## Appendix 3: Informed consent and the study questionnaire

### Informed consent form

The purpose of this interview is to collect information that will help to understand the current practices used by farmers as well as challenges experienced in poultry productions before beginning project implementation. This will help Heifer International Kenya to design interventions that are aligned to the needs of the farmers. We encourage you to speak candidly to help us design the most effective, relevant project.

We will first explain what we are going to do.

**Procedures:** We will begin with an interview now. If you are willing, we will ask questions on topics such as your family background, dwelling characteristics, household expenditures and assets This interview will take an hour of your time. With your permission, we may record the proceedings.

**Risks:** We will take precautions to keep any information you give us during the interview confidential. For example, your name or other identifying information will not appear on any of our records of responses. During the interview, you can decline to answer any particular question, or stop the interview at any point. Your responses will be available only to the team conducting this study. There is also the possibility that someone may approach us during the interview to find out what we are discussing. We intend to do this interview in private; if someone approaches us, we will stop the interview until we can continue in private.

**Benefits:** There are no direct and immediate benefits to you for participating in this interview. There may be indirect benefits later from the project inputs for selected beneficiaries.

**Confidentiality:** At the end of the study, we will put all the answers together and make a report. We will not identify you by name, nor identify your business in the report. Your responses to this interview will be seen *only* by the researchers and will be stored in a locked place under our control. What you share with us will be used for our research work as well as for designing programs to help Agro-dealers and farmers.

**Compensation:** You will not receive money for participating in the interviews and the training.

**Voluntary Participation:** Taking part in this study is completely voluntary. If you choose to take part, you may stop at any time or skip any questions that you do not want to answer. Please note that your choice to take part in this interview or not to take part in this interview will in no way affect or hinder your business, or your participation in the training. If you have any questions or concerns about taking part in this study, please feel free to talk to me and I will be happy to answer your questions to the best of my abilities. You can also ask questions at any time about the project. You can take this consent form with you if you want to review it further.

**I certify that I have read and discussed the consent procedures above with the interviewee/participants and continued only on consent.**

**Name of Enumerator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

### The study questionnaire

**SECTION A: FARM/ER INFORMATION**

|  |  |  |
| --- | --- | --- |
| **No.** | **Question** | **Response** |
| **A1** | Date of interview |  |
| **A2** | Enumerator Code/Name |  |
| **A3** | Respondent’s name |  |
| **A4** | Respondent phone number |  |
| **A5** | Respondent Gender | 1= Male; 2= Female |
| **A6** | Age of respondent | 1= 10– 29; 2 = 30 – 49; 3 = 50 – 64; 4 = >60; |
| **A7** | Relationship with the HH head | 1= HH Head; 2= Spouse; 3= Son; 4= Daughter; 5= Employee/hired worker; 6 = Other (specify) |
| **A8** | County name | 1=Kisumu, 2= Migori, 3=Siaya, 4 =Homabay |
| **A9** | Name of household head |  |
| **A10** | Gender of Household Head | 1= Male; 2= Female |
| **A11** | Age of HH Head | 1= 10– 29; 2 = 30 – 49; 3 = 50 – 64; 4 = >60 |
| **A12** | Highest Level of education for HH Head (***use codes Below***) |  |
| **A13** | Sub county name |  |
| **A14** | Ward name |  |
| **A15** | Name of the PO |  |
| **A16** | Total Farm Size (in acres) owned |  |
| **A17** | GPS precision |  |
|  | **A11: CODES - Level of Education**  1 = Some primary school; 2 =Completed Primary School; 3 = Some High School; 4= Completed Form 4; 5= Village polytechnic and vocational trainings; 6 = College Certificate/Diploma; 7 = University; 8=Adult Literacy education  7 = No formal school attended | |

**SECTION B: INFORMATION ON POULTRY ENTERPRISE**

**General characteristic of poultry farming enterprise**

B1. How long has the household been involved in poultry production? \_\_\_\_\_\_\_\_\_\_\_\_\_ years

B2. Flock structure: How many chickens do you have?

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of chicken** | **Adults owned** | **Chicks owned** | **Growers** |
| Local/Indigenous chicken |  |  |  |
| Improved Kienyeji |  |  |  |
| Layers |  |  |  |
| Broiler |  |  |  |

B3. Type of housing: Please provide details of your chicken house.

|  |  |
| --- | --- |
| What is the floor made of? | Check codes below |
| What is the roof made of? | Check codes below |
| What are the walls made of? | Check codes below |
| Does the poultry house have a functional footbath? \_\_\_\_ 1 = Yes; 0 = No |  |
| Is the house constructed on an East-West direction for the slid walls? \_\_\_\_ 1 = Yes; 0 = No |  |
|  |  |
| If the house is for layers, does it have laying nests? \_\_\_\_ 1 = Yes; 0 = No |  |
| How is the drainage system around the chicken house? | Check codes below |
| How is the state of vegetation around the chicken house | Check codes below |
| Does the poultry housing unit have a fence around it? *1 = Yes; 0 = No* |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Wall material**   1. Thatch, straw 2. Mud and poles 3. Timber 4. Bricks 5. Cement blocks 6. Stones 7. Other: Specify | **Roofing material?**   1. = Thatch/straw 2. = Mud 3. = Wood, planks 4. = Asbestos 5. = Iron sheets 6. = Tiles 7. = Tin 8. = Cement 9. = Others: Specify | **Floor material**   1. = Earth 2. = Cement 3. = Tiles 4. = Bricks 5. = Stone 6. = Wood 7. = Others: Specify | **Quality of drainage system**   1. Lacking 2. Poor 3. Fair 4. Good |
| **State of vegetation**   1. Overgrown/bushy 2. Well maintained 3. No vegetation |  |  |  |

B4. If you keep improved chicken and/or improved kienyeji breed of chicken, please give details regarding poultry breeding and productivity.

|  |  |  |  |
| --- | --- | --- | --- |
| Number of Hens owned (which are used for breeding and not for sale and consumption) | |  | |
| No. of cocks owned for breeding purpose (which are used for breeding and not for sale and consumption) | |  | |
| Where do you source replacement/starter flocks | |  | |
| If you produce your own chicks, what is the method of hatching? | |  | |
| Which method of brooding do you use? (?) | |  | |
| **Source of chicken**   1. = Hatcheries 2. = Local breeders/multipliers 3. = Own hatching 4. = Agro vets 5. = Others: Specify \_\_\_\_\_\_\_\_\_\_ | **Hatching methods**   1. = Single bird natural incubation 2. = Serialized hatching 3. = Synchronized Hatching 4. = Artificial incubators 5. = Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_ | | **Brooding methods**   1. = Natural Brooding 2. = Use of electric Bulb 3. = Charcoal burners 4. = Kerosene Lumps 5. = Others: Specify\_\_\_\_\_\_ |

**Access to poultry farming information**

B5. Have you accessed information on poultry production for the last one year (Oct 2020 – Sept 2021)? \_\_\_\_\_ 1 = Yes; 0 = No

B6. If yes, please select and specify below

|  |  |
| --- | --- |
| Source | Frequency of getting Information (Use codes) |
|  |  |
| **Information source**   1. = Radio 2. = Newspaper 3. = TV 4. = Public extension 5. = Local cooperative/producer organization 6. = NGO/project 7. = Other farmers 8. = Institutions – colleges, etc. 9. = Digital media (internet, mobile platform/App) 10. = Digital media (Facebook, WhatsApp, Twitter, etc.) | **Frequency of accessing information**   1. = Daily 2. = Weekly 3. = Monthly 4. = On need 5. = Incidentally 6. = Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

E&. Production system used: For each chicken type owned, please indicate the feeding system used.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of chicken | Free range/scavenging  1 = Yes; 0 = No | Semi-intensive (Mainly intensive with some scavenging)  1 = Yes; 0 = No | Semi-intensive (Mainly scavenging with some intensive feeding)  1 = Yes; 0 = No | Pure intensive feeding  1 = Yes; 0 = No |
|  |  |  |  |  |
|  |  |  |  |  |
| **Chicken type**   1. = Local chicken 2. = Improved kienyeji 3. = Improved/exotic chicken breeds 4. = Others: Specify | | | | |

**SECTION C: POULTRY GROSS MARGIN**

**Poultry productivity**

C1. Have you been keeping laying chicken in the past 1 year (Oct 2020 – Sept 2021)? \_\_\_\_\_ 1 = Yes; 0 = No

C2. If yes, please provide the following information on the layers kept in the past 1 year.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Chicken Type | Management type (1=Free range; 2= semi-intensive; 3=intensive system | Total no. of hen layers in the cycle | Age at first laying (months) | Average Number of Clutches per bird | Average number of eggs laid per hen per clutch/Year | Average no. of eggs per hen per year |
| Layers |  |  |  |  |  |  |
| Improved Kienyeji |  |  |  |  |  |  |
| Indigenous chicken |  |  |  |  |  |  |

C3. Have you been rearing broilers in the past 1 year (Oct 2020 – Sept 2021)? \_\_\_\_\_ 1 = Yes; 0 = No

C4. If yes, please provide the following information on the broilers reared in the past 1 year.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Production cycle | What was the average number of broilers in each of the cycle | Length of each cycle (days) | Average market weight attained at sale? | Number marketed per cycle | Price per Kg of broiler Sold |
| Cycle 1 |  |  |  |  |  |
| Cycle 2 |  |  |  |  |  |
| Cycle 3 |  |  |  |  |  |
| Cycle 4 |  |  |  |  |  |

C5. Have you been rearing local chicken or improved *kienyeji* in the past 1 year (Oct 2020 – Sept 2021)? \_\_\_\_\_ 1 = Yes; 0 = No

C6. If yes, please provide the following information on the local chicken or improved *kienyeji* reared in the past 1 year.

|  |  |  |
| --- | --- | --- |
|  | Indigenous/local chicken | Improved kienyeji |
| Management system |  |  |
| Average number of hens that were laying the last one year |  |  |
| Average number of chicks that are hatched per hen in one cycle |  |  |
| Average number of chicks per hen that reach one month old |  |  |
| Average number of chicks per hen that reach maturity |  |  |
| Average number of birds that are sold per year |  |  |
| Average price per bird sold |  |  |
| Average number of months taken to reach market weight |  |  |
| **Management system**   1. = Free range 2. = Semi-intensive 3. = Intensive | | |

C7. Did you buy any local chicken or improved *kienyeji* chicks for rearing in the past 1 year (Oct 2020 – Sept 2021)? \_\_\_\_\_ 1 = Yes; 0 = No

C8. If yes, please provide the following information on purchases.

|  |  |  |
| --- | --- | --- |
|  | Indigenous/local chicken | Improved kienyeji |
| Management system |  |  |
| Average number of chicks purchased into the farm |  |  |
| Average number of chicks purchased into the farm |  |  |
| Average age of the purchased chicks in days |  |  |
| Average number of chicks that reached 1 month old |  |  |
| Average number of chicks purchased that reached maturity |  |  |
| Average number of birds that are sold per year, out of the number purchase? |  |  |
| Average number of months taken to reach market weight |  |  |
| **Management system**   1. = Free range 2. = Semi-intensive 3. = Intensive | | |

**Additional revenue from poultry related enterprises**

C9. Please provide sales revenue from other poultry related activities.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **QNO** | **Revenue stream** | **Unit of Measure** | **Units** | **Unit cost (KShs)** |
|  | Sale of broilers | Number |  |  |
|  | Sale of layers | Number |  |  |
|  | Sale of cocks/rooster/cockerel | Number |  |  |
|  | Sale of hen | Number |  |  |
|  | Sale of chicks | Number |  |  |
|  | Sales of eggs | Number |  |  |
|  | Sale of manure | Kgs |  |  |
|  | Farmer training services (model farm) | KShs |  |  |
|  | Income from hired out equipment |  |  |  |
|  | Other (Specify) |  |  |  |

**Poultry feeding**

C10. What do you feed your chicken on?

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chicken type | Feed type | | Number of months used | Source | | Quantity used/month | | | Price/unit if purchased |
| Units | Quantity | |
|  |  | |  |  | |  |  | |  |
| **Chicken type**   1. Local chicken 2. Improved kienyeji 3. Layers 4. Broilers 5. Others: Specify | | **Feed type**   1. Commercial concentrates 2. Home formulated feeds 3. Growth stimulators/promoters 4. Crop waste/byproduct 5. Industrial waste 6. Natural feed scavenged by chicken 7. Others: Specify | | | **Source**   1. Own/home formulated 2. Purchased/commercial 3. Mixed – part home, part purchased | | | **Units**   1. Kgs 2. Tons 3. Bags 4. Wheelbarrow/cartload 5. Others: Specify | |

C11. Besides main/basal feed (formulated feeds, crop or industrial by-products) have you used any feed additives in the last one (1) year (October/2020-September /2021)? [\_\_] 1= Yes; No =0.

C12. If yes, please provide the following details for each feed additives used*.*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of months used | Feed additives used | Chicken type fed? | | Source:  1. Own farm;  2. Other farm;  3. Purchased  4. Mix of purchased and own-formulated | **If purchased** | | | | |
| Monthly cost during months when purchased | | | | Where purchased? (code) |
| Weight of pack | Number of packs | | Price/pack |  |
|  |  |  | |  |  |  | |  |  |
|  | **Feed additive type**   1. Growth boosters/promoters 2. Vitamin supplements 3. Oilseed by-product (Sesame seed, cotton seed, copra, sunflower etc.) 4. Agro industrial byproducts (vegetable waste, brewer’s waste etc.) 5. Other (specify) | | **Chicken fed**   1. = All 2. = Chicks 3. = Broilers 4. = Layers 5. = Kienyeji 6. =Other (specify) | | **Mesurément unit**   1. <=1 Kg 2. = 2 kg 3. = 5 kg 4. = 10 kg 5. = 20kg pack 6. = 25 kg pack 7. = 50 kg pack 8. = Other (specify) | | **Where purchased?**   1. = Agro vet shop 2. = Other farmers 3. = Market, trader 4. = Posho mills 5. =Other (specify) | | |

C13. Is there anything that you would like to be changed about the feed additives that you use? \_\_\_\_\_\_ *1 = Yes; 0 = No*

C14. If yes, please provide details below.

|  |  |
| --- | --- |
| Product | Desired change (*choose from code below*) |
|  |  |
| **Desired change**   1. = Manner of delivery 2. = Manner of administration 3. = Shelf life 4. = Enhanced content 5. = Others: Specify | |

**Other poultry enterprise expenditures in the past one year**

C15. Animal health services and expenses

|  | | Vaccination | Deworming/parasite control | | Curative/clinical treatment | Other (specify) |
| --- | --- | --- | --- | --- | --- | --- |
| Do you access this service? (0= NO; 1=YES) | |  |  | |  |  |
| What type of chicken received the service in the past 1 year | |  |  | |  |  |
| How many times have used this service in last one (1) year? | |  |  | |  |  |
| No of chicken attended to per service | |  |  | |  |  |
| Total expenditure for treatment for last one (1) year | |  |  | |  |  |
| Who provided the main service? | |  |  | |  |  |
| Type of disease treated | |  |  | |  |  |
| Which drug/medicine was used for treatment | |  |  | |  |  |
| Was the bird subjected to full dose of treatment? \_\_\_\_\_ 1 = Yes; 0 = No | |  |  | |  |  |
| Did the treated bird recover? \_\_\_\_ 1 = Yes; 0 = No | |  |  | |  |  |
| If no, what did you do the sick bird | |  |  | |  |  |
| **Type of chicken**   1. = Chicks 2. = Layers 3. = Broilers 4. = Kienyeji 5. = Other (specify)\_\_\_\_\_ | **Service provider**   1. = Self/ Neighbor with professional advice 2. = Self/ Neighbor without professional advice 3. = Animal health service provider/para-vet. 4. = Government veterinarian/AHA 5. = Other Project/ NGO staff 6. = Coop/ group staff (AHAs attached to cooperatives) 7. = Agro-vet shop) 8. = Community dip 9. = Other (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | **Type of disease** | |
| **Type of drugs/medicine administered**   * + - 1. = Antibiotic       2. = Multivitamin       3. = I don’t know       4. = Others: Specify \_\_\_\_\_\_\_\_\_\_ | | | | **What happened to the treated birds?**   * + - 1. = Treated with new drugs and recovered       2. = Treated with new drugs and succumbed       3. = Did nothing and they succumbed       4. = I don’t remember | | |

C16. Has any chicken died from your flock over the past 1 year (October 2020 – September 2021)? \_\_\_\_ *1 = Yes; 0 = No*

C17. If yes, please provide the following information for the chicken that have died.

|  |  |
| --- | --- |
| Causes of death |  |
| Type of chicken that has died |  |
| Number of chickens that died |  |
| Was the chicken treated? *1 = Yes; 0 = No* |  |
| Cost of treatment (KSH) |  |
| **Cause of death**   1. = Disease 2. = Accident 3. Predation 4. = Others: specify \_\_\_\_\_\_ | **Type of chicken**   1. = Chicks 2. = Layers 3. = Broilers 4. = Improved Kienyeji 5. Indigenous Chicken 6. Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_ |

**Labor use and expenses**

C18. Did you employ a **monthly paid laborer** in your chicken enterprise in the past one (1) year (Oct 2020 – Sept 2021)? [\_\_] (0=No 1=Yes).

C19. If yes, enter the following details for laborers used: -

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Gender of labourer  0 = Male  1 = Female | Average working hours per day | monthly  wage | Months engaged  (Codes) | Number of hours per day dedicated to poultry activities |
| 1 |  |  |  |  |  |
|
| 2 |  |  |  |  |  |
|
| 3 |  |  |  |  |  |
|

C20. Have you employed any casual laborer(s) in your chicken enterprise in the past one (1) year (Oct 2020 – Sept 2021)? (0=No 1=Yes).

C21. If yes, enter the following details: -

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gender of Workers | Number of workers | Average hours worked per day | Actual hours worked in poultry enterprise | Average no of days worked in a month | Daily wage | Number of months worked in the last 12 months |
| Male – non household member |  |  |  |  |  |  |
| Female – non household members |  |  |  |  |  |  |

C22. Has any household member been involved in chicken production related activities in the past one (1) year (Oct 2020 – Sept 2021)? (0=No 1=Yes).

C23. If yes, enter the following details: -

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| QNO | HH member (a) | Gender | No. people | Hrs./person/day in poultry work | Average no of Months worked | Number of Months worked |
|  | Adult male | M |  |  |  |  |
|  | Adult female | F |  |  |  |  |
|  | Children <15 yrs. | M/F |  |  |  |  |
|  |  |  |  |  |  |  |

C24. Other Costs in the dairy enterprise

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| QNO | Type of Input/Service | Type of Units | Frequency | Unit cost (KShs) | Total Cost (KShs) |
|  | Water | Per month |  |  |  |
|  | Value of poultry house |  |  |  |  |
|  | Total Value of poultry equipment |  |  |  |  |
|  | Interest on credit/loan | Per month |  |  |  |
|  | Coops fees | Per month |  |  |  |
|  | Equipment lease costs |  |  |  |  |
|  | Loss due to theft |  |  |  |  |
|  | Electricity costs | Per month |  |  |  |
|  | Storage costs |  |  |  |  |
|  | Slaughtering costs |  |  |  |  |
|  | Licenses and fees |  |  |  |  |
|  | Communication costs (Poultry related) | Per month |  |  |  |
|  | Other (Specify) |  |  |  |  |
|  |  |  |  |  |  |
| **Frequency**  1. = \_\_\_ per day; 2. = \_\_\_ per week; 3. = \_\_\_ per month; 4. = \_\_\_ per year | | | |  |  |

**SECTION D: HOUSEHOLD NET ANNUAL INCOME**

I would now like to discuss with you about your income from various household activities/enterprises.

**ON-FARM INCOME**

D1. Crops revenue from October 2020 to September 2021: Please share production and consumption information for crops grown in the past 12 months (October 2020 – September 2021).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Unit of measure | Quantity produced last | Quantity consumed home | Quantity wasted/  spoilt | Average Price per Unit?  (KShs) | Quantity sold | Quantity set aside for seed |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Crop code**   1. Maize 2. Banana 3. Beans 4. Cassava 5. Passion fruit 6. Sweet potatoes 7. Coffee | | 1. vegetables 2. Tomatoes 3. Sorghum 4. Peas 5. Groundnuts 6. Simsim 7. Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_ | | | **Measurement unit**   1. Kilograms 2. Tons 3. Bunches 4. Bags 5. Others: Specify \_\_\_\_\_\_\_\_\_\_\_ | | |

D2. Please share how much your household spent in crop production inputs/operations for the past 12 months (October 2020 – September 2021).

|  |  |  |
| --- | --- | --- |
| Input/operation | | Total expenses from October 2020 – September 2021 |
|  | |  |
| **Input or operation**   1. Land preparation 2. Planting 3. Seeds 4. Fertilizer 5. Pesticides 6. Weeding costs 7. Herbicides 8. Machinery/equipment rent 9. Crop insurance | 1. Land rent 2. Interest on credit (agriculture use only) 3. Water/irrigation 4. Draught animal services (Donkeys, bullocks, etc.) 5. Harvesting costs 6. Transportation fees 7. Capital Expenditure (Specify) 8. Other (Specify)\_\_\_\_\_\_\_\_\_\_\_ | |

D3. In the following table, please capture the average hours per day worked on crop production by family members.

|  |  |  |
| --- | --- | --- |
| Household member | Number of months worked | Average hours per day worked |
|  |  |  |
| **Household member**   1. = Wife 2. = Husband 3. = Another household male 4. = Another household female | | |

D4. Please share information on the cost of hired labor that worked on crop production over the past 12 months.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gender  Male = 1; Female = 0 | Number of months worked | Average monthly salary | Additional monthly cost to hire labor | Additional monthly benefits given to hired labor |
|  |  |  |  |  |

D5. Livestock, off-springs and by products revenues

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Livestock category/product | Unit of measure | Quantity produced/kept last 12 months | Quantity consumed at home | Quantity Wasted / dead | Quantity sold in the last 12 months | Average Price per Unit |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Livestock category**   1. = Cattle 2. = Goats 3. = Sheep 4. = Donkeys 5. = Pigs 6. = Poultry 7. = Others: Specify \_\_\_\_ | **Livestock products**   1. = Milk 2. = Eggs 3. = Honey 4. = Hides/skins | | **Production unit**   1. = Pieces/Number 2. = Kgs | | | |

D6. Please share how much your household spent in animal husbandry from October 2020 – September 2021.

|  |  |  |
| --- | --- | --- |
| Input/service | Number of Months used | Total cost (KES) |
|  |  |  |
| **Input/service**   1. = Livestock nutrition: Minerals 2. = Livestock nutrition: Concentrates 3. = Livestock nutrition: Water 4. = Livestock nutrition: Fodder 5. = Poultry feed – poultry covered later 6. = Veterinary services: Animal health 7. = Breeding services: Artificial Insemination 8. = Livestock shelter 9. = Farm equipment 10. = Interest on credit (for livestock only) 11. = Transportation fees 12. = Capital expenditure/depreciation specify 13. = Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_ | | |

D7. In the following table, please capture family labor use for animal husbandry.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Persons involved | Activity done | Frequency units | Days/unit | Hours per day |
|  |  |  |  |  |
| **Persons**   1. = Wife 2. = Husband 3. = Another household male 4. = Another household female | | | **Activity**   1. = Grazing 2. = Feeding (collecting & preparation) 3. = Fodder/feed production on farm 4. = Providing water to the animals 5. = Cleaning of animal shed/shelter 6. = Collection of Farm -yard manure (FYM) 7. = Milking and milk processing 8. = Selling milk 9. = Selling animals/ animal products (except milk) 10. Others: Specify \_\_\_\_\_\_\_\_\_ | **Frequency**   1. = Daily 2. = Weekly 3. = Monthly 4. = Annually |

D8. In the following table, please capture information on use of hired labor for animal husbandry.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity done | Frequency units | Days/unit | Hours per day | Pay/wage rate | | Payment regime |
|  |  |  |  |  | |  |
| **Activity**   1. = Grazing 2. = Feeding (+ collecting & preparation) 3. = Fodder/feed production on farm 4. = Providing water to the animals 5. = Cleaning of animal shed/shelter 6. = Collection of Farm -yard manure (FYM) 7. = Milking and milk processing 8. = Selling milk 9. = Selling animals/ animal products (except milk) 10. = Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | **Frequency**   1. = Daily 2. = Weekly 3. = Monthly 4. = Annually | | | **Payment regime**   1. Daily 2. Monthly | |

**OTHER ON-FARM INCOME SOURCES**

D9. Do you have other on-farm income sources? \_\_\_\_\_ 1 = Yes; 0 = No

D10. If yes, please provide the following information on your enterprises

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| On-farm enterprise | Unit of measure | Quantity produced last 12 months | Quantity consumed at home | Quantity sold | Quantity Wasted | Average Price per Unit? |
| Organic Fertilizer |  |  |  |  |  |  |
| Organic pesticide |  |  |  |  |  |  |
| Mala |  |  |  |  |  |  |
| Sale of Hay |  |  |  |  |  |  |
| Sale of Silage |  |  |  |  |  |  |
| Other (Specify) |  |  |  |  |  |  |

**NON-FARM INCOME**

**Wage employment**

Wage income is defined as income received from ALL activities off the household's farm. This implies a remuneration, and it can be earned from agricultural (*e.g., doing farming activities for other farms*) or non-agricultural (*e.g., teacher, lawyer, working at the municipality, etc.*) sources.

D11. Did any household member engage in any such employment? \_\_\_\_\_ 1 = Yes; No = 0

D12. If yes, please provide detailed information on each of the wage employment that members of household engage in over the past 12 months.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Household member | Type of wage employment | | Number of months worked on wage employment | Days per month worked | | Frequency of payment | Pay received each time |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
| **Persons**  = Wife  = Husband  = Another household male  =Another household female | | **Wage employment type**  = Farm laborer  = Formal employment  = Others: Specify \_\_\_\_\_\_\_\_\_ | | | **Frequency of payment**  = Monthly  = Weekly  = Daily  = Others: Specify \_\_\_\_\_\_\_\_\_ | | |

D13. Did the household members engaged in wage employment above incur any expenses related to the employment identified above? \_\_\_\_

1 = Yes; 0 = No

D14. If yes, please identify the expense type and the amount spent over the past 12 months

|  |  |  |
| --- | --- | --- |
| Expense type | Number of months when incurred | Total expense for each month |
|  |  |  |
|  |  |  |
|  |  |  |
| **Expense type**   1. = Clothing for work 2. = Transportation 3. = Meals 4. = Shelter/rent 5. = Communication | | |

**Income from businesses and/or retail activities**

D15. Do you or any other family member carry on a business? \_\_\_\_\_\_\_ 1 = Yes; 0 = No

D16. If yes, please identify the type of business and kindly share with us the total revenue obtained over the past 12 months. *Please only include non-farm related businesses/enterprises*.

|  |  |  |  |
| --- | --- | --- | --- |
| Business type | Business operator | Number of months when operated | Revenue collected for each month operated |
|  |  |  |  |
| **Business type**   1. = Trading of livestock and livestock products (not own produce) 2. = Trading in agricultural products (excluding livestock!) (Not own produce) 3. = Non-Agricultural - Trade or services 4. = Trading of livestock and livestock products (not own produce) 5. = Sale of animal feed, pasture, fodder (not own produce) 6. = Draught animal/tractor services 7. = Tractor services 8. = Tree sale business 9. = Sale of natural resources (not won produce) 10. = Rentals 11. = Other: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_ | | **Business operator**   1. = Wife 2. = Husband 3. = Another household male   = Another household female | |

D17. In the following table please capture the total cost incurred associated with the businesses operated by household business identified above.

|  |  |  |  |
| --- | --- | --- | --- |
| Business type | Input | Number of months when incurred | Amount incurred for every month |
|  |  |  |  |
|  |  |  |  |
| **Business type**   1. = Trading of livestock and livestock products (not own produce) 2. = Trading in agricultural products (excluding livestock!) (Not own produce) 3. = Non-Agricultural - Trade or services 4. = Trading of livestock and livestock products (not own produce) 5. = Sale of animal feed, pasture, fodder (not own produce) 6. = Draught animal/tractor services 7. = Tractor services 8. = Tree sale business 9. = Sale of natural resources (not won produce) 10. = Rentals 11. = Other: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_ | | **Input type**   1. = Labor (direct) 2. = Raw materials 3. = Utilities (electricity, gas, etc.) 4. = Equipment rent 5. = House rent 6. = Land rent 7. = Transportation services 8. = Marketing services 9. = Financial services (such as interest on loans) 10. = Technical assistance 11. = Packaging 12. = Capital expenditure\* specify 13. Others: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

D18. In the following table, please capture the labor provided by the family for all non-farm business activities. Please ensure you capture all family members involved in all businesses operated by the household.

|  |  |  |  |
| --- | --- | --- | --- |
| Household member | Number of months worked | Days per month worked | Average hours per day worked |
|  |  |  |  |
| **Household member**   1. = Wife 2. = Husband 3. = Another household male 4. = Another household female | | | |

H19. In the following table, please capture the hired labor for all non-farm business activities. Please ensure you capture hired labor for all businesses operated by the household.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gender  Male = 1; Female = 0 | Number of months worked | Average monthly wage | Additional monthly cost to hired labor | Additional monthly benefits given to hired labor |
|  |  |  |  |  |

**Income from Organization Profit Sharing and Dividends/Bonus**

D20. Did any household member receive payment in form of profit sharing (dividends, etc.) over the past 12 months? 1 = Yes; 0 = No

*Dividends/Bonus are the benefits received on a regular basis by a company/cooperative out of its profits*

|  |  |  |  |
| --- | --- | --- | --- |
| Household member | Source | Number of months when received | Amount received each time |
|  |  |  |  |
|  |  |  |  |
| **Household member**   1. = Wife 2. = Husband 3. = Another household male 4. = Another household female | | **Source**   1. = Dividend   = Other: Specify \_\_\_\_\_\_\_\_\_\_\_\_\_ | |

**Income from Transfers**

D21. Did your household receive any cash or in-kind benefits from the government, NGOs or family members that are not part of the household over the past 12 months? \_\_\_\_\_\_\_ 1 = Yes; 0 = No

D22. If yes, please provide information on the income transfers received. *In case of public (government) transfers, please enlist only those that are known in frequency and amount*

|  |  |  |  |
| --- | --- | --- | --- |
| Household member | Source of transfer | Number of months when received | Amount received each time |
|  |  |  |  |
| **Household member**   1. = Wife 2. = Husband 3. = Another household male 4. = Another household female | | **Source**   1. = Pension 2. = Family allowance/remittance 3. = Cash transfer program 4. = NGO support program   = Other: Specify \_\_\_\_\_\_\_\_ | |

**SECTION E: KNOWLEDGE, ATTITUDE, AND PRACTICES**

E1. Please respond to the following statement about your chicken feeding

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Strongly agree (1) | Agree (2) | Neither agree nor disagree (3) | Disagree (4) | Strongly disagree (5) |
| Livestock keeping is a major contributor to your income |  |  |  |  |  |
| Feeding additives like supplements, vitamin premixes, protein premixes) is a critical component of balanced feeding |  |  |  |  |  |
| The best way to keep animals healthy and protected from diseases is through balanced feeding |  |  |  |  |  |
| Farm management and biosecurity are linked to animal health |  |  |  |  |  |
| You are familiar with farm management or biosecurity practices to reduce the spread of disease between animals or from animals to humans |  |  |  |  |  |
| Practicing farm hygiene and sanitation will protect your herd from diseases |  |  |  |  |  |
| You currently use antibiotics as part of your farm management |  |  |  |  |  |
| Antibiotics should be added to feed/water at any time to prevent animals from becoming sick |  |  |  |  |  |
| Antibiotics should be added to feed/water at any time to promote animal growth or productivity |  |  |  |  |  |
| You have heard the term ‘antimicrobial resistance’/Antibiotic Resistance |  |  |  |  |  |
| The use of antibiotics without animal health service provider has negative consequences to the animal and or human heath |  |  |  |  |  |
| Not following dosages and withdrawal periods on treatment has negative consequences on human and animals consuming livestock products |  |  |  |  |  |
| You are confident making choices on the antibiotics you give to your livestock |  |  |  |  |  |
| You like to be among the first to adopt improved production practices when trained |  |  |  |  |  |
| You only want to adopt practices that others have tested and confirmed that they work |  |  |  |  |  |
| Efforts to improve biosecurity (segregation; cleaning and disinfection) did not prevent the disease in the past |  |  |  |  |  |
| It is easy to contact animal health service provides if there is disease in my farm |  |  |  |  |  |
| Reporting disease in my farm will get me help so that the disease doesn’t spread within my farm or other farms |  |  |  |  |  |
| You can get information on disease outbreaks within your area |  |  |  |  |  |
| You avoid visiting other farms or households when their livestock contract a contagious disease |  |  |  |  |  |

*\*This implies feeding a balanced and wholesome diet composed of basal feeds and additional feed elements such as concentrates, mineral salts/blocks and other feed additives.*