLE<br><br>c3s2_4b.InList(1,2,3,7) ? c3s2_4a*WeightConv[(int)c3s2_4b].factor : new[]{c3s2_4a*c3s2_4bbag}.Sum() | DOUBLE          stand_harvests2 |
| C3.5. Was the area harvested less than the area planted?<br><br>I ENUMERATOR: Avez-vous récolté moins que ce que vous esperiez? | SINGLE-SELECT          c3s2_5<br>01 ◯ Yes<br>00 ◯ No |
| C3.6. Why was the area harvested less than the area planted?<br><br>I SELECT ONE<br>E c3s2_5==1 | SINGLE-SELECT          c3s2_6<br>001 ◯ Drought<br>002 ◯ Irregular Rains<br>003 ◯ Floods<br>004 ◯ Landslides<br>005 ◯ Fire<br>006 ◯ Insects<br>007 ◯ Animals<br>008 ◯ Disease<br>009 ◯ Theft<br>999 ◯ Other, Specify |

| | |
|---|---|
| C3.6oth. Please specify other.<br><br>E  c3s2_6==999 | TEXT                                    c3s2_2oth6<br><br>...................................................................... |
| C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_s2% during %season2%?<br><br>F  @optioncode>=start_agrefperiod_s2.Value.Month \|\| @optioncode<=end _agrefperiod_s2.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add M<br>And 163 other symbols [4]<br><br>E  c3s2_4a>0 | SINGLE-SELECT                                 c3s2_7a<br><br>01  ◯  January<br>02  ◯  February<br>03  ◯  March<br>04  ◯  April<br>05  ◯  May<br>06  ◯  June<br>07  ◯  July<br>08  ◯  August<br>09  ◯  September<br>10  ◯  October<br>11  ◯  November<br>12  ◯  December |
| C3.7b.In which half of the month %c3s2_7a% did you finish harvesting?<br><br>E  c3s2_4a>0 | SINGLE-SELECT                                 c3s2_7b<br><br>01  ◯  FIRST HALF<br>02  ◯  SECOND HALF |
| C3.8. Who in the household makes the decision concerning the use of %rostertitle% harvested from %parcelroster_s2% during %season2%?<br><br>I  Select up to two<br>F  a1_6a>12 | MULTI-SELECT: LINKED                           c3s2_8 |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL
## PERENNIAL CROPS ON PLOT %ROSTERTITLE%

E  b3s2_2==1

STATIC TEXT

*You mentioned before that, besides single season crops, you also cultivated perennial trees and/or multiple season crops on this plot.*

| | |
|---|---|
| C1.2. Which trees / permanent crops were harvested from %parcelroster_s2% between %seasontp%? | MULTI-SELECT                                  c1tps2_2<br><br>527  ☐  WATERMELON<br>528  ☐  BANANA<br>529  ☐  PLANTAIN<br>530  ☐  MANGO<br>531  ☐  PINNEAPLE<br>532  ☐  PAPAYA<br>533  ☐  GUYAVA<br>534  ☐  ORANGE<br>535  ☐  LEMON<br>536  ☐  LIME<br>537  ☐  APPLE<br>538  ☐  COCONUT<br>539  ☐  POMEGRANADE<br>540  ☐  TANGERINE<br>541  ☐  CHERRY<br>542  ☐  MADD/JUJUBE/SOUMP<br><br>And 5 other symbols [10] |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS AND HARVEST / PARCEL / PERENNIAL CROPS ON PLOT %ROSTERTITLE%
## Roster: PERENNIAL CROP ON %PARCELROSTER_S2%

| | |
|---|---|
| **Please specify the crop** | TEXT      c1tps2_2oth |
| E `@rowcode==999` | |

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| | |
|---|---|
| **C1.3. Is the %rostertitle% planted in a dedicated area, or spread throughout %parcelroster_s2%?** | SINGLE-SELECT      c1tps2_3 <br> 01 ◯ Dedicated Area <br> 02 ◯ Spread Throughout |

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| | |
|---|---|
| **C1.4. Approximately how much of %parcelroster_s2% was/is planted with %rostertitle% ?** <br><br> E `c1tps2_3==1` | SINGLE-SELECT      c1tps2_4 <br> 01 ◯ Less than 1/4 <br> 02 ◯ 1/4 <br> 03 ◯ 1/2 <br> 04 ◯ 3/4 <br> 05 ◯ The whole area of plot |

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| | |
|---|---|
| **C1.5. How many %rostertitle% trees/crops are placed on this plot %parcelroster_s2%?** <br><br> V1 `self>0` <br> M1 Respondent said that this plot is planted with this crop. Quantity must be larger than zero. | NUMERIC: INTEGER      c1tps2_5 |

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| | |
|---|---|
| **C1.6. In what year were most of these %rostertitle% planted on plot %parcelroster_s2%?** <br><br> I YEAR <br> V1 `self>1900 \|\| self==888` <br> M1 This year is too far in the past. Please check. <br> V2 `self<=IntYear` <br> M2 Year must not be within the future. | NUMERIC: INTEGER      c1tps2_6 <br><br> SPECIAL VALUES <br><br> 888   Don't know |

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| | |
|---|---|
| **C1.7. How many %rostertitle% were planted on %parcelroster_s2% between %seasontp%?** <br><br> I NUMBER OF PLANTED CROP <br> V1 `self<=c1tps2_5` <br> M1 This seems unlikely. Respondent stated that there are %c1tps2_6% crops on this plot. Planted crops within %seasontp% should be smaller or equal to this number. Please check. | NUMERIC: INTEGER      c1tps2_17 |

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| | |
|---|---|
| **C3.4a. How much %rostertitle% did you harvest from %parcelroster_s2% during %seasontp%?** <br><br> I QUANTITY | NUMERIC: DECIMAL      c3tps2_4a |

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| | |
|---|---|
| **C3.4b. UNIT OF HARVEST** <br><br> I UNIT <br> E `c3tps2_4a>0 && c3tps2_4a!=888` <br> V1 `stand_harvesttps2<=$err_harvest` <br> M1 Quantity of harvest is too high. Please check. | SINGLE-SELECT      c3tps2_4b <br> 01 ◯ KG <br> 02 ◯ TON <br> 03 ◯ GRAM <br> 04 ◯ BAG (NON-LIQUID) <br> 07 ◯ BARIGO |

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| | |
|---|---|
| **C3.4bbag. How many KGs does ONE %c3tps2_4b% contain?** <br><br> E `c3tps2_4b==4` <br> V1 `self>0` <br> M1 This is not possible. KG per ONE BAG must be larger than zero. Please check. <br> V2 `stand_harvesttps2<=$err_harvest` <br> M2 Quantity of harvest is too high. Please check. <br> V3 `self<=$err_qtybag` <br> M3 The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL      c3tps2_4bbag |

| VARIABLE | DOUBLE | stand_harvesttps2 |
|---|---|---|
| c3tps2_4b.InList(1,2,3) ? c3tps2_4a*WeightConv[(int)c3tps2_4b].factor : c3tps2_4a*c3tps2_4bbag | | |

| | | |
|---|---|---|
| C3.5. Was the area harvested less than the area planted?<br><br>I ENUMERATOR: Avez-vous récolté moins que ce que vous esperiez? | SINGLE-SELECT<br><br>01 ◯ Yes<br>00 ◯ No | c3tps2_5 |
| C3.6. Why was the area harvested less than the area planted?<br><br>I SELECT ONE<br>E c3tps2_5==1 | SINGLE-SELECT<br><br>001 ◯ Drought<br>002 ◯ Irregular Rains<br>003 ◯ Floods<br>004 ◯ Landslides<br>005 ◯ Fire<br>006 ◯ Insects<br>007 ◯ Animals<br>008 ◯ Disease<br>009 ◯ Theft<br>999 ◯ Other, Specify | c3tps2_6 |
| C3.6oth. Please specify other.<br><br>E c3tps2_6==999 | TEXT<br><br>.................................................. | c3tps2_2oth6 |
| C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_s2% during %seasontp%?<br><br>E c3tps2_4a>0 | SINGLE-SELECT<br><br>01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December | c3tps2_7a |
| C3.7b. In which half of the month %c3tps2_7a% did you finish harvesting?<br><br>E c3tps2_4a>0 | SINGLE-SELECT<br><br>01 ◯ FIRST HALF<br>02 ◯ SECOND HALF | c3tps2_7b |
| C3.8. Who in the household makes the decision concerning the use of %rostertitle% harvested from %parcelroster_s2% during %seasontp%?<br><br>I Select up to two<br>F a1_6a>12 | MULTI-SELECT: LINKED | c3tps2_8 |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2%
## %SEASON2% POST-HARVEST AND SALES/DISPOSITION

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% POST-HARVEST AND SALES/DISPOSITION
### Roster: CROP
generated by fixed list

cropdisposition_s2

501 MAIZE

502 RICE (UPLAND)

503 RICE (LOWLAND)

504 SORGHUM

505   MILLET

506   PEANUT

507   SESAME

508   COW EYED PEA

509   BISSAP

510   SWEET POTATO

511   ORANGE SWEET POTATO

512   POTATO

513   TOMATO

514   ONION

515   PEPPERS

516   EGGPLANT

517   CUCUMBER

518   CARROT

519   RADISH

520   TURNIP

521   CABBAGE

522   LEAFY VEGETABLES

523   PUMPKIN

524   SQUASH

525   GREEN BEANS

526   SOYBEANS

999   OTHER, SPECIFY

E   `parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) && x.c1s2_8!=null).Any(c=>c.c1s2_8.Contains(@rowcode))`

---

STATIC TEXT

*ENUMERATOR: PLEASE CONVEY THE FOLLOWING MESSAGE:*

STATIC TEXT

*According to your answers before, you have harvested a total amount of %std_harvest_crop_s2% KG during %season2%.*

*I would like to know about your activities/handling of %rostertitle% after the harvest.*

| VARIABLE | DOUBLE | std_harvest_crop_s2 |
|---|---|---|
| `parcelroster_s2.Where(x=>x.c1s2_8!=null && x.c1s2_8.Contains(@rowcode)).Sum(p=>p.plotcrop_s2[@rowcode].stand_harvests2)` | | |

| | | |
|---|---|---|
| C4.1a. How much of the %rostertitle% harvested during %season2% was lost to rotting, insects, rodents, theft, etc in the post-harvest period? | NUMERIC: INTEGER | c4s2_1a |
| | - - - - - - - - - - - - - - - - - - - - - - - - - - | |
| I   QUANTITY | | |

| | | |
|---|---|---|
| C4.1b. UNIT | SINGLE-SELECT | c4s2_1b |
| E   `c4s2_1a>0 && c4s2_1a!=888` | 01 ◯ KG | |
| V1  `std_harvest_crop_s2>=(c4s2_1b.InList(1,2,3,7) ? c4s2_1a* weightConv[(int)c4s2_1b].factor : (int)0)` | 02 ◯ TON | |
| | 03 ◯ GRAM | |
| M1  Not possible that loss is larger than the total harvest! | 04 ◯ BAG (NON-LIQUID) | |
| | 07 ◯ BARIGO | |

| C4.1bbag. How many KGs does ONE %c4s2_1b% contain? | NUMERIC: DECIMAL | c4s2_1bbag |
|---|---|---|

E `c4s2_1b==4`
V1 `self>0`
M1 This is not possible. KG per ONE BAG must be larger than zero. Please check.
V2 `self<=$err_qtybag`
M2 The quantity of KG per BAG is too high. Please check.
V3 `std_harvest_crop_s2>=c4s2_1a*c4s2_1bbag`

| VARIABLE | DOUBLE | croploss_s2 |
|---|---|---|

`c4s2_1b.InList(1,2,3) ? c4s2_1a*WeightConv[(int)c4s2_1b].factor : c4s2_1a*c4s2_1bbag`

| VARIABLE | DOUBLE | qty_dispo_s2 |
|---|---|---|

`std_harvest_crop_s2-(new[]{croploss_s2}.Sum())`

| C4.2. What was the reason for loss in the post-harvest period? | MULTI-SELECT | c4s2_2 |
|---|---|---|
| | 001 ☐ ROTTING | |
| | 002 ☐ INSECTS | |
| | 003 ☐ ANIMAL DAMAGE | |
| | 004 ☐ FLOOD / WATERLOGGING | |
| | 005 ☐ THEFT | |
| | 999 ☐ OTHER | |

I Select up to two
E `c4s2_1a>0`

| Please specify other. | TEXT | c4s2_2oth |
|---|---|---|

E `c4s2_2.Contains(999)`

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% POST-HARVEST AND SALES/DISPOSITION / CROP

# CROP USES %SEASON2%

E `qty_dispo_s2!=0`

STATIC TEXT

*QUANTITY OF HARVEST AFTER POST-HARVEST LOSS IN %season2%: %qty_dispo_s2% KG.*

| C4.3a. Of the total harvest of %rostertitle% , in the %season2% how much was dedicated to USED FOR HOME CONSUMPTION ? | NUMERIC: DECIMAL | c4s2_3a |
|---|---|---|
| | SPECIAL VALUES | |
| | 00 NONE | |

I QUANTITY

| C4.3b. UNIT | SINGLE-SELECT | c4s2_3b |
|---|---|---|
| | 01 ◯ KG | |
| | 02 ◯ TON | |
| | 03 ◯ GRAM | |
| | 04 ◯ BAG (NON-LIQUID) | |
| | 07 ◯ BARIGO | |

E `c4s2_3a>0 && c4s2_3a!=888`
V1 `qty_dispo_s2>=(c4s2_3b.InList(1,2,3,7) ? c4s2_3a*WeightConv[(int)c4s2_3b].factor : (int)0)`
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%]

| C4.3bbag. How many KGs does ONE %c4s2_3b% contain? | NUMERIC: DECIMAL | c4s2_3bbag |
|---|---|---|

E `c4s2_3b==4`
V1 `qty_dispo_s2>=c4s2_3a*c4s2_3bbag`
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%]
V2 `self>0`
M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.
V3 `self<=$err_qtybag`
M3 The quantity of KG per BAG is too high. Please check.

| | | |
|---|---|---|
| VARIABLE | DOUBLE | standuse_homes2 |
| `c4s2_3b.InList(1,2,3,7) ? c4s2_3a*WeightConv[(int)c4s2_3b].factor : c4s2_3a*c4s2_3bbag` | | |

| | | |
|---|---|---|
| C4.4a. Of the total harvest of %rostertitle% , in the %season2% how much was dedicated to <u>SALES/USED TO SELL</u> ? | NUMERIC: DECIMAL | c4s2_4a |
| | -------------------------------- | |
| I QUANTITY | SPECIAL VALUES | |
| E `IsAnswered(c4s2_3a)` | 00 NONE | |

| | | |
|---|---|---|
| C4.4b. UNIT | SINGLE-SELECT | c4s2_4b |
| E `c4s2_4a>0 && c4s2_4a!=888` | 01 ◯ KG | |
| V1 `qty_dispo_s2>=(c4s2_4b.InList(1,2,3) ? c4s2_4a*WeightConv[(int)c4s2_4b].factor : 0)` | 02 ◯ TON | |
| | 03 ◯ GRAM | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | 04 ◯ BAG | |
| | 07 ◯ BARIGO | |

| | | |
|---|---|---|
| C4.4bbag. How many KGs does <u>ONE %c4s2_4b%</u> contain? | NUMERIC: DECIMAL | c4s2_4bbag |
| | -------------------------------- | |
| E `c4s2_4b==4` | | |
| V1 `qty_dispo_s2>=c4s2_4a*c4s2_4bbag` | | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | | |
| V2 `self>0` | | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | | |
| V3 `self<=$err_qtybag` | | |
| M3 The quantity of KG per BAG is too high. Please check. | | |

| | | |
|---|---|---|
| VARIABLE | DOUBLE | standuse_saless2 |
| `c4s2_4b.InList(1,2,3,7) ? c4s2_4a*WeightConv[(int)c4s2_4b].factor : c4s2_4a*c4s2_4bbag` | | |

| | | |
|---|---|---|
| C4.5a. Of the total harvest of %rostertitle% , in the %season2% how much was dedicated to <u>USED FOR ANIMAL FEED</u> ? | NUMERIC: DECIMAL | c4s2_5a |
| | -------------------------------- | |
| I QUANTITY | SPECIAL VALUES | |
| E `qty_dispo_s2>new[]{standuse_homes2, standuse_saless2}.Sum() && IsAnswered(c4s2_4a)` | 00 NONE | |

| | | |
|---|---|---|
| C4.5b. UNIT | SINGLE-SELECT | c4s2_5b |
| E `c4s2_5a>0 && c4s2_5a!=888` | 01 ◯ KG | |
| V1 `qty_dispo_s2>=(c4s2_5b.InList(1,2,3) ? c4s2_5a*WeightConv[(int)c4s2_5b].factor : 0)` | 02 ◯ TON | |
| | 03 ◯ GRAM | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | 04 ◯ BAG | |
| | 07 ◯ BARIGO | |

| | | |
|---|---|---|
| C4.5bbag. How many KGs does <u>ONE %c4s2_5b%</u> contain? | NUMERIC: DECIMAL | c4s2_5bbag |
| | -------------------------------- | |
| E `c4s2_5b==4` | | |
| V1 `qty_dispo_s2>=c4s2_5a*c4s2_5bbag` | | |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | | |
| V2 `self>0` | | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | | |
| V3 `self<=$err_qtybag` | | |
| M3 The quantity of KG per BAG is too high. Please check. | | |

| | | |
|---|---|---|
| VARIABLE | DOUBLE | standuse_feeds2 |
| `c4s2_5b.InList(1,2,3,7) ? c4s2_5a*WeightConv[(int)c4s2_5b].factor : c4s2_5a*c4s2_5bbag` | | |

| | |
|---|---|
| **C4.6a.** Of the total harvest of %rostertitle% , in the %season2% how much was dedicated to <u>SAVED FOR SEEDS</u> ? | NUMERIC: DECIMAL            c4s2_6a |
| I  QUANTITY | |
| E  `qty_dispo_s2>new[]{standuse_homes2, standuse_saless2, standuse_feeds2}.Sum() && IsAnswered(c4s2_5a)` | SPECIAL VALUES<br>00  NONE |

| | |
|---|---|
| **C4.6b.** UNIT | SINGLE-SELECT           c4s2_6b |
| E  `c4s2_6a>0 && c4s2_6a!=888`<br>V1  `qty_dispo_s2>=(c4s2_6b.InList(1,2,3) ? c4s2_6a*WeightConv[(int)c4s2_6b].factor : 0)`<br>M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | 01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG<br>07 ◯ BARIGO |

| | |
|---|---|
| **C4.6bbag.** How many KGs does <u>ONE %c4s2_6b%</u> contain? | NUMERIC: DECIMAL         c4s2_6bbag |
| E  `c4s2_6b==4`<br>V1  `qty_dispo_s2>=c4s2_6a*c4s2_6bbag`<br>M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%]<br>V2  `self>0`<br>M2  This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V3  `self<=$err_qtybag`<br>M3  The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br>`c4s2_6b.InList(1,2,3,7) ? c4s2_6a*WeightConv[(int)c4s2_6b].factor : c4s2_6a*c4s2_6bbag` | DOUBLE          standuse_seeds2 |

| | |
|---|---|
| **C4.7a.** Of the total harvest of %rostertitle% , in the %season2% how much was dedicated to <u>ANY OTHER ACTIVITY</u> ? | NUMERIC: DECIMAL            c4s2_7a |
| I  QUANTITY | |
| E  `qty_dispo_s2>new[]{standuse_homes2, standuse_saless2, standuse_feeds2, standuse_seeds2}.Sum() && IsAnswered(c4s2_6a)` | SPECIAL VALUES<br>00  NONE |

| | |
|---|---|
| **C4.7b.** UNIT | SINGLE-SELECT           c4s2_7b |
| E  `c4s2_7a>0 && c4s2_7a!=888`<br>V1  `qty_dispo_s2>=(c4s2_7b.InList(1,2,3) ? c4s2_7a*WeightConv[(int)c4s2_7b].factor : 0)`<br>M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | 01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG<br>07 ◯ BARIGO |

| | |
|---|---|
| **C4.7bbag.** How many KGs does <u>ONE %c4s2_7b%</u> contain? | NUMERIC: DECIMAL         c4s2_7bbag |
| E  `c4s2_7b==4`<br>V1  `qty_dispo_s2>=c4s2_7a*c4s2_7bbag`<br>M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%]<br>V2  `self>0`<br>M2  This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V3  `self<=$err_qtybag`<br>M3  The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br>`c4s2_7b.InList(1,2,3,7) ? c4s2_7a*WeightConv[(int)c4s2_7b].factor : c4s2_7a*c4s2_7bbag` | DOUBLE          standuse_oths2 |

| VARIABLE | DOUBLE | sum_uses2 |
|---|---|---|
| new[]{standuse_homes2,standuse_saless2,standuse_feeds2,standuse_seeds2,standuse_oths2}.Sum() | | |

STATIC TEXT

E `IsAnswered(c4s2_3a) && qty_dispo_s2<sum_uses2`

V1 `qty_dispo_s2>=sum_uses2`

*THE TOTAL SUM OF USE IS LARGER THAN THE TOTAL AMOUNT OF %rostertitle% AVAILABLE DURING %season2%*

*TOTAL QUANTITY AFTER HARVEST AND LOSSES: %qty_dispo_s2% KG.*

*TOTAL SUM OF USE: %sum_uses2% KG*

*PLEASE CHECK HARVEST OR THIS USE SECTION.*

STATIC TEXT

E `IsAnswered(c4s2_7a) && !sum_uses2.InRange((0.95*qty_dispo_s2),qty_dispo_s2)`

V1 `false`

*ATTENTION!*
*THE TOTAL QUANTITY OF %rostertitle% <u>USES</u> IS SIGNIFICANTLY LOWER THAN THE TOTAL QUANTITY AVAILABLE AFTER HARVEST IN %season2%.*

*QUANTITY AVAILABLE AFTER HARVEST AND LOSSES: %qty_dispo_s2%*
*CURRENT AMOUNT OF USES: %sum_uses2%*
*PLEASE CHECK AND CORRECT.*

STATIC TEXT

*THE TOTAL SUM OF USE OF %rostertitle% HARVESTED DURING %season2%: <u>%sum_uses2% KG</u>.*

| C4.8. What is your main method of storage for this UNPROCESSED %rostertitle% during %season2%? | SINGLE-SELECT | c4s2_8 |
|---|---|---|
| | 001 ◯ Unprotected pile | |
| | 002 ◯ Metallic Silo | |
| | 003 ◯ Heaped in house | |
| | 004 ◯ Bags in house | |
| | 005 ◯ Traditional Granary | |
| | 006 ◯ Improved Granary | |
| | 999 ◯ OTHER | |

| C4.8oth. Please specify other.<br><br>E `c4s2_8==999` | TEXT | c4s2_8oth |
|---|---|---|
| | ............................................ | |

| C4.8a. Who owns this storage facility?<br><br>E `c4s2_8 == 1 \|\| c4s2_8 == 2 \|\| c4s2_8 == 5 \|\| c4s2_8 == 6 \|\| c4s2_8 == 999` | SINGLE-SELECT | c4s2_8a |
|---|---|---|
| | 001 ◯ Self | |
| | 002 ◯ Community/village | |
| | 003 ◯ Provided by PAFA | |
| | 004 ◯ Provided by another program | |
| | 005 ◯ My PO | |
| | 999 ◯ Other, specify | |

| C4.8aoth. Please specify other.<br><br>E `c4s2_8a==999` | TEXT | c4s2_8aoth |
|---|---|---|
| | ............................................ | |

| C4.9. Did you do anything to protect the stored %rostertitle% during %season2%?<br><br>V1 `!self.Contains(4) \|\| self.ContainsOnly(4)`<br>M1 These answers exclude each other. Please check | MULTI-SELECT | c4s2_9 |
|---|---|---|
| | 001 ☐ Spraying | |
| | 002 ☐ Smoking | |
| | 003 ☐ Hired Guard | |
| | 004 ☐ Did nothing | |
| | 999 ☐ OTHER | |

| | |
|---|---|
| **C4.9oth.** Please specify | TEXT c4s2_9oth |
| E   `c4s2_9.Contains(999)` | ................................................. |

| | |
|---|---|
| **C4.10.** What is usually the main purpose for storing this %rostertitle% during %season2%? | SINGLE-SELECT c4s2_10 |
| | 001 ○ Food for household |
| | 002 ○ Wait to sell at a higher price |
| | 003 ○ Seed for planting |
| | 004 ○ In-kind Payments |
| | 005 ○ Wait for the arrival of buyer |
| | 999 ○ OTHER |

| | |
|---|---|
| **C4.10oth.** Please specify | TEXT c4s2_10oth |
| E   `c4s2_10==999` | ................................................. |

| | |
|---|---|
| **C4.11a.** How much of %rostertitle% do you have currently stored? | NUMERIC: DECIMAL c4s2_11a |
| I   QUANTITY | |

| | |
|---|---|
| **C4.11b.** UNIT | SINGLE-SELECT c4s2_11b |
| E   `c4s2_11a>0 && c4s2_11a!=888` | 01 ○ KG |
| V1   `qty_dispo_s2>=(c4s2_11b.InList(1,2,3) ? c4s2_11a*WeightConv[(int)c4s2_11b].factor : 0)` | 02 ○ TON |
| | 03 ○ GRAM |
| M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | 04 ○ BAG |
| | 07 ○ BARIGO |

| | |
|---|---|
| **C4.11bbag.** How many KGs does <u>ONE</u> <u>%c4s2_11b%</u> contain? | NUMERIC: DECIMAL c4s2_11bbag |
| E   `c4s2_11b==4` | |
| V1   `qty_dispo_s2>=c4s2_11a*c4s2_11bbag` | |
| M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] | |
| V2   `self>0` | |
| M2   This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V3   `self<=$err_qtybag` | |
| M3   The quantity of KG per BAG is too high. Please check. | |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% POST-HARVEST AND SALES/DISPOSITION / CROP

## SALES %ROSTERTITLE%

E   `c4s2_4a>0`

STATIC TEXT

*According to your answer given before, you stated to have sold %c4s2_4a% %c4s2_4b%'s of %rostertitle% during %season2%.*

| | |
|---|---|
| **C5.1.** What was the total value of all sales (In %lcu%) of this unprocessed %rostertitle% harvested during %season2%? | NUMERIC: INTEGER c5s2_1 |
| I   Value in CFA | |
| V1   `self>0` | |
| M1   Respondent said to have sold %rostertitle%. Value must be larger than 0. | |
| V2   `self<$err_lcu_val` | |
| M2   This is too high. Please check. | |
| V3   `self<$warn_lcu_val` | |
| M3   This seems very high. Please check. | |

| C5.2. Who in your household kept / decided what to do with these earnings? | MULTI-SELECT: LINKED | c5s2_2 |
|---|---|---|

I Select up to two

| C5.3.To how many buyers/outlets did you sell your unprocessed %rostertitle% during %season2%? | NUMERIC: INTEGER | c5s2_3 |
|---|---|---|

V1 `self>0`
M1 Zero transactions seems unlikely. Please check.

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% POST-HARVEST AND SALES/DISPOSITION / CROP / SALES %ROSTERTITLE%
## SALES IN LARGEST TRANSACTION

E `c5s2_3>0`

| C5.3a. How much of the %rostertitle% harvested during %season2% was sold in the largest transaction? | NUMERIC: DECIMAL | c5s2_4a |
|---|---|---|

I QUANTITY

| C5.4b. UNIT | SINGLE-SELECT | c5s2_4b |
|---|---|---|

E `c5s2_4a>0 && c5s2_4a!=888`
V1 `qty_dispo_s2>=(c5s2_4b.InList(1,2,3) ? c5s2_4a*WeightConv[(int)c5s2_4b].factor : 0)`
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST AFTER LOSSES IS: %qty_dispo_s2%]

- 01 ◯ KG
- 02 ◯ TON
- 03 ◯ GRAM
- 04 ◯ BAG
- 07 ◯ BARIGO

| C5.4bbag. How many KGs does ONE %c5s2_4b% contain? | NUMERIC: DECIMAL | c5s2_4bbag |
|---|---|---|

E `c5s2_4b==4`
V1 `qty_dispo_s2>=c5s2_4a*c5s2_4bbag`
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%]
V2 `self>0`
M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.
V3 `self<=$err_qtybag`
M3 The quantity of KG per BAG is too high. Please check.

| C5.4c. Was this sale made individually or with the OP? | SINGLE-SELECT | c5s2_4c |
|---|---|---|

E `c5s2_4a>0`

- 01 ◯ INDIVIDUALLY
- 00 ◯ WITH THE OP

| C5.5. What type of buyer made the purchase in the largest transaction of %rostertitle% harvested during %season2%? | SINGLE-SELECT | c5s2_5 |
|---|---|---|

- 000 ◯ MY OP
- 001 ◯ OTHER HOUSEHOLDS FOR THEIR OWN USE
- 002 ◯ SMALL-SCALE TRADER
- 003 ◯ LARGE-SCALE TRADER / WHOLESALER
- 004 ◯ MILLER / PROCESSOR
- 005 ◯ DIRECT RETAILER
- 006 ◯ RESTAURANT
- 007 ◯ INSTITUTION (CHURCH, HOSPITAL, SCHOOL, OTHER)
- 008 ◯ NGO
- 009 ◯ GOVERNMENT AGENCY
- 010 ◯ PAFA MARKET OPERATOR
- 011 ◯ OTHER MARKET OPERATOR
- 999 ◯ OTHER

| | |
|---|---|
| **C5.5oth. Please specify other.** | TEXT  c5s2_5oth |
| E `c5s2_5==999` | ·····································•• |
| VARIABLE<br>`c5s2_4b.InList(1,2,3,7) ? c5s2_4a*WeightConv[(int)c5s2_4`<br>`b].factor : c5s2_4a*c5s2_4bbag` | DOUBLE  stand_largbuyers2 |
| **C5.6. Where did the largest transaction of %rostertitle% harvested during %season2% take place?** | SINGLE-SELECT  c5s2_6<br><br>001 ◯  FARM GATE (HOME)<br>002 ◯  VILLAGE MARKET (WITHIN OWN VILLAGE)<br>003 ◯  VILLAGE MARKET (OUTSIDE OWN VILLAGE)<br>004 ◯  TOWN MARKET<br>999 ◯  OTHER |
| **C5.6oth. Please specify other.** | TEXT  c5s2_6oth |
| E `c5s2_6==999` | ·····································•• |
| **C5.7. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season2%? IN HOURS** | NUMERIC: INTEGER  c5s2_7<br><br>‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ · |
| I  IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE <u>And 21 other symbols [4]</u><br>V1 `self<72`<br>M1 This number of hours seems unlikely. Please check. | |
| **C5.7a. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season2%? IN MINUTES** | NUMERIC: INTEGER  c5s2_7a<br><br>‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ · |
| I  IN MINUTES | |
| **C5.8. What was the main mode of transport used for the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season2%?** | SINGLE-SELECT  c5s2_8<br><br>001 ◯  ON FOOT<br>002 ◯  BICYCLE<br>008 ◯  MOTO<br>003 ◯  ANIMAL DRAWN CART<br>004 ◯  TAXI / BUS<br>005 ◯  LORRY / TRUCK<br>006 ◯  TRAIN<br>007 ◯  BOAT<br>999 ◯  OTHER |
| **C5.8oth. Please specify other.** | TEXT  c5s2_8oth |
| E `c5s2_8==999` | ·····································•• |
| **C5.9. What was the total value (in %lcu%) of the largest transaction of %rostertitle% harvested during %season2%?** | NUMERIC: INTEGER  c5s2_9<br><br>‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ ‑ · |
| I  Value in %lcu% VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTI MATED<br>V1 `self<=c5s2_1`<br>M1 Value of sales to largest buyer of %rostertitle% can not be larger than th e value of total sales during %season2%. Please check.<br>V2 `self>0`<br>M2 Value of sales to largest buyer must be larger than 0. Please check. | |

| | |
|---|---|
| C5.10. How many months was it before the household received payment in full for the largest transaction of %rostertitle% harvested during %season2%? | NUMERIC: INTEGER $\qquad$ c5s2_10 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <br><br> SPECIAL VALUES <br> 00  WITHIN ONE MONTH <br> 88  HAVE NOT YET BEEN PAID <br> 89  PAYMENT RECEIVED PRIOR TO CR <br>      OP DELIVERY |

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% POST-HARVEST AND SALES/DISPOSITION / CROP / SALES %ROSTERTITLE%
## SALES IN SECOND LARGEST TRANSACTION

E  c5s2_3>1

| | |
|---|---|
| C5.11a. How much of the %rostertitle% harvested during %season2% was sold in the second largest transaction? <br><br> I  QUANTITY | NUMERIC: DECIMAL $\qquad$ c5s2_11a <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| C5.11b. UNIT <br><br> E  c5s2_11a>0 && c5s2_11a!=888 <br> V1  qty_dispo_s2>=(c5s2_11b.InList(1,2,3) ? c5s2_11a*WeightConv[(int)c5s2_11b].factor : 0) <br> M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST AFTER LOSSES IS: %qty_dispo_s2%] <br> V2  stand_seclargbuyers2<=stand_largbuyers2 <br> M2  QUANTITY OF SALES TO SECOND LARGEST BUYER MUST BE SMALLER THAN THE QUANTITY SOLD TO THE LARGEST BUYER. | SINGLE-SELECT $\qquad$ c5s2_11b <br> 01 ◯ KG <br> 02 ◯ TON <br> 03 ◯ GRAM <br> 04 ◯ BAG <br> 07 ◯ BARIGO |
| C5.11bbag. How many KGs does <u>ONE</u> <u>%c5s2_11b%</u> contain? <br><br> E  c5s2_11b==4 <br> V1  qty_dispo_s2>=c5s2_11a*c5s2_11bbag <br> M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %season2%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_s2%] <br> V2  self>0 <br> M2  This is not possible. KG per ONE BAG must be larger than zero. Please check. <br> V3  self<=$err_qtybag <br> M3  The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL $\qquad$ c5s2_11bbag <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| C5.12. What type of buyer made the purchase in the largest transaction of %rostertitle% harvested during %season2%? | SINGLE-SELECT $\qquad$ c5s2_12 <br> 000 ◯ MY OP <br> 001 ◯ OTHER HOUSEHOLDS FOR THEIR OWN USE <br> 002 ◯ SMALL-SCALE TRADER <br> 003 ◯ LARGE-SCALE TRADER / WHOLESALER <br> 004 ◯ MILLER / PROCESSOR <br> 005 ◯ DIRECT RETAILER <br> 006 ◯ RESTAURANT <br> 007 ◯ INSTITUTION (CHURCH, HOSPITAL, SCHOOL, OTHER) <br> 008 ◯ NGO <br> 009 ◯ GOVERNMENT AGENCY <br> 010 ◯ PAFA MARKET OPERATOR <br> 011 ◯ OTHER MARKET OPERATOR <br> 999 ◯ OTHER |

| | | |
|---|---|---|
| C5.12oth. Please specify other. | TEXT | c5s2_12oth |
| E c5s2_12==999 | ....................................................................... | |

| | | |
|---|---|---|
| VARIABLE<br>c5s2_11b.InList(1,2,3,7) ? c5s2_11a*weightConv[(int)c5s2<br>_11b].factor : c5s2_11a*c5s2_11bbag | DOUBLE | stand_seclargbuyers2 |

| | | |
|---|---|---|
| C5.13. Where did the second largest transaction of %rostertitle% harvested during %season2% take place? | SINGLE-SELECT | c5s2_13 |
| | 001 ◯ FARM GATE (HOME)<br>002 ◯ VILLAGE MARKET (WITHIN OWN VILLAGE)<br>003 ◯ VILLAGE MARKET (OUTSIDE OWN VILLAGE)<br>004 ◯ TOWN MARKET<br>999 ◯ OTHER | |

| | | |
|---|---|---|
| C5.13oth. Please specify other. | TEXT | c5s2_13oth |
| E c5s2_13==999 | ....................................................................... | |

| | | |
|---|---|---|
| C5.14. How long did it take to transport all of the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %season2%? | NUMERIC: DECIMAL | c5s2_14 |
| I IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE And 21 other symbols [5]<br>V1 self<72<br>M1 This number of hours seems unlikely. Please check. | | |

| | | |
|---|---|---|
| C5.15. What was the main mode of transport used for the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %season2%? | SINGLE-SELECT | c5s2_15 |
| | 001 ◯ ON FOOT<br>002 ◯ BICYCLE<br>008 ◯ MOTO<br>003 ◯ ANIMAL DRAWN CART<br>004 ◯ TAXI / BUS<br>005 ◯ LORRY / TRUCK<br>006 ◯ TRAIN<br>007 ◯ BOAT<br>999 ◯ OTHER | |

| | | |
|---|---|---|
| C5.15oth. Please specify other. | TEXT | c5s2_15oth |
| E c5s2_15==999 | ....................................................................... | |

| | | |
|---|---|---|
| C5.16. What was the total value (In %lcu%) of the second largest transaction of %rostertitle% harvested during %season2%? | NUMERIC: INTEGER | c5s2_16 |
| I Value in %lcu% VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED<br>V1 self<=c5s2_1<br>M1 Value of sales to second largest buyer of %rostertitle% can not be larger than the value of total sales during %season2%. Please check.<br>V2 self>0<br>M2 Value of sales to second largest buyer must be larger than 0. Please check. | | |

| C5.17. How many months was it before the household received payment in full for the second largest transaction of %rostertitle% harvested during %season2%? | NUMERIC: INTEGER | c5s2_17 |
| --- | --- | --- |

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SPECIAL VALUES

00 WITHIN ONE MONTH

88 HAVE NOT YET BEEN PAID

89 PAYMENT RECEIVED PRIOR TO CROP DELIVERY

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2%
## %SEASON2% INPUTS

[C-S2]. AGRICULTURAL PRODUCTION %SEASON2% / %SEASON2% INPUTS
## Roster: INPUT
generated by fixed list

input_rosters2

00010 ANIMAL MANURE (FERMENTED)

00011 FRESH/GREEN MANURE (NON FERMENTED MANURE)

00012 COMPOST

00013 PARCAGE

01000 UREA

02000 NPK

03000 DAP

04000 MOP

05000 AS

06000 SSP

07000 APS

08000 Nitrogen

09000 Phosphate

10000 Potash

00100 CONFIDOR

00101 DELORO

00102 KARATE

00103 TRICHO

00104 ACTARA

00105 MOSIBAR

00106 MORINTO

00107 SPINOSAD

00108 VERTIMEC/ ABAMICTIN

00109 TOPSIN

00110 TACHARGIM

00111 PREVICUR

00112 SERTMICE

00113 ACARICIDE

00527 WATERMELON

00528 BANANA

00529 PLANTAIN

00530 MANGO

00531 PINNEAPLE

00532  PAPAYA

00533  GUYAVA

00534  ORANGE

00535  LEMON

00536  LIME

00537  APPLE

00538  COCONUT

00539  POMEGRANADE

00540  TANGERINE

00541  CHERRY

00542  MADD/JUJUBE/SOUMP

00543  DITAKH

00544  DIMB

00545  KINKELIBA

00546  HENNA

00501  MAIZE

00502  RICE (UPLAND)

00503  RICE (LOWLAND)

00504  SORGHUM

00505  MILLET

00506  PEANUT

00507  SESAME

00508  COW EYED PEA

00509  BISSAP

00510  SWEET POTATO

00511  ORANGE SWEET POTATO

00512  POTATO

00513  TOMATO

00514  ONION

00515  PEPPERS

00516  EGGPLANT

00517  CUCUMBER

00518  CARROT

00519  RADISH

00520  TURNIP

00521  CABBAGE

00522  LEAFY VEGETABLES

00523  PUMPKIN

00524  SQUASH

00525  GREEN BEANS

00526  SOYBEANS

00999  OTHER, SPECIFY

E  `parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) && x.c1s2_8.Length>0).Any(c=>c.c1s2_8.Contains(@rowcode)) || parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) && x.c2` And 434 other symbols [3]

| C6.1. Did you or anyone in your household purchase any %rostertitle% for your own use during %season2%? | SINGLE-SELECT  c6s2_1 <br> 01 ◯ Yes <br> 00 ◯ No |
| --- | --- |

## DETAILS OF PURCHASE OF %ROSTERTITLE%

E `c6s2_1==1`

| | |
|---|---|
| **C6.2. How many times did you purchase %rostertitle% during the %season2%?**<br><br>V1 `self.InRange(0,20)`<br>M1 This seems unlikely. Please check.<br>V2 `self>0`<br>M2 This is not possible. Respondent stated to have purchased this input. Quantity must be larger than zero. | NUMERIC: INTEGER        c6s2_2<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **C6.3a. How much %rostertitle% was purchased in the largest transaction in %season2%?**<br><br>I QUANTITY<br>V1 `self>0`<br>M1 This is not possible. Respondent stated to have purchased this input. Quantity must be larger than zero. | NUMERIC: DECIMAL        c6s2_3a<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **C6.3b. UNIT**<br><br>E `c6s2_3a>0 && c6s2_3a!=888` | SINGLE-SELECT        c6s2_3b<br><br>01 ⚪ KG<br>02 ⚪ TON<br>03 ⚪ GRAM<br>04 ⚪ BAG<br>07 ⚪ BARIGO |
| VARIABLE<br><br>`c6s2_3b.InList(1,2,3,7) ? c6s2_3a*WeightConv[(int)c6s2_3b].factor : c6s2_3a*c6s2_3bbag` | DOUBLE        std_input_largest_s2 |
| **C6.3bbag. How many KGs does ONE %c6s2_3b% contain?**<br><br>E `c6s2_3b==4`<br>V1 `self>0`<br>M1 This is not possible. KG per ONE BAG must be larger than zero. Please check.<br>V2 `self<=$err_qtybag`<br>M2 The quantity of KG per BAG is too high. Please check. | NUMERIC: DECIMAL        c6s2_3bbag<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **C6.4. What type of seller made the sale in the largest transaction of %rostertitle%?** | SINGLE-SELECT        c6s2_4<br><br>001 ⚪ OTHER FARMER / HOUSEHOLD<br>002 ⚪ AGRICULTURAL INPUT DEALER<br>003 ⚪ AGRICULTURAL COOPERATIVE<br>004 ⚪ GOVERNMENT AGENCY<br>005 ⚪ NGO<br>999 ⚪ OTHER |
| **C6.4oth. Please specify other.**<br><br>E `c6s2_4==999` | TEXT        c6s2_4oth<br><br>.................................................. |
| **C6.5. Where did the largest transaction of %rostertitle% take place?** | SINGLE-SELECT        c6s2_5<br><br>001 ⚪ FARM GATE (HOME)<br>002 ⚪ VILLAGE MARKET (WITHIN OWN VILLAGE)<br>003 ⚪ VILLAGE MARKET (OUTSIDE OWN VILLAGE)<br>004 ⚪ TOWN MARKET<br>999 ⚪ OTHER |

| | |
|---|---|
| **C6.5oth.** Please specify other. | TEXT      c6s2_5oth |
| E   `c6s2_5==999` | ........................................... |

| | |
|---|---|
| **C6.6a.** In which year was the largest transaction for %rostertitle% completed? | NUMERIC: INTEGER      c6s2_6a |
| | ------------------------------ |
| I   YEAR | |
| V1   `self>=start_agrefperiod_s2.Value.Year` | |
| M1   Year of transaction for %season2% can only be within or after this season. | |
| V2   `self<=IntYear` | |
| M2   Year of transaction can not be within the future. | |

| | |
|---|---|
| **C6.6b.** In which MONTH of %c6s2_6a% was the largest transaction for %rostertitle% completed? | SINGLE-SELECT      c6s2_6b |
| | 01 ◯ January |
| I   MONTH | 02 ◯ February |
| F   `c6s2_6a<IntYear || @optioncode<=IntMonth` //Lists all months if not within year of interview. Otherwise list only those months of the Interview Year //that have passed already | 03 ◯ March |
| | 04 ◯ April |
| | 05 ◯ May |
| | 06 ◯ June |
| | 07 ◯ July |
| | 08 ◯ August |
| | 09 ◯ September |
| | 10 ◯ October |
| | 11 ◯ November |
| | 12 ◯ December |

| | |
|---|---|
| **C6.6c.** In which HALF of %c6s2_6b% in %c6s2_6a% was the largest transaction for %rostertitle% completed? | SINGLE-SELECT      c6s2_6c |
| | 01 ◯ First half |
| I   YEAR | 02 ◯ Second half |

| | |
|---|---|
| **C6.7.** What was the total value of the largest purchase of %rostertitle%? | NUMERIC: INTEGER      c6s2_7 |
| | ------------------------------. |
| I   VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED | |

| | |
|---|---|
| **C6.8.** How much did you pay to transport %rostertitle% from %c6s2_5% to your location? | NUMERIC: INTEGER      c6s2_8 |
| | ------------------------------ |

| | |
|---|---|
| **C6.9a.** How much %rostertitle% was purchased in total? | NUMERIC: DECIMAL      c6s2_9a |
| | ------------------------------ |
| I   QUANTITY | |
| V1   `self>0` | |
| M1   This is not possible. Respondent stated to have purchased this input. Quantity must be larger than zero. | |

| | |
|---|---|
| **C6.9b.** UNIT | SINGLE-SELECT      c6s2_9b |
| | 01 ◯ KG |
| E   `c6s2_9a>0 && c6s2_9a!=888` | 02 ◯ TON |
| V1   `c6s2_9b.InList(1,2,3) ? std_input_largest_s2<=c6s2_9a*WeightConv[(int)c6s2_9b].factor : true` | 03 ◯ GRAM |
| M1   The quantity purchased in total must be equal to or larger than the quantity purchased in largest transaction. Please check. <br><br> Quantity purchased in largest transaction: %std_input_largest_s2% | 04 ◯ BAG |
| | 07 ◯ BARIGO |

| | |
|---|---|
| VARIABLE | DOUBLE      std_input_total_s2 |
| `c6s2_9b.InList(1,2,3,7) ? c6s2_9a*WeightConv[(int)c6s2_9b].factor : c6s2_9a*c6s2_9bbag` | |

| | |
|---|---|
| **C6.9bbag.** How many KGs does <u>ONE %c6s2_9b%</u> contain? | NUMERIC: DECIMAL    c6s2_9bbag |
| E `c6s2_9b==4` | |
| V1 `std_input_largest_s2<=c6s2_9a*c6s2_9bbag` | ------------------------------- |
| M1 The quantity purchased in total must be equal to or larger than the quantity purchased in largest transaction. Please check. <br><br> Quantity purchased in largest transaction: %std_input_largest_s2% | |
| V2 `self>0` | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V3 `self<=$err_qtybag` | |
| M3 The quantity of KG per BAG is too high. Please check. | |
| **C6.10.** Did you receive %rostertitle% as part of a subsidy program? | SINGLE-SELECT    c6s2_10<br>01 ◯ Yes<br>00 ◯ No |
| **C6.11.** How much was spent to purchase %rostertitle%? | NUMERIC: INTEGER    c6s2_11 |
| I ESTIMATE VALUE OF IN-KIND PAYMENTS | ------------------------------- |
| V1 `self>=c6s2_7` | |
| M1 This is not possible. Value of total purchase must be equal to or larger than the value of purchase made in the largest transaction. Please check. | |
| **C6.12.** How much was spent in total to transport %rostertitle%? | NUMERIC: INTEGER    c6s2_12 |
| I ESTIMATE VALUE OF IN-KIND PAYMENTS | ------------------------------- |
| V1 `self>=c6s2_8` | |
| M1 This is not possible. Value of total costs of transportation must be equal to or larger than the value of total costs of transportation made in the largest transaction. Please check. | |
| **C6.13a.** How much %rostertitle% was received for free? | NUMERIC: DECIMAL    c6s2_13a |
| I QUANTITY | ------------------------------- |
| **C6.13b.** UNIT | SINGLE-SELECT    c6s2_13b<br>01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG<br>07 ◯ BARIGO |
| E `c6s2_13a>0 && c6s2_13a!=888` | |
| **C6.13bbag.** How many KGs does <u>ONE %c6s2_13b%</u> contain? | NUMERIC: DECIMAL    c6s2_13bbag |
| E `c6s2_13b==4` | ------------------------------- |
| V1 `self>0` | |
| M1 This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V2 `self<=$err_qtybag` | |
| M2 The quantity of KG per BAG is too high. Please check. | |
| **C6.14.** Please select up to three types of party that provided free %rostertitle%, in order of importance. | MULTI-SELECT: ORDERED    c6s2_14<br>001 ☐ OTHER FARMER / HOUSEHOLD<br>002 ☐ AGRICULTURAL INPUT DEALER<br>003 ☐ AGRICULTURAL COOPERATIVE<br>004 ☐ GOVERNMENT AGENCY<br>005 ☐ NGO<br>999 ☐ OTHER |
| E `c6s2_13a>0` | |

| C6.14oth. Please specify other. | TEXT | c6s2_14oth |
|---|---|---|
| E c6s2_14.Contains(999) | | |

# [C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP%

E consent==1 && (parcelroster.Any(p=>p.b2_2a.Yes.Contains(3)) || parcelroster.Any(p=>p.b3s2_2==1) || parcelroster.Any(p=>p.b3s1_2==1) )

STATIC TEXT

*[ENUMERATOR: CONVEY THE FOLLOWING STATEMENT TO THE RESPONDENT:]*

STATIC TEXT

*Now we will talk about your perennial crop production between %seasontp%.*

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP%
## %SEASONTP% INPUTS AND HARVEST

E parcelroster.Any(p=>p.b2_2a.Yes.Contains(3))

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST
## Roster: PARCEL
generated by numeric question b1_1

parcelroster_tp

E b2_2a.Yes.Contains(3)

| C1.1. Who in the household makes the decisions concerning crops to be planted, input use and the timing of cropping activities on %parcelroster_tp% during %seasontp%? | MULTI-SELECT: LINKED | c1tp_1 |
|---|---|---|
| I Select up to two | | |
| F a1_6a>12 | | |

| C1.2. Which trees / permanent crops were harvested from %parcelroster_tp% between %seasontp%? | MULTI-SELECT | c1tp_2 |
|---|---|---|
| | 527 ☐ WATERMELON | |
| | 528 ☐ BANANA | |
| | 529 ☐ PLANTAIN | |
| | 530 ☐ MANGO | |
| | 531 ☐ PINNEAPLE | |
| | 532 ☐ PAPAYA | |
| | 533 ☐ GUYAVA | |
| | 534 ☐ ORANGE | |
| | 535 ☐ LEMON | |
| | 536 ☐ LIME | |
| | 537 ☐ APPLE | |
| | 538 ☐ COCONUT | |
| | 539 ☐ POMEGRANADE | |
| | 540 ☐ TANGERINE | |
| | 541 ☐ CHERRY | |
| | 542 ☐ MADD/JUJUBE/SOUMP | |
| | And 5 other symbols [11] | |

| C2.1. During %seasontp%, was the plot %parcelroster_tp% irrigated? | SINGLE-SELECT | c2tp_1 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |

| | |
|---|---|
| **C2.2. What is the primary source of water for irrigation on %parcelroster_tp%?**<br><br>I  Difference between BOREHOLE and WELL is whether the well is drilled (BOREHOLE) or dug (WELL)<br>E  `c2tp_1==1` | SINGLE-SELECT        c2tp_2<br><br>002 ⚪ BOREHOLE<br>003 ⚪ WELL<br>004 ⚪ RIVER / STREAM<br>005 ⚪ POND / LAKE<br>999 ⚪ OTHER |
| **C2.2oth. Please specify the primary source of water for irrigation.**<br><br>E  `c2tp_2==999`<br>V1  `self.Length>2`<br>M1  Description is too short! Please specify more. | TEXT        c2tp_2oth<br><br>.................................................. |
| **C2.3. What is the primary method for distributing water for irrigation on plot %parcelroster_tp% during %seasontp%?**<br><br>E  `c2tp_1==1` | SINGLE-SELECT        c2tp_3<br><br>001 ⚪ HAND / BUCKET<br>002 ⚪ HAND PUMP<br>003 ⚪ MOTORIZED / ELECTRICAL PUMP<br>004 ⚪ FLOODING<br>005 ⚪ CANAL<br>999 ⚪ OTHER |
| **C2.3oth. Please specify the primary method for distributing water for irrigation.**<br><br>E  `c2tp_3==999`<br>V1  `self.Length>2`<br>M1  Description is too short! Please specify more. | TEXT        c2tp_3oth<br><br>.................................................. |
| **C2.4. Is the irrigation system for %parcelroster_tp% part of a community irrigation scheme during %seasontp%?**<br><br>E  `c2tp_1==1` | SINGLE-SELECT        c2tp_4<br><br>01 ⚪ Yes<br>00 ⚪ No |
| **C2.4a. Who provided this communal irrigation system?**<br><br>E  `c2tp_1==1 & c2tp_4 ==1` | SINGLE-SELECT        c2tp_4a<br><br>001 ⚪ PAFA<br>002 ⚪ Government<br>003 ⚪ Other NGO/ development program<br>004 ⚪ Own community<br>999 ⚪ Other, specify |
| **C2.4aoth. Please specify other.**<br><br>E  `c2tp_4a==99` | TEXT        c2tp_4aoth<br><br>.................................................. |
| **C2.5. Was the timing of water from the irrigation system adequate for production on %parcelroster_tp% during %seasontp%?**<br><br>E  `c2tp_1==1` | SINGLE-SELECT        c2tp_5<br><br>01 ⚪ Yes<br>00 ⚪ No |
| **C2.6. Was the amount of water from the irrigation system adequate for production on %parcelroster_tp% during %seasontp%?**<br><br>E  `c2tp_1==1` | SINGLE-SELECT        c2tp_6<br><br>01 ⚪ Yes<br>00 ⚪ No |
| **C2.7. What was the quality of the water from the irrigation system for %parcelroster_tp% during %seasontp%?**<br><br>E  `c2tp_1==1` | SINGLE-SELECT        c2tp_7<br><br>01 ⚪ Very Good<br>02 ⚪ Good<br>03 ⚪ Bad<br>04 ⚪ Very Bad |

| | C2.8a. Did you use any organic fertilizer on %parcelroster_tp% during %seasontp%? | SINGLE-SELECT | c2tp_8a |
|---|---|---|---|

SINGLE-SELECT      c2tp_8a

01 ◯ YES
00 ◯ NO

---

C2.8b. What type of organic fertiliser was used on %parcelroster_tp% in the %seasontp%?

E `c2tp_8a==1`

MULTI-SELECT      c2tp_8b

010 ☐ ANIMAL MANURE (FERMENTED)
011 ☐ FRESH/GREEN MANURE (NON FERMENTED MANURE)
012 ☐ COMPOST
013 ☐ PARCAGE
999 ☐ OTHER (SPECIFY)

---

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL
## Roster: ORGANIC FERTILIZER
generated by multi-select question c2tp_8b      organfert_tp

---

C2.8oth. Please specify other.

E `@rowcode==999`

TEXT      c2tp_8oth

---

C2.8c. How many times did you apply %rostertitle% on %parcelroster_tp% during %seasontp%?

V1 `self>0`
M1 Respondent stated to have used %rostertitle% during %seasontp%. Therefore must be larger than zero.
W2 `self<75`
M2 This seems very high. Please check.
V3 `self<150`
M3 The number of applications is too high. Please check.

NUMERIC: INTEGER      c2tp_8c

---

C2.8d. How much in total of %rostertitle% was applied on %parcelroster_tp% during %seasontp%?

I QUANTITY
V1 `self>0`
M1 Respondent stated to have used %rostertitle% during %seasontp%. Therefore must be larger than zero.
V2 `self.InRange(0.01,1000)`
M2 This seems unlikely. Please check.

NUMERIC: DECIMAL      c2tp_8da

---

C2.8db. UNIT

I UNIT
E `c2tp_8da!=888`
V1 `c2tp_8da.InList(1,2,3,5,6) ? qty_orgfert_tp<$err_fertilizer_qty : true`
M1 The quantity of fertilizer is too high. Please check.
W2 `c2tp_8da.InList(1,2,3,5,6) ? qty_orgfert_tp<$warn_fertilizer_qty : true`
M2 This seems very high. Please confirm.

SINGLE-SELECT      c2tp_8db

01 ◯ KG
02 ◯ TON
03 ◯ GRAM
04 ◯ BAG (NON-LIQUID)
05 ◯ LITER
06 ◯ MILLILITER
09 ◯ CART

---

C2.8dbbag. How many KGs does ONE %c2tp_8db% contain?

E `c2tp_8db==4`
V1 `self<=$err_qtybag`
M1 The quantity of KG per BAG is too high. Please check.
V2 `qty_orgfert_tp<$err_fertilizer_qty`
M2 The quantity of fertilizer is too high. Please check.
W3 `qty_orgfert_tp<$warn_fertilizer_qty`
M3 This seems very high. Please confirm.
V4 `self>0`
M4 This is not possible. KG per ONE BAG must be larger than zero. Please check.

NUMERIC: DECIMAL      c2tp_8dbbag

| C2.8dbbag2. How many KGs does ONE %c2tp_8db% contain? | NUMERIC: INTEGER | c2tp_8dbbag2 |
|---|---|---|
| E `c2tp_8db == 9` | --------------------------------- | |

| VARIABLE | DOUBLE | qty_orgfert_tp |
|---|---|---|
| `c2tp_8db.InList(1,2,3,5,6) ? c2tp_8da*WeightplusLiterConv[(int)c2tp_8db].factor : new[]{c2tp_8da*c2tp_8dbbag, c2tp_8da*c2tp_8dbbag2}.Sum()` | | |

STATIC TEXT

*Now I would like to ask you about inorganic fertilizers that you used during %seasontp%.*

| C2.9a. Did you use any basal inorganic fertilizer on %parcelroster_tp% during %seasontp%? | SINGLE-SELECT | c2tp_9a |
|---|---|---|
| | 01 ◯ YES<br>00 ◯ NO | |

| C2.9b. What types of inorganic fertilizer did you apply as basal fertilizer on %parcelroster_tp% during %seasontp%? | MULTI-SELECT | c2tp_9b |
|---|---|---|
| I  SELECT UP TO THREE.<br>E  `c2tp_9a==1` | 01000 ☐ UREA<br>02000 ☐ NPK<br>03000 ☐ DAP<br>04000 ☐ MOP<br>05000 ☐ AS<br>06000 ☐ SSP<br>07000 ☐ APS<br>08000 ☐ Nitrogen<br>09000 ☐ Phosphate<br>10000 ☐ Potash<br>00999 ☐ OTHER, SPECIFY | |

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL
## Roster: BASAL INORGANIC FERTILIZER
generated by multi-select question `c2tp_9b`    basalinorgfrtzl_tp

| C2.9oth. Please specify | TEXT | c2tp_9both |
|---|---|---|
| E  `@rowcode==999` | ·································· | |

| C2.9c. How many times did you apply %rostertitle% on %parcelroster_tp% as basal fertilizer during %seasontp%? | NUMERIC: INTEGER | c2tp_9c |
|---|---|---|
| V1 `self>0`<br>M1 Respondent stated to have used %rostertitle% during %seasontp%. Therefore must be larger than zero.<br>V2 `self.InRange(1,50)`<br>M2 This seems unlikely. Please check. | --------------------------------- | |

| C2.9da. When was the primary application of basal fertilizer made on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_9da |
|---|---|---|
| I  YEAR OF APPLICATION<br>V1 `self.InRange(start_agrefperiod_tp.Value.Year,end_agrefperiod_tp.Value.Year)`<br>M1 This is not possible. Year must be within reference period of %seasontp%! | --------------------------------- | |

| | |
|---|---|
| C2.9db. In which MONTH of %c2tp_9da% has the primary application of basal fertilizer been made on %parcelroster_tp%?<br><br>I  MONTH OF APPLICATION<br>F  @optioncode>=start_agrefperiod_tp.Value.Month \|\| @optioncode<=end _agrefperiod_tp.Value.Month /// Makes sure that only the months of your reference period are listed. | SINGLE-SELECT        c2tp_9db<br>01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December |
| C2.9dc. In which HALF of MONTH %c2tp_9db%?<br><br>I  HALF OF MONTH | SINGLE-SELECT        c2tp_9dc<br>01 ◯ FIRST HALF<br>02 ◯ SECOND HALF |
| C2.9ea. How much in total of %rostertitle% was applied as basal fertilizer on %parcelroster_tp% during %seasontp%?<br><br>I  QUANTITY<br>V1  `self>0`<br>M1  Respondent stated to have used %rostertitle% during %seasontp% on plot %parcelroster_tp%. Therefore quantity must be larger than zero.<br>V2  `self.InRange(0.01,1000)`<br>M2  This seems unlikely. Please check. | NUMERIC: DECIMAL        c2tp_9ea<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| C2.9eb. UNIT<br><br>E  `c2tp_9ea!=888`<br>V1  `c2tp_9eb.InList(1,2,3,5,6,8) ? qty_bas_inorgfert_tp<$err _fertilizer_qty : true`<br>M1  The quantity of fertilizer is too high. Please check.<br>W2  `c2tp_9eb.InList(1,2,3,5,6,8) ? qty_bas_inorgfert_tp<$warn_fertilizer_qty : true`<br>M2  This seems very high. Please confirm. | SINGLE-SELECT        c2tp_9eb<br>01 ◯ KG<br>02 ◯ TON<br>03 ◯ GRAM<br>04 ◯ BAG (NON-LIQUID)<br>05 ◯ LITER<br>06 ◯ MILLILITER<br>10 ◯ BUCKET (LIQUID)<br>11 ◯ TABLETS |
| C2.9dbbag. How many KGs does ONE %c2tp_9eb% contain?<br><br>E  `c2tp_9eb==4`<br>V1  `self<=$err_qtybag`<br>M1  The quantity of KG per BAG is too high. Please check.<br>V2  `qty_bas_inorgfert_tp<$err_fertilizer_qty`<br>M2  The quantity of fertilizer is too high. Please check.<br>W3  `qty_bas_inorgfert_tp<$warn_fertilizer_qty`<br>M3  This seems very high. Please confirm.<br>V4  `self>0`<br>M4  This is not possible. KG per ONE BAG must be larger than zero. Please check. | NUMERIC: DECIMAL        c2tp_9ebbag<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| C2.9bcan. How many LITERS does ONE %c2tp_9eb% contain?<br><br>E  `c2tp_9eb==10`<br>V1  `self<=$err_litcan`<br>M1  The amount of LITERS for <u>ONE BUCKET</u> is too high. Please check. | NUMERIC: DECIMAL        c2tp_9ebcan<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| VARIABLE<br><br>`c2tp_9eb.InList(1,2,3,5,6,8) ? c2tp_9ea*WeightplusLiterConv[(int)c2tp_9eb].factor : new[]{c2tp_9ea*c2tp_9ebbag, c2tp_9ea*c2tp_9ebcan}.Sum()` | DOUBLE        qty_bas_inorgfert_tp |

| | | |
|---|---|---|
| C2.10a. Did you use any top-dressing inorganic fertilizer on %parcelroster_tp% during %seasontp%? | SINGLE-SELECT<br><br>01 ◯ YES<br>00 ◯ NO | c2tp_10a |

| | | |
|---|---|---|
| C2.10b. What types of inorganic fertilizer did you apply as top-dressing fertilizer on %parcelroster_tp% during %seasontp%?<br><br>I SELECT UP TO THREE.<br>E c2tp_10a==1 | MULTI-SELECT<br><br>01000 ☐ UREA<br>02000 ☐ NPK<br>03000 ☐ DAP<br>04000 ☐ MOP<br>05000 ☐ AS<br>06000 ☐ SSP<br>07000 ☐ APS<br>08000 ☐ Nitrogen<br>09000 ☐ Phosphate<br>10000 ☐ Potash<br>00999 ☐ OTHER, SPECIFY | c2tp_10b |

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL

## Roster: TOP-DRESSING INORGANIC FERTILIZER

generated by multi-select question c2tp_10b          topdressinorgfrtzl_tp

| | | |
|---|---|---|
| C2.10both. Please specify<br><br>E @rowcode==999 | TEXT<br><br>.................................... | c2tp_10both |

| | | |
|---|---|---|
| C2.10C. How many times did you apply %rostertitle% on %parcelroster_tp% as top-dressing fertilizer during %seasontp%?<br><br>V1 self>0<br>M1 Respondent stated to have used %rostertitle% during %seasontp%. Therefore must be larger than zero.<br>V2 self.InRange(1,50)<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER<br><br>- - - - - - - - - - - - - - - - - - - - - - - | c2tp_10c |

| | | |
|---|---|---|
| C2.10da. When was the primary application of top-dressing fertilizer made on %parcelroster_tp% during %seasontp%?<br><br>I YEAR OF APPLICATION<br>V1 self.InRange(start_agrefperiod_tp.Value.Year,end_agrefperiod_tp.Value.Year)<br>M1 This is not possible. Year must be within reference period of %seasontp%! | NUMERIC: INTEGER<br><br>- - - - - - - - - - - - - - - - - - - - - - - | c2tp_10da |

| | | |
|---|---|---|
| C2.10db. In which MONTH of %c2tp_10da% has the primary application of top-dressing %rostertitle% been made on %parcelroster_tp%?<br><br>I MONTH OF APPLICATION<br>F @optioncode>=start_agrefperiod_tp.Value.Month \|\| @optioncode<=end_agrefperiod_tp.Value.Month /// Makes sure that only the months of your reference period are listed. | SINGLE-SELECT<br><br>01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December | c2tp_10db |

| | | |
|---|---|---|
| C2.10dc. In which HALF of MONTH %c2tp_10db%?<br><br>I HALF OF MONTH | SINGLE-SELECT<br><br>01 ◯ FIRST HALF<br>02 ◯ SECOND HALF | c2tp_10dc |

| | |
|---|---|
| **C2.10ea.** How much in total of %rostertitle% was applied as top-dressing fertilizer on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL c2tp_10ea |
| I QUANTITY | - - - - - - - - - - - - - - - - - - - - - - - - - . |
| V1 `self>0` | |
| M1 Respondent stated to have used %rostertitle% during %seasontp% on plot %parcelroster_tp%. Therefore quantity must be larger than zero. | |
| V2 `self.InRange(0.01,1000)` | |
| M2 This seems unlikely. Please check. | |

| | |
|---|---|
| **C2.10eb. UNIT** | SINGLE-SELECT c2tp_10eb |
| E `c2tp_10da!=888` | 01 ○ KG |
| V1 `c2tp_10eb.InList(1,2,3,5,6,8) ? qty_top_inorgfert_tp<$err_fertilizer_qty : true` | 02 ○ TON |
| | 03 ○ GRAM |
| M1 The quantity of fertilizer is too high. Please check. | 04 ○ BAG (NON-LIQUID) |
| W2 `c2tp_10eb.InList(1,2,3,5,6,8) ? qty_top_inorgfert_tp<$warn_fertilizer_qty : true` | 05 ○ LITER |
| | 06 ○ MILLILITER |
| M2 This quantity of input is very high. Please confirm. | 10 ○ BUCKET (LIQUID) |
| | 11 ○ TABLETS |

| | |
|---|---|
| **C2.10dbbag.** How many KGs does <u>ONE %c2tp_10eb%</u> contain? | NUMERIC: DECIMAL c2tp_10ebbag |
| E `c2tp_10eb==4` | - - - - - - - - - - - - - - - - - - - - - - - - - . |
| V1 `self<=$err_qtybag` | |
| M1 The quantity of KG per BAG is too high. Please check. | |
| W2 `qty_top_inorgfert_tp<$warn_fertilizer_qty` | |
| M2 This quantity of fertilizer is very high. Please confirm. | |
| V3 `qty_top_inorgfert_tp<$err_fertilizer_qty` | |
| M3 The quantity of fertilizer is too high. Please check. | |
| V4 `self>0` | |
| M4 This is not possible. KG per ONE BAG must be larger than zero. Please check. | |

| | |
|---|---|
| **C2.10bcan.** How many LITERS does <u>ONE %c2tp_10eb%</u> contain? | NUMERIC: DECIMAL c2tp_10ebcan |
| E `c2tp_10eb==10` | - - - - - - - - - - - - - - - - - - - - - - - - - . |
| V1 `self<=$err_litcan` | |
| M1 The amount of LITERS for <u>ONE %c2tp_10eb%</u> is too high. Please check. | |
| V2 `qty_top_inorgfert_tp<$warn_fertilizer_qty` | |
| M2 The quantity of fertilizer is very high. Please confirm. | |
| V3 `qty_top_inorgfert_tp<$err_fertilizer_qty` | |
| M3 The quantity of fertilizer is too high. Please check. | |

| | |
|---|---|
| VARIABLE | DOUBLE qty_top_inorgfert_tp |
| `c2tp_10eb.InList(1,2,3,5,6,8) ? c2tp_10ea*WeightConv[(int)c2tp_10eb].factor : new[]{c2tp_10ea*c2tp_10ebbag, c2tp_10ea*c2tp_10ebcan}.Sum()` | |

| | |
|---|---|
| **C2.11a.** How many complete weedings did you do on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER c2tp_11a |
| V1 `self<150` | - - - - - - - - - - - - - - - - - - - - - - - - - . |
| M1 This seems unlikely. Please check. | SPECIAL VALUES |
| | 00 Never weeded |

| | |
|---|---|
| **C2.11b.** How many weeks after planting was the first weeding completed on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER c2tp_11b |
| E `c2tp_11a>0` | - - - - - - - - - - - - - - - - - - - - - - - - - . |
| V1 `self>0` | SPECIAL VALUES |
| M1 This is not possible. Weeding has been done, must be larger than 0. | 01 Within week of planting |

| | |
|---|---|
| C2.12a. Did you use any pesticides / herbicides on this %parcelroster_tp% during %seasontp%? | SINGLE-SELECT  c2tp_12a <br><br> 01 ◯ YES <br> 00 ◯ NO |
| C2.12b. What type(s) of pesticide / herbicide did you apply on plot %parcelroster_tp% during %seasontp%? <br><br> I SELECT UP TO THREE. <br> E c2tp_12a==1 | MULTI-SELECT  c2tp_12b <br><br> 100 ☐ CONFIDOR <br> 101 ☐ DELORO <br> 102 ☐ KARATE <br> 103 ☐ TRICHO <br> 104 ☐ ACTARA <br> 105 ☐ MOSIBAR <br> 106 ☐ MORINTO <br> 107 ☐ SPINOSAD <br> 108 ☐ VERTIMEC/ ABAMICTIN <br> 109 ☐ TOPSIN <br> 110 ☐ TACHARGIM <br> 111 ☐ PREVICUR <br> 112 ☐ SERTMICE <br> 113 ☐ ACARICIDE <br> 999 ☐ OTHER (SPECIFY) |

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL

## Roster: PESTICIDE

generated by multi-select question `c2tp_12b`                              pesticide_tp

| | |
|---|---|
| C2.12both. Please name the other pesticide/herbicide that you applied on %parcelroster_tp% during %seasontp% <br><br> E @rowcode==999 | TEXT  c2tp_12both <br><br> ................................................ |
| C2.12ca. How much in total of %rostertitle% was applied on %parcelroster_tp% during %seasontp%? <br><br> I QUANTITY <br> V1 `self>0` <br> M1 Quantity must be larger than zero. Please check. <br> V2 `self.InRange(0.01,1000)` <br> M2 This seems unlikely. Please check. | NUMERIC: DECIMAL  c2tp_12ca <br><br> - - - - - - - - - - - - - - - - - - - - - - - - |
| C2.12cb. UNIT <br><br> E `c2tp_12ca!=888` <br> V1 `c2tp_12cb.InList(1,2,3,5,6,8) ? qty_pesticide_tp<$err_pesticide_qty : true` <br> M1 The quantity of pesticides is too high. Please check. <br> W2 `c2tp_12cb.InList(1,2,3,5,6,8) ? qty_pesticide_tp<$warn_pesticide_qty : true` <br> M2 The quantity of pesticides seems very high. Please confirm. | SINGLE-SELECT  c2tp_12cb <br><br> 01 ◯ KG <br> 02 ◯ TON <br> 03 ◯ GRAM <br> 04 ◯ BAG (NON-LIQUID) <br> 05 ◯ LITER <br> 06 ◯ MILLILITER <br> 10 ◯ BUCKET (LIQUID) <br> 11 ◯ TABLETS |
| C2.12cbag. How many KGs does <u>ONE</u> %c2tp_12cb% contain? <br><br> E `c2tp_12cb==4` <br> V1 `self<=$err_qtybag` <br> M1 The quantity of KG per BAG is too high. Please check. <br> V2 `qty_pesticide_tp<$err_pesticide_qty` <br> M2 The quantity of pesticides is too high. Please check. <br> W3 `qty_pesticide_tp<$warn_pesticide_qty` <br> M3 The quantity of pesticides seems very high. Please confirm. | NUMERIC: DECIMAL  c2tp_12cbag <br><br> - - - - - - - - - - - - - - - - - - - - - - - - |

| | |
|---|---|
| C2.12ccan. How many LITERS does ONE %c2tp_12cb% contain? | NUMERIC: DECIMAL      c2tp_12ccan |

E `c2tp_12cb==10`
V1 `qty_pesticide_tp<$err_pesticide_qty`
M1 The quantity of pesticides is too high. Please check.
W2 `qty_pesticide_tp<$warn_pesticide_qty`
M2 The quantity of pesticides seems very high. Please confirm.
V3 `self<=$err_litcan`
M3 The amount of LITERS for <u>ONE %c2tp_12cb%</u> is too high. Please check.

| | |
|---|---|
| VARIABLE | DOUBLE      qty_pesticide_tp |

```
c2tp_12cb.InList(1,2,3,5,6,8) ? c2tp_12ca*WeightConv[(in
t)c2tp_12cb].factor : new[]{c2tp_12ca*c2tp_12cbag, c2tp_
12ca*c2tp_12ccan}.Sum()
```

| | |
|---|---|
| C2.12da. When was the primary application of %rostertitle% on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER      c2tp_12da |

I YEAR OF APPLICATION
V1 `self.InRange(start_agrefperiod_tp.Value.Year,end_agrefpe riod_tp.Value.Year)`
M1 This is not possible. Year must be within reference period of %seasontp%!

| | |
|---|---|
| C2.12db. In which MONTH of %c2tp_12da% has the primary application of top-dressing %rostertitle% been made on %parcelroster_tp%? | SINGLE-SELECT      c2tp_12db<br>01 ◯ January<br>02 ◯ February<br>03 ◯ March<br>04 ◯ April<br>05 ◯ May<br>06 ◯ June<br>07 ◯ July<br>08 ◯ August<br>09 ◯ September<br>10 ◯ October<br>11 ◯ November<br>12 ◯ December |

I MONTH OF APPLICATION
F `@optioncode>=start_agrefperiod_tp.Value.Month || @optioncode<=end _agrefperiod_tp.Value.Month` /// Makes sure that only the months of your reference period are listed.

| | |
|---|---|
| C2.12dc. In which HALF of MONTH %c2tp_12db%? | SINGLE-SELECT      c2tp_12dc<br>01 ◯ FIRST HALF<br>02 ◯ SECOND HALF |

I HALF OF MONTH

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL

# LABOR

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL / LABOR

# LABOR - LAND PREPARATION

| | |
|---|---|
| C2.17. How many days of family labor were worked on land preparation on %parcelroster_tp% during %seasontp%: | NUMERIC: INTEGER      c2tp_17 |

| | |
|---|---|
| C2.17aa. How many ADULT MALES worked on land preparation on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER      c2tp_17aa |

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| C2.17ab. How many ADULT FEMALES worked on land preparation on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_17ab |
|---|---|---|

I  Adult Female Days
V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| C2.17ac. How many CHILDREN (≤14 yrs) worked on land preparation on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_17ac |
|---|---|---|

I  Child (≤14 yr) Days
V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| C2.17b. How many days of Exchange/Free labor were worked on land preparation on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_17b |
|---|---|---|

I  DAYS
V1  `self<$err_labor_tp`
M1  This amount of days of exchange/free labor during %seasontp% is too high. Please check.

| C2.17c. How many days of hired labor were worked on land preparation on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_17c |
|---|---|---|

I  DAYS
V1  `self<$err_labor_tp`
M1  This amount of days of hired labor during %seasontp% is too high. Please check.

| C2.17d. What was the total cost for the %c2tp_17c% days of hired labor on land preparation on %parcelroster_tp% during %seasontp% in cash and in kind in %lcu%? | NUMERIC: INTEGER | c2tp_17d |
|---|---|---|

I  Value in %lcu%
E  `c2tp_17c>0`
V1  `self>0`
M1  Respondent hired paid labor. Costs must be larger than zero.
V2  `self<$err_laborcost`
M2  The laborcost are too high. Please check.
W3  `self<$warn_laborcost`
M3  The laborcost seem very high. Please confirm.

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL / LABOR
# LABOR - PLANTING

| C2.17. How many days of family labor were worked on planting on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_20 |
|---|---|---|

| C2.17aa. How many ADULT MALES worked on planting on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_20aa |
|---|---|---|

V1  `self.InRange(0,100)`
M1  This seems unlikely. Please check.

| C2.17ab. How many ADULT FEMALES worked on planting on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_20ab |
|---|---|---|

I Adult Female Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| C2.17ac. How many CHILDREN (≤14 yrs) worked on planting on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_20ac |
|---|---|---|

I Child (≤14 yr) Days
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| C2.17b. How many days of Exchange/Free labor were worked on planting on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_20b |
|---|---|---|

I DAYS
V1 `self<$err_labor_tp`
M1 This amount of days of exchange/free labor during %seasontp% is too high. Please check.

| C2.17c. How many days of hired labor were worked on planting on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_20c |
|---|---|---|

I DAYS
V1 `self<$err_labor_tp`
M1 This amount of days of hired labor during %seasontp% is too high. Please check.

| C2.17d. What was the total cost for the %c2tp_17c% days of hired labor on planting on %parcelroster_tp% during %seasontp% <u>in cash and in kind</u> in %lcu%? | NUMERIC: INTEGER | c2tp_20d |
|---|---|---|

I Value in %lcu%
E `c2tp_17c>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL / LABOR
## LABOR - HARVEST

| C2.18. How many days of family labor were worked on harvest on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_18 |
|---|---|---|

| C2.18aa. How many ADULT MALES worked on land harvest on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_18aa |
|---|---|---|

V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| C2.18ab. How many ADULT FEMALES worked on harvest on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_18ab |
|---|---|---|

| | |
|---|---|
| C2.18ac. How many days CHILDREN (≤14 yr) worked on harvest on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL     c2tp_18ac <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |

I   Child (≤14 yr) Days
V1   `self.InRange(0,100)`
M1   This seems unlikely. Please check.

| | |
|---|---|
| C2.18b. How many days of exchange / free labor were worked on harvest on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL     c2tp_18b <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |

I   DAYS
V1   `self<$err_labor_tp`
M1   This amount of days of exchange/free labor during %seasontp% is too high. Please check.

| | |
|---|---|
| C2.18c. How many days of hired labor were worked on harvest on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL     c2tp_18c <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |

I   DAYS
V1   `self<$err_labor_tp`
M1   This amount of days of hired labor during %seasontp% is too high. Please check.

| | |
|---|---|
| C2.18d. What was the total cost for the %c2tp_18c% days of hired labor on harvest on %parcelroster_tp% during %seasontp% <u>in cash and in kind</u> in %lcu%? | NUMERIC: INTEGER     c2tp_18d <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |

I   Value in %lcu%
E   `c2tp_18c>0`
V1   `self>0`
M1   Respondent hired paid labor. Costs must be larger than zero.
V2   `self<$err_laborcost`
M2   The laborcost are too high. Please check.
W3   `self<$warn_laborcost`
M3   The laborcost seem very high. Please confirm.

| | |
|---|---|
| C2.19a. Did you have any other family labor and/or exchange/free labor and/or hired labor for any other activity on plot %parcelroster_tp% during %seasontp%? | SINGLE-SELECT     c2tp_19a <br><br> 01 ◯ Yes <br> 00 ◯ No |

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL / LABOR
# LABOR - ANY OTHER ACTIVITY
E   `c2tp_19a==1`

| | |
|---|---|
| C2.19aoth. Please specify the other activities. | TEXT     c2tp_19aoth <br><br> ................................................................... |

| | |
|---|---|
| C2.19. How many days of family labor were worked on any other activity on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL     c2tp_19 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - . |

V1   `self.InRange(0,100)`
M1   This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.19aa. How many ADULT MALES worked on any other activities on %parcelroster_tp% during %seasontp%? | NUMERIC: INTEGER | c2tp_19aa |

I ADULT MALES
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.19bb. How many ADULT FEMALES worked on any other activity on %parcelroster_tp% during %seasontp% | NUMERIC: DECIMAL | c2tp_19bb |

I Adult Females
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.19bc. How many CHILDREN worked on any other activity on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_19bc |

I Children (<= 14 yrs)
V1 `self.InRange(0,100)`
M1 This seems unlikely. Please check.

| | | |
|---|---|---|
| C2.19c. How many days of exchange/free labor were worked on any other activity on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_19c |

I DAYS
V1 `self<$err_labor_tp`
M1 This amount of days of exchange/free labor during %seasontp% is too high. Please check.

| | | |
|---|---|---|
| C2.19d. How many days of hired labor were worked on any other activity on %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c2tp_19d |

I DAYS
V1 `self<$err_labor_tp`
M1 This amount of days of hired labor during %seasontp% is too high. Please check.

| | | |
|---|---|---|
| C2.19e. What was the total cost for the %c2tp_19d% days of hired labor on any other activity on %parcelroster_tp% during %seasontp% <u>in cash and in-kind</u> in %lcu%? | NUMERIC: INTEGER | c2tp_19e |

I Value in %lcu%
E `c2tp_19d>0`
V1 `self>0`
M1 Respondent hired paid labor. Costs must be larger than zero.
V2 `self<$err_laborcost`
M2 The laborcost are too high. Please check.
W3 `self<$warn_laborcost`
M3 The laborcost seem very high. Please confirm.

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL

## PLANTING, STRESSES AND HARVEST

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / %SEASONTP% INPUTS AND HARVEST / PARCEL / PLANTING, STRESSES AND HARVEST

## Roster: PLOT %PARCELROSTER_TP% - CROP

generated by multi-select question `c1tp_2`                                   plotcrop_tp

| | | |
|---|---|---|
| Please specify the crop | TEXT | c1tp_2oth |

E @rowcode==999

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

---

| | | |
|---|---|---|
| C1.3. Is the %rostertitle% planted in a dedicated area, or spread throughout %parcelroster_tp%? | SINGLE-SELECT | c1tp_3 |

01 ○ Dedicated Area
02 ○ Spread Throughout

---

| | | |
|---|---|---|
| C1.4. Approximately how much of %parcelroster_tp% was/is planted with %rostertitle% ? | SINGLE-SELECT | c1tp_4 |

E c1tp_3==1

01 ○ Less than 1/4
02 ○ 1/4
03 ○ 1/2
04 ○ 3/4
05 ○ The whole area of plot

---

| | | |
|---|---|---|
| C1.5. How many %rostertitle% trees/crops are placed on this plot %parcelroster_tp%? | NUMERIC: INTEGER | c1tp_5 |

V1 self>0
M1 Respondent said that this plot is planted with this crop. Quantity must be larger than zero.

---

| | | |
|---|---|---|
| C1.6. In what year were most of these %rostertitle% planted on plot %parcelroster_tp%? | NUMERIC: INTEGER | c1tp_6 |

I YEAR
V1 self>1900 || self==888
M1 This year seems too far in the past. Please check.
V2 self<=IntYear
M2 Year can not be within the future. Please check.

SPECIAL VALUES
888  Don't know

---

| | | |
|---|---|---|
| C1.7. How many %rostertitle% were planted on %parcelroster_tp% between %seasontp%? | NUMERIC: INTEGER | c1tp_17 |

I NUMBER OF PLANTED CROP
V1 self<=c1tp_5
M1 This seems unlikely. Respondent stated that there are %c1tp_6% crops on this plot. Planted trees/crops within %seasontp% should be smaller or equal to this number. Please check.

---

| | | |
|---|---|---|
| C3.4a. How much %rostertitle% did you harvest from %parcelroster_tp% during %seasontp%? | NUMERIC: DECIMAL | c3tp_4a |

I QUANTITY

---

| | | |
|---|---|---|
| C3.4b. UNIT OF HARVEST | SINGLE-SELECT | c3tp_4b |

I UNIT
E c3tp_4a>0 && c3tp_4a!=888
V1 stand_harvesttp<=$err_harvest
M1 Quantity of harvest is too high. Please check.

01 ○ KG
02 ○ TON
03 ○ GRAM
04 ○ BAG (NON-LIQUID)
07 ○ BARIGO

---

| | | |
|---|---|---|
| C3.4bbag. How many KGs does ONE %c3tp_4b% contain? | NUMERIC: DECIMAL | c3tp_4bbag |

E c3tp_4b==4
V1 self>0
M1 This is not possible. KG per ONE BAG must be larger than zero. Please check.
V2 stand_harvesttp<=$err_harvest
M2 Quantity of harvest is too high. Please check.
V3 self<=$err_qtybag
M3 The quantity of KG per BAG is too high. Please check.

---

| | | |
|---|---|---|
| VARIABLE | DOUBLE | stand_harvesttp |

c3tp_4b.InList(1,2,3,7) ? c3tp_4a*WeightConv[(int)c3tp_4b].factor : new[]{c3tp_4a*c3tp_4bbag}.Sum()

---

| C3.5. Was the area harvested less than the area planted? | SINGLE-SELECT | c3tp_5 |
|---|---|---|
| | 01 ○ Yes | |
| I ENUMERATOR: Avez-vous récolté moins que ce que vous esperiez? | 00 ○ No | |

| C3.6. Why was the area harvested less than the area planted? | SINGLE-SELECT | c3tp_6 |
|---|---|---|
| | 001 ○ Drought | |
| I SELECT ONE | 002 ○ Irregular Rains | |
| E c3tp_5==1 | 003 ○ Floods | |
| | 004 ○ Landslides | |
| | 005 ○ Fire | |
| | 006 ○ Insects | |
| | 007 ○ Animals | |
| | 008 ○ Disease | |
| | 009 ○ Theft | |
| | 999 ○ Other, Specify | |

| C3.6oth. Please specify other. | TEXT | c3tp_2oth6 |
|---|---|---|
| E c3tp_6==999 | ............................................................. | |

| C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_tp% during %seasontp%? | SINGLE-SELECT | c3tp_7a |
|---|---|---|
| | 01 ○ January | |
| F @optioncode>=start_agrefperiod_tp.Value.Month \|\| @optioncode<=end_agrefperiod_tp.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add M | 02 ○ February | |
| And 163 other symbols [5] | 03 ○ March | |
| E c3tp_4a>0 | 04 ○ April | |
| | 05 ○ May | |
| | 06 ○ June | |
| | 07 ○ July | |
| | 08 ○ August | |
| | 09 ○ September | |
| | 10 ○ October | |
| | 11 ○ November | |
| | 12 ○ December | |

| C3.7b. In which half of the month %c3tp_7a% did you finish harvesting? | SINGLE-SELECT | c3tp_7b |
|---|---|---|
| | 01 ○ FIRST HALF | |
| E c3tp_4a>0 | 02 ○ SECOND HALF | |

| C3.8. Who in the household makes the decision concerning the use of %rostertitle% harvested from %parcelroster_tp% during %seasontp%? | MULTI-SELECT: LINKED | c3tp_8 |
|---|---|---|
| I Select up to two | | |
| F a1_6a>12 | | |

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP%
## TREE AND PERENNIAL CROP POST-HARVEST AND SALES/DISPOSITION

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / TREE AND PERENNIAL CROP POST-HARVEST AND SALES/DISPOSITION
## Roster: CROP
generated by fixed list                                                        cropdisposition_tp

501  MAIZE

502  RICE (UPLAND)

503  RICE (LOWLAND)

504  SORGHUM

505  MILLET

506  PEANUT

| 507 | SESAME |
| 508 | COW EYED PEA |
| 509 | BISSAP |
| 510 | SWEET POTATO |
| 511 | ORANGE SWEET POTATO |
| 512 | POTATO |
| 513 | TOMATO |
| 514 | ONION |
| 515 | PEPPERS |
| 516 | EGGPLANT |
| 517 | CUCUMBER |
| 518 | CARROT |
| 519 | RADISH |
| 520 | TURNIP |
| 521 | CABBAGE |
| 522 | LEAFY VEGETABLES |
| 523 | PUMPKIN |
| 524 | SQUASH |
| 525 | GREEN BEANS |
| 526 | SOYBEANS |
| 999 | OTHER, SPECIFY |

E `parcelroster_s1.Where(x=>x.c1tps1_2!=null).Any(c=>c.c1tps1_2.Contains(@rowcode)) || parcelroster_s2.Where(x=>x.c1tps2_2!=null).Any(c=>c.c1tps2_2.Contains(@rowcode)) || parcelroster_tp.Where(x=>x.c1tp_` And 44 other symbols [4]

---

STATIC TEXT

*ENUMERATOR: PLEASE CONVEY THE FOLLOWING MESSAGE:*

STATIC TEXT

*According to your answers before, you have harvested a total amount of %std_harvest_crop_tp% KG during %seasontp%.*

*I would like to know about your activities/handling of %rostertitle% after the harvest.*

| VARIABLE | DOUBLE | std_harvest_crop_tp |
|---|---|---|
| `parcelroster_tp.Where(x=>x.c1tp_2!=null && x.c1tp_2.Contains(@rowcode)).Sum(p=>p.plotcrop_tp[@rowcode].stand_harvesttp) + parcelroster_s1.Where(x=>x.c1tps1_2!=null && x.c1tps1_2.Contains(@rowcode))`<br><br>And 186 other symbols [1] | | |

| C4.1a. How much of the %rostertitle% harvested during %seasontp% was lost to rotting, insects, rodents, theft, etc in the post-harvest period?<br><br>I QUANTITY | NUMERIC: INTEGER | c4tp_1a |
|---|---|---|
| | -------------------------------- | |

| C4.1b. UNIT<br><br>E `c4tp_1a>0 && c4tp_1a!=888`<br>V1 `std_harvest_crop_tp>=(c4tp_1b.InList(1,2,3,7) ? c4tp_1a*WeightConv[(int)c4tp_1b].factor : (int)0)`<br>M1 Not possible that loss is larger than the total harvest! | SINGLE-SELECT | c4tp_1b |
|---|---|---|
| | 01 ○ KG<br>02 ○ TON<br>03 ○ GRAM<br>04 ○ BAG (NON-LIQUID)<br>07 ○ BARIGO | |

| | |
|---|---|
| C4.1bbag. How many KGs does ONE %c4tp_1b% contain? | NUMERIC: DECIMAL        c4tp_1bbag |

E   `c4tp_1b==4`
V1   `self>0`
M1   This is not possible. KG per ONE BAG must be larger than zero. Please check.
V2   `self<=$err_qtybag`
M2   The quantity of KG per BAG is too high. Please check.
V3   `std_harvest_crop_tp>=c4tp_1a*c4tp_1bbag`

---

| VARIABLE | DOUBLE      croploss_tp |
|---|---|
| `c4tp_1b.InList(1,2,3) ? c4tp_1a*WeightConv[(int)c4tp_1b].factor : c4tp_1a*c4tp_1bbag` | |

---

| VARIABLE | DOUBLE      qty_dispo_tp |
|---|---|
| `std_harvest_crop_tp-(new[]{croploss_tp}.Sum())` | |

---

| C4.2. What was the reason for loss in the post-harvest period? | MULTI-SELECT      c4tp_2 |
|---|---|

I   Select up to two
E   `c4tp_1a>0`

001 ☐ ROTTING
002 ☐ INSECTS
003 ☐ ANIMAL DAMAGE
004 ☐ FLOOD / WATERLOGGING
005 ☐ THEFT
999 ☐ OTHER

---

| Please specify other. | TEXT      c4tp_2oth |
|---|---|

E   `c4tp_2.Contains(999)`

---

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / TREE AND PERENNIAL CROP POST-HARVEST AND SALES/DISPOSITION / CROP

## CROP USES %SEASONTP%

E   `qty_dispo_tp!=0`

---

STATIC TEXT

*QUANTITY OF HARVEST AFTER POST-HARVEST LOSS IN %seasontp%: %qty_dispo_tp% KG.*

---

| C4.3a. Of the total harvest of %rostertitle% , in the %seasontp% how much was dedicated to USED FOR HOME CONSUMPTION ? | NUMERIC: DECIMAL      c4tp_3a |
|---|---|

I   QUANTITY

SPECIAL VALUES
00 NONE

---

| C4.3b. UNIT | SINGLE-SELECT      c4tp_3b |
|---|---|

E   `c4tp_3a>0 && c4tp_3a!=888`
V1   `qty_dispo_tp>=(c4tp_3b.InList(1,2,3,7) ? c4tp_3a*WeightConv[(int)c4tp_3b].factor : (int)0)`
M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%]

01 ○ KG
02 ○ TON
03 ○ GRAM
04 ○ BAG (NON-LIQUID)
07 ○ BARIGO

| | |
|---|---|
| **C4.3bbag. How many KGs does <u>ONE %c4tp_3b%</u> contain?** | NUMERIC: DECIMAL        c4tp_3bbag |
| E   `c4tp_3b==4` | |
| V1 `qty_dispo_tp>=c4tp_3a*c4tp_3bbag` | ----------------------------- |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | |
| V2 `self>0` | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V3 `self<=$err_qtybag` | |
| M3 The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br><br>`c4tp_3b.InList(1,2,3,7) ? c4tp_3a*WeightConv[(int)c4tp_3b].factor : c4tp_3a*c4tp_3bbag` | DOUBLE        standuse_hometp |

| | |
|---|---|
| **C4.4a. Of the total harvest of %rostertitle% , in the %seasontp% how much was dedicated to <u>SALES/USED TO SELL</u>?** | NUMERIC: DECIMAL        c4tp_4a |
| I   QUANTITY | ----------------------------- |
| E   `IsAnswered(c4tp_3a)` | SPECIAL VALUES<br>00   NONE |

| | |
|---|---|
| **C4.4b. UNIT** | SINGLE-SELECT        c4tp_4b |
| E   `c4tp_4a>0 && c4tp_4a!=888` | 01 ◯ KG |
| V1 `qty_dispo_tp>=(c4tp_4b.InList(1,2,3) ? c4tp_4a*WeightConv[(int)c4tp_4b].factor : 0)` | 02 ◯ TON<br>03 ◯ GRAM |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | 04 ◯ BAG<br>07 ◯ BARIGO |

| | |
|---|---|
| **C4.4bbag. How many KGs does <u>ONE %c4tp_4b%</u> contain?** | NUMERIC: DECIMAL        c4tp_4bbag |
| E   `c4tp_4b==4` | |
| V1 `qty_dispo_tp>=c4tp_4a*c4tp_4bbag` | ----------------------------- |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | |
| V2 `self>0` | |
| M2 This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V3 `self<=$err_qtybag` | |
| M3 The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br><br>`c4tp_4b.InList(1,2,3,7) ? c4tp_4a*WeightConv[(int)c4tp_4b].factor : c4tp_4a*c4tp_4bbag` | DOUBLE        standuse_salestp |

| | |
|---|---|
| **C4.5a. Of the total harvest of %rostertitle% , in the %seasontp% how much was dedicated to <u>USED FOR ANIMAL FEED</u>?** | NUMERIC: DECIMAL        c4tp_5a |
| I   QUANTITY | ----------------------------- |
| E   `qty_dispo_tp>new[]{standuse_hometp, standuse_salestp}.Sum() && IsAnswered(c4tp_4a)` | SPECIAL VALUES<br>00   NONE |

| | |
|---|---|
| **C4.5b. UNIT** | SINGLE-SELECT        c4tp_5b |
| E   `c4tp_5a>0 && c4tp_5a!=888` | 01 ◯ KG |
| V1 `qty_dispo_tp>=(c4tp_5b.InList(1,2,3) ? c4tp_5a*WeightConv[(int)c4tp_5b].factor : 0)` | 02 ◯ TON<br>03 ◯ GRAM |
| M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | 04 ◯ BAG<br>07 ◯ BARIGO |

| | |
|---|---|
| **C4.5bbag.** How many KGs does <u>ONE %c4tp_5b%</u> contain? | NUMERIC: DECIMAL        c4tp_5bbag |
| E    `c4tp_5b==4` | ------------------------------------ |
| V1   `qty_dispo_tp>=c4tp_5a*c4tp_5bbag` | |
| M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | |
| V2   `self>0` | |
| M2   This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V3   `self<=$err_qtybag` | |
| M3   The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br><br>`c4tp_5b.InList(1,2,3,7) ? c4tp_5a*WeightConv[(int)c4tp_5b].factor : c4tp_5a*c4tp_5bbag` | DOUBLE        standuse_feedtp |

| | |
|---|---|
| **C4.6a.** Of the total harvest of %rostertitle% , in the %seasontp% how much was dedicated to <u>SAVED FOR SEEDS</u> ? | NUMERIC: DECIMAL        c4tp_6a |
| I    QUANTITY | ------------------------------------ |
| E    `qty_dispo_tp>new[]{standuse_hometp, standuse_salestp, standuse_feedtp}.Sum() && IsAnswered(c4tp_5a)` | SPECIAL VALUES<br>00   NONE |

| | |
|---|---|
| **C4.6b.** UNIT | SINGLE-SELECT        c4tp_6b |
| E    `c4tp_6a>0 && c4tp_6a!=888` | 01   ○   KG |
| V1   `qty_dispo_tp>=(c4tp_6b.InList(1,2,3) ? c4tp_6a*WeightConv[(int)c4tp_6b].factor : 0)` | 02   ○   TON |
| M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | 03   ○   GRAM |
| | 04   ○   BAG |
| | 07   ○   BARIGO |

| | |
|---|---|
| **C4.6bbag.** How many KGs does <u>ONE %c4tp_6b%</u> contain? | NUMERIC: DECIMAL        c4tp_6bbag |
| E    `c4tp_6b==4` | ------------------------------------ |
| V1   `qty_dispo_tp>=c4tp_6a*c4tp_6bbag` | |
| M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | |
| V2   `self>0` | |
| M2   This is not possible. KG per ONE BAG must be larger than zero. Please check. | |
| V3   `self<=$err_qtybag` | |
| M3   The quantity of KG per BAG is too high. Please check. | |

| | |
|---|---|
| VARIABLE<br><br>`c4tp_6b.InList(1,2,3,7) ? c4tp_6a*WeightConv[(int)c4tp_6b].factor : c4tp_6a*c4tp_6bbag` | DOUBLE        standuse_seedtp |

| | |
|---|---|
| **C4.7a.** Of the total harvest of %rostertitle% , in the %seasontp% how much was dedicated to <u>ANY OTHER ACTIVITY</u> ? | NUMERIC: DECIMAL        c4tp_7a |
| I    QUANTITY | ------------------------------------ |
| E    `qty_dispo_tp>new[]{standuse_hometp, standuse_salestp, standuse_feedtp, standuse_seedtp}.Sum() && IsAnswered(c4tp_6a)` | SPECIAL VALUES<br>00   NONE |

| | |
|---|---|
| **C4.7b.** UNIT | SINGLE-SELECT        c4tp_7b |
| E    `c4tp_7a>0 && c4tp_7a!=888` | 01   ○   KG |
| V1   `qty_dispo_tp>=(c4tp_7b.InList(1,2,3) ? c4tp_7a*WeightConv[(int)c4tp_7b].factor : 0)` | 02   ○   TON |
| M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%] | 03   ○   GRAM |
| | 04   ○   BAG |
| | 07   ○   BARIGO |

| C4.7bbag. How many KGs does ONE %c4tp_7b% contain? | NUMERIC: DECIMAL c4tp_7bbag |
|---|---|

E `c4tp_7b==4`
V1 `qty_dispo_tp>=c4tp_7a*c4tp_7bbag`
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%]
V2 `self>0`
M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.
V3 `self<=$err_qtybag`
M3 The quantity of KG per BAG is too high. Please check.

| VARIABLE | DOUBLE standuse_othtp |
|---|---|

`c4tp_7b.InList(1,2,3,7) ? c4tp_7a*WeightConv[(int)c4tp_7b].factor : c4tp_7a*c4tp_7bbag`

| VARIABLE | DOUBLE sum_usetp |
|---|---|

`new[]{standuse_hometp,standuse_salestp,standuse_feedtp,standuse_seedtp,standuse_othtp}.Sum()`

STATIC TEXT

E `IsAnswered(c4tp_3a) && qty_dispo_tp<sum_usetp`
V1 `qty_dispo_tp>=sum_usetp`

*THE TOTAL SUM OF USE IS LARGER THAN THE TOTAL AMOUNT OF %rostertitle% AVAILABLE DURING %seasontp%*

*TOTAL QUANTITY AFTER HARVEST AND LOSSES: %qty_dispo_tp% KG.*

*TOTAL SUM OF USE: %sum_usetp% KG*

*PLEASE CHECK HARVEST OR THIS USE SECTION.*

STATIC TEXT

E `IsAnswered(c4tp_7a) && !sum_usetp.InRange((0.95*qty_dispo_tp),qty_dispo_tp)`
V1 `false`

*ATTENTION!*
*THE TOTAL QUANTITY OF %rostertitle% USES IS SIGNIFICANTLY LOWER THAN THE TOTAL QUANTITY AVAILABLE AFTER HARVEST IN %seasontp%.*

*QUANTITY AVAILABLE AFTER HARVEST AND LOSSES: %qty_dispo_tp%*
*CURRENT AMOUNT OF USES: %sum_usetp%*
*PLEASE CHECK AND CORRECT.*

STATIC TEXT

*THE TOTAL SUM OF USE OF %rostertitle% HARVESTED DURING %seasontp%: %sum_usetp% KG.*

| C4.8. What is your main method of storage for this UNPROCESSED %rostertitle% during %seasontp%? | SINGLE-SELECT c4tp_8 |
|---|---|
| | 001 ◯ Unprotected pile |
| | 002 ◯ Metallic Silo |
| | 003 ◯ Heaped in house |
| | 004 ◯ Bags in house |
| | 005 ◯ Traditional Granary |
| | 006 ◯ Improved Granary |
| | 999 ◯ OTHER |

| C4.8oth. Please specify other. | TEXT c4tp_8oth |
|---|---|

E `c4tp_8==999`

| C4.8a. Who owns this storage facility? | SINGLE-SELECT | c4tp_8a |
|---|---|---|

**C4.8a. Who owns this storage facility?**

E  `c4tp_8 == 1 || c4tp_8 == 2 || c4tp_8 == 5 || c4tp_8 == 6 || c4tp_8 == 999`

SINGLE-SELECT      c4tp_8a

- 001 ○ Self
- 002 ○ Community/village
- 003 ○ Provided by PAFA
- 004 ○ Provided by another program
- 005 ○ My PO
- 999 ○ Other, specify

---

**C4.8aoth. Please specify other.**

E  `c4tp_8a==999`

TEXT      c4tp_8aoth

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

---

**C4.9. Did you do anything to protect the stored %rostertitle% during %seasontp%?**

V1  `!self.Contains(4) || self.ContainsOnly(4)`

M1  These answers exclude each other. Please check

MULTI-SELECT      c4tp_9

- 001 ☐ Spraying
- 002 ☐ Smoking
- 003 ☐ Hired Guard
- 004 ☐ Did nothing
- 999 ☐ OTHER

---

**C4.9oth. Please specify**

E  `c4tp_9.Contains(999)`

TEXT      c4tp_9oth

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

---

**C4.10. What is usually the main purpose for storing this %rostertitle% during %seasontp%?**

SINGLE-SELECT      c4tp_10

- 001 ○ Food for household
- 002 ○ Wait to sell at a higher price
- 003 ○ Seed for planting
- 004 ○ In-kind Payments
- 005 ○ Wait for the arrival of buyer
- 999 ○ OTHER

---

**C4.10oth. Please specify**

E  `c4tp_10==999`

TEXT      c4tp_10oth

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

---

**C4.11a. How much of %rostertitle% do you have currently stored?**

I  QUANTITY

NUMERIC: DECIMAL      c4tp_11a

----------------------------------

---

**C4.11b. UNIT**

E  `c4tp_11a>0 && c4tp_11a!=888`

V1  `qty_dispo_tp>=(c4tp_11b.InList(1,2,3) ? c4tp_11a*WeightConv[(int)c4tp_11b].factor : 0)`

M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%]

SINGLE-SELECT      c4tp_11b

- 01 ○ KG
- 02 ○ TON
- 03 ○ GRAM
- 04 ○ BAG
- 07 ○ BARIGO

---

**C4.11bbag. How many KGs does ONE %c4tp_11b% contain?**

E  `c4tp_11b==4`

V1  `qty_dispo_tp>=c4tp_11a*c4tp_11bbag`

M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%]

V2  `self>0`

M2  This is not possible. KG per ONE BAG must be larger than zero. Please check.

V3  `self<=$err_qtybag`

M3  The quantity of KG per BAG is too high. Please check.

NUMERIC: DECIMAL      c4tp_11bbag

----------------------------------

---

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / TREE AND PERENNIAL CROP POST-HARVEST AND SALES/DISPOSITION / CROP

# SALES %ROSTERTITLE%

E  c4tp_4a>0

---

STATIC TEXT

*According to your answer given before, you stated to have sold %c4tp_4a% %c4tp_4b%'s of %rostertitle% during %seasontp%.*

| | |
|---|---|
| C5.1. What was the total value of all sales (In %lcu%) of this unprocessed %rostertitle% harvested during %seasontp%? | NUMERIC: INTEGER c5tp_1 |

I  Value in CFA
V1 self>0
M1 Respondent said to have sold %rostertitle%. Value must be larger than 0.
V2 self<$err_lcu_val
M2 This is too high. Please check.
V3 self<$warn_lcu_val
M3 This seems very high. Please check.

| | |
|---|---|
| C5.2. Who in your household kept / decided what to do with these earnings? | MULTI-SELECT: LINKED c5tp_2 |

I  Select up to two

| | |
|---|---|
| C5.3. To how many buyers/outlets did you sell your unprocessed %rostertitle% during %seasontp%? | NUMERIC: INTEGER c5tp_3 |

V1 self>0
M1 Zero transactions seems unlikely. Please check.

---

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / TREE AND PERENNIAL CROP POST-HARVEST AND SALES/DISPOSITION / CROP / SALES %ROSTERTITLE%

# SALES IN LARGEST TRANSACTION

E  c5tp_3>0

| | |
|---|---|
| C5.3a. How much of the %rostertitle% harvested during %seasontp% was sold in the largest transaction? | NUMERIC: DECIMAL c5tp_4a |

I  QUANTITY

| | |
|---|---|
| C5.4b. UNIT | SINGLE-SELECT c5tp_4b |

E  c5tp_4a>0 && c5tp_4a!=888
V1 qty_dispo_tp>=(c5tp_4b.InList(1,2,3) ? c5tp_4a*WeightConv[(int)c5tp_4b].factor : 0)
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST AFTER LOSSES IS: %qty_dispo_tp%]

01 ◯ KG
02 ◯ TON
03 ◯ GRAM
04 ◯ BAG
07 ◯ BARIGO

| | |
|---|---|
| C5.4bbag. How many KGs does ONE %c5tp_4b% contain? | NUMERIC: DECIMAL c5tp_4bbag |

E  c5tp_4b==4
V1 qty_dispo_tp>=c5tp_4a*c5tp_4bbag
M1 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%]
V2 self>0
M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.
V3 self<=$err_qtybag
M3 The quantity of KG per BAG is too high. Please check.

| C5.4c. Was this sale made individually or with the OP? | SINGLE-SELECT | c5tp_4c |
|---|---|---|

E c5tp_4a>0

01 ◯ INDIVIDUALLY
00 ◯ WITH THE OP

---

C5.5. What type of buyer made the purchase in the largest transaction of %rostertitle% harvested during %seasontp%?

SINGLE-SELECT      c5tp_5

000 ◯ MY OP
001 ◯ OTHER HOUSEHOLDS FOR THEIR OWN USE
002 ◯ SMALL-SCALE TRADER
003 ◯ LARGE-SCALE TRADER / WHOLESALER
004 ◯ MILLER / PROCESSOR
005 ◯ DIRECT RETAILER
006 ◯ RESTAURANT
007 ◯ INSTITUTION (CHURCH, HOSPITAL, SCHOOL, OTHER)
008 ◯ NGO
009 ◯ GOVERNMENT AGENCY
010 ◯ PAFA MARKET OPERATOR
011 ◯ OTHER MARKET OPERATOR
999 ◯ OTHER

---

C5.5oth. Please specify other.

TEXT      c5tp_5oth

E c5tp_5==999

---

VARIABLE

c5tp_4b.InList(1,2,3,7) ? c5tp_4a*WeightConv[(int)c5tp_4b].factor : c5tp_4a*c5tp_4bbag

DOUBLE      stand_largbuyertp

---

C5.6. Where did the largest transaction of %rostertitle% harvested during %seasontp% take place?

SINGLE-SELECT      c5tp_6

001 ◯ FARM GATE (HOME)
002 ◯ VILLAGE MARKET (WITHIN OWN VILLAGE)
003 ◯ VILLAGE MARKET (OUTSIDE OWN VILLAGE)
004 ◯ TOWN MARKET
999 ◯ OTHER

---

C5.6oth. Please specify other.

TEXT      c5tp_6oth

E c5tp_6==999

---

C5.7. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %seasontp%? IN HOURS

NUMERIC: INTEGER      c5tp_7

I IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE And 21 other symbols [6]

V1 self<72

M1 This number of hours seems unlikely. Please check.

---

C5.7a. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %seasontp%? IN MINUTES

NUMERIC: INTEGER      c5tp_7a

I IN MINUTES

| C5.8. What was the main mode of transport used for the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %seasontp%? | SINGLE-SELECT | c5tp_8 |
| | 001 ◯ ON FOOT | |
| | 002 ◯ BICYCLE | |
| | 008 ◯ MOTO | |
| | 003 ◯ ANIMAL DRAWN CART | |
| | 004 ◯ TAXI / BUS | |
| | 005 ◯ LORRY / TRUCK | |
| | 006 ◯ TRAIN | |
| | 007 ◯ BOAT | |
| | 999 ◯ OTHER | |

| C5.8oth. Please specify other. | TEXT | c5tp_8oth |
| E  c5tp_8==999 | | |
| | ............................................................................ | |

| C5.9. What was the total value (In %lcu%) of the largest transaction of %rostertitle% harvested during %seasontp%? | NUMERIC: INTEGER | c5tp_9 |
| I  Value in %lcu% VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED | | |
| V1  self<=c5tp_1 | | |
| M1  Value of sales to largest buyer of %rostertitle% can not be larger than the value of total sales during %seasontp%. Please check. | | |
| V2  self>0 | | |
| M2  Value of sales to largest buyer must be larger than 0. Please check. | | |

| C5.10. How many months was it before the household received payment in full for the largest transaction of %rostertitle% harvested during %seasontp%? | NUMERIC: INTEGER | c5tp_10 |
| | | |
| | SPECIAL VALUES | |
| | 00  WITHIN ONE MONTH | |
| | 88  HAVE NOT YET BEEN PAID | |
| | 89  PAYMENT RECEIVED PRIOR TO CROP DELIVERY | |

[C-TP]. TREES/ PERENNIAL PRODUCTION BETWEEN %SEASONTP% / TREE AND PERENNIAL CROP POST-HARVEST AND SALES/DISPOSITION / CROP / SALES %ROSTERTITLE%

## SALES IN SECOND LARGEST TRANSACTION

E  c5tp_3>1

| C5.11a. How much of the %rostertitle% harvested during %seasontp% was sold in the second largest transaction? | NUMERIC: DECIMAL | c5tp_11a |
| I  QUANTITY | | |

| C5.11b. UNIT | SINGLE-SELECT | c5tp_11b |
| E  c5tp_11a>0 && c5tp_11a!=888 | 01 ◯ KG | |
| V1  qty_dispo_tp>=(c5tp_11b.InList(1,2,3) ? c5tp_11a*WeightConv[(int)c5tp_11b].factor : 0) | 02 ◯ TON | |
| | 03 ◯ GRAM | |
| M1  QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST AFTER LOSSES IS: %qty_dispo_tp%] | 04 ◯ BAG | |
| V2  stand_seclargbuyertp<=stand_largbuyertp | 07 ◯ BARIGO | |
| M2  QUANTITY OF SALES TO SECOND LARGEST BUYER MUST BE SMALLER THAN THE QUANTITY SOLD TO THE LARGEST BUYER. | | |

| | |
|---|---|
| **C5.11bbag.** How many KGs does <u>ONE</u> %c5tp_11b% contain? | NUMERIC: DECIMAL                    c5tp_11bbag |

E    `c5tp_11b==4`

V1   `qty_dispo_tp>=c5tp_11a*c5tp_11bbag`

M1   QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST DURING %seasontp%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %qty_dispo_tp%]

V2   `self>0`

M2   This is not possible. KG per ONE BAG must be larger than zero. Please check.

V3   `self<=$err_qtybag`

M3   The quantity of KG per BAG is too high. Please check.

---

| | |
|---|---|
| **C5.12.** What type of buyer made the purchase in the largest transaction of %rostertitle% harvested during %seasontp%? | SINGLE-SELECT                              c5tp_12 |

000 ◯ MY OP
001 ◯ OTHER HOUSEHOLDS FOR THEIR OWN USE
002 ◯ SMALL-SCALE TRADER
003 ◯ LARGE-SCALE TRADER / WHOLESALER
004 ◯ MILLER / PROCESSOR
005 ◯ DIRECT RETAILER
006 ◯ RESTAURANT
007 ◯ INSTITUTION (CHURCH, HOSPITAL, SCHOOL, OTHER)
008 ◯ NGO
009 ◯ GOVERNMENT AGENCY
010 ◯ PAFA MARKET OPERATOR
011 ◯ OTHER MARKET OPERATOR
999 ◯ OTHER

---

| | |
|---|---|
| **C5.12oth.** Please specify other. | TEXT                                      c5tp_12oth |

E    `c5tp_12==999`

---

| | |
|---|---|
| VARIABLE<br>`c5tp_11b.InList(1,2,3,7) ? c5tp_11a*WeightConv[(int)c5tp_11b].factor : c5tp_11a*c5tp_11bbag` | DOUBLE                          stand_seclargbuyertp |

---

| | |
|---|---|
| **C5.13.** Where did the second largest transaction of %rostertitle% harvested during %seasontp% take place? | SINGLE-SELECT                              c5tp_13 |

001 ◯ FARM GATE (HOME)
002 ◯ VILLAGE MARKET (WITHIN OWN VILLAGE)
003 ◯ VILLAGE MARKET (OUTSIDE OWN VILLAGE)
004 ◯ TOWN MARKET
999 ◯ OTHER

---

| | |
|---|---|
| **C5.13oth.** Please specify other. | TEXT                                      c5tp_13oth |

E    `c5tp_13==999`

---

| | |
|---|---|
| **C5.14.** How long did it take to transport all of the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %seasontp%? | NUMERIC: DECIMAL                           c5tp_14 |

I    IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE And 21 other symbols [7]

V1   `self<72`

M1   This number of hours seems unlikely. Please check.

| C5.15. What was the main mode of transport used for the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %seasontp%? | SINGLE-SELECT                    c5tp_15 |
| --- | --- |
| | 001 ◯ ON FOOT |
| | 002 ◯ BICYCLE |
| | 008 ◯ MOTO |
| | 003 ◯ ANIMAL DRAWN CART |
| | 004 ◯ TAXI / BUS |
| | 005 ◯ LORRY / TRUCK |
| | 006 ◯ TRAIN |
| | 007 ◯ BOAT |
| | 999 ◯ OTHER |

| C5.15oth. Please specify other.<br><br>E `c5tp_15==999` | TEXT                    c5tp_15oth<br><br>·························································· |
| --- | --- |

| C5.16. What was the total value (In %lcu%) of the second largest transaction of %rostertitle% harvested during %seasontp%?<br><br>I Value in %lcu% VALUE OF IN-KIND TRANSACTIONS SHOULD BE ESTIMATED<br>V1 `self<=c5tp_1`<br>M1 Value of sales to second largest buyer of %rostertitle% can not be larger than the value of total sales during %seasontp%. Please check.<br>V2 `self>0`<br>M2 Value of sales to second largest buyer must be larger than 0. Please check. | NUMERIC: INTEGER                    c5tp_16<br><br>– – – – – – – – – – – – – – – – – – – – – – – – – – – · |
| --- | --- |

| C5.17. How many months was it before the household received payment in full for the second largest transaction of %rostertitle% harvested during %seasontp%? | NUMERIC: INTEGER                    c5tp_17<br><br>– – – – – – – – – – – – – – – – – – – – – – – – – – – ·<br><br>SPECIAL VALUES<br>00  WITHIN ONE MONTH<br>88  HAVE NOT YET BEEN PAID<br>89  PAYMENT RECEIVED PRIOR TO CROP DELIVERY |
| --- | --- |

# [C-HG] HOME GARDEN PRODUCTION BETWEEN %AG_REFPERIOD%

E `consent==1 && parcelroster.Any(p=>p.b2_2a.Yes.Contains(4))`

STATIC TEXT

*Now I would like to talk with you about all your homegardens that you cultivated between %ag_refperiod%.*

[C-HG] HOME GARDEN PRODUCTION BETWEEN %AG_REFPERIOD%
## Roster: HOMEGARDEN ON PARCEL
generated by numeric question b1_1                                   parcelroster_hg

E `b2_2a.Yes.Contains(4)`

| CHG.1. Who in the household makes the decisions concerning crops to be planted, input use and the timing of cropping activities on this homegarden %rostertitle% between %ag_refperiod%?<br><br>I Select up to two<br>F `a1_6a>12` | MULTI-SELECT: LINKED                    chg_1 |
| --- | --- |

| CHG.2. During %ag_refperiod%, was homegarden %rostertitle% irrigated? | SINGLE-SELECT                    chg_2 |
| --- | --- |
| | 01 ◯ YES |
| | 00 ◯ NO |

| | |
|---|---|
| CHG.3. Which crops were planted on this homegarden %rostertitle% between %ag_refperiod%? | MULTI-SELECT  chg_3 <br> 527 ☐ WATERMELON <br> 528 ☐ BANANA <br> 529 ☐ PLANTAIN <br> 530 ☐ MANGO <br> 531 ☐ PINNEAPLE <br> 532 ☐ PAPAYA <br> 533 ☐ GUYAVA <br> 534 ☐ ORANGE <br> 535 ☐ LEMON <br> 536 ☐ LIME <br> 537 ☐ APPLE <br> 538 ☐ COCONUT <br> 539 ☐ POMEGRANADE <br> 540 ☐ TANGERINE <br> 541 ☐ CHERRY <br> 542 ☐ MADD/JUJUBE/SOUMP <br><br> And 31 other symbols [13] |
| CHG.3oth. Please specify other. <br><br> E `chg_3.Contains(999)` | TEXT  chg_3oth <br> ............................................................................. |
| CHG.4.Did you use any organic fertilizer on this homegarden %rostertitle% between %ag_refperiod%? | SINGLE-SELECT  chg_4 <br> 01 ⚪ YES <br> 00 ⚪ NO |
| CHG.5. What type of organic fertiliser were used in this homegarden %rostertitle%? <br><br> E `chg_4==1` | MULTI-SELECT  chg_5 <br> 001 ☐ ANIMAL MANURE (FERMENTED) <br> 002 ☐ FRESH/GREEN MANURE (NON FERMENTED MANURE) <br> 003 ☐ COMPOST <br> 999 ☐ OTHER (SPECIFY) |
| CHG.5oth. Please specify other. <br><br> E `chg_5.Contains(999)` | TEXT  chg_5oth <br> ............................................................................. |
| CHG.6. How many times did you apply ORGANIC FERTILISER on %rostertitle% between %ag_refperiod%? <br><br> E `chg_4==1` <br> V1 `self>0` <br> M1 Respondent stated to have used %rostertitle% between %ag_refperiod%. Therefore must be larger than zero. <br> V2 `self.InRange(1,90)` <br> M2 This seems unlikely. Please check. | NUMERIC: INTEGER  chg_6 <br> – – – – – – – – – – – – – – – – – – – – – – – – |

STATIC TEXT

*Now I would like to ask you about inorganic fertilizers that you used between %ag_refperiod% on this homegarden.*

| | |
|---|---|
| CHG.7. Did you use any inorganic fertilizer on this homegarden %rostertitle% between %ag_refperiod%? | SINGLE-SELECT  chg_7 <br> 01 ⚪ YES <br> 00 ⚪ NO |

| CHG.8. What type of inorganic fertiliser was used in this homegarden %rostertitle%? | MULTI-SELECT | chg_8 |
|---|---|---|

E `chg_7==1`

MULTI-SELECT          chg_8

- 001 ☐ DI AMMONIUM PHOSPHATE (DAP)
- 002 ☐ FOLIAR
- 003 ☐ UREA
- 004 ☐ AMMONIUM SULPHATE
- 005 ☐ CALCIUM AMMONIUM NITRATE
- 006 ☐ TRIPLE SUPER PHOSPHATE
- 007 ☐ Mono Ammonum Phosphat (MAP)
- 008 ☐ CALCIUM NITRATE
- 009 ☐ POTASSIUM NITRATE
- 010 ☐ NPK 15:30:15
- 011 ☐ NPK 15:15:30
- 012 ☐ NPK 20:20:20
- 013 ☐ NPK 12:6:36
- 014 ☐ NPK 12:1:43..14 CALBORON
- 015 ☐ METAPHASE
- 016 ☐ NEUTROLEAF

And 1 other symbols [14]

---

**CHG.8oth. Please specify**

E `chg_8.Contains(999)`

TEXT     chg_8oth

---

**CHG.9. How many times did you apply INORGANIC FERTILISER on %parcelroster_hg% between %ag_refperiod%?**

E `chg_7==1`
V1 `self>0`
M1 Respondent stated to have used %rostertitle% between %ag_refperiod%. Therefore must be larger than zero.
V2 `self.InRange(1,90)`
M2 This seems unlikely. Please check.

NUMERIC: INTEGER     chg_9

---

**CHG.10. Did you apply any type of pesticide (chemical or biological) on this homegarden %rostertitle% between %ag_refperiod%?**

SINGLE-SELECT     chg_10

- 01 ○ YES
- 00 ○ NO

---

**CHG.11. What types of pesticide were used on %rostertitle% between %ag_refperiod%?**

E `chg_10==1`

MULTI-SELECT     chg_11

- 001 ☐ CONFIDOR
- 002 ☐ DELORO
- 003 ☐ KARATE
- 004 ☐ TRICHO
- 005 ☐ ACTARA
- 006 ☐ MOSIBAR
- 007 ☐ MORINTO
- 008 ☐ SPINOSAD
- 009 ☐ TRIMEC
- 010 ☐ TOPSIN
- 011 ☐ TACHARGIM
- 012 ☐ PREVICUR
- 013 ☐ SERTMICE
- 014 ☐ ACORICIDE
- 999 ☐ OTHER

---

**CHG_11oth. Please specify**

E `chg_11.Contains(999)`

TEXT     chg_11oth

| CHG.12. How many times did you apply PESTICIDES on plot %rostertitle% between %ag_refperiod%? | NUMERIC: INTEGER | chg_12 |
|---|---|---|
| | _____ . | |

E chg_10==1
V1 self>0
M1 Respondent stated to have applied %rostertitle%. Number of times must be larger than zero.

| CHG.13. How many days of Family/Exchange/Free labor were worked on this homegarden %rostertitle% between %ag_refperiod%? | NUMERIC: INTEGER | chg_13 |
|---|---|---|
| | _____ . | |

V1 self.InRange(1,365)
M1 This seems unlikely. Please check.

<br>

[C-HG] HOME GARDEN PRODUCTION BETWEEN %AG_REFPERIOD% / HOMEGARDEN ON PARCEL
## Roster: CROPS HARVESTED FROM THIS HOMEGARDEN
generated by multi-select question chg_3

plotcrop1_hg

| CHG.14. How much of %rostertitle% did you harvest from %parcelroster_hg% between %ag_refperiod%? | NUMERIC: INTEGER | chg_14a |
|---|---|---|
| | _____ . | |

I QUANTITY

| CHG.14b. UNIT OF HARVEST | SINGLE-SELECT | chg_14b |
|---|---|---|
| | 01 ◯ KG <br> 02 ◯ TON <br> 03 ◯ GRAM <br> 04 ◯ BAG (NON-LIQUID) <br> 07 ◯ BARIGO | |

I UNIT
E chg_14a>0 && chg_14a!=888

| CHG.14bbag. How many KGs does ONE %chg_14b% contain? | NUMERIC: DECIMAL | chg_14bbag |
|---|---|---|
| | _____ . | |

E chg_14b==4
V1 self<=$err_qtybag
M1 The quantity of KG per BAG is too high. Please check.
V2 self>0
M2 This is not possible. KG per ONE BAG must be larger than zero. Please check.

| VARIABLE <br> chg_14b.InList(1,2,3,7) ? chg_14a*WeightConv[(int)chg_14b].factor : chg_14a*chg_14bbag | DOUBLE | stand_harvesthg1 |
|---|---|---|

| CHG.15. Did you sell any of the crops that you have harvested from any of your homegarden's during %ag_refperiod%? | SINGLE-SELECT | chg_15 |
|---|---|---|
| | 01 ◯ Yes <br> 00 ◯ No | |

| CHG.16. Which of the following crops that you harvested between %ag_refperiod% from your homegarden's did you sell? | MULTI-SELECT | chg_16 |
|---|---|---|

E `parcelroster.Where(t=>t.b2_1a.Yes.Contains(0)).Any(x=>x.b2_2a.Yes.Contains(4))`

- 100 ☐ CASSAVA
- 199 ☐ OTHER PERENNIAL TUBER / VEGETABLE, SPECIFY
- 200 ☐ COFFEE
- 201 ☐ TEA
- 202 ☐ RUBBER
- 299 ☐ OTHER PERENNIAL NON-FOOD CASH CROP, SPECIFY
- 300 ☐ BANANA
- 301 ☐ PLANTAIN
- 302 ☐ MANGO
- 303 ☐ PINEAPPLE
- 304 ☐ JACK FRUIT
- 305 ☐ PAPAYA
- 306 ☐ GUAVA
- 307 ☐ ORANGE
- 308 ☐ LEMON
- 309 ☐ LIME

And 54 other symbols [12]

---

[C-HG] HOME GARDEN PRODUCTION BETWEEN %AG_REFPERIOD%

## Roster: HOME GARDEN CROPS DISPOSITION

generated by multi-select question chg_16

cropdisposition_hg

| VARIABLE | DOUBLE | stand_harvestcrophg |
|---|---|---|

`parcelroster_hg.Where(x=>x.chg_3!=null && x.chg_3.Contains(@rowcode)).Sum(p=>p.plotcrop1_hg[@rowcode].stand_harvesthg1)`

---

| CHG.17a. How much of %rostertitle% harvested from your homegarden's was sold? | NUMERIC: INTEGER | chg_17a |
|---|---|---|

I QUANTITY OF SALES

---

| CHG.17. UNIT OF SALES | SINGLE-SELECT | chg_17b |
|---|---|---|

I UNIT
E `chg_17a>0 && chg_17a!=888`
V1 `stand_harvestcrophg>=(chg_17b.InList(1,2,3) ? chg_17a*WeightConv[(int)chg_17b].factor : (int)0)`
M1 QUANTITY OF SALES CAN NOT BE LARGER THAN TOTAL HARVEST between %ag_refperiod%. PLEASE CHECK [ENUMERATOR: TOTAL HARVEST IS: %stand_harvestcrophg%]

- 01 ○ KG
- 02 ○ TON
- 03 ○ GRAM
- 04 ○ BAG (NON-LIQUID)
- 07 ○ BARIGO

---

| CHG.17bbag. How many KGs does ONE %chg_17b% contain? | NUMERIC: DECIMAL | chg_17bbag |
|---|---|---|

E `chg_17b==4`
V1 `self<=$err_qtybag`
M1 The quantity of KG per BAG is too high. Please check.
V2 `stand_harvestcrophg>=chg_17a*chg_17bbag`
M2 QUANTITY OF USE CAN NOT BE LARGER THAN TOTAL HARVEST between %ag_refperiod%. PLEASE CHECK. [ENUMERATOR: TOTAL HARVEST IS: %stand_harvestcrophg%]
V3 `self>0`
M3 This is not possible. KG per ONE BAG must be larger than zero. Please check.

---

| CHG.18. What was the total value of all sales of %rostertitle% harvested from your homegarden's during %ag_refperiod%? | NUMERIC: INTEGER | chg_18 |
|---|---|---|

I IN JOD
V1 `self.InRange(1,10000)`
M1 This seems unlikely. Please check.

| CHG.19. Who in your household kept/decided what to do with these earnings? | SINGLE-SELECT: LINKED | chg_19 |
|---|---|---|

# [D] LIVESTOCK

E `consent==1`

| D1.1. During %refperiod%, have your or any member of your household <u>raised, kept or owned</u> any of the following livestock: | MULTI-SELECT: YES/NO | d1_1 |
|---|---|---|

I   Can be either present on farm or elsewhere
V1  `self.Missing.Length==0`
M1  Respondent has not yet answered all questions on the ownership of livestock. Please continue until all questions have been asked.

- 101 ☐ / ☐  CALF
- 102 ☐ / ☐  STEER
- 103 ☐ / ☐  HEIFER
- 104 ☐ / ☐  COW
- 105 ☐ / ☐  BULL
- 106 ☐ / ☐  OX
- 107 ☐ / ☐  DONKEY/MULE
- 108 ☐ / ☐  HORSE
- 109 ☐ / ☐  GOAT
- 110 ☐ / ☐  SHEEP
- 111 ☐ / ☐  PIG
- 112 ☐ / ☐  CHICKEN
- 113 ☐ / ☐  TURKEY/GUINEA FOWL
- 114 ☐ / ☐  DUCK
- 115 ☐ / ☐  DOVE/PIGEON
- 999 ☐ / ☐  OTHER

## [D] LIVESTOCK
## Roster: LIVESTOCK OF HOUSEHOLD
generated by multi-select question d1_1

roster_ls

| D1.1oth. Please specify other. | TEXT | d1_1oth |
|---|---|---|

E `@rowcode==999`

| D1.2.How many %rostertitle%'s are owned by your household now? | NUMERIC: INTEGER | d1_2 |
|---|---|---|

E   `d1_1.Yes.Contains(@rowcode)`
V1  `self>0`
M1  Respondent stated that household owns %rostertitle%. Quantity must therefore be larger than ZERO. Please check.

| D1.3. How many %rostertitle% are kept but not owned by your household now? | NUMERIC: INTEGER | d1_3 |
|---|---|---|

SPECIAL VALUES
00  NONE

| D1.4.How many %rostertitle% were owned by your household exactly 12 months ago? | NUMERIC: INTEGER | d1_4 |
|---|---|---|

SPECIAL VALUES
00  NONE

| | |
|---|---|
| D1.5. During %refperiod%, how many %rostertitle% were born? | NUMERIC: INTEGER                        d1_5 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <br><br> SPECIAL VALUES <br> 00  NONE |
| D1.6. During %refperiod%, how many %rostertitle% were given away as gift or payment for some service provided? | NUMERIC: INTEGER                        d1_6 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <br><br> SPECIAL VALUES <br> 00  NONE |
| D1.7. During the last 12months how many %rostertitle% were lost to theft, injury, accident, natural disaster, or disease? | NUMERIC: INTEGER                        d1_7 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <br><br> SPECIAL VALUES <br> 00  NONE |
| D1.8. During %refperiod%, how many %rostertitle% did you buy to raise? | NUMERIC: INTEGER                        d1_8 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <br><br> SPECIAL VALUES <br> 00  NONE |
| D1.9. What was, on average, the value of each %rostertitle% bought during %refperiod% in %lcu%? <br><br> I  Value in %lcu% THE AVERAGE VALUE OF ONE %rostertitle% BOUGHT! <br> E  d1_8>0 <br> V1  `self>0` <br> M1  The value must be larger than 0. Please check. 2 <br> V2  `self<$err_lcu_val` <br> M2  This value is too high. Please check. <br> W3  `self<$warn_lcu_val` <br> M3  This seems very high. Please confirm. | NUMERIC: INTEGER                        d1_9 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - |
| D1.10. During %refperiod%, how many %rostertitle% did you sell alive? | NUMERIC: INTEGER                       d1_10 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <br><br> SPECIAL VALUES <br> 00  NONE |
| D1.11. What was, on average, the value of each %rostertitle% sold alive during the last 12months in %lcu%? <br><br> I  Value in %lcu% THE AVERAGE VALUE OF ONE %rostertitle% SOLD ALIVE! <br> E  d1_10>0 <br> V1  `self>0` <br> M1  The value must be larger than zero. Please check. <br> V2  `self<$err_lcu_val` <br> M2  This value is too high. Please check. <br> W3  `self<$warn_lcu_val` <br> M3  This value seems very high. Please confirm. | NUMERIC: INTEGER                       d1_11 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - |

| | | |
|---|---|---|
| D1.12. During %refperiod%, how many %rostertitle% did you slaughter for sales or consumption? | NUMERIC: INTEGER | d1_12 |

E @rowcode == 101 | @rowcode == 102 | @rowcode == 103 | @rowcode == 104 | @rowcode == 105 | @rowcode == 106 | @rowcode == 109 | @rowcode == 110 | @rowcode == 111 | @rowcode == 112 | @rowcode == 113 | @r And 33 other symbols [1]

SPECIAL VALUES
00 NONE

---

| | | |
|---|---|---|
| D1.13. What was, on average, the value of each %rostertitle% sold slaughtered during %refperiod%? | NUMERIC: INTEGER | d1_13 |

E d1_12>0
V1 self<$err_lcu_val
M1 This value is too high. Please check.
V2 self<$warn_lcu_val
M2 This value seems very high. Please confirm.

---

| | | |
|---|---|---|
| D1.14. Who in the household owns most of %rostertitle%? | MULTI-SELECT: LINKED | d1_14 |

I SELECT UP TO TWO.
F a1_6a>12

---

| | | |
|---|---|---|
| D1.15. Who in the household would you say can decide whether to sell %rostertitle% most of the time? | MULTI-SELECT: LINKED | d1_15 |

I SELECT UP TO TWO.
F a1_6a>12

---

| | | |
|---|---|---|
| D1.16. Who in the household contributes most to decisions regarding a new purchase of %rostertitle%? | MULTI-SELECT: LINKED | d1_16 |

I SELECT UP TO TWO.
F a1_6a>12

---

| | | |
|---|---|---|
| D1.1BL. In %bl_refperiod%, did you or any member of your household own any of the following livestock: | MULTI-SELECT: YES/NO | d1bl_1 |

I Could be either present on farm or elsewhere
V1 self.Missing.Length==0
M1 Respondent has not yet answered all questions on the ownership of livestock. Please continue until all questions have been asked.

101 ☐ / ☐ CALF
102 ☐ / ☐ STEER
103 ☐ / ☐ HEIFER
104 ☐ / ☐ COW
105 ☐ / ☐ BULL
106 ☐ / ☐ OX
107 ☐ / ☐ DONKEY/MULE
108 ☐ / ☐ HORSE
109 ☐ / ☐ GOAT
110 ☐ / ☐ SHEEP
111 ☐ / ☐ PIG
112 ☐ / ☐ CHICKEN
113 ☐ / ☐ TURKEY/GUINEA FOWL
114 ☐ / ☐ DUCK
115 ☐ / ☐ DOVE/PIGEON
999 ☐ / ☐ OTHER

---

[D] LIVESTOCK
## Roster: LIVESTOCK IN %BL_REFPERIOD%
generated by multi-select question d1bl_1

rosterbl_ls

---

| | | |
|---|---|---|
| D1.1BLoth. Please specify other. | TEXT | d1bl_1oth |

E @rowcode==999

**D1.2BL. How many %rostertitle% were owned by your household in %bl_refperiod%?**

E  `d1bl_1.Yes.Contains(@rowcode)`
V1 `self>0`
M1 Respondent stated that household owned %rostertitle% in %bl_refperiod%. Quantity must therefore be larger than ZERO. Please check.

NUMERIC: INTEGER                                         d1bl_2

------------------------------.

---

**D2.1. During %refperiod%, have you spent any money or in-kind payment for your livestock on the following items?**

E  `d1_1.Yes.Length>0`
V1 `self.Missing.Length==0`
M1 Respondent has not yet answered all questions on the livestock expenditures. Please continue until all questions have been asked.

MULTI-SELECT: YES/NO                                     d2_1

001 ☐ / ☐  VACCINATION AND VETERINARY SERVICES
002 ☐ / ☐  FODDER AND ANIMAL FEED
003 ☐ / ☐  TRANSPORTATION OF FODDER AND ANIMAL FEED
004 ☐ / ☐  REPRODUCTION
005 ☐ / ☐  SHADE OR SHELTER CONSTRUCTION/IMPROVEMENT
006 ☐ / ☐  TWINE/ROPE
999 ☐ / ☐  OTHER

---

[D] LIVESTOCK
## Roster: LIVESTOCK EXPENDITURES OF HOUSEHOLD
generated by multi-select question d2_1

roster_lsexp

**D2.1oth. Please specify other.**

E  `@rowcode==999`

TEXT                                                    d2_1oth

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

---

**D2.2. During %refperiod%, how much did you spend in total for %rostertitle%?**

V1 `self>0`
M1 Respondent stated that household has spent money or in-kind payment on %rostertitle%. Quantity must therefore be larger than ZERO. Please check.

NUMERIC: INTEGER                                         d2_2

------------------------------.

---

**D3.1. During %refperiod%, has your household produced or sold any of the following items?**

E  `d1_1.Yes.Length>0`
V1 `self.Missing.Length==0`
M1 Respondent has not yet answered all questions. Please continue until all questions have been asked.

MULTI-SELECT: YES/NO                                     d3_1

200 ☐ / ☐  Milk
201 ☐ / ☐  GHEE
202 ☐ / ☐  EGG
203 ☐ / ☐  YOGURT/CURD
204 ☐ / ☐  CHEESE/COTTAGE CHEESE
205 ☐ / ☐  SKINS AND HIDES
206 ☐ / ☐  WOOL
207 ☐ / ☐  HONEY
208 ☐ / ☐  WAX
209 ☐ / ☐  DUNG CAKES (FUEL)
210 ☐ / ☐  ANIMAL MANURE
999 ☐ / ☐  OTHER

---

[D] LIVESTOCK
## Roster: LIVESTOCK PRODUCT OF HOUSEHOLD
generated by multi-select question d3_1

roster_lsprod

**D2.1oth. Please specify other.**

E  `@rowcode==999`

TEXT                                                    d3_1oth

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

| D3.2. During %refperiod%, for how many months did your household produce any %rostertitle%? | NUMERIC: INTEGER d3_2 |
|---|---|
| V1   self>0 | |
| M1   Respondent stated that household produced %rostertitle% during %refperiod% . The number of months must therefore be larger than ZERO. Please check. | SPECIAL VALUES |
| V2   self.InRange(0,12) | 00   Less than one full month |
| M2   This is not possible. One year has only 12 months. | |

| D3.3. During %refperiod%, did you sell any %rostertitle% that you produced? | SINGLE-SELECT d3_3 |
|---|---|
| | 01 ◯ YES |
| | 00 ◯ NO |

| D3.4a. During %refperiod%, how much of %rostertitle% did you produce? | NUMERIC: INTEGER d3_4a |
|---|---|
| I   Quantity | |
| V1   self>0 | |
| M1   This is not possible. Respondent stated to have produced %rostertitle% . Quantity must be larger than zero. | |

| D3.4b. UNIT | SINGLE-SELECT d3_4b |
|---|---|
| I   Unit | 00 ◯ LITER |
| E   d3_4a>0 | 01 ◯ KG |
| | 02 ◯ TON |
| | 03 ◯ GRAM |
| | 04 ◯ SACK |
| | 05 ◯ BUCKET |
| | 06 ◯ CART |
| | 07 ◯ BOTTLE |
| | 08 ◯ JAR |
| | 09 ◯ TABLETTE D'OEUFS |

| D3.4bbag. How many KG/Liter does ONE %d3_4b% contain? | NUMERIC: INTEGER d3_4bbag |
|---|---|
| E   IsAnswered(d3_4b) && !d3_4b.InList(0,1,2,3,9) | |
| V1   self>0 | |
| M1   This is not possible. Please check. | |
| V2   self.InRange(0,100) | |
| M2   This seems unlikely. Please check. | |

| VARIABLE | DOUBLE lsprod_qty_produc |
|---|---|
| d3_4b.InList(0,1,2,3) ? d3_4a*WeightConv[(int)d3_4b].factor : d3_4a*d3_4bbag | |

| D3.5a. During %refperiod%, how much of %rostertitle% that you produced did you sell? | NUMERIC: INTEGER d3_5a |
|---|---|
| E   d3_3==1 | |

| D3.5b. UNIT | SINGLE-SELECT d3_5b |
|---|---|
| I   Unit | 00 ◯ LITER |
| E   d3_5a>0 | 01 ◯ KG |
| V1   lsprod_qty_produc>=(d3_5b.InList(1,2,3) ? d3_5a*WeightConv[(int)d3_5b].factor : (int)0) | 02 ◯ TON |
| M1   QUANTITY OF SALES CAN NOT BE LARGER THAN QUANTITY OF PRODUCTION. [ENUMERATOR: TOTAL QUANTITY OF %rostertitle% PRODUCED IS: %lsprod_qty_produc%] | 03 ◯ GRAM |
| | 04 ◯ SACK |
| | 05 ◯ BUCKET |
| | 06 ◯ CART |
| | 07 ◯ BOTTLE |
| | 08 ◯ JAR |
| | 09 ◯ TABLETTE D'OEUFS |

| D3.5bbag. How many KG/Liter does ONE %d3_5b% contain? | NUMERIC: INTEGER | d3_5bbag |
|---|---|---|

E `IsAnswered(d3_5b) && !d3_5b.InList(0,1,2,3,9)`
V1 `self>0`
M1 This is not possible. Please check.
V2 `self.InRange(0,100)`
M2 This seems unlikely. Please check.
V3 `lsprod_qty_produc>=(d3_5a*d3_5bbag)`
M3 QUANTITY OF SALES CAN NOT BE LARGER THAN QUANTITY OF PRODUCTION. [ENUMERATOR: TOTAL QUANTITY OF %rostertitle% PRODUCED IS: %lsprod_qty_produc%]

# [E] HOUSING

E `consent==1`

STATIC TEXT

*ANSWER EACH OF THESE QUESTIONS BASED ON THE MOST MODERN/EXPENSIVE OPTION, IF THERE ARE MULTIPLE ANSWERS. E.G IF A HOUSEHOLD HAS TWO KITCHENS, THE RESPONSE SHOULD BE ENTERED FOR THE MOST MODERN/EXPENSIVE OF THE TWO KITCHENS.*

| E1.1 For how many years has this household been living in this dwelling? | NUMERIC: INTEGER | e1_1 |
|---|---|---|

V1 `self.InRange(0,100)`
M1 This seems too far in the past. Please check.

SPECIAL VALUES
00 Moved in within the last 12 months.

| E1.2. On what basis does the household occupy the dwelling? | SINGLE-SELECT | e1_2 |
|---|---|---|

001 ◯ PRIVATELY OWNED
002 ◯ FREE OF RENT
003 ◯ RENTED
999 ◯ OTHER

| E1.2oth. Please specify other. | TEXT | e1_2oth |
|---|---|---|

E `e1_2==999`

| E1.3. How much do you pay to rent this dwelling? | NUMERIC: INTEGER | e1_3 |
|---|---|---|

I IN CFA
E `e1_2==3`

| E1.3. UNIT OF RENT PAYMENT | SINGLE-SELECT | e1_3unit |
|---|---|---|

E `e1_2==3`

01 ◯ PER YEAR
02 ◯ PER MONTH
03 ◯ PER WEEK
04 ◯ PER DAY

| E1.4. What material are the walls of the main dwelling predominantly made of? | SINGLE-SELECT | e1_4 |
|---|---|---|

001 ◯ GRASS
002 ◯ MUD
003 ◯ COMPACTED EARTH
004 ◯ UNBAKED BRICK
005 ◯ BAKED BRICK
006 ◯ CONCRETE
007 ◯ WOOD
008 ◯ IRON SHEETS
999 ◯ OTHER (SPECIFY)

| E1.4oth. Please specify other. | TEXT | e1_4oth |
| --- | --- | --- |
| E   e1_4==999 | ...................................................................................... | |

| E1.5. What material is the roof of the main dwelling predominantly made of? | SINGLE-SELECT | e1_5 |
| --- | --- | --- |
| | 001 ◯ GRASS<br>002 ◯ IRON SHEETS<br>003 ◯ CLAY TILES<br>004 ◯ CONCRETE<br>005 ◯ PLASTIC SHEETING<br>999 ◯ OTHER (SPECIFY) | |

| E1.5oth. Please specify other. | TEXT | e1_5oth |
| --- | --- | --- |
| E   e1_5==999 | ...................................................................................... | |

| E1.6. What material is the floor of the main dwelling predominantly made of? | SINGLE-SELECT | e1_6 |
| --- | --- | --- |
| | 001 ◯ SAND<br>002 ◯ SMOOTHED MUD<br>003 ◯ SMOOTH CEMENT<br>004 ◯ WOOD<br>005 ◯ TILE<br>999 ◯ OTHER (SPECIFY) | |

| E1.6oth. Please specify other. | TEXT | e1_6oth |
| --- | --- | --- |
| E   e1_6==999 | ...................................................................................... | |

| E1.7. How many <u>seperate rooms (chambres)</u> (excluding kitchen, toilet and bath room) do the members of your household occupy? | NUMERIC: INTEGER | e1_7 |
| --- | --- | --- |
| I   DO NOT COUNT BATHROOMS, TOILETS, STOREROOMS, OR GARAGE<br>V1  self.InRange(0,15)<br>M1  This seems unlikely. Please check. | | |

| E1.8. What kind of toilet facility does your household use? | SINGLE-SELECT | e1_8 |
| --- | --- | --- |
| | 001 ◯ FLUSH TOILET<br>002 ◯ VENTILATED IMPROVED PIT LATRINE<br>003 ◯ TRADITIONAL PIT LATRINE W/ROOF<br>004 ◯ TRADITIONAL PIT LATRINE W/O ROOF<br>005 ◯ NONE<br>999 ◯ Other | |

| E1.8oth. Please specify other. | TEXT | e1_8oth |
| --- | --- | --- |
| E   e1_8==999 | ...................................................................................... | |

| E1.9. Do you have electricity working in your dwelling? | SINGLE-SELECT | e1_9 |
| --- | --- | --- |
| | 01 ◯ YES<br>00 ◯ NO | |

| | |
|---|---|
| E1.10. What is your main source of lighting fuel?<br><br>E  e1_9==0 | SINGLE-SELECT                                    e1_10<br>001 ◯ COLLECTED FIREWOOD<br>002 ◯ PURCHASED FIREWOOD<br>003 ◯ GRASS<br>004 ◯ PARAFFIN/PETROL<br>005 ◯ GAS<br>006 ◯ BATTERY / DRY CELL (TORCH)<br>007 ◯ CANDLES<br>999 ◯ OTHER (SPECIFY) |
| E1.10oth. Please specify other.<br><br>E  e1_10==999 | TEXT                                          e1_10oth<br><br>⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ |
| E1.11. What is the main source of cooking fuel? | SINGLE-SELECT                                    e1_11<br>001 ◯ COLLECTED FIREWOOD<br>002 ◯ PURCHASED FIREWOOD<br>003 ◯ GRASS<br>004 ◯ PARAFFIN<br>005 ◯ GAS<br>008 ◯ NDEFF<br>009 ◯ CHARCOAL<br>999 ◯ OTHER (SPECIFY) |
| E1.11oth. Please specify other.<br><br>E  e1_11==999 | TEXT                                          e1_11oth<br><br>⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ |
| E1.12. What is your main source of drinking water? | SINGLE-SELECT                                    e1_12<br>001 ◯ PIPED INTO DWELLING<br>002 ◯ COMMUNAL STANDPIPE<br>003 ◯ OPEN WELL IN YARD/PLOT<br>004 ◯ OPEN PUBLIC WELL<br>005 ◯ PROTECTED WELL IN YARD/PLOT<br>006 ◯ PROTECTED PUBLIC WELL<br>007 ◯ BOREHOLE<br>008 ◯ SPRING<br>009 ◯ RIVER/STREAM<br>010 ◯ POND/LAKE<br>011 ◯ DAM<br>012 ◯ RAINWATER<br>013 ◯ TANKER TRUCK/BOWSER<br>014 ◯ BOTTLED WATER<br>999 ◯ OTHER (SPECIFY) |
| E1.12oth. Please specify other.<br><br>E  e1_12==999 | TEXT                                          e1_12oth<br><br>⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯ |
| E1.13. How long does it take you to walk (ONE WAY) to the main water source from your dwelling?<br><br>I  ONE WAY. IN MINUTES.<br>E  e1_12!=1<br>V1  self.InRange(1,360)<br>M1  This seems unlikely. Please check. | NUMERIC: INTEGER                                   e1_13<br><br>- - - - - - - - - - - - - - - - - - - - - -<br><br>SPECIAL VALUES<br><br>00  It is right behind the house (less than 1 minute) |

STATIC TEXT

*Now I am going to ask you about the condition of your housing structures, and amenities in 2010.*

| | |
|---|---|
| E2.4. In 2010, what material were the walls of the main dwelling predominantly made of? | SINGLE-SELECT       e2_4<br><br>001 ◯ GRASS<br>002 ◯ MUD<br>003 ◯ COMPACTED EARTH<br>004 ◯ UNBAKED BRICK<br>005 ◯ BAKED BRICK<br>006 ◯ CONCRETE<br>007 ◯ WOOD<br>008 ◯ IRON SHEETS<br>999 ◯ OTHER (SPECIFY) |
| E2.4oth. Please specify other.<br><br>E   e2_4==999 | TEXT       e2_4oth<br><br>........................................ |
| E2.5. In 2010, what material was the roof of the main dwelling predominantly made of? | SINGLE-SELECT       e2_5<br><br>001 ◯ GRASS<br>002 ◯ IRON SHEETS<br>003 ◯ CLAY TILES<br>004 ◯ CONCRETE<br>005 ◯ PLASTIC SHEETING<br>999 ◯ OTHER (SPECIFY) |
| E2.5oth. Please specify other.<br><br>E   e2_5==999 | TEXT       e2_5oth<br><br>........................................ |
| E2.6. In 2010, what material was the floor of the main dwelling predominantly made of? | SINGLE-SELECT       e2_6<br><br>001 ◯ SAND<br>002 ◯ SMOOTHED MUD<br>003 ◯ SMOOTH CEMENT<br>004 ◯ WOOD<br>005 ◯ TILE<br>999 ◯ OTHER (SPECIFY) |
| E2.6oth. Please specify other.<br><br>E   e2_6==999 | TEXT       e2_6oth<br><br>........................................ |
| E2.7. In 2010, how many <u>seperate rooms</u> (excluding kitchen, toilet and bath room) do the members of your household occupy?<br><br>I   DO NOT COUNT BATHROOMS, TOILETS, STOREROOMS, OR GARAGE<br>V1   self.InRange(0,15)<br>M1   This seems unlikely. Please check. | NUMERIC: INTEGER       e2_7<br><br>– – – – – – – – – – – – – – – – – – – – |
| E2.8. In 2010, what kind of toilet facility did your household use? | SINGLE-SELECT       e2_8<br><br>001 ◯ FLUSH TOILET<br>002 ◯ VENTILATED IMPROVED PIT LATRINE<br>003 ◯ TRADITIONAL PIT LATRINE W/ROOF<br>004 ◯ TRADITIONAL PIT LATRINE W/O ROOF<br>005 ◯ NONE<br>999 ◯ Other |
| E2.8oth. Please specify other.<br><br>E   e2_8==999 | TEXT       e2_8oth<br><br>........................................ |

| E2.9. In 2010, did you have electricity working in your dwelling? | SINGLE-SELECT | e2_9 |
| --- | --- | --- |
| | 01 ◯ YES<br>00 ◯ NO | |

| E2.10. In 2010, what was your main source of lighting fuel?<br><br>E e2_9==0 | SINGLE-SELECT | e2_10 |
| --- | --- | --- |
| | 001 ◯ COLLECTED FIREWOOD<br>002 ◯ PURCHASED FIREWOOD<br>003 ◯ GRASS<br>004 ◯ PARAFFIN<br>005 ◯ GAS<br>006 ◯ BATTERY / DRY CELL (TORCH)<br>007 ◯ CANDLES<br>999 ◯ OTHER (SPECIFY) | |

| E2.10oth. Please specify other.<br><br>E e2_10==999 | TEXT | e2_10oth |
| --- | --- | --- |
| | .................................................... | |

| E2.11. In 2010, what was the main source of cooking fuel? | SINGLE-SELECT | e2_11 |
| --- | --- | --- |
| | 001 ◯ COLLECTED FIREWOOD<br>002 ◯ PURCHASED FIREWOOD<br>003 ◯ GRASS<br>004 ◯ PARAFFIN<br>005 ◯ GAS<br>008 ◯ NEEF<br>009 ◯ CHARCOAL<br>999 ◯ OTHER (SPECIFY) | |

| E2.11oth. Please specify other.<br><br>E e2_11==999 | TEXT | e2_11oth |
| --- | --- | --- |
| | .................................................... | |

| E2.12. In 2010, what was your main source of drinking water? | SINGLE-SELECT | e2_12 |
| --- | --- | --- |
| | 001 ◯ PIPED INTO DWELLING<br>002 ◯ COMMUNAL STANDPIPE<br>003 ◯ OPEN WELL IN YARD/PLOT<br>004 ◯ OPEN PUBLIC WELL<br>005 ◯ PROTECTED WELL IN YARD/PLOT<br>006 ◯ PROTECTED PUBLIC WELL<br>007 ◯ BOREHOLE<br>008 ◯ SPRING<br>009 ◯ RIVER/STREAM<br>010 ◯ POND/LAKE<br>011 ◯ DAM<br>012 ◯ RAINWATER<br>013 ◯ TANKER TRUCK/BOWSER<br>014 ◯ BOTTLED WATER<br>999 ◯ OTHER (SPECIFY) | |

| E2.12oth. Please specify other.<br><br>E e2_12==999 | TEXT | e2_12oth |
| --- | --- | --- |
| | .................................................... | |

# [F] ASSETS

E consent==1

[F] ASSETS
## HOUSEHOLD ASSETS CURRENTLY OWNED

STATIC TEXT

*F1.1. Does your household currently own the following items:*

| Dining Table | SINGLE-SELECT | f1_1_1a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_1b |
|---|---|---|

E f1_1_1a==1
V1 `self>0`
M1 Respondent stated that household owns this item. Quantity must theref ore be larger than ZERO. Please check.
V2 `self<15`
M2 This seems unlikely. Please check.

| Chair | SINGLE-SELECT | f1_1_2a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f1_1_1a==1? IsAnswered(f1_1_1b) : IsAnswered(f1_1_1a)`

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_2b |
|---|---|---|

E f1_1_2a==1
V1 `self>0`
M1 Respondent stated that household owns this item. Quantity must theref ore be larger than ZERO. Please check.
V2 `self<15`
M2 This seems unlikely. Please check.

| Coffee table | SINGLE-SELECT | f1_1_4a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f1_1_2a==1? IsAnswered(f1_1_2b) :IsAnswered(f1_1_2a)`

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_4b |
|---|---|---|

E f1_1_4a==1
V1 `self>0`
M1 Respondent stated that household owns this item. Quantity must theref ore be larger than ZERO. Please check.
V2 `self<15`
M2 This seems unlikely. Please check.

| Cupboard, drawers, bureau, side table | SINGLE-SELECT | f1_1_5a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f1_1_4a==1? IsAnswered(f1_1_4b) :IsAnswered(f1_1_4a)`

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_5b |
|---|---|---|

E f1_1_5a==1
V1 `self>0`
M1 Respondent stated that household owns this item. Quantity must theref ore be larger than ZERO. Please check.
V2 `self<15`
M2 This seems unlikely. Please check.

| Bed | SINGLE-SELECT | f1_1_6a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f1_1_5a==1? IsAnswered(f1_1_5b) :IsAnswered(f1_1_5a)`

| | | |
|---|---|---|
| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_6b |

E  f1_1_6a==1
V1 self>0
M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2 self<15
M2 This seems unlikely. Please check.

| | | |
|---|---|---|
| Fan | SINGLE-SELECT | f1_1_7a |

E  f1_1_6a==1? IsAnswered(f1_1_6b) :IsAnswered(f1_1_6a)

01 ○ Yes
00 ○ No

| | | |
|---|---|---|
| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_7b |

E  f1_1_7a==1
V1 self>0
M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2 self<15
M2 This seems unlikely. Please check.

STATIC TEXT

## *F1.1. Does your household currently own the following items:*

| | | |
|---|---|---|
| Lantern (paraffin) | SINGLE-SELECT | f1_1_8a |

E  f1_1_7a==1? IsAnswered(f1_1_7b) :IsAnswered(f1_1_7a)

01 ○ Yes
00 ○ No

| | | |
|---|---|---|
| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_8b |

E  f1_1_8a==1
V1 self>0
M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2 self<15
M2 This seems unlikely. Please check.

| | | |
|---|---|---|
| Clock | SINGLE-SELECT | f1_1_9a |

E  f1_1_8a==1? IsAnswered(f1_1_8b) :IsAnswered(f1_1_8a)

01 ○ Yes
00 ○ No

| | | |
|---|---|---|
| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_9b |

E  f1_1_9a==1
V1 self>0
M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2 self<15
M2 This seems unlikely. Please check.

| | | |
|---|---|---|
| Sewing machine | SINGLE-SELECT | f1_1_10a |

E  f1_1_9a==1? IsAnswered(f1_1_9b) :IsAnswered(f1_1_9a)

01 ○ Yes
00 ○ No

| | |
|---|---|
| Please state the number this household currently owns<br><br>E  f1_1_10a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER                 f1_1_10b<br><br>------------------------------- |
| Iron (for clothes)<br><br>E  f1_1_10a==1? IsAnswered(f1_1_10b) :IsAnswered(f1_1_10a) | SINGLE-SELECT                    f1_1_11a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E  f1_1_11a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | NUMERIC: INTEGER                 f1_1_11b<br><br>------------------------------- |
| Refrigerator / freezer<br><br>E  f1_1_11a==1? IsAnswered(f1_1_11b) :IsAnswered(f1_1_11a) | SINGLE-SELECT                    f1_1_12a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E  f1_1_12a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER                 f1_1_12b<br><br>------------------------------- |
| Charcoal stove<br><br>E  f1_1_12a==1? IsAnswered(f1_1_12b) : IsAnswered(f1_1_12a) | SINGLE-SELECT                    f1_1_13a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E  f1_1_13a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER                 f1_1_13b<br><br>------------------------------- |
| Kerosene/paraffin stove<br><br>E  f1_1_13a==1? IsAnswered(f1_1_13b) :IsAnswered(f1_1_13a) | SINGLE-SELECT                    f1_1_14a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E  f1_1_14a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER                 f1_1_14b<br><br>------------------------------- |
| Electric/gas stove<br><br>E  f1_1_14a==1? IsAnswered(f1_1_14b) :IsAnswered(f1_1_14a) | SINGLE-SELECT                    f1_1_15a<br>01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number this household currently owns<br><br>E f1_1_15a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER      f1_1_15b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| Radio<br><br>E f1_1_15a==1? IsAnswered(f1_1_15b) :IsAnswered(f1_1_15a) | SINGLE-SELECT      f1_1_16a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E f1_1_16a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER      f1_1_16b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| Tape/CD/audio player<br><br>E f1_1_16a==1? IsAnswered(f1_1_16b) :IsAnswered(f1_1_16a) | SINGLE-SELECT      f1_1_17a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E f1_1_17a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER      f1_1_17b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| Television / VCR / DVD player<br><br>E f1_1_17a==1? IsAnswered(f1_1_17b) :IsAnswered(f1_1_17a) | SINGLE-SELECT      f1_1_18a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E f1_1_18a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER      f1_1_18b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| Satellite dish<br><br>E f1_1_18a==1? IsAnswered(f1_1_18b) :IsAnswered(f1_1_18a) | SINGLE-SELECT      f1_1_19a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>E f1_1_19a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER      f1_1_19b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

| Solar panel | SINGLE-SELECT | f1_1_20a |
|---|---|---|
| E f1_1_19a==1? IsAnswered(f1_1_19b) :IsAnswered(f1_1_19a) | 01 ◯ Yes <br> 00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_20b |
|---|---|---|
| E f1_1_20a==1 <br> V1 self>0 <br> M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. <br> V2 self<15 <br> M2 This seems unlikely. Please check. | ------------------------------------- | |

STATIC TEXT

## F1.1. Does your household currently own the following items:

| Generator | SINGLE-SELECT | f1_1_21a |
|---|---|---|
| | 01 ◯ Yes <br> 00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_21b |
|---|---|---|
| E f1_1_21a==1 <br> V1 self>0 <br> M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. <br> V2 self<15 <br> M2 This seems unlikely. Please check. | ------------------------------------- | |

| Smart phone | SINGLE-SELECT | f1_1_22a |
|---|---|---|
| E f1_1_21a==1? IsAnswered(f1_1_21b) : IsAnswered(f1_1_21a) | 01 ◯ Yes <br> 00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_22b |
|---|---|---|
| E f1_1_22a==1 <br> V1 self>0 <br> M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. <br> V2 self<15 <br> M2 This seems unlikely. Please check. | ------------------------------------- | |

| Mobile phone | SINGLE-SELECT | f1_1_23a |
|---|---|---|
| E f1_1_22a==1? IsAnswered(f1_1_22b) : IsAnswered(f1_1_22a) | 01 ◯ Yes <br> 00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f1_1_23b |
|---|---|---|
| E f1_1_23a==1 <br> V1 self>0 <br> M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. <br> V2 self<15 <br> M2 This seems unlikely. Please check. | ------------------------------------- | |

| Computer equipment and accessories | SINGLE-SELECT | f1_1_24a |
|---|---|---|
| E f1_1_23a==1? IsAnswered(f1_1_23b) :IsAnswered(f1_1_23a) | 01 ◯ Yes <br> 00 ◯ No | |

| | |
|---|---|
| **Please state the number this household currently owns** | NUMERIC: INTEGER                    f1_1_24b |

E  f1_1_24a==1
V1  self>0
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  self<15
M2  This seems unlikely. Please check.

---

| | |
|---|---|
| **Bicycle** | SINGLE-SELECT                    f1_1_26a |
| | 01 ◯ Yes |
| | 00 ◯ No |

E  f1_1_24a==1? IsAnswered(f1_1_24b) :IsAnswered(f1_1_24a)

---

| | |
|---|---|
| **Please state the number this household currently owns** | NUMERIC: INTEGER                    f1_1_26b |

E  f1_1_26a==1
V1  self>0
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  self<15
M2  This seems unlikely. Please check.

---

| | |
|---|---|
| **Motorcycle/scooter** | SINGLE-SELECT                    f1_1_27a |
| | 01 ◯ Yes |
| | 00 ◯ No |

E  f1_1_26a==1? IsAnswered(f1_1_26b) :IsAnswered(f1_1_26a)

---

| | |
|---|---|
| **Please state the number this household currently owns** | NUMERIC: INTEGER                    f1_1_27b |

E  f1_1_27a==1
V1  self>0
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  self<15
M2  This seems unlikely. Please check.

---

| | |
|---|---|
| **Motor Vehicle** | SINGLE-SELECT                    f1_1_28a |
| | 01 ◯ Yes |
| | 00 ◯ No |

E  f1_1_27a==1? IsAnswered(f1_1_27b) :IsAnswered(f1_1_27a)

---

| | |
|---|---|
| **Please state the number this household currently owns** | NUMERIC: INTEGER                    f1_1_28b |

E  f1_1_28a==1
V1  self>0
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  self<15
M2  This seems unlikely. Please check.

---

| | |
|---|---|
| **Boat** | SINGLE-SELECT                    f1_1_29a |
| | 01 ◯ Yes |
| | 00 ◯ No |

E  f1_1_28a==1? IsAnswered(f1_1_28b) :IsAnswered(f1_1_28a)

---

| | |
|---|---|
| **Please state the number this household currently owns** | NUMERIC: INTEGER                    f1_1_29b |

E  f1_1_29a==1
V1  self>0
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  self<15
M2  This seems unlikely. Please check.

# HOUSEHOLD ASSETS IN %BL_REFPERIOD%

STATIC TEXT

*F1.1. Did your household own the following items in %bl_refperiod%:*

| Dining Table | SINGLE-SELECT | f1_1bl_1a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_1b |
|---|---|---|

E  `f1_1bl_1a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Chair | SINGLE-SELECT | f1_1bl_2a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_1a==1? IsAnswered(f1_1bl_1b) : IsAnswered(f1_1bl_1a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_2b |
|---|---|---|

E  `f1_1bl_2a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Coffee table | SINGLE-SELECT | f1_1bl_4a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_2a==1? IsAnswered(f1_1bl_2b) :IsAnswered(f1_1bl_2a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_4b |
|---|---|---|

E  `f1_1bl_4a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Cupboard, drawers, bureau, side table | SINGLE-SELECT | f1_1bl_5a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_4a==1? IsAnswered(f1_1bl_4b) :IsAnswered(f1_1bl_4a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_5b |
|---|---|---|

E  `f1_1bl_5a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Bed | SINGLE-SELECT | f1_1bl_6a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_5a==1? IsAnswered(f1_1bl_5b) :IsAnswered(f1_1bl_5a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_6b |
| --- | --- | --- |

E  `f1_1bl_6a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Fan | SINGLE-SELECT | f1_1bl_7a |
| --- | --- | --- |
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_6a==1? IsAnswered(f1_1bl_6b) :IsAnswered(f1_1bl_6a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_7b |
| --- | --- | --- |

E  `f1_1bl_7a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

STATIC TEXT

*F1.1. Did your household own the following items in %bl_refperiod%:*

| Lantern (paraffin) | SINGLE-SELECT | f1_1bl_8a |
| --- | --- | --- |
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_7a==1? IsAnswered(f1_1bl_7b) :IsAnswered(f1_1bl_7a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_8b |
| --- | --- | --- |

E  `f1_1bl_8a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Clock | SINGLE-SELECT | f1_1bl_9a |
| --- | --- | --- |
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_8a==1? IsAnswered(f1_1bl_8b) :IsAnswered(f1_1bl_8a)`

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_9b |
| --- | --- | --- |

E  `f1_1bl_9a==1`
V1  `self>0`
M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.
V2  `self<15`
M2  This seems unlikely. Please check.

| Sewing machine | SINGLE-SELECT | f1_1bl_10a |
| --- | --- | --- |
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f1_1bl_9a==1? IsAnswered(f1_1bl_9b) :IsAnswered(f1_1bl_9a)`

| | | |
|---|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_10b |
| E f1_1bl_10a==1 | | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| Iron (for clothes) | SINGLE-SELECT | f1_1bl_11a |
| E f1_1bl_10a==1? IsAnswered(f1_1bl_10b) :IsAnswered(f1_1bl _10a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_11b |
| E f1_1bl_11a==1 | | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. | | |

| | | |
|---|---|---|
| Refrigerator / freezer | SINGLE-SELECT | f1_1bl_12a |
| E f1_1bl_11a==1? IsAnswered(f1_1bl_11b) :IsAnswered(f1_1bl _11a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_12b |
| E f1_1bl_12a==1 | | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| Charcoal stove | SINGLE-SELECT | f1_1bl_13a |
| E f1_1bl_12a==1? IsAnswered(f1_1bl_12b) : IsAnswered(f1_1b l_12a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_13b |
| E f1_1bl_13a==1 | | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| Kerosene/paraffin stove | SINGLE-SELECT | f1_1bl_14a |
| E f1_1bl_13a==1? IsAnswered(f1_1bl_13b) :IsAnswered(f1_1bl _13a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_14b |
| E f1_1bl_14a==1 | | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity theref ore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| **Electric/gas stove** | SINGLE-SELECT | f1_1bl_15a |
| E f1_1bl_14a==1? IsAnswered(f1_1bl_14b) :IsAnswered(f1_1bl_14a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| **Please state the number this household owned in %bl_refperiod%.** | NUMERIC: INTEGER | f1_1bl_15b |
| E f1_1bl_15a==1 | _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| **Radio** | SINGLE-SELECT | f1_1bl_16a |
| E f1_1bl_15a==1? IsAnswered(f1_1bl_15b) :IsAnswered(f1_1bl_15a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| **Please state the number this household owned in %bl_refperiod%.** | NUMERIC: INTEGER | f1_1bl_16b |
| E f1_1bl_16a==1 | _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| **Tape/CD/audio player** | SINGLE-SELECT | f1_1bl_17a |
| E f1_1bl_16a==1? IsAnswered(f1_1bl_16b) :IsAnswered(f1_1bl_16a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| **Please state the number this household owned in %bl_refperiod%.** | NUMERIC: INTEGER | f1_1bl_17b |
| E f1_1bl_17a==1 | _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| **Television / VCR / DVD player** | SINGLE-SELECT | f1_1bl_18a |
| E f1_1bl_17a==1? IsAnswered(f1_1bl_17b) :IsAnswered(f1_1bl_17a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| **Please state the number this household owned in %bl_refperiod%.** | NUMERIC: INTEGER | f1_1bl_18b |
| E f1_1bl_18a==1 | _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ | |
| V1 self>0 | | |
| M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | | |
| V2 self<15 | | |
| M2 This seems unlikely. Please check. | | |

| | | |
|---|---|---|
| **Satellite dish** | SINGLE-SELECT | f1_1bl_19a |
| E f1_1bl_18a==1? IsAnswered(f1_1bl_18b) :IsAnswered(f1_1bl_18a) | 01 ◯ Yes<br>00 ◯ No | |

| | | |
|---|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_19b |
| E f1_1bl_19a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | |
| Solar panel | SINGLE-SELECT<br>01 ⃝ Yes<br>00 ⃝ No | f1_1bl_20a |
| E f1_1bl_19a==1? IsAnswered(f1_1bl_19b) :IsAnswered(f1_1bl_19a) | | |
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_20b |
| E f1_1bl_20a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | |

STATIC TEXT

*F1.1. Did your household own the following items in %bl_refperiod%:*

| | | |
|---|---|---|
| Generator | SINGLE-SELECT<br>01 ⃝ Yes<br>00 ⃝ No | f1_1bl_21a |
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_21b |
| E f1_1bl_21a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | |
| Smart phone | SINGLE-SELECT<br>01 ⃝ Yes<br>00 ⃝ No | f1_1bl_22a |
| E f1_1bl_21a==1? IsAnswered(f1_1bl_21b) : IsAnswered(f1_1bl_21a) | | |
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_22b |
| E f1_1bl_22a==1<br>V1 self>0<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 self<15<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | |
| Mobile phone | SINGLE-SELECT<br>01 ⃝ Yes<br>00 ⃝ No | f1_1bl_23a |
| E f1_1bl_22a==1? IsAnswered(f1_1bl_22b) : IsAnswered(f1_1bl_22a) | | |

| | |
|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER  f1_1bl_23b |
| E  f1_1bl_23a==1 | |
| V1  self>0 | |
| M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | |
| V2  self<15 | |
| M2  This seems unlikely. Please check. | |

| | |
|---|---|
| Computer equipment and accessories | SINGLE-SELECT  f1_1bl_24a |
| E  f1_1bl_23a==1? IsAnswered(f1_1bl_23b) :IsAnswered(f1_1bl_23a) | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER  f1_1bl_24b |
| E  f1_1bl_24a==1 | |
| V1  self>0 | |
| M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | |
| V2  self<15 | |
| M2  This seems unlikely. Please check. | |

| | |
|---|---|
| Bicycle | SINGLE-SELECT  f1_1bl_26a |
| E  f1_1bl_24a==1? IsAnswered(f1_1bl_24b) :IsAnswered(f1_1bl_24a) | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER  f1_1bl_26b |
| E  f1_1bl_26a==1 | |
| V1  self>0 | |
| M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | |
| V2  self<15 | |
| M2  This seems unlikely. Please check. | |

| | |
|---|---|
| Motorcycle/scooter | SINGLE-SELECT  f1_1bl_27a |
| E  f1_1bl_26a==1? IsAnswered(f1_1bl_26b) :IsAnswered(f1_1bl_26a) | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER  f1_1bl_27b |
| E  f1_1bl_27a==1 | |
| V1  self>0 | |
| M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | |
| V2  self<15 | |
| M2  This seems unlikely. Please check. | |

| | |
|---|---|
| Motor Vehicle | SINGLE-SELECT  f1_1bl_28a |
| E  f1_1bl_27a==1? IsAnswered(f1_1bl_27b) :IsAnswered(f1_1bl_27a) | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER  f1_1bl_28b |
| E  f1_1bl_28a==1 | |
| V1  self>0 | |
| M1  Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check. | |
| V2  self<15 | |
| M2  This seems unlikely. Please check. | |

| Boat | SINGLE-SELECT | f1_1bl_29a |
|---|---|---|
| E `f1_1bl_28a==1? IsAnswered(f1_1bl_28b) :IsAnswered(f1_1bl_28a)` | 01 ◯ Yes  00 ◯ No | |

| Please state the number this household owned in %bl_refperiod%. | NUMERIC: INTEGER | f1_1bl_29b |
|---|---|---|
| E `f1_1bl_29a==1`<br>V1 `self>0`<br>M1 Respondent stated that household owns this item. Quantity must therefore be larger than ZERO. Please check.<br>V2 `self<15`<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | |

# AGRICULTURAL ASSETS CURRENTLY OWNED

[F] ASSETS / AGRICULTURAL ASSETS CURRENTLY OWNED
## IMPLEMENTS

STATIC TEXT

*F2.1. Does your household currently own the following items:*

| HAND HOE | SINGLE-SELECT | f2_1_1a |
|---|---|---|
| | 01 ◯ Yes  00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_1b |
|---|---|---|
| I ITEMS MUST BE FUNCTIONAL<br>E `f2_1_1a==1`<br>V1 `self>0`<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 `self.InRange(1,15)`<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | |

| SLASHER | SINGLE-SELECT | f2_1_2a |
|---|---|---|
| E `f2_1_1a==1? IsAnswered(f2_1_1b) :IsAnswered(f2_1_1a)` | 01 ◯ Yes  00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_2b |
|---|---|---|
| I ITEMS MUST BE FUNCTIONAL<br>E `f2_1_2a==1`<br>V1 `self>0`<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 `self.InRange(1,15)`<br>M2 This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . | |

| AXE | SINGLE-SELECT | f2_1_3a |
|---|---|---|
| E `f2_1_2a==1? IsAnswered(f2_1_2b) :IsAnswered(f2_1_2a)` | 01 ◯ Yes  00 ◯ No | |

| | |
|---|---|
| **Please state the number this household currently owns**<br><br>I   ITEMS MUST BE FUNCTIONAL<br>E   `f2_1_3a==1`<br>V1  `self>0`<br>M1  Respondent stated to own this item. Quantity must be larger than zero!<br>V2  `self.InRange(1,15)`<br>M2  This seems unlikely. Please check. | NUMERIC: INTEGER      f2_1_3b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **SAW**<br><br>E   `f2_1_3a==1? IsAnswered(f2_1_3b) :IsAnswered(f2_1_3a)` | SINGLE-SELECT      f2_1_4a<br>01 ◯ Yes<br>00 ◯ No |
| **Please state the number this household currently owns**<br><br>I   ITEMS MUST BE FUNCTIONAL<br>E   `f2_1_4a==1`<br>V1  `self>0`<br>M1  Respondent stated to own this item. Quantity must be larger than zero!<br>V2  `self.InRange(1,15)`<br>M2  This seems unlikely. Please check. | NUMERIC: INTEGER      f2_1_4b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **SPRAYER**<br><br>E   `f2_1_4a==1? IsAnswered(f2_1_4b) :IsAnswered(f2_1_4a)` | SINGLE-SELECT      f2_1_5a<br>01 ◯ Yes<br>00 ◯ No |
| **Please state the number this household currently owns**<br><br>I   ITEMS MUST BE FUNCTIONAL<br>E   `f2_1_5a==1`<br>V1  `self>0`<br>M1  Respondent stated to own this item. Quantity must be larger than zero!<br>V2  `self.InRange(1,15)`<br>M2  This seems unlikely. Please check. | NUMERIC: INTEGER      f2_1_5b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **PANGA KNIFE / MACHETE**<br><br>E   `f2_1_5a==1? IsAnswered(f2_1_5b) :IsAnswered(f2_1_5a)` | SINGLE-SELECT      f2_1_6a<br>01 ◯ Yes<br>00 ◯ No |
| **Please state the number this household currently owns**<br><br>I   ITEMS MUST BE FUNCTIONAL<br>E   `f2_1_6a==1`<br>V1  `self>0`<br>M1  Respondent stated to own this item. Quantity must be larger than zero!<br>V2  `self.InRange(1,15)`<br>M2  This seems unlikely. Please check. | NUMERIC: INTEGER      f2_1_6b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| **SICKLE**<br><br>E   `f2_1_6a==1? IsAnswered(f2_1_6b) :IsAnswered(f2_1_6a)` | SINGLE-SELECT      f2_1_7a<br>01 ◯ Yes<br>00 ◯ No |
| **Please state the number this household currently owns**<br><br>I   ITEMS MUST BE FUNCTIONAL<br>E   `f2_1_7a==1`<br>V1  `self>0`<br>M1  Respondent stated to own this item. Quantity must be larger than zero!<br>V2  `self.InRange(1,15)`<br>M2  This seems unlikely. Please check. | NUMERIC: INTEGER      f2_1_7b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - . |

| TREADLE PUMP | SINGLE-SELECT | f2_1_8a |
| --- | --- | --- |
| E f2_1_7a==1? IsAnswered(f2_1_7b) :IsAnswered(f2_1_7a) | 01 ◯ Yes<br>00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_8b |
| --- | --- | --- |
| I ITEMS MUST BE FUNCTIONAL<br>E f2_1_8a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | ----------------------------------- | |

| WATERING CAN | SINGLE-SELECT | f2_1_9a |
| --- | --- | --- |
| E f2_1_8a==1? IsAnswered(f2_1_8b) :IsAnswered(f2_1_8a) | 01 ◯ Yes<br>00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_9b |
| --- | --- | --- |
| I ITEMS MUST BE FUNCTIONAL<br>E f2_1_9a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | ----------------------------------- | |

[F] ASSETS / AGRICULTURAL ASSETS CURRENTLY OWNED
# MACHINERY

| HAND CART/WHEELBARROW | SINGLE-SELECT | f2_1_10a |
| --- | --- | --- |
| E f2_1_9a==1? IsAnswered(f2_1_9b) :IsAnswered(f2_1_9a) | 01 ◯ Yes<br>00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_10b |
| --- | --- | --- |
| I ITEMS MUST BE FUNCTIONAL<br>E f2_1_10a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | ----------------------------------- | |

| OX CART | SINGLE-SELECT | f2_1_11a |
| --- | --- | --- |
| E f2_1_10a==1? IsAnswered(f2_1_10b) :IsAnswered(f2_1_10a) | 01 ◯ Yes<br>00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_11b |
| --- | --- | --- |
| I ITEMS MUST BE FUNCTIONAL<br>E f2_1_11a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | ----------------------------------- | |

| OX PLOUGH | SINGLE-SELECT | f2_1_12a |
| --- | --- | --- |
| E f2_1_11a==1? IsAnswered(f2_1_11b) :IsAnswered(f2_1_11a) | 01 ◯ Yes<br>00 ◯ No | |

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_12b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E f2_1_12a==1
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

STATIC TEXT

## F2.1. Does your household currently own the following items:

### TRACTOR

SINGLE-SELECT     f2_1_13a

E `f2_1_12a==1? IsAnswered(f2_1_12b) :IsAnswered(f2_1_12a)`

01 ◯ Yes
00 ◯ No

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_13b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E f2_1_13a==1
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

### TRACTOR PLOUGH

SINGLE-SELECT     f2_1_14a

E `f2_1_13a==1? IsAnswered(f2_1_13b) :IsAnswered(f2_1_13a)`

01 ◯ Yes
00 ◯ No

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_14b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E f2_1_14a==1
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

### MOTORISED PUMP

SINGLE-SELECT     f2_1_15a

E `f2_1_14a==1? IsAnswered(f2_1_14b) :IsAnswered(f2_1_14a)`

01 ◯ Yes
00 ◯ No

| Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_15b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E f2_1_15a==1
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

### MECHANICAL DRYER

SINGLE-SELECT     f2_1_16a

E `f2_1_15a==1? IsAnswered(f2_1_15b) :IsAnswered(f2_1_15a)`

01 ◯ Yes
00 ◯ No

| | Please state the number this household currently owns | NUMERIC: INTEGER | f2_1_16b |
|---|---|---|---|

I  ITEMS MUST BE FUNCTIONAL
E  f2_1_16a==1
V1 self>0
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 self.InRange(1,15)
M2 This seems unlikely. Please check.

---

### SOLAR DRYER

E  f2_1_16a==1? IsAnswered(f2_1_16b) :IsAnswered(f2_1_16a)

SINGLE-SELECT · f2_1_17a

01 ◯ Yes
00 ◯ No

---

Please state the number this household currently owns

NUMERIC: INTEGER · f2_1_17b

I  ITEMS MUST BE FUNCTIONAL
E  f2_1_17a==1
V1 self>0
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 self.InRange(1,15)
M2 This seems unlikely. Please check.

---

### GRAIN MILL

E  f2_1_17a==1? IsAnswered(f2_1_17b) :IsAnswered(f2_1_17a)

SINGLE-SELECT · f2_1_18a

01 ◯ Yes
00 ◯ No

---

Please state the number this household currently owns

NUMERIC: INTEGER · f2_1_18b

I  ITEMS MUST BE FUNCTIONAL
E  f2_1_18a==1
V1 self>0
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 self.InRange(1,15)
M2 This seems unlikely. Please check.

---

[F] ASSETS / AGRICULTURAL ASSETS CURRENTLY OWNED
## STRUCTURES/BUILDINGS

---

### POULTRY HOUSE

E  f2_1_18a==1? IsAnswered(f2_1_18b) :IsAnswered(f2_1_18a)

SINGLE-SELECT · f2_1_19a

01 ◯ Yes
00 ◯ No

---

Please state the number this household currently owns

NUMERIC: INTEGER · f2_1_19b

I  ITEMS MUST BE FUNCTIONAL
E  f2_1_19a==1
V1 self>0
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 self.InRange(1,15)
M2 This seems unlikely. Please check.

---

### LIVESTOCK ENCLOSURE

E  f2_1_19a==1? IsAnswered(f2_1_19b) :IsAnswered(f2_1_19a)

SINGLE-SELECT · f2_1_20a

01 ◯ Yes
00 ◯ No

| | |
|---|---|
| Please state the number this household currently owns<br><br>I ITEMS MUST BE FUNCTIONAL<br>E f2_1_20a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER     f2_1_20b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| STORAGE HOUSE<br><br>E f2_1_20a==1? IsAnswered(f2_1_20b) :IsAnswered(f2_1_20a) | SINGLE-SELECT     f2_1_21a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>I ITEMS MUST BE FUNCTIONAL<br>E f2_1_21a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER     f2_1_21b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| GRANARY<br><br>E f2_1_21a==1? IsAnswered(f2_1_21b) :IsAnswered(f2_1_21a) | SINGLE-SELECT     f2_1_22a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>I ITEMS MUST BE FUNCTIONAL<br>E f2_1_22a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER     f2_1_22b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| LIVESTOCK BARN<br><br>E f2_1_22a==1? IsAnswered(f2_1_22b) :IsAnswered(f2_1_22a) | SINGLE-SELECT     f2_1_23a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>I ITEMS MUST BE FUNCTIONAL<br>E f2_1_23a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER     f2_1_23b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |
| PIG STY<br><br>E f2_1_23a==1? IsAnswered(f2_1_23b) :IsAnswered(f2_1_23a) | SINGLE-SELECT     f2_1_24a<br>01 ◯ Yes<br>00 ◯ No |
| Please state the number this household currently owns<br><br>I ITEMS MUST BE FUNCTIONAL<br>E f2_1_24a==1<br>V1 self>0<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 self.InRange(1,15)<br>M2 This seems unlikely. Please check. | NUMERIC: INTEGER     f2_1_24b<br><br>- - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

# AGRICULTURAL ASSETS OWNED IN %BL_REFPERIOD%

[F] ASSETS / AGRICULTURAL ASSETS OWNED IN %BL_REFPERIOD%

## IMPLEMENTS

STATIC TEXT

*F2.1. Did your household owned the following items in %bl_refperiod%:*

| HAND HOE | SINGLE-SELECT | f2_1bl_1a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_1b |
|---|---|---|

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_1a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| SLASHER | SINGLE-SELECT | f2_1bl_2a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f2_1bl_1a==1? IsAnswered(f2_1bl_1b) :IsAnswered(f2_1bl_1a)`

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_2b |
|---|---|---|

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_2a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| AXE | SINGLE-SELECT | f2_1bl_3a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f2_1bl_2a==1? IsAnswered(f2_1bl_2b) :IsAnswered(f2_1bl_2a)`

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_3b |
|---|---|---|

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_3a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| SAW | SINGLE-SELECT | f2_1bl_4a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E  `f2_1bl_3a==1? IsAnswered(f2_1bl_3b) :IsAnswered(f2_1bl_3a)`

| | |
|---|---|
| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER        f2_1bl_4b |
| I  ITEMS MUST BE FUNCTIONAL<br>E  `f2_1bl_4a==1`<br>V1 `self>0`<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 `self.InRange(1,15)`<br>M2 This seems unlikely. Please check. | `------------------------------` |

| | |
|---|---|
| SPRAYER | SINGLE-SELECT        f2_1bl_5a |
| E  `f2_1bl_4a==1? IsAnswered(f2_1bl_4b) :IsAnswered(f2_1bl_4a)` | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER        f2_1bl_5b |
| I  ITEMS MUST BE FUNCTIONAL<br>E  `f2_1bl_5a==1`<br>V1 `self>0`<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 `self.InRange(1,15)`<br>M2 This seems unlikely. Please check. | `------------------------------` |

| | |
|---|---|
| PANGA KNIFE / MACHETE | SINGLE-SELECT        f2_1bl_6a |
| E  `f2_1bl_5a==1? IsAnswered(f2_1bl_5b) :IsAnswered(f2_1bl_5a)` | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER        f2_1bl_6b |
| I  ITEMS MUST BE FUNCTIONAL<br>E  `f2_1bl_6a==1`<br>V1 `self>0`<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 `self.InRange(1,15)`<br>M2 This seems unlikely. Please check. | `------------------------------` |

| | |
|---|---|
| SICKLE | SINGLE-SELECT        f2_1bl_7a |
| E  `f2_1bl_6a==1? IsAnswered(f2_1bl_6b) :IsAnswered(f2_1bl_6a)` | 01 ◯ Yes<br>00 ◯ No |

| | |
|---|---|
| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER        f2_1bl_7b |
| I  ITEMS MUST BE FUNCTIONAL<br>E  `f2_1bl_7a==1`<br>V1 `self>0`<br>M1 Respondent stated to own this item. Quantity must be larger than zero!<br>V2 `self.InRange(1,15)`<br>M2 This seems unlikely. Please check. | |

| | |
|---|---|
| TREADLE PUMP | SINGLE-SELECT        f2_1bl_8a |
| E  `f2_1bl_7a==1? IsAnswered(f2_1bl_7b) :IsAnswered(f2_1bl_7a)` | 01 ◯ Yes<br>00 ◯ No |

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_8b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_8a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| WATERING CAN | SINGLE-SELECT | f2_1bl_9a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f2_1bl_8a==1? IsAnswered(f2_1bl_8b) :IsAnswered(f2_1bl_8a)`

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_9b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_9a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

[F] ASSETS / AGRICULTURAL ASSETS OWNED IN %BL_REFPERIOD%
## MACHINERY

| HAND CART/WHEELBARROW | SINGLE-SELECT | f2_1bl_10a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f2_1bl_9a==1? IsAnswered(f2_1bl_9b) :IsAnswered(f2_1bl_9a)`

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_10b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_10a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| OX CART | SINGLE-SELECT | f2_1bl_11a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f2_1bl_10a==1? IsAnswered(f2_1bl_10b) :IsAnswered(f2_1bl_10a)`

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_11b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_11a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| OX PLOUGH | SINGLE-SELECT | f2_1bl_12a |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

E `f2_1bl_11a==1? IsAnswered(f2_1bl_11b) :IsAnswered(f2_1bl_11a)`

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_12b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_12a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

STATIC TEXT

## *F2.1. Did your household owned the following items in %bl_refperiod%:*

| TRACTOR | SINGLE-SELECT | f2_1bl_13a |
|---|---|---|

E `f2_1bl_12a==1? IsAnswered(f2_1bl_12b) :IsAnswered(f2_1bl_12a)`

01 ◯ Yes
00 ◯ No

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_13b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_13a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| TRACTOR PLOUGH | SINGLE-SELECT | f2_1bl_14a |
|---|---|---|

E `f2_1bl_13a==1? IsAnswered(f2_1bl_13b) :IsAnswered(f2_1bl_13a)`

01 ◯ Yes
00 ◯ No

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_14b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_14a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| MOTORISED PUMP | SINGLE-SELECT | f2_1bl_15a |
|---|---|---|

E `f2_1bl_14a==1? IsAnswered(f2_1bl_14b) :IsAnswered(f2_1bl_14a)`

01 ◯ Yes
00 ◯ No

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_15b |
|---|---|---|

I ITEMS MUST BE FUNCTIONAL
E `f2_1bl_15a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

| MECHANICAL DRYER | SINGLE-SELECT | f2_1bl_16a |
|---|---|---|

E `f2_1bl_15a==1? IsAnswered(f2_1bl_15b) :IsAnswered(f2_1bl_15a)`

01 ◯ Yes
00 ◯ No

| | | |
|---|---|---|
| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_16b |

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_16a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

---

### SOLAR DRYER

E  `f2_1bl_16a==1? IsAnswered(f2_1bl_16b) :IsAnswered(f2_1bl_16a)`

SINGLE-SELECT                                         f2_1bl_17a

01  ◯  Yes
00  ◯  No

---

Please state the number that the household owned in %bl_refperiod%.

NUMERIC: INTEGER                                      f2_1bl_17b

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_17a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

---

### GRAIN MILL

E  `f2_1bl_17a==1? IsAnswered(f2_1bl_17b) :IsAnswered(f2_1bl_17a)`

SINGLE-SELECT                                         f2_1bl_18a

01  ◯  Yes
00  ◯  No

---

Please state the number that the household owned in %bl_refperiod%.

NUMERIC: INTEGER                                      f2_1bl_18b

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_18a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

---

[F] ASSETS / AGRICULTURAL ASSETS OWNED IN %BL_REFPERIOD%

## STRUCTURES/BUILDINGS

### POULTRY HOUSE

E  `f2_1bl_18a==1? IsAnswered(f2_1bl_18b) :IsAnswered(f2_1bl_18a)`

SINGLE-SELECT                                         f2_1bl_19a

01  ◯  Yes
00  ◯  No

---

Please state the number that the household owned in %bl_refperiod%.

NUMERIC: INTEGER                                      f2_1bl_19b

I  ITEMS MUST BE FUNCTIONAL
E  `f2_1bl_19a==1`
V1 `self>0`
M1 Respondent stated to own this item. Quantity must be larger than zero!
V2 `self.InRange(1,15)`
M2 This seems unlikely. Please check.

---

### LIVESTOCK ENCLOSURE

E  `f2_1bl_19a==1? IsAnswered(f2_1bl_19b) :IsAnswered(f2_1bl_19a)`

SINGLE-SELECT                                         f2_1bl_20a

01  ◯  Yes
00  ◯  No

| | | |
|---|---|---|
| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_20b |

I  ITEMS MUST BE FUNCTIONAL
E  f2_1bl_20a==1
V1  self>0
M1  Respondent stated to own this item. Quantity must be larger than zero!
V2  self.InRange(1,15)
M2  This seems unlikely. Please check.

---

### STORAGE HOUSE

E  f2_1bl_20a==1? IsAnswered(f2_1bl_20b) :IsAnswered(f2_1bl_20a)

SINGLE-SELECT     f2_1bl_21a

01 ◯ Yes
00 ◯ No

---

Please state the number that the household owned in %bl_refperiod%.

NUMERIC: INTEGER     f2_1bl_21b

I  ITEMS MUST BE FUNCTIONAL
E  f2_1bl_21a==1
V1  self>0
M1  Respondent stated to own this item. Quantity must be larger than zero!
V2  self.InRange(1,15)
M2  This seems unlikely. Please check.

---

### GRANARY

E  f2_1bl_21a==1? IsAnswered(f2_1bl_21b) :IsAnswered(f2_1bl_21a)

SINGLE-SELECT     f2_1bl_22a

01 ◯ Yes
00 ◯ No

---

Please state the number that the household owned in %bl_refperiod%.

NUMERIC: INTEGER     f2_1bl_22b

I  ITEMS MUST BE FUNCTIONAL
E  f2_1bl_22a==1
V1  self>0
M1  Respondent stated to own this item. Quantity must be larger than zero!
V2  self.InRange(1,15)
M2  This seems unlikely. Please check.

---

### LIVESTOCK BARN

E  f2_1bl_22a==1? IsAnswered(f2_1bl_22b) :IsAnswered(f2_1bl_22a)

SINGLE-SELECT     f2_1bl_23a

01 ◯ Yes
00 ◯ No

---

Please state the number that the household owned in %bl_refperiod%.

NUMERIC: INTEGER     f2_1bl_23b

I  ITEMS MUST BE FUNCTIONAL
E  f2_1bl_23a==1
V1  self>0
M1  Respondent stated to own this item. Quantity must be larger than zero!
V2  self.InRange(1,15)
M2  This seems unlikely. Please check.

---

### PIG STY

E  f2_1bl_23a==1? IsAnswered(f2_1bl_23b) :IsAnswered(f2_1bl_23a)

SINGLE-SELECT     f2_1bl_24a

01 ◯ Yes
00 ◯ No

| Please state the number that the household owned in %bl_refperiod%. | NUMERIC: INTEGER | f2_1bl_24b |
|---|---|---|
| | – – – – – – – – – – – – – – – – – – – – . | |

- I ITEMS MUST BE FUNCTIONAL
- E `f2_1bl_24a==1`
- V1 `self>0`
- M1 Respondent stated to own this item. Quantity must be larger than zero!
- V2 `self.InRange(1,15)`
- M2 This seems unlikely. Please check.

# [G] FOOD CONSUMPTION / SECURITY

E `consent==1`

[G] FOOD CONSUMPTION / SECURITY
## FOOD CONSUMPTION

| VARIABLE | STRING | recall |
|---|---|---|
| `start_visitdate.Value.Date.AddDays(-7).ToString("dddd, MMM dd")` | | |

STATIC TEXT

*RESPONDENT SHOULD BE MEMBER MOST FAMILIAR WITH HOUSEHOLD MEAL PREPARATION*

STATIC TEXT

*ENUMERATOR, PLEASE READ: Now we would like to dicuss what your family ate or drank at home since %recall% (in the last 7 days).*

| G1.1. Did you or anyone in the household eat or drink the following food items since %recall% (In the last 7 days)? | MULTI-SELECT: YES/NO g1_1 |
|---|---|
| V1 `self.Missing.Length==0` | 01 ☐ / ☐ Cereals and Grains |
| M1 Respondent has not answered yet every question. Please continue. | 02 ☐ / ☐ Roots and Tubers |
| | 03 ☐ / ☐ Legumes / Nuts |
| | 04 ☐ / ☐ Orange Vegetables (vegetables rich in Vitamin A) |
| | 05 ☐ / ☐ Green Leafy Vegetables |
| | 06 ☐ / ☐ Other Vegetables |
| | 07 ☐ / ☐ Orange Fruits (Fruits rich in Vitamin A) |
| | 08 ☐ / ☐ Other Fruits |
| | 09 ☐ / ☐ Meat |
| | 10 ☐ / ☐ Fish / Shellfish |
| | 11 ☐ / ☐ Liver, kidney, heart and / or other organ meats |
| | 12 ☐ / ☐ Eggs |
| | 13 ☐ / ☐ Milk and other dairy products |
| | 14 ☐ / ☐ Oil / fat / butter |
| | 15 ☐ / ☐ Sugar, or sweet |
| | 16 ☐ / ☐ Condiments /Spices |

[G] FOOD CONSUMPTION / SECURITY / FOOD CONSUMPTION
## Roster: CONSUMED
generated by multi-select question g1_1                    roster_foodconsum

| | |
|---|---|
| G1.2. Since %recall% (In the last 7 days), how many days did you or anyone in your household consume any %rostertitle%? | NUMERIC: INTEGER        g1_2 |
| I   NUMBER OF DAYS<br>V1  self>0<br>M1  This is not possible. Respondent stated to have eaten this food item.<br>V2  self<=7<br>M2  This is not possible. A week has only 7 days. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - . |
| G1.3. Did you or anyone in the household eat or drink %rostertitle% in the last 24 hours?<br><br>E  g1_2!=7 | SINGLE-SELECT        g1_3<br><br>01 ◯ YES<br>00 ◯ NO |

[G] FOOD CONSUMPTION / SECURITY
## FOOD INSECURITY EXPERIENCE

| | |
|---|---|
| G2.1. During %refperiod%, was there a time when you were worried you would not have enough food to eat because of a lack of money or other resources? | SINGLE-SELECT        g2_1<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |
| G2.2. Still thinking about %refperiod%, was there a time when you were unable to eat healthy and nutritious food because of a lack of money or other resources? | SINGLE-SELECT        g2_2<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |
| G2.3. During %refperiod%, 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? | SINGLE-SELECT        g2_3<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |
| G2.4. During %refperiod%, 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? | SINGLE-SELECT        g2_4<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |
| G2.5. Still thinking about %refperiod%, was there a time when you ate less than you thought you should because of a lack of money or other resources? | SINGLE-SELECT        g2_5<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |
| G2.6. During %refperiod%, was there a time when your household ran out of food because of a lack of money or other resources? | SINGLE-SELECT        g2_6<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |
| G2.7. During %refperiod%, was there a time when you or others in your household were hungry but did not eat because there was not enough money or other resources for food? | SINGLE-SELECT        g2_7<br><br>001 ◯ Yes<br>000 ◯ No<br>888 ◯ Don't know<br>777 ◯ Refused |

| G2.8. During %refperiod%, was there a time when you went without eating for a whole day because of a lack of money or other resources? | SINGLE-SELECT | g2_8 |
|---|---|---|
| | 001 ◯ Yes | |
| | 000 ◯ No | |
| | 888 ◯ Don't know | |
| | 777 ◯ Refused | |

# [H] ENTERPRISES

E  consent==1

| H1.0. During %refperiod%, did you are anyone in your household run any micro-businesses/enterprises? | SINGLE-SELECT | h1_0 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |
| I  PROVID EXAMPLES OF ENTERPRISES | | |

| H1.1. Please list all enterprises that the household or household members operated during %refperiod% | LIST | h1_1 |
|---|---|---|
| I  PROVID EXAMPLES OF ENTERPRISES | | |
| E  h1_0==1 | | |

[H] ENTERPRISES
## Roster: ENTERPRISE
generated by list question h1_1                                    roster_enterprise

| H1.2. What type of business is %rostertitle%? | SINGLE-SELECT | h1_2 |
|---|---|---|
| I  WHERE MULTIPLE TYPES OF GOOD OR SERVICE ARE PROVIDED, SELECT THE MAIN ONE. AGRICULTURAL / LIVESTOCK PRODUCTION SHOULD BE CAPTURED IN THE RELEVANT MODULES | 001 ◯ AGRO-PROCESSING (CROP / LIVESTOCK) | |
| | 002 ◯ PROCESSING FISHERY PRODUCTS | |
| | 003 ◯ COMMERCIAL FISHING | |
| | 004 ◯ MANUFACTURING | |
| | 005 ◯ REPAIR / SERVICE PROVIDER | |
| | 006 ◯ CONSTRUCTION | |
| | 007 ◯ RETAIL | |
| | 008 ◯ TRADE OF AGRICULTURAL PRODUCTS | |
| | 009 ◯ TRADE OF NON-AG PRODUCTS | |
| | 010 ◯ RESTAURANT / BAR / HOSPITALITY | |
| | 011 ◯ TRANSPORTATION | |
| | 012 ◯ EDUCATION | |
| | 013 ◯ HEALTH CARE | |
| | 014 ◯ PROFESSIONAL / ADMINISTRATIVE | |
| | 999 ◯ OTHER | |

| H1.2oth. Please specify | TEXT | h1_2oth |
|---|---|---|
| E  h1_2==999 | | |

| H1.3. Who in the household manages %rostertitle%, or is most familiar with it? | MULTI-SELECT: LINKED | h1_3 |
|---|---|---|
| I  SELECT UP TO TWO FROM HOUSEHOLD ROSTER | | |
| F  a1_6a>12 | | |

| | |
|---|---|
| H1.4a. How many <u>MALES</u> outside of the household are co-managers of %rostertitle%? | NUMERIC: INTEGER       h1_4a |
| V1   `self.InRange(0,10)`<br>M1   This seems unlikely. Please check. | SPECIAL VALUES<br>00   NONE |
| H1.4b. How many <u>FEMALES</u> outside of the household are co-managers of %rostertitle%? | NUMERIC: INTEGER       h1_4b |
| V1   `self.InRange(0,10)`<br>M1   This seems unlikely. Please check. | SPECIAL VALUES<br>00   NONE |
| H1.5. What share of the profits from %rostertitle% are kept by your household rather than other managers? | SINGLE-SELECT       h1_5<br>001 ◯ ALMOST NONE<br>002 ◯ ABOUT 25 %<br>003 ◯ ABOUT 50%<br>004 ◯ ABOUT 75%<br>005 ◯ ALMOST ALL<br>999 ◯ OTHER |
| H1.5oth.Please specify<br><br>E   `h1_5==999` | TEXT       h1_5oth |
| H1.6a. When was enterprise %rostertitle% first started?<br><br>I   YEAR<br>V1   `self<=IntYear`<br>M1   The year can not be in the future. Please check.<br>V2   `self>1900`<br>M2   This seems too far in the past. Please check.<br>W3   `self>1970`<br>M3   This seems very old. Please confirm. | NUMERIC: INTEGER       h1_6a |
| H1.7. Which household members worked in %rostertitle% during %refperiod%<br><br>I   SELECT UP TO TWO FROM HOUSEHOLD ROSTER | MULTI-SELECT: LINKED       h1_7 |
| H1.8a. How many <u>MALES</u> outside of the household worked in %rostertitle% in the last month of operation?<br><br>V1   `self.InRange(0,100)`<br>M1   This seems unlikely. Please check. | NUMERIC: INTEGER       h1_8a<br><br>SPECIAL VALUES<br>00   NONE |
| H1.8b. How many <u>FEMALES</u> outside of the household worked in %rostertitle% in the last month of operation?<br><br>V1   `self.InRange(0,100)`<br>M1   This seems unlikely. Please check. | NUMERIC: INTEGER       h1_8b<br><br>SPECIAL VALUES<br>00   NONE |
| H1.9. During %refperiod%, how many months was %rostertitle% operating?<br><br>V1   `self.InRange(0,12)`<br>M1   Number of months must be between 0 and 12. | NUMERIC: INTEGER       h1_9 |

| | |
|---|---|
| H1.10 During the last month of operation, what was the value of total sales (In %lcu%) of products, goods or services for %rostertitle%? | NUMERIC: INTEGER        h1_10 |

I   Value in %lcu%
V1  `self<$err_lcu_val`
M1  This value is too high. Please check.
W2  `self>0`
M2  A value of 0 for total sales seems unlikely. Please confirm.
W3  `self<$warn_lcu_val`
M3  This seems very high. Please confirm.

| | |
|---|---|
| H1.11. During the last month of operation, what was the value of total costs (In %lcu%) paid for %rostertitle%? | NUMERIC: INTEGER        h1_11 |

I   Value in %lcu% Cost can include inventory, wages, equipment, transport, etc.
W1  `self>0`
M1  Costs of 0 seem unlikely. Please confirm.
V2  `self<$err_lcu_val`
M2  This value is too high. Please check.
W3  `self<$warn_lcu_val`
M3  This value seems very high. Please confirm.

| | |
|---|---|
| H1.12. During %refperiod%, what was the value of total sales (In %lcu%) of products, goods or services for %rostertitle%? | NUMERIC: INTEGER        h1_12 |

I   Value in %lcu%
V1  `self<$err_lcu_val`
M1  This is too high. Please check.
V2  `self>=h1_10`
M2  This is not possible. Value of total sales during %refperiod% must be equal to or larger than value of total sales in the last month of operation
W3  `self<$warn_lcu_val`
M3  This seems very high. Please confirm

| | |
|---|---|
| H1.13. During %refperiod%, what was the value of total costs paid for %rostertitle% in %lcu%? | NUMERIC: INTEGER        h1_13 |

I   Value in %lcu%
V1  `self<$err_lcu_val`
M1  This is too high. Please check.
V2  `self>=h1_11`
M2  This is not possible. Value of total costs during %refperiod% must be equal to or larger than value of total costs in the last month of operation
W3  `self<$warn_lcu_val`
M3  This seems very high. Please confirm.

# [I] EMPLOYMENT

E  `consent==1`

| | |
|---|---|
| I1.1. During %refperiod%, did anyone in your household work as an employee for a wage, salary, commission, or any payment in kind: including doing paid apprenticeship, domestic work or paid farm work? | SINGLE-SELECT        i1_1 <br> 01 ◯ Yes <br> 00 ◯ No |
| I1.2. Who in your household has worked as an employee for a wage, salary, commission, or any payment in kind: including doing paid apprenticeship, domestic work or paid farm work? <br><br> E  `i1_1==1` | MULTI-SELECT: LINKED        i1_2 |

## Roster: WAGE LABOUR

generated by list question a1_1

roster_wagelabour

E  i1_2.Any(p=>p[0]==@rowcode)

| I1.3. Please list all the wage job's that %rostertitle% worked at during %refperiod% | LIST i1_3 |
| --- | --- |

[I] EMPLOYMENT / WAGE LABOUR

## Roster: WAGE JOB

generated by list question i1_3

individ_wage

| I1.4. What form of employment did %roster_wagelabour%'s %rostertitle% labour take? | SINGLE-SELECT i1_4 <br> 01 ◯ FARM WORK <br> 02 ◯ NON-FARM WORK |
| --- | --- |
| I1.5. What form of employment did %roster_wagelabour%'s %rostertitle% labour take? | SINGLE-SELECT i1_5 <br> 001 ◯ AGRICULTURAL / FORESTRY / FISHERY WORKERS <br> 002 ◯ GUARD / PRIVATE HOUSEHOLD SERVICES <br> 003 ◯ SERVICE / SALES <br> 004 ◯ CONSTRUCTION / TRADES <br> 005 ◯ DRIVER / TRANSPORTATION <br> 006 ◯ TEACHER <br> 007 ◯ OTHER PROFESSIONAL / TECHNICIAN <br> 008 ◯ MANAGER <br> 009 ◯ CLERK / SECRETARY <br> 999 ◯ OTHER |
| I1.5oth. Please specify <br> E  i1_5==999 | TEXT i1_5oth |
| I1.6. What is the type of employer for %rostertitle%? | SINGLE-SELECT i1_6 <br> 001 ◯ NATIONAL GOVERNMENT <br> 002 ◯ LOCAL GOVERNMENT <br> 003 ◯ NON-GOV'T ORGANIZATION <br> 004 ◯ PRIVATE BUSINESS <br> 005 ◯ PRIVATE FARM <br> 006 ◯ PRIVATE HOUSEHOLD <br> 999 ◯ OTHER |
| I1.6oth. Please specify <br> E  i1_6==999 | TEXT i1_6oth |
| I1.7. In how many MONTHS during %refperiod%, did %roster_wagelabour% work as %rostertitle%? <br> I  NUMBER OF MONTHS <br> V1  self.InRange(0,12) <br> M1  One can not work more than 12 months within one year. Please check. | NUMERIC: INTEGER i1_7 <br> SPECIAL VALUES <br> 00  Less than one full month |

| | |
|---|---|
| I1.8 During these months, approximately how many days per month did %roster_wagelabour% work at %rostertitle%? | NUMERIC: INTEGER i1_8 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

V1  `self>0`
M1  This is not possible. Please check.
V2  `self.InRange(0,31)`
M2  One month has only maximum 31 days.

| | |
|---|---|
| I1.9. What was %roster_wagelabour%'s average payment per day worked during the most recent pay period for %rostertitle%? | NUMERIC: INTEGER i1_9 <br><br> - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - . |

| | |
|---|---|
| I1.10. Who in the household controls / decides on the use of %roster_wagelabour%'s earnings from %rostertitle%? | SINGLE-SELECT: LINKED i1_10 |

F  `a1_6a>12`

| | |
|---|---|
| I1.11. During %refperiod%, did anyone in your household work as an casual / short-term labor? | SINGLE-SELECT i1_11 <br> 01 ◯ YES <br> 00 ◯ NO |

| | |
|---|---|
| I1.12. Who in your household has worked as an casual / short-term labor? | MULTI-SELECT: LINKED i1_12 |

E  `i1_11==1`


# [J] OTHER INCOME

E  `consent==1`

| J1.1. During %refperiod%, did you or any members of your household receive income from the following income sources: | MULTI-SELECT: YES/NO | j1_1 |
|---|---|---|

I THIS INCLUDES ANY INCOME RECEIVED THAT WAS ADDED TO THE COMMON BUDGET OF THE HOUSEHOLD IN THE LAST 12 MONTHS. C AN ALSO FOR EXAMPLE BE INCOME FOR A SENIOR WHO WAS RECEI VING A PENSION BUT HAS DIED WITH <u>And 22 other symbols [8]</u>

V1 `self.Missing.Length==0`

M1 PLEASE CONTINUE UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

- 101 ☐ / ☐ Cash Transfers/Gifts from Individuals (Friends/Relatives) [DO NOT INCLUDE REMITTANCES FROM ANYONE LISTED IN MODULE M ]
- 102 ☐ / ☐ Food Transfers/Gifts from Individuals (Friends/Relatives) [DO NOT INCLUDE REMITTANCES FROM ANYONE LISTED IN MODULE M.]
- 103 ☐ / ☐ Non-Food In-Kind Transfers/Gifts from Individuals (Friends/Relatives) [DO NOT INCLUDE REMITTANCES FROM ANYONE LISTED IN MODULE M..]
- 104 ☐ / ☐ Cash Assistance from Government
- 105 ☐ / ☐ Food Assistance from Government
- 106 ☐ / ☐ Non-food In-Kind Assistance from Government
- 107 ☐ / ☐ Cash Assistance from NGOs / Religious Groups
- 108 ☐ / ☐ Food Assistance from NGOs / Religious Groups
- 109 ☐ / ☐ Non-food In-Kind Assistance from NGOs / Religious Groups
- 110 ☐ / ☐ Savings, Interest or Other Investment Income
- 111 ☐ / ☐ Pension Income
- 112 ☐ / ☐ Income from Apartment, House Rental
- 113 ☐ / ☐ Income from Real Estate Sales
- 114 ☐ / ☐ Inheritance
- 115 ☐ / ☐ Lottery/Gambling Winnings
- 999 ☐ / ☐ Other Income (Specify):

[J] OTHER INCOME

## Roster: INCOME SOURCE
generated by multi-select question j1_1

roster_transfers

| J1.1oth. Please specify other. | TEXT | j1_1oth |
|---|---|---|

E `@rowcode==999`

| J1.2. During %refperiod%, what was the total value of %rostertitle% received by the household in %lcu%? | NUMERIC: INTEGER | j1_2 |
|---|---|---|

I Value in %lcu% IF MULTIPLE MEMBERS SUM UP THE AMOUNT IF THIS WAS IN-KIND, PROVIDE THE TOTAL CASH VALUE OF THE SOURCE

V1 `self>0`

M1 Respondent said they received income from this source. Must be larger than 0.

V2 `self<$err_lcu_val`

M2 This value is too high. Please check.

W3 `self<$warn_lcu_val`

M3 This value seems very high. Please confirm.

| J1.3. Which household member(s) decides what to do with these earnings? | MULTI-SELECT: LINKED | j1_3 |
|---|---|---|

I SELECT UP TO TWO.

# [L] CREDIT

E `consent==1`

| L1.1. During %refperiod%, did you or anyone else in this household obtain a loan or still have to repay a loan either cash or inputs? | SINGLE-SELECT | l1_1 |
| | 01 ◯ Yes | |
| | 00 ◯ No | |

I ENQUETEUR: Il s'agit (1) des prets pris pendant la periode (de Juin 2017 a Mai 2018) remboursé ou non et (2) des prets pris hors cette periode mais non remboursé.

| L1.2. How many loans do you currently have to repay? | NUMERIC: INTEGER | l1_2 |

E l1_1==1
V1 `self>0`
M1 Respondent stated to obtain a loan. Number of loans must be larger than zero.
V2 `self.InRange(1,20)`
M2 This seems unlikely. Please check.

## [L] CREDIT
## Roster: LOAN
generated by numeric question 11_2                                    roster_loan

| L1.3. From which source did you obtain this loan? | SINGLE-SELECT | l1_3 |
| | 001 ◯ Bank (commercial) | |
| | 002 ◯ Microfinance institution | |
| | 003 ◯ Cooperative | |
| | 004 ◯ Money lender | |
| | 005 ◯ Neighbour | |
| | 006 ◯ Grocery/local merchant | |
| | 007 ◯ Employer | |
| | 008 ◯ Relative | |
| | 009 ◯ Friend | |
| | 010 ◯ Pawnshop | |
| | 011 ◯ Agricultural credit institution | |
| | 012 ◯ Religious institution | |
| | 013 ◯ NGO | |
| | 014 ◯ Savings and Credit Group | |
| | 999 ◯ Other | |

| L1.3oth. Please specify other. | TEXT | l1_3oth |

E l1_3==999
V1 `self.Length>3`
M1 Description is too short. Please specify more

| L1.4. Which household member was responsible for the loan? | MULTI-SELECT: LINKED | l1_4 |

I Select up to two

| L1.5. What was the main purpose for obtaining the loan from %l1_3%? | SINGLE-SELECT 11_5 |
|---|---|
| | 001 ⭕ Farm inputs |
| | 002 ⭕ Purchase of farm equipment |
| | 003 ⭕ Purchase of farm animals |
| | 004 ⭕ Purchase/lease of agricultural land |
| | 005 ⭕ Other agricultural costs |
| | 006 ⭕ Purchase of inputs/working capital/start-up capital |
| | 007 ⭕ Purchase/improvement of land/building/equipment |
| | 008 ⭕ Other business expenses |
| | 009 ⭕ Expanding business/enterprise |
| | 010 ⭕ Consumption needs (e.g buy tv, refrigerator, computer, etc.) |
| | 011 ⭕ Marriage/family events |
| | 012 ⭕ Consumer durables |
| | 013 ⭕ Education |
| | 014 ⭕ Health (e.g hospital bills) |
| | 015 ⭕ To repay another loan |
| | 999 ⭕ Other |

**L1.5oth. Please specify other.**

TEXT 11_5oth

E `l1_5==999`
V1 `self.Length>3`
M1 Description is too short. Please specify more.

⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯

**L1.6b. In which YEAR was the loan contractred from %l1_3%?**

NUMERIC: INTEGER 11_6a

V1 `self<=IntYear`
M1 Year can not be in the future.
V2 `self>1950`
M2 This seems too far in the past. Please check.

– – – – – – – – – – – – – – – – – – – – –

| L1.6a. In which month was the loan from %l1_3% contracted? | SINGLE-SELECT 11_6b |
|---|---|
| | 001 ⭕ January |
| | 002 ⭕ February |
| | 003 ⭕ March |
| | 004 ⭕ April |
| | 005 ⭕ May |
| | 006 ⭕ June |
| | 007 ⭕ July |
| | 008 ⭕ August |
| | 009 ⭕ September |
| | 010 ⭕ October |
| | 011 ⭕ November |
| | 012 ⭕ December |
| | 888 ⭕ Cant remember |

I MONTH OF THE YEAR THE LOAN WAS CONTRACTED
F `l1_6a<IntYear || @optioncode<=IntMonth || @optioncode==888` //Lists all months if not within year of interview. Otherwise list only those months of the Interview Year //that have passed already and al
[And 16 other symbols [6]](#)

| L1.7. How was the loan disbursed? | SINGLE-SELECT 11_7 |
|---|---|
| | 01 ⭕ In Cash |
| | 02 ⭕ In Kind |
| | 03 ⭕ In cash and In kind |

| L1.8. What was the total amount (In %lcu%) of the original loan from %l1_3%? | NUMERIC: INTEGER        l1_8 |
|---|---|
| I   Value in %lcu% (in cash + in kind) <br> V1   `self>0` <br> M1   The amount of loan must be larger than zero. <br> V2   `self<$err_lcu_val` <br> M2   This value is too high. Please check. <br> W3   `self<$warn_lcu_val` <br> M3   This value seems very high. Please confirm. | - - - - - - - - - - - - - - - - - - - - - - - - . |

| L1.9. What kind of guarantee was required by the %l1_3%? | SINGLE-SELECT        l1_9 |
|---|---|
| | 001 ◯ None <br> 002 ◯ Land <br> 003 ◯ Cattle <br> 004 ◯ House/building <br> 005 ◯ Other valuable assets (jewerly etc.) <br> 999 ◯ other, specify |

| L1.9oth. Specify other guarantees. | TEXT        l1_9oth |
|---|---|
| E   `l1_9 ==999` | ............................................. |

| L1.10. Would you have wanted a larger loan when you applied for this loan? | SINGLE-SELECT        l1_10 |
|---|---|
| | 01 ◯ Yes <br> 00 ◯ No |

| L1.11. Why did you not receive a larger loan? | SINGLE-SELECT        l1_11 |
|---|---|
| E   `l1_10==1` | 001 ◯ Lack of collateral <br> 002 ◯ Project considered not profitable <br> 003 ◯ Lending criteria <br> 999 ◯ Other |

| L1.11oth. Please specify other. | TEXT        l1_11oth |
|---|---|
| E   `l1_11==999` <br> V1   `self.Length>3` <br> M1   Description is too short. Please specify more. | ............................................. |

| L1.12a. What was the interest rate/fee for this loan in %? | NUMERIC: DECIMAL        l1_12a |
|---|---|
| I   AMOUNT OF THE INTEREST RATE (%). E.G 2.5%= 2.5 <br> V1   `self.InRange(0,90) \|\| self==888` <br> M1   This seems very high. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - . |

| L1.12b. TIME UNIT OF THE INTEREST RATE | SINGLE-SELECT        l1_12b |
|---|---|
| E   `l1_12a>0` | 01 ◯ PER WEEK <br> 02 ◯ PER MONTH <br> 03 ◯ PER THREE MONTHS <br> 04 ◯ PER SIX MONTHS <br> 05 ◯ ANNUALLY <br> 06 ◯ AGRICULTURAL CAMPAIGN |

| L1.13. How many months were you originally given to pay off this loan? | NUMERIC: INTEGER        l1_13 |
|---|---|
| I   NUMBER OF MONTHS. <br> V1   `self.InRange(0,120)` <br> M1   This seems unlikely. Please check. | - - - - - - - - - - - - - - - - - - - - - - - - . |

| | |
|---|---|
| L1.14. How frequently do you/did you make payments on this loan? | SINGLE-SELECT          l1_14<br>01 ◯ Daily<br>02 ◯ Weekly<br>03 ◯ Forthnightly<br>04 ◯ Monthly<br>05 ◯ Quarterly<br>06 ◯ Semi-annual<br>07 ◯ Annual<br>08 ◯ Only one final payment<br>09 ◯ No fixed schedule |
| L1.15. Has the loan been repaid? | SINGLE-SELECT          l1_15<br>01 ◯ Yes<br>00 ◯ No |
| L1.16. How much do you still need to pay (In %lcu%) to cancel loan from %rostertitle% ?<br><br>I  Value in %lcu%<br>E  l1_15==0<br>V1  self>0<br>M1  Respondent stated that loan has not been repaid yet. Value must be larger than zero. | NUMERIC: INTEGER      l1_16<br><br>----------------------------------- |
| L1.17. How much was paid (or do you expect to pay) in total when the loan is paid off in %lcu%?<br><br>I  Value in %lcu% | NUMERIC: INTEGER      l1_17<br><br>----------------------------------- |
| L1.18. During %refperiod%, did anyone in your household apply for a loan? | SINGLE-SELECT          l1_18<br>01 ◯ Yes<br>00 ◯ No |
| L1.19. Did it occur that one of your application has been rejected?<br><br>E  l1_18==1 | SINGLE-SELECT          l1_19<br>01 ◯ YES<br>00 ◯ NO |
| L1.20. How many times have your applications been rejected during %refperiod%?<br><br>E  l1_19==1<br>V1  self.InRange(1,10)<br>M1  This seems unlikely. Please check. | NUMERIC: INTEGER      l1_20<br><br>----------------------------------- |
| L1.21. What was/were the reason(s) for the rejection?<br><br>E  l1_19==1 | MULTI-SELECT          l1_21<br>001 ☐ No collateral<br>002 ☐ Application was deemed insuftcient / unsiutable<br>999 ☐ Other |
| L1.21oth. Please specify other.<br><br>E  l1_21.Contains(999)<br>V1  self.Length>2<br>M1  Description is too short. Please specify more. | TEXT          l1_21oth<br><br>.......................................... |

| | |
|---|---|
| L1.22. What were the reasons you have not applied for a loan?<br><br>E  l1_18==0 | MULTI-SELECT                                       l1_22<br>001 ☐ NO NEED FOR EXTERNAL FINANCING<br>002 ☐ HIGH INTEREST RATES<br>003 ☐ EXCESSIVE COLLATERAL REQUIREMENTS (NO GARANTEE)<br>004 ☐ LENGTHY APPLICATION PROCESS<br>006 ☐ NO LENDING INSTITUTION (FORMAL OR INFORMAL) AVAILABLE<br>007 ☐ UNCERTAINTY OF OWN ABILITY TO REPAY<br>008 ☐ GOT REJECTED EARLIER<br>009 ☐ NO KNOWLEDGE ABOUT THE POSSIBILITY OF RECEIVING FINANCIAL SUPPORT<br>999 ☐ OTHER, SPECIFy |
| L1.22oth. Please specify other.<br><br>E  l1_22.Contains(999) | TEXT                                             l1_22oth<br>........................................................ |

# [N] SAVINGS

E consent==1

| | |
|---|---|
| N1.1. During %refperiod%, did you or anyone else in this household have cash savings, whether or not the money is still in savings? | SINGLE-SELECT                                         n1_1<br>01 ◯ Yes<br>00 ◯ No |
| N1.2. In which locations do you have savings?<br><br>I  SELECT ALL THAT APPLY<br>E  n1_1==1 | MULTI-SELECT                                           n1_2<br>001 ☐ AT HOME<br>002 ☐ FRIENDS/RELATIVE<br>003 ☐ VILLAGE INSTITUTION<br>004 ☐ NEIGHBOR<br>005 ☐ RELIGIOUS INSTITUTION<br>006 ☐ TRADER<br>007 ☐ COMMERCIAL BANK<br>008 ☐ MONEY LENDER<br>009 ☐ CREDIT ASSOCIATION<br>010 ☐ MY OP<br>999 ☐ OTHER LOCATION |

[N] SAVINGS
## Roster: SAVING
generated by multi-select question n1_2                              roster_savings

| | |
|---|---|
| N1.2oth. Please specify the other location.<br><br>E  @rowcode==999 | TEXT                                             n1_2oth<br>........................................................ |
| N1.3. Which household members are mainly responsible for the savings held at %rostertitle%? | SINGLE-SELECT: LINKED                                   n1_3 |
| N1.5. Were the savings in cash or in kind? | MULTI-SELECT                                           n1_5<br>01 ☐ In cash<br>02 ☐ In kind |

| N1.4. Please state the amount (In %lcu%) currently in savings at %rostertitle%. | NUMERIC: INTEGER | n1_4 |
|---|---|---|

I  Value in %lcu%
E  n1_5.Contains(1)
V1  self>0
M1  Amount must be larger than 0.
V2  self<$err_lcu_val
M2  This value is too high. Please check.
W3  self<$warn_lcu_val
M3  This value seems very high. Please confirm.

| N1.6. Which in-kind goods did you save? | TEXT | n1_6 |
|---|---|---|

E  n1_5.Contains(2)

| N1.7. What was the main reason for saving? | SINGLE-SELECT | n1_7 |
|---|---|---|

001 ◯ Farm inputs
002 ◯ Purchase of farm equipment
003 ◯ Purchase of farm animals
004 ◯ Purchase/lease of agricultural land
005 ◯ Other agricultural costs
006 ◯ Purchase of inputs/working capital/start-up capital
007 ◯ Purchase/improvement of land/building/equipment
008 ◯ Other business expenses
009 ◯ Expanding business/enterprise
010 ◯ Consumption needs (e.g buy tv, refrigerator, computer, etc.)
011 ◯ Marriage/family events
012 ◯ Consumer durables
013 ◯ Education
014 ◯ Health (e.g hospital bills)
015 ◯ To repay another loan
999 ◯ Other

| N1.7oth. Please specify the other reasons for saving. | TEXT | n1_7oth |
|---|---|---|

E  n1_7 ==999

# [K] SOCIAL CAPITAL

E  consent==1

| K0.1.Are there any of these organizations in the community? | MULTI-SELECT: YES/NO | k0_1 |
|---|---|---|

V1 self.Missing.Length==0

M1 Respondent has not yet answered all questions. Please ask all questions.

| 001 | ☐ / ☐ | Irrigation association |
| 002 | ☐ / ☐ | OP / Farmers' association |
| 003 | ☐ / ☐ | Association/cooperative relating to non-agricultural activities |
| 004 | ☐ / ☐ | Credit association |
| 005 | ☐ / ☐ | Savings association |
| 006 | ☐ / ☐ | Political organization |
| 007 | ☐ / ☐ | Women's group |
| 008 | ☐ / ☐ | Men's group |
| 009 | ☐ / ☐ | Senior citizen group |
| 010 | ☐ / ☐ | Youth group |
| 011 | ☐ / ☐ | Sports group |
| 012 | ☐ / ☐ | Cultural group |
| 013 | ☐ / ☐ | Religious group |
| 999 | ☐ / ☐ | Other |

[K] SOCIAL CAPITAL

## Roster: GROUP

generated by multi-select question k0_1

roster_groups

| K0.1. How many %rostertitle% are there in the community? | NUMERIC: INTEGER | k0_2 |
|---|---|---|
|  | - - - - - - - - - - - - - - - - - - - - - - - - - - - - |  |

| K1.1.Does at least one member of the household belong to the %rostertitle%? | SINGLE-SELECT | k1_1 |
|---|---|---|
|  | 01 ◯ YES <br> 00 ◯ NO |  |

**K1.2. Who in your household is involved and/or participates in this %rostertitle%?**

E k1_1 ==1

MULTI-SELECT: LINKED    k1_2

**K1.3. For how many years since at least one member of the household has been involved in this %rostertitle%?**

I NUMBER OF YEARS IF THERE ARE MULTIPLE MEMBERS IN THE HOUSEHOLD, ENTER FOR THE PERSON WHO HAS BEEN A MEMBER FOR THE LONGEST

E k1_1 ==1

NUMERIC: INTEGER    k1_3

- - - - - - - - - - - - - - - - - - - - - - - - - - - -

SPECIAL VALUES

00 Less than one year

**K1.4. How often does this %rostertitle% meet in a year?**

I NUMBER OF TIMES

E k1_1 ==1

V1 self.InRange(1,365)

M1 This seems unlikely. Please check.

NUMERIC: INTEGER    k1_4

- - - - - - - - - - - - - - - - - - - - - - - - - - - -

**K1.5. During %refperiod%, how many times did household member(s) participate in %rostertitle% meetings?**

E k1_1 ==1

V1 self<=k1_4

M1 The number of times member participate must be equal to or smaller than the total number of times the group meets.

NUMERIC: INTEGER    k1_5

- - - - - - - - - - - - - - - - - - - - - - - - - - - -

**K1.6. Does the %rostertitle% charge dues?**

E k1_1 ==1

SINGLE-SELECT    k1_6

01 ◯ Yes

00 ◯ No

| K1.7. How much are the total dues in one year? | NUMERIC: INTEGER | k1_7 |
|---|---|---|

E `k1_1 ==1 & k1_6==1`

-------------------------------.

| K1.8. Does %rostertitle% work with similar groups outside of the village? | SINGLE-SELECT | k1_8 |
|---|---|---|

E `k1_1 ==1 && @rowcode.InList(1,2,3,4,5,6)`

01 ◯ YES
00 ◯ NO

# [O] SHOCKS

E `consent==1`

## [O] SHOCKS
## SHOCKS

| O1.1a. During %refperiod%, did you experience any of the following shocks? | MULTI-SELECT: YES/NO | o1_1a |
|---|---|---|

V1 `self.Missing.Length==0`
M1 Respondent has not yet answered all questions. Please ask all questions.

000 ☐ / ☐ Low levels of rainfall
001 ☐ / ☐ Drought
002 ☐ / ☐ Floods
020 ☐ / ☐ Low quality inputs
004 ☐ / ☐ Unusually high level of crop or livestock pest / disease
006 ☐ / ☐ Unusually high costs or or unavailability of agricultural inputs
008 ☐ / ☐ Unusually low prices or demand for agricultural outputs
010 ☐ / ☐ Unusually high prices for food
011 ☐ / ☐ End of regular assistance/aid/remittances from outside household
012 ☐ / ☐ Loss of (non-agricultural) employment (Not due to illness or accident)
014 ☐ / ☐ Serious illness or accident of household member(s)
015 ☐ / ☐ Death of income earner(s)
017 ☐ / ☐ Conflict/violence (peace and order issue in your area)
018 ☐ / ☐ Theft of money/livestock/agricultural output
019 ☐ / ☐ Grabbing/appropriation of land
999 ☐ / ☐ Any other shock

| Please list other shocks that your household experienced | LIST | o1_1oth |
|---|---|---|

E `o1_1a.Yes.Contains(999)`

## [O] SHOCKS / SHOCKS
## Roster: SHOCK
generated by multi-select question o1_1a

roster_shock

| O1.1b. How many times did you experience %rostertitle% during %refperiod%? | NUMERIC: INTEGER | o1_1b |
|---|---|---|

V1 `self>0`
M1 Respondent stated to have experienced the shock. Number of times must be larger than zero.
V2 `self<=20`
M2 This seems too high. Please check.

| O1.2. How severe was the impact of %rostertitle% on your household during %refperiod%s? | SINGLE-SELECT | o1_2 |
|---|---|---|
| | 01 ◯ None<br>02 ◯ Slight impact<br>03 ◯ Moderate impact<br>04 ◯ Strong impact<br>05 ◯ Worst ever happened | |

| O1.3. To what extent were you and your household able to recover during %refperiod%? | SINGLE-SELECT | o1_3 |
|---|---|---|
| | 01 ◯ Not affected significantly<br>02 ◯ Recovered and better off<br>03 ◯ Recovered to same level<br>04 ◯ Recovered some, but worse<br>05 ◯ Did not recover | |

| O1.4. What did your household do in response to the shock? | MULTI-SELECT | o1_4 |
|---|---|---|
| | 001 ☐ RELIED ON OWN-SAVINGS<br>002 ☐ RECEIVED HELP FROM RELATIVES/FRIENDS<br>003 ☐ RECEIVED UNCONDITINAL HELP FROM GOVERNMENT<br>004 ☐ RECEIVED HELP FROM NGO/RELIGIOUS INSTITUTION<br>005 ☐ 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.)<br>006 ☐ EMPLOYED HOUSEHOLD MEMBERS TOOK ON MORE EMPLOYMENT<br>007 ☐ ADULT HOUSEHOLD MEMBERS WHO WERE PREVIOUSLY NOT WORKING HAD TO FIND WORK<br>008 ☐ HOUSEHOLD MEMBERS MIGRATED<br>009 ☐ REDUCED EXPENDITURES ON HEALTH AND/OR EDUCATION<br>010 ☐ OBTAINED CREDIT<br>011 ☐ SOLD AGRICULTURAL ASSETS<br>012 ☐ SOLD DURABLE ASSETS<br>013 ☐ SOLD LAND/BUILDING<br>014 ☐ SOLD CROP STOCK<br>015 ☐ SOLD LIVESTOCK<br>017 ☐ SENT CHILDREN TO LIVE ELSEWHERE<br><br>And 3 other symbols [15] | |

| O1.5oth. Please specify. | TEXT | o1_5 |
|---|---|---|
| E o1_4.Contains(999) | ............................................................ | |

| O1.6. Have you undertaken any (proactive) measures to protect your household against this shock before it occurred? | SINGLE-SELECT | o1_6 |
|---|---|---|
| | 01 ◯ YES<br>00 ◯ NO | |

## O1.7. What are these proactive measures that you took?

E `o1_6 ==1`

MULTI-SELECT      o1_7

- 001 ☐ GOT INSURANCE
- 002 ☐ SAVED MONEY
- 003 ☐ RECEIVED CLIMATE INFORMATION
- 004 ☐ DIVERSIFIED INCOME SOURCES
- 005 ☐ OBTAINED HEALTH INSURANCE
- 006 ☐ ADHERED TO A SOCIAL PROGRAM
- 999 ☐ OTHER, SPECIFY

## O1.7oth. Other, specify

E `o1_7.Contains(999)`

TEXT      o1_7oth

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

---

[O] SHOCKS / SHOCKS
## Roster: SHOCK
generated by list question o1_1oth

roster_shockoth

## O1.1b. How many times did you experience %rostertitle% during %refperiod%?

V1 `self>0`
M1 Respondent stated to have experienced the shock. Number of times must be larger than zero.
V2 `self.InRange(1,20)`
M2 This seems unlikely. Please check.

NUMERIC: INTEGER      o1_1both

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - .

## O1.2oth. How severe was the impact of %rostertitle% on your household during %refperiod%s?

SINGLE-SELECT      o1_2oth

- 01 ○ None
- 02 ○ Slight impact
- 03 ○ Moderate impact
- 04 ○ Strong impact
- 05 ○ Worst ever happened

## O1.3oth. To what extent were you and your household able to recover during %refperiod%?

SINGLE-SELECT      o1_3oth

- 01 ○ Not affected significantly
- 02 ○ Recovered and better off
- 03 ○ Recovered to same level
- 04 ○ Recovered some, but worse
- 05 ○ Did not recover

| O1.4oth. What did your household do in response to the shock? | MULTI-SELECT | o1_4oth |
| --- | --- | --- |
| | 01 ☐ RELIED ON OWN-SAVINGS | |
| | 02 ☐ RECEIVED HELP FROM RELATIVES/FRIENDS | |
| | 03 ☐ RECEIVED UNCONDITINAL HELP FROM GOVERNMENT | |
| | 04 ☐ RECEIVED 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 | |
| | 17 ☐ SENT CHILDREN TO LIVE ELSEWHERE | |
| | And 3 other symbols [16] | |
| O1.5oth. Please specify.<br><br>E  o1_4oth.Contains(999) | TEXT | o1_5oth |
| | ·············································· | |
| O1.6oth. Have you undertaken any (proactive) measures to protect your household against this shock before it occurred? | SINGLE-SELECT | o1_6oth |
| | 01 ◯ YES | |
| | 00 ◯ NO | |

| O2.1. During %bl_refperiod% [OR PAST 5 YEARS], did you experience any of the following shocks? | MULTI-SELECT: YES/NO | o2_1 |
|---|---|---|

V1 `self.Missing.Length==0`

M1 Respondent has not yet answered all questions. Please ask all questions.

| Code | Yes / No | |
|---|---|---|
| 000 | ☐ / ☐ | Low levels of rainfall |
| 001 | ☐ / ☐ | Drought |
| 002 | ☐ / ☐ | Floods |
| 020 | ☐ / ☐ | Low quality inputs |
| 004 | ☐ / ☐ | Unusually high level of crop or livestock pest / disease |
| 006 | ☐ / ☐ | Unusually high costs or or unavailability of agricultural inputs |
| 008 | ☐ / ☐ | Unusually low prices or demand for agricultural outputs |
| 010 | ☐ / ☐ | Unusually high prices for food |
| 011 | ☐ / ☐ | End of regular assistance/aid/remittances from outside household |
| 012 | ☐ / ☐ | Loss of (non-agricultural) employment (Not due to illness or accident) |
| 014 | ☐ / ☐ | Serious illness or accident of household member(s) |
| 015 | ☐ / ☐ | Death of income earner(s) |
| 017 | ☐ / ☐ | Conflict/violence (peace and order issue in your area) |
| 018 | ☐ / ☐ | Theft of money/livestock/agricultural output |
| 019 | ☐ / ☐ | Grabbing/appropriation of land |
| 999 | ☐ / ☐ | Any other shock |

| Please list other shocks that your household experienced | LIST | o2_1oth |
|---|---|---|

E `o1_1a.Yes.Contains(999)`

---

[O] SHOCKS
## Roster: SHOCK
generated by multi-select question o1_1a

roster_shockbl

| O2.2. How many times did you experience %rostertitle% during %refperiod%? | NUMERIC: INTEGER | o2_2 |
|---|---|---|

E `@rowcode.InList(1,2,3,4,5)`

V1 `self>0`

M1 Respondent stated to have experienced the shock. Number of times must be larger than zero.

V2 `self<=20`

M2 This seems too high. Please check.

| O2.3. In what years did you experience %rostertitle% in the last 5 years? | LIST | o2_3 |
|---|---|---|

E `@rowcode.InList(1,2,3,4,5)`

---

[O] SHOCKS
## Roster: SHOCK
generated by list question o1_1oth

roster_shockothbl

| O2.2both. How many times did you experience %rostertitle% during %refperiod%? | NUMERIC: INTEGER | o2_2both |
|---|---|---|

V1 `self>0`

M1 Respondent stated to have experienced the shock. Number of times must be larger than zero.

V2 `self.InRange(1,20)`

M2 This seems unlikely. Please check.

| | | |
|---|---|---|
| O2.3oth. In what years did you experience %rostertitle% in the last 5 years?<br><br>E @rowcode.InList(1,2,3,4,5) | LIST<br><br>•••••••••••••••••••••••••••••••••••••••••••••••••••••••••• | o2_3oth |

# SHOCK RESILIENCE

STATIC TEXT

*I am now going to ask you questions about your preparednesss in face of a shock or disaster.*

| | | |
|---|---|---|
| O3.1 Is you or anyone in your household part of a disaster relief program or group? | SINGLE-SELECT<br>01 ◯ YES<br>00 ◯ NO | o3_1 |
| O3.2. Have you ever received assistance for crop / livestock loss due to a disaster such as a a drought or flood? | SINGLE-SELECT<br>01 ◯ YES<br>00 ◯ NO | o3_2 |
| O3.3. Do you have insurance? | SINGLE-SELECT<br>001 ◯ YES<br>000 ◯ NO<br>999 ◯ Don't know | o3_3 |
| O3.4 What type of insurance do you have?<br><br>E o3_3 ==1 | SINGLE-SELECT<br>01 ◯ Crop Weather index insurance<br>02 ◯ Area-yield index insurance<br>03 ◯ Livestock insurance<br>05 ◯ Other, specify | o3_4 |
| O3.5. Have you ever received an insurance payout after a disaster? | SINGLE-SELECT<br>01 ◯ YES<br>00 ◯ NO | o3_5 |
| O3.6 In which years did you receive this payout?<br><br>E o3_5 ==1 | LIST<br><br>•••••••••••••••••••••••••••••••••••••••••••••••••••••••••• | o3_6 |
| O3.6a Did you find the payouts useful?<br><br>E o3_5 ==1 | SINGLE-SELECT<br>01 ◯ YES<br>00 ◯ NO | o3_6a |
| O3.7. If an extreme drought/disaster occurred, how likely is it that your household would be well prepared in advance? | SINGLE-SELECT<br>01 ◯ Extremely likely<br>02 ◯ Very likely<br>03 ◯ Not very likely<br>04 ◯ Not at all likely | o3_7 |
| O3.8. If an extreme drought/disaster occurred, how likely is it that your household could recover fully within 6 months? | SINGLE-SELECT<br>01 ◯ Extremely likely<br>02 ◯ Very likely<br>03 ◯ Not very likely<br>04 ◯ Not at all likely | o3_8 |
| O3.9. If extreme droughts/disasters were to become more frequent, how likely is it that your household could change its source of income? | SINGLE-SELECT<br>01 ◯ Extremely likely<br>02 ◯ Very likely<br>03 ◯ Not very likely<br>04 ◯ Not at all likely | o3_9 |

| O3.10. If a disaster occurred, who would you be able to get help for food and work from? | SINGLE-SELECT | o3_10 |
|---|---|---|

01 ◯ Relatives within the village
02 ◯ Non-relatives within the village
03 ◯ Relatives outside the village
04 ◯ Non-relatives outside the village
00 ◯ None

| O3.11. If a disaster occurred, who would you give help for food and work to? | SINGLE-SELECT | o3_11 |
|---|---|---|

01 ◯ Relatives within the village
02 ◯ Non-relatives within the village
03 ◯ Relatives outside the village
04 ◯ Non-relatives outside the village
00 ◯ None

# [Q] EXTENSION AND INFORMATION

E   consent==1

**Q1.1. During %refperiod%, did you or anyone in your household receive any advice on the following topics?**

V1   self.Missing.Length==0
M1   Respondent has not yet answered all questions. Please ask all questions.

MULTI-SELECT: YES/NO                                                    q1_1

001 ☐ / ☐   Long term changes in weather patterns
002 ☐ / ☐   Rainfall prospects
004 ☐ / ☐   Methods for animal health/husbandry
005 ☐ / ☐   Livestock disease threats
006 ☐ / ☐   Current market prices for animals in the area
007 ☐ / ☐   Market prices for animal products
008 ☐ / ☐   Grazing conditions in nearby areas
009 ☐ / ☐   Conflict or other restrictions in access to grazing
010 ☐ / ☐   Business and investment opportunities
011 ☐ / ☐   Opportunities for borrowing money
012 ☐ / ☐   Market prices for food
013 ☐ / ☐   Child nutrition and health info
014 ☐ / ☐   New Staple Crop Varieties
016 ☐ / ☐   Sales / Marketing
017 ☐ / ☐   Access to Credit
999 ☐ / ☐   Other, Specify

[Q] EXTENSION AND INFORMATION
**Roster: TRAINING ON**
generated by multi-select question q1_1                          roster_training

**Q1.3. Who in your household received advice / information on %rostertitle% through %q1_2% during %refperiod%?**

I   Select up to three

MULTI-SELECT: LINKED                                                    q1_3

| Q1.2. What was the main source of the advice on %rostertitle%? | SINGLE-SELECT                                      q1_2 |
|---|---|
|  | 002 ◯ Gov. Agricultural Extension Service (DRDR, ANCAR, Service elevage) |
|  | 003 ◯ Private Agricultural Extension Service |
|  | 005 ◯ NGO |
|  | 006 ◯ OP / CEF |
|  | 009 ◯ Lead Farmer |
|  | 010 ◯ Other Farmer (Neighbor/Relative) |
|  | 999 ◯ Other (Specify) |

Q1.2oth. Please specify other.

E q1_2==999

TEXT                                               q1_2oth

·································································

| Q1.4. How was advice mainly received from %q1_2%?<br><br>E q1_2 != 10 \| q1_2 != 9 | SINGLE-SELECT                                      q1_4 |
|---|---|
|  | 001 ◯ Farmer Field Days/Field School |
|  | 002 ◯ Village Agricultural Extension Meeting |
|  | 003 ◯ Agricultural Extension Course |
|  | 004 ◯ Electronic Media (TV, Radio, Etc) |
|  | 005 ◯ Paper Media (Handouts / Flyers) |
|  | 006 ◯ Field Visit |
|  | 007 ◯ Service YEGLE (platform) |
|  | 999 ◯ Other (Specify) |

Q1.4oth. Please specify

E q1_4==999

TEXT                                               q1_4oth

·································································

| Q1.5. Did you or any member of your household pay anything in order to receive any type of advice / information from %q1_2% during %refperiod%? | SINGLE-SELECT                                      q1_5 |
|---|---|
|  | 01 ◯ YES |
|  | 00 ◯ NO |

| Q1.6. Have you applied the advice received during training? | SINGLE-SELECT                                      q1_6 |
|---|---|
|  | 01 ◯ Yes |
|  | 00 ◯ No |

| Q1.7. Why have you not applied the advice received?<br><br>E q1_6 ==0 | SINGLE-SELECT                                      q1_7 |
|---|---|
|  | 01 ◯ I did not find it useful / didn't believe it would make a difference |
|  | 02 ◯ I was already doing the same of something similar |
|  | 03 ◯ I did not understand the advice |

| Q1.8. Have you shared the advice received with neghbors/friends? | SINGLE-SELECT                                      q1_8 |
|---|---|
|  | 01 ◯ YES |
|  | 00 ◯ NO |

| Q1.9. How many of your neighbors are following the advice received on %rostertitle%? | NUMERIC: INTEGER                                   q1_9 |
|---|---|
|  | - - - - - - - - - - - - - - - - - - - - - - |

# [P] PO MEMBERSHIP

E consent==1

| P1.2. What were the main reasons for your household to participate in the PO? | MULTI-SELECT | p1_2 |
|---|---|---|

001 ☐ GAIN ACCESS TO INPUTS MARKETS
002 ☐ RECEIVE EXTENSION SERVICES FOR CROP FARMING
003 ☐ GAIN ACCESS TO MARKET FOR CROPS
004 ☐ GAIN ACCESS TO CREDIT
005 ☐ SOCIAL FUNCTIONS AND NETWORKING
006 ☐ CURIOSITY
999 ☐ OTHER SPECIFY

---

**P1.2oth. Please specify other.**

E `p1_2.Contains(999)`

TEXT    p1_2oth

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

---

**P1.2a. How many household members participate in the PO?**

V1 `self != 0`
M1 It is not possible that NO household member is member of the PO! Selection is based on PO membership. Verify
V2 `self < hhsize`
M2 The number of household members that are involved in the PO cannot be greater than the number of household members

NUMERIC: INTEGER    p1_2a

- - - - - - - - - - - - - - - - - - - - - - - - - - -

---

**P1.3a. Name one household member that participated in the PO?**

E `p1_2a >=1`

SINGLE-SELECT: LINKED    p1_3a

---

**P1.3b. Name a second household member that participated in the PO.**

I NE RIEN MARQUER SI IL Y A QU'UN SEUL MEMBRE DU MÉNAGE
E `IsAnswered(p1_3a) & p1_2a >1`

SINGLE-SELECT: LINKED    p1_3b

---

**P1.3c. Name a third household member that participated in the PO.**

I NE RIEN MARQUER SI IL Y A QUE DEUX MEMBRES DU MÉNAGE
E `IsAnswered(p1_3b) & p1_2a >2`

SINGLE-SELECT: LINKED    p1_3c

---

**P1.4a. What is the role of %p1_3a% in the PO?**

E `IsAnswered(p1_3a)`

SINGLE-SELECT    p1_4a

01 ○ President
02 ○ Vice president
03 ○ Secretary
04 ○ Adjunct secretary
05 ○ Treasurer
06 ○ Adjunct Treasurer
07 ○ Other board member
08 ○ Funding member
09 ○ Regular member

| | |
|---|---|
| **P1.4b.** What is the role of %p1_3b% in the PO?<br><br>E `IsAnswered(p1_3b)` | SINGLE-SELECT                        p1_4b<br>01 ◯ President<br>02 ◯ Vice president<br>03 ◯ Secretary<br>04 ◯ Adjunct secretary<br>05 ◯ Treasurer<br>06 ◯ Adjunct Treasurer<br>07 ◯ Other board member<br>08 ◯ Funding member<br>09 ◯ Regular member |
| **P1.4c.** What is the role of %p1_3c% in the PO?<br><br>E `IsAnswered(p1_3c)` | SINGLE-SELECT                        p1_4c<br>01 ◯ President<br>02 ◯ Vice president<br>03 ◯ Secretary<br>04 ◯ Adjunct secretary<br>05 ◯ Treasurer<br>06 ◯ Adjunct Treasurer<br>07 ◯ Other board member<br>08 ◯ Funding member<br>09 ◯ Regular member |
| **P1.16a.** Is %p1_3a% a SPAM (sous project d'accés au marché) beneficiary?<br><br>E `IsAnswered(p1_3a) & op_pafa ==1 & hh_spam ==1` | SINGLE-SELECT                       p1_16a<br>01 ◯ YES<br>00 ◯ NO<br>98 ◯ DON'T KNOW |
| **P1.16b.** Is %p1_3b% a SPAM (sous project d'accés au marché) beneficiary?<br><br>E `IsAnswered(p1_3b) & op_pafa ==1 & hh_spam ==1` | SINGLE-SELECT                       p1_16b<br>01 ◯ YES<br>00 ◯ NO<br>98 ◯ DON'T KNOW |
| **P1.16c.** Is %p1_3c% a SPAM (sous project d'accés au marché) beneficiary?<br><br>E `IsAnswered(p1_3c) & op_pafa ==1 & hh_spam ==1` | SINGLE-SELECT                       p1_16c<br>01 ◯ YES<br>00 ◯ NO<br>98 ◯ DON'T KNOW |
| **P1.5.** Have you received any subsidy through PAFA?<br><br>E `op_pafa ==1` | SINGLE-SELECT                         p1_5<br>01 ◯ YES<br>00 ◯ NO |
| **P1.6.** For which value chain did you receive a subsidy?<br><br>E `op_pafa ==1 & p1_5 ==1` | SINGLE-SELECT                         p1_6<br>01 ◯ Maize<br>02 ◯ Millet<br>03 ◯ Sorghum<br>04 ◯ Sesame<br>05 ◯ Bissap<br>06 ◯ Niebe<br>07 ◯ Maraichage<br>08 ◯ Aviculture |
| **P1.7a.** What was the total land area for which your received support? (IN HECTARES)<br><br>E `op_pafa ==1 & p1_5 ==1` | NUMERIC: INTEGER                    p1_7a<br>- - - - - - - - - - - - - - - - - - - - - - - - |
| **P1.7.** How much have you contributed in CASH towards your PO during %refperiod%? | NUMERIC: INTEGER                     p1_7<br>- - - - - - - - - - - - - - - - - - - - - - - - |

| P1.7c. How much have you contributed IN KIND towards your OP during %refperiod%? | NUMERIC: INTEGER p1_7c |
|---|---|
| | -------------------------------- . |

| P1.7b. Did you continue your contribution after the end of PAFA activities? <br><br> E op_pafa ==1 | SINGLE-SELECT p1_7b <br> 01 ◯ YES <br> 00 ◯ NO |
|---|---|

| P1.8. During the years of the program, did you receive improved seeds for planting on your individual farm from PAFA? <br><br> E op_pafa ==1 & p1_5 ==1 | SINGLE-SELECT p1_8 <br> 01 ◯ YES <br> 00 ◯ NO |
|---|---|

| P1.8a. What quantity of seeds was received? <br><br> E p1_8 ==1 | NUMERIC: INTEGER p1_8a <br><br> -------------------------------- . |
|---|---|

| P1.8aunit. UNIT <br><br> E p1_8a >0 | SINGLE-SELECT p1_8aunit <br> 01 ◯ KG <br> 02 ◯ TON <br> 03 ◯ GRAM <br> 04 ◯ BAG (NON-LIQUID) <br> 07 ◯ BARIGO |
|---|---|

| P1.8b. Did you share these seeds with another household member? <br><br> E p1_8a >0 | SINGLE-SELECT p1_8b <br> 01 ◯ YES <br> 00 ◯ NO |
|---|---|

| P1.8d. Which household members did you share these seeds with? <br><br> E p1_8b ==1 | MULTI-SELECT: LINKED p1_8d |
|---|---|

| P1.8c. What is the total quantity shared? <br><br> E p1_8b ==1 | NUMERIC: INTEGER p1_8c <br><br> -------------------------------- . |
|---|---|

| P1.8cunit. UNIT <br><br> E IsAnswered(p1_8c) | SINGLE-SELECT p1_8cunit <br> 01 ◯ KG <br> 02 ◯ TON <br> 03 ◯ GRAM <br> 04 ◯ BAG (NON-LIQUID) <br> 07 ◯ BARIGO |
|---|---|

| P1.9. Have you used any irrigation system provided by PAFA during the years of the project? | SINGLE-SELECT p1_9 <br> 01 ◯ YES <br> 00 ◯ NO |
|---|---|

| P1.10. Have you used PAFA's storage facilities to store grain? | SINGLE-SELECT p1_10 <br> 01 ◯ YES <br> 00 ◯ NO |
|---|---|

| P1.11. Have you received any training from PAFA? | SINGLE-SELECT p1_11 <br> 01 ◯ YES <br> 00 ◯ NO |
|---|---|

| | |
|---|---|
| P1.11a. On which topics have you received advice so far?<br><br>I  SELECT ALL THAT APPLY<br>E  `op_pafa==1 && p1_11 ==1` | MULTI-SELECT                     p1_11a<br>001 ☐ BEST AGRICULTURAL PRACTICES<br>002 ☐ INNOVATIVE AGRICULTURAL TECHNOLOGIES<br>003 ☐ COMMERCIALIZATION AND PROCESSING OF AGRICULTURAL PRODUCTS<br>301 ☐ NEW IMPROVED CROPS<br>304 ☐ PEST CONTROL<br>305 ☐ CROP DISEASES<br>306 ☐ FERTILIZER/HERBICIDE USE<br>310 ☐ WATER AND IRRIGATION<br>311 ☐ SOIL<br>312 ☐ PLANT NUTRITION<br>313 ☐ HARVEST TECHNIQUES<br>314 ☐ POST-HARVEST TECHNIQUES<br>315 ☐ GENERAL ANIMAL CARE<br>319 ☐ SALES / MARKETING<br>320 ☐ ACCESS TO CREDIT<br>999 ☐ OTHER |
| P1.11b. How useful were the trainings received?<br><br>E  `op_pafa=1 && p1_11 ==1` | SINGLE-SELECT                    p1_11b<br>01 ◯ VERY USEFUL<br>02 ◯ USEFUL<br>03 ◯ FAIRLY USEFUL<br>04 ◯ SLIGHTLY USEFUL<br>05 ◯ NOT USEFUL |
| P1.11c. Have you applied the advice received during training?<br><br>E  `op_pafa==1 && p1_11 ==1` | SINGLE-SELECT                    p1_11c<br>01 ◯ Yes<br>00 ◯ No |
| P1.11d. Why have you not applied the advice received?<br><br>E  `p1_11c ==0` | SINGLE-SELECT                    p1_11d<br>01 ◯ I did not find it useful / didn't believe it would make a difference<br>02 ◯ I was already doing the same of something similar<br>03 ◯ I did not understand the advice |
| P1.11e. Have you shared anything you learned with anyone?<br><br>E  `op_pafa==1 && p1_11 ==1` | MULTI-SELECT                     p1_11e<br>000 ☐ NO<br>001 ☐ HOUSEHOLD MEMBER<br>002 ☐ OTHER RELATIVES<br>003 ☐ OTHER FARMERS IN THE COMMUNITY<br>004 ☐ OTHER FARMERS OUTSIDE OF THE COMMUNITY<br>005 ☐ FRIENDS/NEIGHBORS<br>007 ☐ WITH THE COMMUNITY<br>999 ☐ OTHER |
| P1.11eoth. Please specify<br><br>E  `p1_11e.Contains(999)` | TEXT                     p1_11eoth<br>.................................................... |
| P1.12. Have you received credit from PAFA? | SINGLE-SELECT                    p1_12<br>01 ◯ YES<br>00 ◯ NO |

| P1.13.Have you benefitted from PAFA's savings scheme? | SINGLE-SELECT | p1_13 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |

| P1.14. Have you heard of PAFA?<br>E op_pafa==0 | SINGLE-SELECT | p1_14 |
|---|---|---|
| | 01 ◯ Yes | |
| | 00 ◯ No | |

| P1.15. How did you hear about PAFA?<br>E p1_12==1 | SINGLE-SELECT | p1_15 |
|---|---|---|
| | 002 ◯ NGOs | |
| | 003 ◯ ADVERTISEMENT | |
| | 004 ◯ OTHER FARMERS | |
| | 005 ◯ FRIEND/NEIGHBOR | |
| | 006 ◯ RELATIVE | |
| | 007 ◯ FIARA (foire) | |
| | 999 ◯ OTHER | |

| P1.15oth. Please specify other.<br>E p1_15==999 | TEXT | p1_15oth |
|---|---|---|
| | ......................................................... | |

| P1.16. How many people do you know who benefit from PAFA?<br>E p1_14 ==1 \| op_pafa ==1 | NUMERIC: INTEGER | p1_16 |
|---|---|---|
| | - - - - - - - - - - - - - - - - - - - - - - - | |

| P1.17. Do you currently benefit from PAFA-E?<br>I PAFA-E = PAFA EXTENSION<br>E p1_14 ==1 \| op_pafa==1 | SINGLE-SELECT | p1_17 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |

| P1.18. Did you apply for PAFA-E and had your application rejected?<br>E p1_17 ==0 & (p1_14 ==1 \| op_pafa==1) | SINGLE-SELECT | p1_18 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |

| P0.1. Do you think that your PO works for your best interests? | SINGLE-SELECT | p0_1 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |
| | 98 ◯ REFUSED | |

| P0.2. Do you feel that you can share your ideas and worries with the leadership of your PO? | SINGLE-SELECT | p0_2 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |
| | 98 ◯ REFUSED | |

| P0.3. In the last 12 months, have you participated in any training organised by your PO? | SINGLE-SELECT | p0_3 |
|---|---|---|
| | 01 ◯ YES | |
| | 00 ◯ NO | |

| P0.4. Are you satisfied with the quality of the trainings provided by your OP?<br>E p0_3 ==1 | SINGLE-SELECT | p0_4 |
|---|---|---|
| | 01 ◯ Not satisfied | |
| | 02 ◯ Indifferent | |
| | 03 ◯ Satisfied | |

## QUESTIONNAIRE WRAP UP

| ENUMERATOR: RECORD DATE & TIME | DATE: CURRENT TIME | end_visitdate |
|---|---|---|
| | ......................................................... | |

| ENUMERATOR: RECORD CURRENT GPS LOCATION | GPS                                    end_location |
|---|---|
| | N _____ |
| | W _____ |
| | A _____ |

# APPENDIX A — ENABLING CONDITIONS

[1] d1_12: D1.12. During %refperiod%, how many %rostertitle% did you slaughter for sales or consumption?
Enablement Condition:

```
@rowcode == 101 | @rowcode == 102 | @rowcode == 103 | @rowcode == 104 | @rowcode == 105 | @rowcode == 106 |
@rowcode == 109 | @rowcode == 110 | @rowcode == 111 | @rowcode == 112 | @rowcode == 113 | @rowcode == 114 |
@rowcode == 115
```

[2] : INPUT
Enablement Condition:

```
parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) &&
x.c1s1_8.Length>0).Any(c=>c.c1s1_8.Contains(@rowcode))
||
parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) &&
x.c2s1_8b!=null).Any(c=>c.c2s1_8b.Contains(@rowcode))
||
parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) &&
x.c2s1_9b!=null).Any(c=>c.c2s1_9b.Contains(@rowcode))
||
parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) &&
x.c2s1_10b!=null).Any(c=>c.c2s1_10b.Contains(@rowcode))
||
parcelroster_s1.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(1) &&
x.c2s1_12b!=null).Any(c=>c.c2s1_12b.Contains(@rowcode))
```

[3] : INPUT
Enablement Condition:

```
parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) &&
x.c1s2_8.Length>0).Any(c=>c.c1s2_8.Contains(@rowcode))
||
parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) &&
x.c2s2_8b!=null).Any(c=>c.c2s2_8b.Contains(@rowcode))
||
parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) &&
x.c2s2_9b!=null).Any(c=>c.c2s2_9b.Contains(@rowcode))
||
parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) &&
x.c2s2_10b!=null).Any(c=>c.c2s2_10b.Contains(@rowcode))
||
parcelroster_s2.Where(x=>x.b2_2a!=null && x.b2_2a.Yes.Contains(2) &&
x.c2s2_12b!=null).Any(c=>c.c2s2_12b.Contains(@rowcode))
```

[4] : CROP
Enablement Condition:

```
parcelroster_s1.Where(x=>x.c1tps1_2!=null).Any(c=>c.c1tps1_2.Contains(@rowcode))
||
parcelroster_s2.Where(x=>x.c1tps2_2!=null).Any(c=>c.c1tps2_2.Contains(@rowcode))
||
parcelroster_tp.Where(x=>x.c1tp_2!=null).Any(c=>c.c1tp_2.Contains(@rowcode))
```

# APPENDIX B — VALIDATION CONDITIONS AND MESSAGES

[1] a1_5: A1.5. What is %rostertitle%'s relationship to %a1_2%?

Validation Condition:

```
/* Check that head has different gender than spouse(s) */

// if head is current person, and does at least one spouse exist?
a1_2==@rowcode && hhroster.Any(x=>x.a1_5==2) ?

!( hhroster.Any(a=>a.a1_5==2 && a.a1_4!=null && a.a1_4==a1_2) ) :

// if not, no problem
true
```

Validation Message: The head and his/her spouse typically have different genders. Please confirm.

Validation Condition:

```
/* Check that spouse has different gender than head */

// if spouse is current person?
a1_5==2 ?

// if so, check whether spouse has different gender than head
!( hhroster.Any(b=>b.@rowcode==a1_2 && b.a1_4!=null && b.a1_4==a1_4) ) :

// if not, no problem
true
```

Validation Message: Spouse typically has a different genders than his/her spouse (the head of household). Please confirm.

Validation Condition:

```
self==5?

(hhroster.Count(x=>x.a1_5==5)<=2):

true
```

Validation Message: Household head has at most 1 father and mother.

[2] a1_6a: A1.6a. How old is %rostertitle%? (YEARS)

Validation Condition:

```
a1_6a<120
```

Validation Message: Reported age is unlikely. Please check.

Validation Condition:

```
(a1_5==3 &&
(hhroster.Count(x=>x.@rowcode==a1_2 && x.a1_4==1 &&
(x.a1_6a-a1_6a<=14))==0)) &&
((hhroster.Count(x=>x.@rowcode==a1_2 && x.a1_4==2 &&
(x.a1_6a-a1_6a<=12))==0))

||
(@rowcode==a1_2 && a1_4==1 && (hhroster.Count(x=>x.a1_5==3 &&
(a1_6a-x.a1_6a<=14))==0))

||

(@rowcode==a1_2 && a1_4==2 && (hhroster.Count(x=>x.a1_5==3 &&
(a1_6a-x.a1_6a<=12))==0))

||

(
    !a1_5.InList(1,3)
    ||
    @rowcode==a1_2 && a1_4==null
    ||
    a1_5==3 && a1_4==null
)
```

Validation Message: Age difference between head and his child is less than 12 years. Please check.

Validation Condition:

```
(a1_5 == 2 && self >= 14) || a1_5 != 2
```

Validation Message: Person (%rostertitle%) seems to be too young to be married (%a1_6a%). Check or confirm.

Validation Condition:

```
a1_2==@rowcode ? a1_6a >= 12 : true
```

Validation Message: Household head is supposed to be an adult at least 12 years old, yet %rostertitle% is %a1_6a%. Check or confirm

Validation Condition:

```
(a1_5 == 5 && a1_6a > 24) || a1_5 != 5
```

Validation Message: Person (%rostertitle%) seems to young to be the parent of household head. Check or confirm.

Validation Condition:

```
(a1_5 == 12 && a1_6a > 36) || a1_5 != 12
```

Validation Message: Grandparent should be older than 36. Please check or confirm.

```
(a1_5 == 12 && a1_6a > 36) || a1_5 != 12
```

Validation Message: Grandparent should be older than 36. Please check or confirm.

# APPENDIX C — INSTRUCTIONS

[1] contact_1name: What is the name of a person in this village who we can contact if we cannot contact you in the future?
Enumerator: please remember that the farm household might be interviewed again over the next years, and thus having a way to contact them in the future is critical to the success of the survey. We are going to ask them for two people who can be contacted in the future should the family move from the village. If you left this place, who would be the most likely people to know where you are?

[2] c5s1_7: C5.7. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season1%? IN HOURS
IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE AMOUNT OF EACH RIDE.

[3] c5s1_14: C5.14. How long did it take to transport all of the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %season1%?
IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE AMOUNT OF EACH RIDE.

[4] c5s2_7: C5.7. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %season2%? IN HOURS
IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE AMOUNT OF EACH RIDE.

[5] c5s2_14: C5.14. How long did it take to transport all of the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %season2%?
IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE AMOUNT OF EACH RIDE.

[6] c5tp_7: C5.7. How long did it take to transport all of the %rostertitle% sold in the largest transaction of %rostertitle% harvested during %seasontp%? IN HOURS
IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE AMOUNT OF EACH RIDE.

[7] c5tp_14: C5.14. How long did it take to transport all of the %rostertitle% sold in the second largest transaction of %rostertitle% harvested during %seasontp%?
IN HOURS IF PICKED UP AT THE FARMGATE, INSERT ZERO. INSERT THE AMOUNT OF TIME IT TAKES TO TRANSPORT ALL OF THE CROP PURCHASED IN THE LARGEST TRANSACTION. IF MULTIPLE RIDES WERE NECESSARY, SUM UP THE AMOUNT OF EACH RIDE.

[8] j1_1: J1.1. During %refperiod%, did you or any members of your household receive income from the following income sources:
THIS INCLUDES ANY INCOME RECEIVED THAT WAS ADDED TO THE COMMON BUDGET OF THE HOUSEHOLD IN THE LAST 12 MONTHS. CAN ALSO FOR EXAMPLE BE INCOME FOR A SENIOR WHO WAS RECEIVING A PENSION BUT HAS DIED WITHIN THE LAST 12 MONTHS.

# APPENDIX D — CATEGORIES

[1] id2: I2. Departement
Categories: 11：Bambey, 12：Diourbel, 13：Mbacke, 14：Fatick, 15：Foundiougne, 16：Gossas, 17：Birkelane, 18：Kaffrine, 19：Koungheul, 20：Malem Hoddar, 21：Guinguineo, 22：Kaolack, 23：Nioro du Rip, 24：Lingu�re, 25：Koumpentoum, 26：Mbour, 27：Thies, 28：Tivaouane

[2] id3: I3. Arrondissement
Categories: 30：Baba Garage, 31：Bambey, 32：Lambaye, 33：Ngoye, 34：Ndindy, 35：Ndoulo, 36：Kael, 37：Ndame, 38：Taif, 39：Fimela, 40：Ndiob, 41：Niakhar, 42：Djilor, 43：Toubacouta, 44：Colobane, 45：Ouadiour, 46：Birkelane, 47：Keur Mboucki, 48：Mabo, 49：Gniby, 50：Katakel, 51：Nganda, 52：Ida Mouride, 53：Koungheul, 54：Missirah Wadene, 55：Darou Minam Ii, 56：Sagna, 57：Mbadakhoune, 58：Nguelou, 59：Koumbal, 60：Ndiedieng, 61：Medina Sabakh, 62：Paoskoto, 63：Wack Ngouna, 64：Barkedji, 65：Bamba Ndiayene (Bamba Thialene), 66：Kouthiaba Ouolof, 67：Fissel, 68：Sessene, 69：Thiadiaye, 70：Notto, 71：Thienaba, 72：Pambal

[3] id4: I3. Commune
Categories: 80：Baba Garage, 81：Dinguiraye, 82：Ndondol, 83：Gawane, 84：Lambaye, 85：Ngogom, 86：Ndangalma, 87：Ngoye, 88：Thiakhar, 89：Dankh Sene, 90：Keur Ngalgou, 91：Ndindy, 92：Ngohe, 93：Patar, 94：Tocky Gare, 95：Darou Nahim, 96：Madina, 97：Taiba Tieckene, 98：Dalla Ngabou, 99：Touba Fall, 100：Taif, 101：Dioffior, 102：Diaoule, 103：Mbar, 104：Ndiob, 105：Thiare Ndialgui, 106：Niakhar, 107：Diagane Barka, 108：Djilor, 109：Keur Saloum Diane, 110：Keur Samba Gueye, 111：Nioro Alassane Tall, 112：Toubacouta, 113：Colobane, 114：Mbar, 115：Ndiene Lagane, 116：Ouadiour, 117：Patar Lia, 118：Birkelane, 119：Diamal, 120：Mabo x, 121：Mabo y, 122：Boulel Goumack, 123：Gniby, 124：Kahi, 125：Diamagadio, 126：Kathiote, 127：Medinatoul Salam Ii, 128：Nganda, 129：Missirah Wadene, 130：Fass Thiekene, 131：Maka Yopp, 132：Gainthe Pathe, 133：Ribot Escale, 134：Ndioum Ngainth, 135：Dianke Souf, 136：Sagna, 137：Khelcom Birane, 138：Mbadakhoune, 139：Ndiago, 140：Ngathie Naoude, 141：Nguelou, 142：Keur Baka, 143：Latmingue, 144：Ndiebel, 145：Ndoffane, 146：Keur Soce, 147：Ndiedieng, 148：Kayemor, 149：Ngayenne, 150：Dabaly, 151：Gainthe Kaye, 152：Keur Maba Diakhou, 153：Ndrame Escale, 154：Wack Ngouna, 155：Gassane, 156：Bamba Thialene, 157：Malem Niani, 158：Payar, 159：Fissel, 160：Sandiara, 161：Sessene, 162：Thiadiaye, 163：Tassette, 164：Thienaba, 165：Touba Toul, 166：Cherif Lo x, 167：Cherif Lo y

[4] id5: I3. Village
Categories: 200：Baba Garage, 201：Ndiaby, 202：Ndiobel, 203：Grame, 204：Keur makhaly, 205：Ng�m� issa, 206：mbokk haoul, 207：Gawane Mbacke, 208：Bousso Ndir, 209：Lambaye peye, 210：Lob�tte, 211：Ngithie thiandige, 212：ndangalma 1, 213：ngoye, 214：Mbeedi, 215：Sikane, 216：Ndiogop, 217：Keur ngalgou, 218：koki kane kane, 219：merina syll, 220：KADAM, 221：Ndiokhoba, 222：Ndiouf�ne, 223：ngohe, 224：Ndionaye, 225：SAMB� PEULH 1, 226：Samba Niakh�r, 227：Teneful, 228：Touba Mb�lle Gaye, 229：ngomene, 230：Thial�, 231：Madina, 232：Darou mbay�ne, 233：Douye sangou, 234：Bakhdas, 235：bayla, 236：darou salam, 237：diofior, 238：keur, 239：keur diallo, 240：Daby Ngama, 241：Ndayane, 242：DIOUDIOUF, 243：NDIOB, 244：NDIOP, 245：Ndiop, 246：darou salam, 247：farra, 248：soufa keur allarda, 249：Ngolgui, 250：Godaguene, 251：Mboukoutour, 252：mbafaye, 253：niakhar, 254：diagane barka, 255：KEUR BAKARI, 256：keur saloum dian�, 257：m�dina djikay, 258：Darou Ibrahima Sagnane, 259：Bamako, 260：Bany, 261：Diagl�, 262：N�ma, 263：toubacouta, 264：arab� diabel, 265：colobane, 266：colonne scal, 267：thjiss�, 268：keur Fapp Tine, 269：THIELE PATHIEME, 270：Barkael, 271：Thienaba, 272：niangu� niang, 273：PATAR LIA, 274：boustane lo, 275：fissel2, 276：soumbel keur latir, 277：birkelane, 278：keur ibrahima mbaye, 279：mabo, 280：keur path�, 281：Medina kandjane 2, 282：Toune, 283：SANGHOL WOLOF, 284：toune diouma, 285：Bambaly, 286：Diamagadio, 287：Gouye Mady Boury, 288：diamagadio, 289：wintinkou, 290：Ndioundene, 291：katakek, 292：Medinatoul salam ll, 293：Kelimane, 294：Mina, 295：Nganda, 296：Dimiskha, 297：Medina fass, 298：Kafate, 299：Nguerane fass, 300：Nguirane fass, 301：ng�rane fasse, 302：gainth pathe, 303：ribot escale, 304：Ndioum Ngainth, 305：Delby, 306：Ndiot�, 307：Sagna, 308：malem hoddar, 309：malem thi�rign, 310：mb�nt�ki, 311：nguekhokh1, 312：wardiakhal, 313：mbouleme, 314：s�ane, 315：DAROU rahmane, 316：Ngare serigne madieng, 317：keur madieng, 318：ngick, 319：ngoloum signane, 320：nguelou, 321：Darou keur Balla, 322：KEUR MAMOUR SECK, 323：LATMINGU�, 324：keur Omar bambara, 325：keur ablaye sow, 326：keur ta�ba wolof, 327：Diam Sira, 328：Diamaguene, 329：keur soce, 330：Taiba niangu�ne, 331：keur Aly diango, 332：Diama Passy, 333：Ngayene Sabakh, 334：loyenne, 335：keur abdou boury, 336：Gainte Kaye, 337：FASS KEUR SERIGNE MBAYE, 338：bowe, 339：thiamene dioco, 340：wack ngouna, 341：Baff Ngoy�, 342：Gassane, 343：Gassane Ndaw�ne, 344：Gassane peulh, 345：Guelod� diop, 346：Touba Gassane, 347：bamba, 348：bamba thialene, 349：darou diawene, 350：fass ndimbelane, 351：massemb�, 352：malem niani, 353：Darou Nahim, 354：Dioguel Bouly, 355：MEDINA PETEL, 356：NDAKAR, 357：Nayome wilanene, 358：Payar, 359：Sinthiou boulel, 360：dioukel bouli, 361：payar, 362：SISSIS, 363：Sandiara, 364：loudly Beteigne, 365：souk eme, 366：S�ssene, 367：Thiadiaye sereer, 368：keur koss�ne, 369：thiadiaye, 370：thiadiaye, 371：walo, 372：TASSETE, 373：keur mbaye seny, 374：KEUR YORO SADIO, 375：KHAYBABAL, 376：NDiNDI ANE, 377：THIANABA, 378：THIAWARE, 379：keur thiaphe, 380：Thylla ount�, 381：gade khaye, 382：keur mbaye sall, 383：thiathiao, 384：touba toul, 385：Ch�rif Lo x, 386：Ch�rif Lo y

[5] c1s1_8: C1.8. Which crops were planted on %parcelroster_s1% during %season1%?
Categories: 501：MAIZE, 502：RICE (UPLAND), 503：RICE (LOWLAND), 504：SORGHUM, 505：MILLET, 506：PEANUT, 507：SESAME, 508：COWEYED PEA, 509：BISSAP, 510：SWEET POTATO, 511：ORANGE SWEET POTATO, 512：POTATO, 513：TOMATO, 514：ONION, 515：PEPPERS, 516：EGGPLANT, 517：CUCUMBER, 518：CARROT, 519：RADISH, 520：TURNIP, 521：CABBAGE, 522：LEAFY VEGETABLES, 523：PUMPKIN, 524：SQUASH, 525：GREEN BEANS, 526：SOYBEANS, 999：OTHER, SPECIFY

[6] c1s1_8b: C1.8b. Which of these crops were intercropped?
Categories: 501：MAIZE, 502：RICE (UPLAND), 503：RICE (LOWLAND), 504：SORGHUM, 505：MILLET, 506：PEANUT, 507：SESAME, 508：COWEYED PEA, 509：BISSAP, 510：SWEET POTATO, 511：ORANGE SWEET POTATO, 512：POTATO, 513：TOMATO, 514：ONION, 515：PEPPERS, 516：EGGPLANT, 517：CUCUMBER, 518：CARROT, 519：RADISH, 520：TURNIP, 521：CABBAGE, 522：LEAFY VEGETABLES, 523：PUMPKIN, 524：SQUASH, 525：GREEN BEANS, 526：SOYBEANS, 999：OTHER, SPECIFY

[7] c1tps1_2: C1.2. Which trees / permanent crops were harvested from %parcelroster_s1% between %seasontp%?
Categories: 527：WATERMELON, 528：BANANA, 529：PLANTAIN, 530：MANGO, 531：PINNEAPLE, 532：PAPAYA, 533：GUYAVA, 534：ORANGE, 535：LEMON, 536：LIME, 537：APPLE, 538：COCONUT, 539：POMEGRANADE, 540：TANGERINE, 541：CHERRY, 542：MADD/JUJUBE/SOUMP, 543：DITAKH, 544：DIMB, 545：KINKELIBA, 546：HENNA, 599：OTHER, SPECIFY

[8] c1s2_8: C1.8. Which crops were planted on %parcelroster_s2% during %season2%?
Categories: 501：MAIZE, 502：RICE (UPLAND), 503：RICE (LOWLAND), 504：SORGHUM, 505：MILLET, 506：PEANUT, 507：SESAME, 508：COWEYED PEA, 509：BISSAP, 510：SWEET POTATO, 511：ORANGE SWEET POTATO, 512：POTATO, 513：TOMATO, 514：ONION, 515：PEPPERS, 516：EGGPLANT, 517：CUCUMBER, 518：CARROT, 519：RADISH, 520：TURNIP, 521：CABBAGE, 522：LEAFY VEGETABLES, 523：PUMPKIN, 524：SQUASH, 525：GREEN BEANS, 526：SOYBEANS, 999：OTHER, SPECIFY

[9] c1s2_8b: C1.8b. Which of these crops were intercropped?
Categories: 501:MAIZE, 502:RICE (UPLAND), 503:RICE (LOWLAND), 504:SORGHUM, 505:MILLET, 506:PEANUT, 507:SESAME, 508:COW E
YED PEA, 509:BISSAP, 510:SWEET POTATO, 511:ORANGE SWEET POTATO, 512:POTATO, 513:TOMATO, 514:ONION, 515:PEPPERS, 516:
EGGPLANT, 517:CUCUMBER, 518:CARROT, 519:RADISH, 520:TURNIP, 521:CABBAGE, 522:LEAFY VEGETABLES, 523:PUMPKIN, 524:SQU
ASH, 525:GREEN BEANS, 526:SOYBEANS, 999:OTHER, SPECIFY

[10] c1tps2_2: C1.2. Which trees / permanent crops were harvested from %parcelroster_s2% between %seasontp%?
Categories: 527:WATERMELON, 528:BANANA, 529:PLANTAIN, 530:MANGO, 531:PINNEAPLE, 532:PAPAYA, 533:GUYAVA, 534:ORANGE, 535
:LEMON, 536:LIME, 537:APPLE, 538:COCONUT, 539:POMEGRANADE, 540:TANGERINE, 541:CHERRY, 542:MADD/JUJUBE/SOUMP, 543:D
ITAKH, 544:DIMB, 545:KINKELIBA, 546:HENNA, 599:OTHER, SPECIFY

[11] c1tp_2: C1.2. Which trees / permanent crops were harvested from %parcelroster_tp% between %seasontp%?
Categories: 527:WATERMELON, 528:BANANA, 529:PLANTAIN, 530:MANGO, 531:PINNEAPLE, 532:PAPAYA, 533:GUYAVA, 534:ORANGE, 535
:LEMON, 536:LIME, 537:APPLE, 538:COCONUT, 539:POMEGRANADE, 540:TANGERINE, 541:CHERRY, 542:MADD/JUJUBE/SOUMP, 543:D
ITAKH, 544:DIMB, 545:KINKELIBA, 546:HENNA, 999:OTHER, SPECIFY

[12] chg_16: CHG.16. Which of the following crops that you harvested between %ag_refperiod% from your homegarden's did you sell?
Categories: 100:CASSAVA, 199:OTHER PERENNIAL TUBER / VEGETABLE, SPECIFY, 200:COFFEE, 201:TEA, 202:RUBBER, 299:OTHER PE
RENNIAL NON-FOOD CASH CROP, SPECIFY, 300:BANANA, 301:PLANTAIN, 302:MANGO, 303:PINEAPPLE, 304:JACK FRUIT, 305:PAPAYA, 30
6:GUAVA, 307:ORANGE, 308:LEMON, 309:LIME, 310:APPLE, 311:COCONUT, 312:PASSION FRUIT, 313:POMEGRANATE, 314:MANDARINE,
315:CERISE, 316:MADD/JUJUBE/SOUMP, 317:DITAKH, 318:DIMB, 319:KINKELIBA, 320:HENNA, 399:OTHER PERENNIAL FRUIT, SPECIFY,
400:MACADAMIA NUT, 401:CASHEW NUT, 499:OTHER PERENNIAL NUTS, SPECIFY, 500:MAIZE, 501:WHEAT, 502:RICE, 503:SORGHUM, 50
4:MILLET, 506:BARLEY, 599:OTHER GRAIN, SPECIFY, 600:SOYBEAN, 601:CHICK PEA, 602:NIEBE, 603:BEAN, 604:PEA, 605:LENTIL, 699:
OTHER PULSE, SPECIFY, 700:GROUNDNUT, 701:SESAME, 799:OTHER NUT / OIL SEED, SPECIFY, 800:SWEET POTATO, 801:POTATO, 899
:OTHER TUBER, SPECIFY, 900:TOMATO, 901:ONION, 902:PEPPER, 903:EGGPLANT, 904:CUCUMBER, 905:CARROT, 906:RADISH, 907:T
URNIP, 908:CABBAGE, 909:BISSAP FLOWER, 910:BISSAP LEAVES, 911:PUMPKIN, 912:GOURD/SQUASH, 913:GREEN/FRENCH BEANS, 99
9:OTHER VEGETABLES, SPECIFY, 950:TOBACCO, 951:COTTON, 952:SUGAR CANE, 959:OTHER CASH CROP, SPECIFY

[13] chg_3: CHG.3. Which crops were planted on this homegarden %rostertitle% between %ag_refperiod%?
Categories: 527:WATERMELON, 528:BANANA, 529:PLANTAIN, 530:MANGO, 531:PINNEAPLE, 532:PAPAYA, 533:GUYAVA, 534:ORANGE, 535
:LEMON, 536:LIME, 537:APPLE, 538:COCONUT, 539:POMEGRANADE, 540:TANGERINE, 541:CHERRY, 542:MADD/JUJUBE/SOUMP, 543:D
ITAKH, 544:DIMB, 545:KINKELIBA, 546:HENNA, 501:MAIZE, 502:RICE (UPLAND), 503:RICE (LOWLAND), 504:SORGHUM, 505:MILLET, 506:
PEANUT, 507:SESAME, 508:COW EYED PEA, 509:BISSAP, 510:SWEET POTATO, 511:ORANGE SWEET POTATO, 512:POTATO, 513:TOMATO
, 514:ONION, 515:PEPPERS, 516:EGGPLANT, 517:CUCUMBER, 518:CARROT, 519:RADISH, 520:TURNIP, 521:CABBAGE, 522:LEAFY VEG
ETABLES, 523:PUMPKIN, 524:SQUASH, 525:GREEN BEANS, 526:SOYBEANS, 999:OTHER, SPECIFY

[14] chg_8: CHG.8. What type of inorganic fertiliser was used in this homegarden %rostertitle%?
Categories: 1:DI AMMONIUM PHOSPHATE (DAP), 2:FOLIAR, 3:UREA, 4:AMMONIUM SULPHATE, 5:CALCIUM AMMONIUM NITRATE, 6:TRIPLE
SUPER PHOSPHATE, 7:Mono Ammonum Phosphat (MAP), 8:CALCIUM NITRATE, 9:POTASSIUM NITRATE, 10:NPK 15:30:15, 11:NPK 15:15:30,
12:NPK 20:20:20, 13:NPK 12:6:36, 14:NPK 12:1:43..14 CALBORON, 15:METAPHASE, 16:NEUTROLEAF, 999:Other

[15] o1_4: O1.4. What did your household do in response to the shock?
Categories: 1:RELIED ON OWN-SAVINGS, 2:RECEIVED HELP FROM RELATIVES/FRIENDS, 3:RECEIVED UNCONDITINAL HELP FROM GOVE
RNMENT, 4:RECEIVED 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 WOR
KING HAD TO FIND WORK, 8:HOUSEHOLD MEMBERS MIGRATED, 9:REDUCED EXPENDITURES ON HEALTH AND/OR EDUCATION, 10:OBTA
INED CREDIT, 11:SOLD AGRICULTURAL ASSETS, 12:SOLD DURABLE ASSETS, 13:SOLD LAND/BUILDING, 14:SOLD CROP STOCK, 15:SOL
D LIVESTOCK, 17:SENT CHILDREN TO LIVE ELSEWHERE, 18:ENGAGED IN SPIRITUAL EFFORTS -PRAYER, SACRIFICES, DIVNER CONSULT
ATIONS, 19:DID NOT DO ANYTHING, 999:OTHER (SPECIFY)

[16] o1_4oth: O1.4oth. What did your household do in response to the shock?
Categories: 1:RELIED ON OWN-SAVINGS, 2:RECEIVED HELP FROM RELATIVES/FRIENDS, 3:RECEIVED UNCONDITINAL HELP FROM GOVE
RNMENT, 4:RECEIVED 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 WOR
KING HAD TO FIND WORK, 8:HOUSEHOLD MEMBERS MIGRATED, 9:REDUCED EXPENDITURES ON HEALTH AND/OR EDUCATION, 10:OBTA
INED CREDIT, 11:SOLD AGRICULTURAL ASSETS, 12:SOLD DURABLE ASSETS, 13:SOLD LAND/BUILDING, 14:SOLD CROP STOCK, 15:SOL
D LIVESTOCK, 17:SENT CHILDREN TO LIVE ELSEWHERE, 18:ENGAGED IN SPIRITUAL EFFORTS -PRAYER, SACRIFICES, DIVNER CONSULT
ATIONS, 19:DID NOT DO ANYTHING, 20:OTHER (SPECIFY)

# APPENDIX E — VARIABLES

[1] std_harvest_crop_tp:

parcelroster_tp.Where(x=>x.c1tp_2!=null && x.c1tp_2.Contains(@rowcode)).Sum(p=>p.plotcrop_tp[@rowcode].stand_harvesttp) +
parcelroster_s1.Where(x=>x.c1tps1_2!=null && x.c1tps1_2.Contains(@rowcode)).Sum(p=>p.plotcrop_tps1[@rowcode].stand_harvesttps1) +
parcelroster_s2.Where(x=>x.c1tps2_2!=null && x.c1tps2_2.Contains(@rowcode)).Sum(p=>p.plotcrop_tps2[@rowcode].stand_harvesttps2)

# APPENDIX F — CATEGORIES FILTERS

[1] c3s1_3a: C3.3a. When did you finish planting for %rostertitle% on %parcelroster_s1% during %season1%?
@optioncode>=start_agrefperiod_s1.Value.Month || @optioncode<=end_agrefperiod_s1.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add Months that are before/after this season. Depends on your definition of season //E.g. Only interest in those crops that have been planted AND harvested within seasonx?

[2] c3s1_7a: C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_s1% during %season1%?
@optioncode>=start_agrefperiod_s1.Value.Month || @optioncode<=end_agrefperiod_s1.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add Months that are before/after this season. Depends on your definition of season //Only interest in those crops that have been planted AND harvested within seasonx?

[3] c3s2_3a: C3.3a. When did you finish planting for %rostertitle% on %parcelroster_s2% during %season2%?
@optioncode>=start_agrefperiod_s2.Value.Month || @optioncode<=end_agrefperiod_s2.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add Months that are before/after this season. Depends on your definition of season //E.g. Only interest in those crops that have been planted AND harvested within seasonx?

[4] c3s2_7a: C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_s2% during %season2%?
@optioncode>=start_agrefperiod_s2.Value.Month || @optioncode<=end_agrefperiod_s2.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add Months that are before/after this season. Depends on your definition of season //Only interest in those crops that have been planted AND harvested within seasonx?

[5] c3tp_7a: C3.7a. When did you finish harvesting %rostertitle% from %parcelroster_tp% during %seasontp%?
@optioncode>=start_agrefperiod_tp.Value.Month || @optioncode<=end_agrefperiod_tp.Value.Month /// Makes sure that only the months of your reference period are listed. // Check if you want to add Months that are before/after this season. Depends on your definition of season //Only interest in those crops that have been planted AND harvested within seasonx?

[6] l1_6b: L1.6a. In which month was the loan from %l1_3% contracted?
l1_6a<IntYear || @optioncode<=IntMonth || @optioncode==888 //Lists all months if not within year of interview. Otherwise list only those months of the Interview Year //that have passed already and always 888 option

# *LEGEND*

## Legend and structure of information in this file

**Name of section**

**Enabling condition for this section**

**Type of question, scope**

**Variable name**

**Question title**

**Answer options**

## SECTION 5: OTHER INCOME SOURCES
E s4_other_sources_which.Contains(98)

**Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur?**

I  This refers to family relations
E  s3_time_other > 0
V1 s4_rel_leaders_which.Contains(98)
M1 Can not be itself
V2 (s3_time_other_breeding_advice <= (50 - s3_time_art_in-sem_advice)) ||s3_time_other_breeding_advice == 0
M2 This person is not in the list
F  optioncode != s5_ignored_option_code

MULTI-SELECT
SCOPE: PREFILLED

s4_rel_leaders_other

01 ☐ **Community animal health workers**

02 ☐ **Private**

03 ☐ **Government**

04 ☐ **Livestock keepers association**

05 ☐ **NGO**

And 5 other [13]

**Additional information:**
"I" — Question instruction
"E" — Enabling condition
"V1" — Validation condition №1
"M1" — Message for validation №1
"F" — Filter in Categorical questions

**Link to full set in appendix**

**Breadcrumbs**

**Type or roster**

**Roster Title**

CHAPTER 3 IDENTIFICATION /
*Roster*: LEADER RELATION DETAILS
generated by fixed list:

01 **Ward Livestock Officer**

02 **Village Livestock Officer**

99 **Other (specify)**

**List items**