**Research Questionnaire**

**General information**

Region -------------------- District/ Community -----------------------------

Agro-ecological zone ---------------------- Name of village/town --------------------------

Language for the interview -----------------------

**Section A: Socio-demographic characteristics**

A/1 name of farmer.............................................. Tel/ Address....................................................

A/2 relationship with the household head.....................................................................................

A/3 age of the farmer ----------------------- A/4 level of education ........................(years)

A/5 gender......... (1) Male (0) female A/6 ethnic group................. A/7 religion..................

A/8 status in the community ...................... (1) Chief (2) member (3) migrant (4) other (specify)

A/9 family type...................... (1) nuclear (2) extended (3) other (specify)

A/10 family type............... (1) polygamous (2) monogamous (3) other specify

A/11 size of the household (number of persons under your care) -----------------------

A/12 Occupation: Please state the occupation(s) you are engaged in

|  |  |
| --- | --- |
| Primary occupation | 1. |
| Secondary Occupation | 2. |
| Other occupations | 3. |

A/13 which farmer-based organization (s) have you worked with and for how long and the kind of relationship?

**Institutions How long (in years) Type of relationship (multiple response allowed)**

1…………………………..……[…………………] ……/………/……/……../…../……../……

2…………………………..……[…………………] ……/………/……/……../…../……../……

***Codes types of working relations****: 1. Ploughing services 2. Input credit (seeds, fertilizer, herbicides, etc.) 3. Cash credit 4. Provision of farm equipment 5. Sale of farm produce 6. Extension services. 7. Other (specify).* ………………………..

**Section B: Perception and awareness of local climate and subjective assessment**

B/1 How do you feel about the trend of the following climatic conditions in the last 20 years in your area?

|  |  |  |
| --- | --- | --- |
|  | **Climate variable** | **Perception** |
| (a) | Amount of rainfall | Increasing [ ] | Decreasing [ ] | No change [ ] | I don’t know [ ] |
| (b) | Temperature | Increasing [ ] | Decreasing [ ] | No change [ ] | I don’t know [ ] |

B/2 Household Subjective rainfall satisfaction

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Subjective rainfall satisfaction**  | Yes = 1 | No = 0 |
| a | Did the rainfall come on time? |  |  |
| b | Was there enough rain on your fields at the **beginning of the rainy** seasons? |  |  |
| c | Was there enough rain on your fields **during the growing** seasons? |  |  |
| d | Did the **rains stop on time** on your fields?  |  |  |
| e | Did it **rain during the harvest** periods? |  |  |

***Rainfall Variability***

B/3 How was the rainfall condition this year? 1 [ ] Good 2. [ ] Normal 3. [ ] Bad

B/4. For this locality, when is a rainfall condition referred as bad season/ year?

 1. [ ] When the rain comes very late,

2. [ ] When the rain stops very early,

3. [ ] When there is long dry spell between during planting *(April/May & July)*,

4. [ ] When the annual rainfall is very low,

5. [ ] When the annual rainfall is very high.

B/5. Subjective probability (past ten years)

Between the periods 2005 and 2015, how many years were Good, Normal and Bad? ……………………….

|  |  |  |
| --- | --- | --- |
| Rainfall Condition | Number of Years | Which year is a typical example of the condition? |
| 1. Good
 |  |  |
| 1. Normal
 |  |  |
| 1. Bad
 |  |  |
| Total | 10 |  |

B/6. Please indicate the *level of vulnerability* of your crop to climate variability and change

|  |  |
| --- | --- |
| **Vulnerability**  | **Level of vulnerability** |
| Not vulnerable at all (1) | Moderately vulnerable (2) | Highly vulnerable (3) |
| B/7 Based on experience and observation how do you feel about the level of susceptibility of your crop farming to experience climatic problems you indicated? |  |  |  |
|  | Not harmful at all (1) | Moderately harmful (2) | extremely harmful (3) |
| B/8 Based on experience and observation how do you feel about the level of harm/damage that your crops could face/currently exposed to due to the climatic problems you indicated? |  |  |  |

B/9 What is the distance to the nearest source of drinking water for the household? …………………… km

B/10 What is the nearest source of water for your livestock? ………………………….. …………km

**Section C: SLM strategies**

C/1. Do you take measures to adapt to the changing weather/climate? 1. Yes [ ] 2. No [ ]

C/2. Which of the following methods in agricultural sector have you used before to respond to climate change/variability?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **SLM strategy** | Yes =1 | No = 0 | Plot size |
| **Irrigation and water strategies** |  |
| a | Watering crops during drought/dry spells |  |  |  |
| b | Practicing irrigation during the dry season |  |  |  |
| c | Other ……………………………………………………………….  |  |  |  |
| **Crop choice and changing plating date** |  |
| a | Using early maturing /drought resistant varieties |  |  |  |
| b | Changing planting date |  |  |  |
| c | Changing crops |  |  |  |
| e | Other ……………………………………………………………… |  |  |  |
| **Soil conservation strategies** |  |
| a | Cover cropping |  |  |  |
| b | Crop rotation |  |  |  |
| C | Zerro-tillage/conservation agriculture |  |  |  |
| D | Zai technology |  |  |  |
| E | Application of manure (FYM, Compost, etc) |  |  |  |
| f | Erosion control measures (stone bonds, terracing, Earth bunds) |  |  |  |
| e |  |  |  |  |
|  |  |  |  |  |

*[Extent of use: 1 = <20% of farm, 2 = 21-40%, 3 = 41-60%, 4 =61-80%, 5 = >80% of cultivated land]*

C/3. Which adaptation method/s did you use or still use?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Adaptation strategies**  | Yes =1 | No = 0 | Plot size |
| **Irrigation and water strategies** |  |
| a | Watering crops during drought |  |  |  |
| b | Practicing irrigation during the dry season |  |  |  |
| c | Rain water harvesting for crop production |  |  |  |
| d | Other …………………………………………………………….  |  |  |  |
| **Crop choice and changing plating date** |  |
| a | Using modern varieties/drought resistant varieties |  |  |  |
| b | Changing planting date |  |  |  |
| c | Changing crops |  |  |  |
| d | Stopping crop production |  |  |  |
| e | Other …………………………………………………………… |  |  |  |
| **Soil conservation strategies** |  |
| a | Cover cropping |  |  |  |
| b | Crop rotation |  |  |  |
| c | Application of manure (FYM, Compost, etc) |  |  |  |
| d | Erosion control measures (stone bonds, terracing, etc) |  |  |  |
| e | Other ………………………………………………………. |  |  |  |

*[Extent of use: 1 = <20% of farm, 2 = 21-40%, 3 = 41-60%, 4 =61-80%, 5 = >80% of cultivated land]*

C/4. How do you rate the effectiveness of the different adaptation strategies in helping to reduce farming problems associated with climate change/variability? [*Please tick/ circle the appropriate response*]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SLM strategies**  | Highly Ineffective (1) | Ineffective (2) | Can’t tell(3) | Effective (4) | Highly effective(5) |
| **Irrigation and water strategies** |  |  |  |
| a | Watering crops during drought |  |  |  |  |  |
| b | Practicing irrigation during the dry season |  |  |  |  |  |
| c | Rain water harvesting for crop production |  |  |  |  |  |
| d | Other ………………………….  |  |  |  |  |  |
| **Crop choice and changing plating date** |  |  |  |
| a | Using modern varieties/drought resistant varieties |  |  |  |  |  |
| b | Changing planting date |  |  |  |  |  |
| c | Changing crops |  |  |  |  |  |
| d | Stopping crop production |  |  |  |  |  |
| e | Other ………………………… |  |  |  |  |  |
| **Soil conservation strategies** |
| a | Cover cropping |  |  |  |  |  |
| b | Crop rotation |  |  |  |  |  |
| c | Application of manure (FYM, Compost, etc) |  |  |  |  |  |
| d | Erosion control measures (stone/soil bunds, terracing, etc) |  |  |  |  |  |
| e | Zai method |  |  |  |  |  |
| f | Other …………………………… |  |  |  |  |  |

***State of implementation of adaptation measures***

C/5. What is the status of the implementation of the following measures on your farm/plot? *[code: 1 = Not implemented, 0 = Not implemented]*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Activity | Status of Implementation  | Year first implemented |
| (a) | Changing planting dates |  |  |
| (b) | Staggering of planting of crops |  |  |
| (c) | Using different crop varieties  |  |  |
| (d) | Use of drought resistant varieties  |  |  |
| (e) | Increased soil/water conservation techniques |  |  |
| (f) | Water harvesting  |  |  |
| (g) | Diversifying into non-farming activities |  |  |
| (h) | Increased use of irrigation |  |  |
| (i) | Planting trees |  |  |
| (j) | Increased use of fertilizer |  |  |
| (k) | Other …………………………….. |  |  |

Constraints to Adoption of SLM strategies

C/6 complete the table below on the constraints you face in your adaptation operations (table 2)

|  |  |  |  |
| --- | --- | --- | --- |
|   | Yes/No | If yes, *please rank* | Comment |
| **Adoption Constraints** |   |   |   |
| Small land size |   |   |   |
| Poor usufruct property rights (ownership) on land  |   |   |   |
| Poor Quality of seed |   |   |   |
| Inadequate training/demonstrations |  |  |  |
| Limited access to markets |   |   |   |
| Lack of technical skills |  |  |  |
| **Irrigation Water management at plot level** |   |   |   |
| Difficult to access water/no irrigation facility |   |   |   |
| Difficult to manage water  |   |   |   |
| High cost of water fees |   |   |   |
| High cost of irrigation accessories |  |  |  |
| **Credit** |   |   |   |
| Non- availability of credit |   |   |   |
| High interest rate charges on credit |   |   |   |
| Delays in acquiring credit |   |   |   |
| Difficult to repay credit |   |   |   |
| **Extension services** |   |   |   |
| Unavailability of extension services  |   |   |   |
| Lack of effectiveness |   |   |   |
| Long distance to the extension workers |   |   |  |
| **Climate/weather information** |  |  |  |
| Unpredictable weather |  |  |  |
| Lack of access to information about right time to sow |  |  |  |
| Lack of access to information about right time to harvest |  |  |  |

*Yes = 1, No = 0, Ranking codes: 1=High; 2= Medium; 3= Low; 0= Not exist*

*NB: Use code 99 where farmer(s) knows nothing on the characterist**ic referred to (99= don’t know)*

**Section D: Land holding and farming related activities**

D/1 Please indicate the crop you cultivate, share of land and the purpose of crops cultivated by completing the following table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop  | Variety | Share of total land Area  | Purpose  | remarks |
| Maize |  |  |  |  |
| Rice  |  |  |  |  |
| Millet |  |  |  |  |
| Sorghum |  |  |  |  |
| Groundnut |  |  |  |  |
| Cowpea/beans |  |  |  |  |
| Yam/cassava |  |  |  |  |
| Vegetables (pepper, tomato, etc.) |  |  |  |  |
| Other crops: specify |  |  |  |  |
| Etc. |  |  |  |  |
| **Total\***  | 10 |  |  |

*[Purpose: 1 = food, 2 = sale, 3= both]*

*[Variety: 1 = local variety. 2 = high yielding variety, 3 = drought resistant variety, 4 = Don’t know]*

\*total: total share of land area out of ten (10).

D/2 Please indicate the annual output of crops and the corresponding plot sizes over the past 5 years in the following table:

|  |  |
| --- | --- |
|  | Crop production in Bags/kg |
| NO | Year | Maize  | Rice | Millet/sorghum | G’nut | Cassava/yam | Other crop…………… | Total plotsno. | Total plotsizeha |
| Plot size/ha | Yield/ kg | Plot size/ha | Yield/ kg | Plot size/ha | Yield/ kg | Plot sizeha | Yield/ kg | Plot size/ha | Yield/ kg | Plot size/ha | Yield/ kg |
| 1 | 2011 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2012 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2013 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 2014 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2015 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

D/3 How large is your farm land (acres)? …………………………………..

D/4 How many plots of farm land do you have ? ………………………….

D/5 How did you acquire the farm land? (1) owner [>> D/10] (2) Inheritance (3) purchase (4) tenant (5) others (specify)

D/6 If tenant, what type of tenancy arrangement do you operate? ................................. (1) fixed rent *[>>D/7]*

 (2) share cropping *[>>D/8]* (3) other (specify) *[>>D/9]*………………………………………………..

D/7 If fixed rent, what is the duration of tenure? ........................................ (years)

D/8 If share cropping, what are the terms this rent? ........................................................................................

D/9 Please provide other additional information about the tenancy arrangement (if any)............................... ..........................................................................................................................................................................

D/10 if land owner; do you sometimes lease out part of your land? 1 yes [ ] 2 No [ ]

D/11 If yes, what size of your land is currently under lease/rented out? -------------------------- (ha)

D/12 do you keep some part of your land under fallow? 1 yes [ ] 2 No [ ]

D/13 if yes to “D/12”, for how long? .......................... (years). Size of land under fallow ………… ha.

D/14 The relative slope of the land is 1 [ ] Plain 2. [ ] gentle slope 3. [ ] Hilly

D/15. The relative fertility of the farmland is 1. [ ] Fertile 2. [ ] Moderately fertile 3. [ ] Less fertile 4. [ ] Infertile

D/16. Does the household practice irrigation? 1. [ ] Yes 2. [ ] No *(>> D/15)*

D/17 If yes to D/16, how many plots of your farmland is covered by irrigation? ---------------------- ha

D/18. If yes to Q/16, how many hectares of your farmland is covered by irrigation? ------------------ ha

D/19 What is the nearest source of water for irrigation (if any)? ……………………………………… km

**Section E: Labour use**

E/1What type of labour do you use on your farm (1) family (2) Hired labour (3) Both (4) others (specify).........

E/2 How many members of your household work on your farm.........................................................................

E/3 How many of your household do not work on your farm................................ why?....................................

E/4 Did you use family labour on your farm in 2015? ........................... 1. Yes [ ] 2 No [ ]

E/5 If yes, to “E/4” for which operation (s).............................................................................

E/6 For how many days/ weeks/months did you engage family labour? …………………………………

E/7 Do you use hired labour? 1. Yes [ ] 2. No [ ]

 E/8 If yes to “E/7”, in which year did you start using hired labour on your farm...........................................

E/9 How often do you use hired labour? 1. Always 2. Sometimes 3. Rarely

E/10 Did you employ hired labour in 2015? ............................ 1. Yes [ ] 2. No [ ]

E/11. If yes to E/10, for which operation (s) ............................................................

E/12 If yes to E/10, how many people did you hire? ............................., for how many days? ..............................

E/13 what was the wage rate per day during 2015 season in this community?.....................................................

E/14 was the wage rate same for male and female? ------------------------- (1) yes (2) no

E/15 if no to E/14, what was the wage rate for a female worker during 2015 season? ---------------------------------

E/16 Do you face labour shortage during farming season? 1. Yes 2. No

E/17 If yes to “E/16” in which months (during which operations) do you experience the labour shortage most? ……………………………

**Section F: Livestock and assets ownership**

F/1 Please provide information on ownership of livestock in the table below

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a | What types of animals do you own? (tick)  | Cattle | Sheep | Goat | Pigs  | Chicken  | Guinea fowls | Others |
|  |  |  |  |  |  |  |
| b | On average how many do you have now? |  |  |  |  |  |  |  |
| c | On average how many did you sell/kill last year |  |  |  |  |  |  |  |
| d | How many more have you acquired this year? |  |  |  |  |  |  |  |
| e | Do you seek for veterinary services for them? (1=yes, 2=no) |  |  |  |  |  |  |  |

F/2: Please provide information about change in your stock of your livestock over the past 5 years in the following table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| NO | Year | Cattle | sheep | Goats  | Poultry (fowls, guinea fowls, etc) | pigs | Other (state) |
| 1 | 2011 |  |  |  |  |  |  |
| 2 | 2012 |  |  |  |  |  |  |
| 3 | 2013 |  |  |  |  |  |  |
| 4 | 2014 |  |  |  |  |  |  |
| 5 | 2015 |  |  |  |  |  |  |

F/ 3 Please complete the table below on the **asset owned by your household** (table 3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  Item/Asset | Is the asset available?  | if yes, please state the number available | year of purchase  | cost of purchase  | Price if you were to sell it now. GHS |
|  | Yes =1 | No = 2 |  |
| a |  Cutlass |   |   |   |   |   |  |
| b |  Hoe |   |   |   |   |   |  |
| c |  Knapsack |   |   |   |   |   |  |
| d | Irrigation pump/kit |  |  |  |  |  |  |
| e |  Radio |   |   |   |   |   |  |
| f | Mobile phone |  |  |  |  |  |  |
| g |  Television |   |   |   |   |   |  |
| h |  Bicycle |   |   |   |   |   |  |
| i |  Motorcycle |   |   |   |   |   |  |
| j |  Car/Moto-King/kia |   |   |   |   |   |  |
| k |  Bullock/Donkey |   |   |   |   |   |  |
| l |  Tractor |   |   |   |   |   |  |
| m |  Mechanized sheller |   |   |   |   |   |  |
| n |  House  |   |   |   |   |   |  |
| o | Other ……………. |  |  |  |  |  |  |

**Section G: Income, Cash and Credit sourcing**

G/1. Indicate the income source(s) of the household (you mention/**tick** more than one if necessary)

[ ] 1. Crop sale [ ] 2. Livestock sale [ ] 3. Non-farm activities (state ……………….)

[ ] 4. Aid from relatives/friends [ ] 5. Other (state ……………………………………….)

G/2. Which is the major source of the Household income from the sources you indicated above in question G/1

[ ] 1. Crop sale [ ] 2. Livestock sale [ ] 3. Non-farm activities (state …………….)

[ ] 4. Aid from relatives/friends [ ] 5. Other (state …………………………………….)

G/3. Please indicate the annual income you earn from the following sources:

|  |  |  |
| --- | --- | --- |
|  | **Source of income**  | **Amount/GHS** |
| a | Annual income from sale of farm produce/crops |  |
| b | Annual income from sale of livestock |  |
| c | Annual income from non-farm activities |  |
| d | Gifts and remittances |  |
| e | Other, NGO/Gov’t |  |

G/4 what is the average monthly cash income of your household from farming (crops and livestock)

(1)<100 GHS (2) 101 – 300 GHS (3) 301 -500 GHS (4) 501 - 1,000 GHS (5) > 1,000 GHS

G/5 what is the average monthly cash income of your household from non-farming including other business, donations, gifts and remittances?

 (1)<100 GHS (2) 101 – 300 GHS (3) 301 -500 GHS (4) 501 - 1,000 GHS (5) > 1,000 GHS

G/6 If you suddenly need money where do you turn to?.....................................................................................

G/7 What is the average amount of money you can get from this source?..........................................................

G/8 Do you source credit to finance your farm operations?.. 1. [ ] yes 2. [ ] no

G/9 If no, please state the reasons for not sourcing credit? ..................................................................................

G/10 If yes to G/8, please indicate name of credit gency.............................................................................................

G/11 Mention other sources of finance for your farm operations ...............................................................

G/12 Did you source credit for your farm business in the 2015 farming season? -------- (1) yes (2) no

G/13 Are you aware of other farming credit sources in your locality? ----- 1 [ ] yes 2 [ ] no

G/14 if yes to G/13, please name them...........................................................................................................................

G/15 Have you sourced credit from them before?.........1 [ ] Yes 2 [ ] No. *[if no go to G/18]*

G/16 if “yes”, do you still source credit from them and why?.........................................................................

G/17 has your loan application ever been rejected? -------- (1) yes (2) no

G/18 Did you buy any input on credit during the 2015 season? -------- (1) yes (2) no.

G/19 If yes list the inputs ­..................................................................................................................................

G/20 If yes, what were the terms of the credit? 1. [ ] repay in cash 2 [ ] repay with farm produce 3 [ ] repay with cash and farm produce 4 [ ] other (specify) ---------------------------------

G/21 Did you repay with interest.................... 1 [ ] yes 2 [ ] no

G/22 If yes what was the interest rate? ....................(% p.a.)

G/23 What was the average repayment period? ...............................months

G/24 Please provide your credit history in the table below (if any)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Source of credit | Year | Amount (GHS) | Interest rate | Purpose | Repayment Duration | Number of instalments  | instalment amount |
|   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |

**Section H: Produce Marketing and Farm revenues**

H/1 kindly provide information on how you market your farm produce (for 2015 season) in the table below

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type of produce |  please tick as appropriate | farm gate | Market | processed | Group/co-operative sale | middlemen |
| 1. | Quantity sold in kg |  |  |  |  |  |
| price/kg |  |  |  |  |  |
| 2. | Quantity sold in kg |   |   |   |   |   |
| price/kg |  |  |  |  |  |
| 3. | Quantity sold in kg |  |  |  |  |  |
| price/kg |  |  |  |  |  |
| 4. | Quantity sold in kg |  |  |  |  |  |
| price/kg |  |  |  |  |  |
| 5. | Quantity sold in kg |  |  |  |  |  |
| price/kg |  |  |  |  |  |
| 6. | Quantity sold in kg |  |  |  |  |  |
| price/kg |  |  |  |  |  |
| 7. | Quantity sold in kg |  |  |  |  |  |
| price/kg |  |  |  |  |  |

H/2 do you have written contract with your buyer(s)? (1) yes (2) no

H/3 if yes, for how long? ------------------------------- (years)

H/4 how does the buyer support you? 1 [ ] supply of seeds 2 [ ] provision of training

3 [ ] provision of credit service in kind or cash 4 [ ] any other please specify ----------------------

**Section J: Extension, Membership in social organizations, information access and others**

J/1 kindly provide information about extension visits in the table below

|  |  |  |  |
| --- | --- | --- | --- |
|   | Public | Private | NGO |
| extension visit (yes =1, no = 0) |   |   |   |
| frequency of visit\* |   |   |   |
| Meeting place\*\* |   |   |   |
| Distance extension office from meeting point (km) |   |   |   |

*\*(1) weekly (2) monthly (3) once in 6 months (4) once in a year (5) Never*

*\*\* (1) your farm (2) your house (3) farmers field school (4) others, specify*

J/2 Have you ever visited any extension office? --- (1) yes (2) no.

J/3 If yes to K/2, specify the purpose of the visit -------------------------------------

J/4 which of the following is the major source of information for your farming operations? (1) TV (2) Radio (3) news paper (4) extension agents (6) fellow farmers (7) farmers’ organisation others;

 please specify \_ \_ ­­­\_ \_ \_ \_ \_ \_ \_

J/5 Are you or any member of this household members of social organizations (eg. Co-operatives, youth group, FBO’s, etc.)? 1. [ ] yes 2. [ ] No

J/6 If your answer to question (J/5) is yes, mention the total number of organizations the household is a member. -------------------------------------------------------

J/7 How many relatives do you have the group you belong to? ---------------------------------------

J/8 How many of your neighbours do you know who belong to an association? --------------------------

J/9 Do you receive weather /climate information on regular basis? 1. [ ] Yes 2. [ ] Yes

J/10 From who do you receive climate information most of the time? 1. [ ] Radio/TV 2. SMS

3. [ ] Extension agent 4. [ ] Neighbours 5 [ ] Social organizations 6 [ ] other ………………

**Section K: risk, vulnerability and Household food and nutrition security status**

K/1 In the past 10 years has your household been affected by any of the following climatic conditions? [*Please indicate with a tick*]

|  |  |  |
| --- | --- | --- |
|  | **Climatic condition** | **Yes**  |
| a | Drought |  |
| b | Flood |  |
| c | Shortage of rainfall |  |
| d | Failure in the timing of rain |  |
| e | Excessive rainfall |  |
| f | Other ……………………. |  |

K/2 Have you ever encountered crop failure (in the past ten years)? 1. Yes [ ] 2. No [ ]

K/3 If yes, how many years (seasons) has it happened to you in the past 10 years? ……………………….

K/4 What was the reason reason(s) for the crop failure? ………………………………………………………………..

………………………………………………………………………………………………………………

K/5 The average amount of grain consumption of the household in bowls/kg/Olonka is ---------------

K/6. For how many months does your own farm production currently last to meet the food requirements of the family? 1. [ ] ≤3 months 2. [ ] 4-6 months 3. [ ] 7-9 months 4. [ ] 10-11 months 5. [ ] ≥ 12 months.

K/7. If your answer to question K/6 is from **1 to 4**, what is the major reason for your inability to meet the annual food requirements of the household? -------------------------------------------------------------------------------------------

K/8 Do you currently receive food aid (financial support, eg LEAP[[1]](#footnote-1)) from government/NGO’s?

1 [ ] Yes 2. [ ] No

K/9. If yes to k/8, indicate how many years you have been receiving the aid ……………… years

**Section L: Household Food Insecurity Access Scale (HFIAS) Measurement Tool**

L/1 Please answer the following questions in your capacity as the person responsible for food provision/preparation in the household in the past 4 weeks/one month.

|  |  |  |  |
| --- | --- | --- | --- |
| NO | QUESTION | RESPONSE OPTIONS | CODE\* |
| 1. | In the past four weeks, **did you worry** that your household would **not have enough food**? | 0 = No (skip to Q2)1=Yes | ….| | |
| 1.a | How often did this happen? |  | ….| | |
| 2. | In the past four weeks, were you or any household member **not able to eat the kinds of foods you preferred** because of a lack of resources? | 0 = No (skip to Q3)1=Yes | ….| | |
| 2.a | How often did this happen? |  | ….| | |
| 3. | In the past four weeks, did you or any household member have to **eat a limited variety of foods** due to a lack of resources? | 0 = No (skip to Q4)1 = Yes | ….| | |
| 3.a | How often did this happen? |  | ….| | |
| 4. | In the past four weeks, did you or any household member have to **eat some foods that you really did not want to eat** because of a lack of resources to obtain other types of food? | 0 = No (skip to Q5)1 = Yes | ….| | |
| 4.a | How often did this happen? |  | ….| | |
| 5. | In the past four weeks, did you or any household member have to **eat a smaller meal than you felt** you needed because there was not enough food? | 0 = No (skip to Q6)1 = Yes | ….| | |
| 5.a | How often did this happen? |  | ….| | |
| 6. | In the past four weeks, did you or any other household member have to **eat fewer meals in a day** because there was not enough food? | 0 = No (skip to Q7)1 = Yes | ….| | |
| 6.a | How often did this happen? |  | ….| | |
| 7. | In the past four weeks, **was there ever no food to eat** of any kind in your household because of lack of resources to get food? | 0 = No (skip to Q8)1 = Yes | ….| | |
| 7.a | How often did this happen? |  | ….| | |
|  8. | In the past four weeks, did you or any household member go to **sleep at night hungry** because there was not enough food? | 0 = No (skip to Q9)1 = Yes | ….| | |
| 8.a | How often did this happen? |  |  .| | |
| 9. | In the past four weeks, did you or any household member **go a whole day and night** without eating anything because there was not enough food? | 0 = No, 1 = Yes | ….| | |
| 9.a | How often did this happen? |  | ….| | |

*\* [Please use the Code 1 = Rarely (once or twice in the past four weeks), 2 = Sometimes (three to ten times in the past four weeks), 3 = Often (more than ten times in the past four weeks)]*

**Section N: Farm Expenses**

Please indicate the costs and expenses incurred over the past 12 months for the production of crops. During this period, has any of the following been used on any of the holdings?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CROP COSTS** | CODE  | N/1 Did you spend anything in cash and/or in kind on ……… in the past 12 months?Yes….1No…..2( | N/2 How much was spent in cash & in kind on ….. during the past 12 months? | N/3 What was the source of …. ?Private Sector...1Cooperative ….2MoFA………...3NGOs………...4Other (specify).5 | N/4 Was …. obtainable in this community any time during the year when you needed it?Yes….1No…..2 |
| Value/GHS |
| Fertilizer (inorganic) |  |  |  |  |  |
| Organic fertilizer |  |  |  |  |  |
| Insecticides |  |  |  |  |  |
| Herbicides |  |  |  |  |  |
| Concentration of AI in herbicide |  |  |  |  |  |
| Purchased seed, seedlings, etc. |  |  |  |  |  |
| Irrigation |  |  |  |  |  |
| Hired labour |  |  |  |  |  |
| Renting animals (Donkeys/Bullocks)/tractor services |  |  |  |  |  |
| Hiring equipment |  |  |  |  |  |
| Other crop costs ……. |  |  |  |  |  |
| Total cost |  |  |

1. The Ghana Livelihood Empowerment against Poverty. (LEAP) cash transfer programme is the Government of Ghana's programme, targeting extremely poor households with elderly, disabled or Orphans and Vulnerable. [↑](#footnote-ref-1)