# Step 4 - Producer / Household Level Tool

## Guidance Notes on use of the tool

### When to use

Step 4 Producer Level tool should be utilized AFTER identification of VC constraints / opportunities and articulation of the interventions to be designed / tested / implemented in the VC.

Core module elements are designed to provide data and monitoring & evaluation indicators which are relevant across any intervention that involves implementation at producer / household level with the aim of improving livelihoods of poor smallholders. This may include adoption indicators, changes in income, changes in food security or nutrition status or other livelihood measure. Note: few environment indicators are covered in this tool as overall indicators like GHG emissions are compiled from household data)

Optional modules can then be selected depending on the interventions and the monitoring & evaluation indicators to be measured to track changes due to interventions.

### Definition of a household

As this tool is designed to be implemented in households it is important to define what a household is before selection households to interview and training of enumerators. The definition can often be context specific but below is common definition applied:

* + A household is a group of individuals, usually related, that conduct activities (farming and non-farming) together and pool their resources from their activities. They usually cook and eat together.

### Definition of ownership

The term ownership is complex and its definition differ by culture and country context. Johnson and Quisumbing (2009) summarizes it as ‘use rights’ and the ‘control rights’ (Table).

|  |  |  |
| --- | --- | --- |
| Categorization | Definition | Example (piece of land) |
| Access | Right to use the asset | Individual(s) has the right to physically be on a piece of land and use the land. In many cases, women are an important source of basic labor (weeding, harvesting) on men’s fields, but have no control over the output or even their own time. |
| Withdrawal | Right to claim the output or income produced by the asset | Individual(s) has the right to take and sell the produce grown on the piece of land, but most importantly, receives the income from the sale. In some cases, women are responsible for selling the agricultural products at the market but have no rights over the financial reward. |
| Management | Right to make decisions about how to use the asset | Individual(s) has the right to make decisions about, for example, what crops will be grown on the piece of land, what laborers will be hired, and how agricultural inputs like fertilizer and pesticides will be applied. |
| Exclusion | Rights to exclude others from using the asset | Individual(s) has the right to exclude others from physically being on and/or using the land. |
| Alienation | Right to transfer the asset to others such as through sale, leasing, gift or inheritance | Individual(s) has the right to transfer a piece of other people. In the majority of cases, women lack the right to decide what will be done with land or to even receive the land, especially in terms of inheritance. |

Ownership

Use Rights

Control Rights

### Special coding for questions

In most cases questions in this tool are designed to minimize the number of ‘special codes’ required. However, below are the special codes we recommend using. Using standard codes becomes especially useful at data cleaning and analysis stage and if mobile data collection is used is implemented during programming of the software.

* Unknown (household cannot tell you the answer) = **-99**
* Answer is ‘Not applicable’ = **-77** (if using mobile data collection software can usually skip the question)
* Answer is ‘missing’ = **Blank** (this should only happen if you forgot to ask the question!)
* Other (specify) = **-66** (and add space to enter text description of the ‘Other’)
* If No >>>, indicates the next question to skip to if answer to current question is negative (e.g. If No>>>Q2)

When applying the codes above to numeric questions (e.g. income) be careful to document so as not to misinterpret the data during analysis.

All transactions recorded in the ***local currency***

## Core Modules

### A: Household Identification

* Some questions below can be customized (\*) depending on the context (e.g. administrative names and levels), target population (e.g. only livestock keepers, only cattle keepers, only those with land etc.) and/or whether the same data are collected in other modules.
* If using mobile data collection software (e.g. CsPro, ODK) then some fields can be automatically completed (+) (e.g. date of survey, GPS coordinates) and some fields formatted differently from the below.
* Household Unique Code – this can be defined at data collection time or in some cases built from other fields (e.g. district, village) later. Ensure that you have at least one UNIQUE piece of information in each survey (could be name or combination of name and phone number), we recommend that in most cases creating a unique household ID is most efficient and makes data cleaning and analysis simpler later.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pre-qualification criteria for being selected for interview \* | | | | | E.g. Does the household keep livestock? | | | | | | | | | | |
| Date of Survey (DD/MM/YYYY): | | | | | / / | | | | | | | | | | |
| Enumerator Name: | | | | |  | | | | | | | | | | |
| Head of Household (HHH) Name: | | | | |  | | | | | | | | | | |
| Household Head Mobile number: | | | | |  | | | | | | | | | | |
| Gender of HHH \*: | | | | | Male / Female | | | | | | | | | | |
| Did the household consent to the interview? (0= NO; 1=YES) | | | | |  | | | | | | | | | | |
| If no, why? *(code a)* | | | | |  | | | | | | | | | | |
| ***If no, request a replacement household from supervisor (and start a new questionnaire) \**** | | | | | | | | | | | | | | | |
| Time interview started +: | | | HH: |  | | MM: | |  | |  | A9. Common currency\* unit: | | | |  |
| Time interview ended +: | | | HH: |  | | MM: | |  | |  |
|  | | | | | | | | | | | | | | | |
| District Name \*: |  | | | | | | | | | | | A11. District Code: | |  | |
| Village Name \*: |  | | | | | | | | | | | A13. Village Code: | |  | |
| Name of Survey Respondent: | | | | | | |  | | | | | | | | |
| Relationship of survey respondent to Household Head (code b): | | | | | | |  | | | | | | | | |
| Household GPS Coordinates +: | | A18. Latitude (N/S): | |  | | | | | | A19. Longitude (E/W): | | |  | | |
| ***HH ID System \* +*** | | | | | | | | | | | | | | | |
| Main Household Code (ABCDE) +: | | | | | | | | |  | | | | | | |
| **A = District, B = Village, C = Cattle ownership, DE= Household number *(example)*** | | | | | | | | | | | | | | | |
| **a) No Consent** | | | | | | | | | **b) Respondent relationship** | | | | | | |
| 1…Respondent refuses to participate  2…Respondent does not have the time  3…Household head (or other knowledgeable member) is not present at the house  -66…Other (specify) \_\_\_\_ | | | | | | | | | 1…Household head  2…Spouse  3…Other family member  4…Other non-family member | | | | | | |

### B: Household Roster

* Define who qualifies as a member of the household (commonly: “living in the home at least 3 months in the last 12 months”) and add a field in the table if need a more detailed picture for ‘Home occupancy’ (categories: permanently resident; sometimes away (< 3 months / year); often away (3 – 9 months / year))
* Customize by removing fields that are not needed or are collected in other modules and alter categories to local context
* Include household head (HHH) in table; can use number of years of school or categories and age in years or categories (categories shown in table)
* Apply ‘definition of a household’ to identify who to enter in the household roster

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **First Name** | | **Relationship to HHH**  *(code a)* | **Gender**  *(1=male, 2=female)* | **Age Category***(code b)* | | **Highest level of education completed**  *(code c)* | **Sources of livelihood**  ***(Rank top 3 in order)*** *(code d)* | | | |
| **Primary** | | **Secondary** | **Tertiary** |
| 1. |  | |  |  |  | |  |  | |  |  |
| 2. |  | |  |  |  | |  |  | |  |  |
| 3. |  | |  |  |  | |  |  | |  |  |
| 4. |  | |  |  |  | |  |  | |  |  |
| **a) Relationship to HHH** | | | | | **b) Age category** | | | | **c) Highest level of education completed** | | |
| 1…Head  2…Spouse  3…Child  4…Sister/Brother  5…Parent  6…Grandchild | | 7…Other relative  8…Non-relative (including employees who live in house)  -66…Other (specify)\_\_\_ | | | 1…< 6 years (or school age)  2…6 – < 15 years  3…15 - < 30 years (USAID definition youth & start of reproductive age for women)  4…30 - < 50 years (end of reproductive age for women)  5… > = 50 years | | | | 0…No formal (illiterate)  1…No formal (literate)  2…Primary school  3…High / secondary school  4…College  5…University  -66…Other (specify – e.g. Koranic) \_\_ | | |
| **d) Main source of livelihood (Activity) – Primary, Secondary, Tertiary** | | | | | | | | | | | |
| 1…Crop farming  2…Livestock keeping  3…Poultry keeping  4…Trading in livestock and livestock products (not own produce)  5…Trading in non-livestock agricultural products (e.g. groundnuts, not own produce)  6…Formal salaried employment (incl. civil servant, private sector employee, non-farming laborer, domestic work in another house) | | | | | | 7…Livestock herder  8…Self-employed business – trade (non-ag., e.g. small shop owner, includes natural products - charcoal, firewood, water, roadside grass etc.)  9…Self-employed business – non-ag. services (e.g. carpentry, barber, healer, dress-making, etc.)  10…Farm laborer on other farm  11…Fisherman | | | 12…Old/Retired  13…Domestic work in own home  14…Not working/ unemployed  15…Infant/ child < 6 years  16…Student/ pupil  17…Disabled  -66…Other (specify)\_\_\_\_\_  -77…Not applicable | | |

### C: Asset Ownership

* Asset index is calculated for all movable assets including livestock. Each of the assets is assigned a weight and then adjusted for age.
* Customize by removing or adding to the list of assets as desired. Definition of ‘ownership’ should be clear to the respondent.

#### Livestock / Domestic / Farm assets

| **Name of Asset** | **Total Number owned** | **Relative / average age** | | | | | | | | | **Number of items that were obtained ‘free’ (0 if none)** | **No. of items that were sold** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Number owned by men** | | | **Number owned by women** | | | **Number owned jointly** | | |
| **<3 yrs** | **3-7 yrs** | **>7 yrs** | **<3 yrs** | **3-7 yrs** | **>7 yrs** | **<3 yrs** | **3-7 yrs** | **>7 yrs** |
| **Livestock** |  | Calves | Immature male / Heifer | Bull/ Cow | Calves | Immature male/ Heifer | Bull/ Cow | Calves | Immature male/ Heifer | Bull/ Cow |  |  |
| 1.Cattle |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.Horses |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.Sheep/goats |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.Poultry |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.Pigs |  |  |  |  |  |  |  |  |  |  |  |  |
| **Domestic** |  | <3 yrs | 3-7 yrs | >7 yrs | <3 yrs | 3-7 yrs | >7 yrs | <3 yrs | 3-7 yrs | >7 yrs |  |  |
| 1.Cooker/ Gas stove |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.Refrigerator |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.Charcoal stove (normal) |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.Improved charcoal stove |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.Radio |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.Television |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.Mobile phone |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.Sofa set/ wooden chairs or couches |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.Sewing Machine |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.Mosquito nets |  |  |  |  |  |  |  |  |  |  |  |  |
| 11.Solar panels |  |  |  |  |  |  |  |  |  |  |  |  |
| 12.Water tanks |  |  |  |  |  |  |  |  |  |  |  |  |
| **Transport** |  |  |  |  |  |  |  |  |  |  |  |  |
| 13.Car/Truck |  |  |  |  |  |  |  |  |  |  |  |  |
| 14.Motorcycle |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.Bicycle |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.Cart (animal drawn) |  |  |  |  |  |  |  |  |  |  |  |  |
| **Farm** |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.Hoes |  |  |  |  |  |  |  |  |  |  |  |  |
| 18.Spades/shovel |  |  |  |  |  |  |  |  |  |  |  |  |
| 19.Ploughs |  |  |  |  |  |  |  |  |  |  |  |  |
| 20.Sprayer pump |  |  |  |  |  |  |  |  |  |  |  |  |
| 21.Water pump |  |  |  |  |  |  |  |  |  |  |  |  |
| 22.Bio gas |  |  |  |  |  |  |  |  |  |  |  |  |
| 23.Power tiller |  |  |  |  |  |  |  |  |  |  |  |  |
| -66. Other (specify)\_\_\_\_ |  |  |  |  |  |  |  |  |  |  |  |  |

#### Livestock specific

* This section will capture livestock demographics within households. Customize fields to suit the value chain and the local context e.g. including ‘animal kept but not owned’ or ‘owned but kept elsewhere’, breed code to capture breeds available locally.
* Cross breed (\*) refers to a cross-bred animal which is part-exotic.
* Total number (+) can be automatically filled-in if using mobile data collection tools
* Definition of ‘ownership’ should be clear to the respondent.

Does your household own any livestock [ ] (0 = No, 1 = Yes)?, If no >>> \_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Livestock Species** | | **Number owned by male** | **Number owned by female** | **Number owned jointly** | **Number owned by the household (total)+** |
| 1. **Cattle** | Local |  |  |  |  |
| Cross\*/ exotic |  |  |  |  |
| 1. **Goats** | Local |  |  |  |  |
| Cross/ exotic |  |  |  |  |
| 1. **Sheep** | Local |  |  |  |  |
| Cross/ exotic |  |  |  |  |
| 1. **Poultry** | Local |  |  |  |  |
| Exotic |  |  |  |  |
| 1. **Pig** | Local |  |  |  |  |
| Cross/ exotic |  |  |  |  |
| 1. **Donkeys/Horses** | |  |  |  |  |
| 1. **Rabbits** | |  |  |  |  |
| **-66 Other (specify)\_\_\_\_\_\_\_\_** | |  |  |  |  |

#### Livestock species specific

##### Cattle

Specific data on livestock species may be obtained in the table format below depending on the VC. For example, the number of cattle breeds owned by type or number of pigs reared by categories.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Animal type** *(code a)* | | **Breed** *(code b)* | **Number owned** | |
| 1. | |  |  | |
| 2. | |  |  | |
| 1. **Animal type** | | 1. **Breeds** | | |
| 1…Bulls (>3 yrs)  2…Castrated adult males (oxen>3 yrs)  3…Immature males (< 3 yrs)  4…Cows (calved at least once)  5…Heifers (female ≥1yr, have not calved) | 6…Female calves (between 8 wks & <1yr)  7…Male calves (between 8 wks & <1yr)  8…Pre-weaning females (<8 wks)  9…Pre-weaning males (<8 wks | 1…Holstein Friesian (pure/improved)  2…Ayrshire (pure/improved)  3…Jersey (pure/improved)  4…Mpwapwa | | 5…Local zebu  6…Boran  7…Cross breed (exact breed unknown)  -66…Other (specify)\_\_\_\_ |

##### Chicken

How long has chicken been kept in the household (in years)? [ ]

Do you currently keep exotic / crossbred birds? [ ] (0=No, 1=Yes)

If No, have you had exotic/improved birds in the past? [ ] (0=No, 1=Yes).

Fill in the table below, number of chicken refers to those present in the flock at the time of the survey

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chicken Breed Type** *(code a)* | **If exotic which breed?** *(code)* | | **Number of Cocks** | | **Number of Hens** | **Number of Growers** | | **No. of**  **chicks** | | | **Total number of birds** | **Source of foundation stock** *(code b)* |
| **Male** | **Female-Pullet** |
|  |  | |  | |  |  |  |  | | |  |  |
|  |  | |  | |  |  |  |  | | |  |  |
| 1. **Chicken breed type** | | | | ***Exotic breeds (specify if code a = 3 or 4):*** | | | | | | | | |
| 1=Local  2=Improved local  3=Exotic  4=Improved exotic  5=Crossbred (Local x Exotic)  ***(if code 3 or 4 specify breed(s) –only for this question!!)*** | | | | 1…Koekoek (SA)  2…Kuroiler (India)  3…Giriraja/Girirani  4…Shika Brown  5…Funaab-Alpha  6…Rhode Island Red (IE)  7…White leghorn (IE)  8…Fayoumi (Exotic - Egypt)  9…Harco | | | | | 10…Hampshire  11…Barred Plymouth Rock  12…Black Australorp  13…ISA Brown (NL)  14…Bovans (brown / white) (NL)  15…Lohann (white / tradition / silver) (Germany)  16…Exotic or improved exotic cross  -66…Other (specify)\_\_\_ | | | |
| **Source of foundation stock code (main):** | | | | | | | | | | | | |
| 1… Purchase  2... Inherited | | 3... Custody  4... Gift (family, schools, government, neighbour, or NGO) | | | | | | | | -66…Other (specify)\_\_\_ | | |

#### Land & Home

* Parcel (\*) is one contiguous plot of land. One parcel can contain more than one plot. Parcel number one will always be where the homestead is. The parcel ID will be automatically filled-in if using mobile data collection tools.
* (+) unit of measure as locally and commonly used. To standardize the units, conversion factor should be included where applicable, example square feet to acres: 1 acre=43,561ft2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parcel\* ID** | **Parcel description / Name** *(code a)* | **Size of this parcel (acres) +** | **Tenure system**  *(code b)* | | **If plot is *owned*, who owns** *(code c)* | | **If rented, rent value (currency/year)** |
| 1. |  |  |  | |  | |  |
| 2. |  |  |  | |  | |  |
| 1. **Plot description** | | 1. **Tenure system** | | 1. **Plot owner** | | | |
| 0…Homestead  1…Cash crop  2…Food crop  3…Fodder crop  4…Grazing land  5…Fallow land | | 1…Owned with title  2…Owned without title  3…Communal/public  4…Rented in  5…Rented out | | 1…HH head  2…Spouse  3…Joint (HH head & spouse) | | 4…Other male  5…Other female  -66…Other (specify)\_\_\_\_ | |

* Refers to home the household members are currently living in.
* (#) If there is more than one house and there is no main house, count the number of rooms for all the houses.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **House ownership** *(code a)* | **If rented, how much do you pay per month?** | | **Number of rooms#** | | **Floor material**  *(code b)* | **Wall material**  *(code c)* | **Roofing material**  *(code d)* | **Main water supply for domestic use** *(code e)* | | **Electricity supply to the house** *[0=No,1=Yes]* |
|  |  | |  | |  |  |  |  | |  |
| 1. **Ownership** | | 1. **Floor material** | | 1. **Wall material** | | | 1. **Roofing material** | | 1. **Water supply** | |
| 1...Owned  2...Rented  3...Borrowed  -66...Other (specify)\_\_\_\_ | | 1…Earth  2…Cement  3…Tiles  -66…Other (specify)\_\_\_\_ | | 1...Earth/ mud/ cow dung  2...Wood/ bamboo/ iron sheets  3…Unburned mud bricks  4…Burned mud bricks  5…Cement/ bricks  -66…Other (specify)\_\_\_\_ | | | 1…Grass  2…Mud  3…Iron sheets/ asbestos  4…Tiles  -66…Other (specify)\_\_\_\_ | | 1…Well  2…Hand pump  3…Stream  4…Canal  5…Pond  6…Borehole,  -66…Other (specify)\_\_\_\_ | |

### D: Livelihood Sources

* Note Section B contains same information but without the value and control of income
* The person earning income (\*) may not necessarily be the one determining how income is allocated. To capture gender roles more clearly one may consider these as two separate questions.
* This table could also be extended to provide information for ALL livelihood sources and not just the top 3, i.e. by creating one row per Livelihood Source.

What are the 3 main sources of livelihood for this household over the last 12 months*? (Rank top 3 in order)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **Primary livelihood source** *(code a)* | **Secondary livelihood source** *(code a)* | | **Tertiary livelihood source** *(code a)* |
| Estimated annual income (local currency) | |  |  | |  |
| Who mainly earns/ controls this income\*? *(code b)* | |  |  | |  |
| 1. **Livelihood source** | | | | 1. **Who controls money** | |
| 0…Nothing  1…Food crop production (both own consumption and sale e.g. gardening, fruits, vegetable production)  2…Cash crop production (e.g. coffee, cotton, sisal etc.)  3…Animal feed and fodder production  4…Beef cattle keeping  5…Dairy cattle keeping  6…Sheep and goat keeping  7…Poultry keeping  8…Working for someone on another farm | 9…Own business related to livestock or agriculture (such as livestock trader, feed supplier, agricultural extension)  10…Own business not related to livestock or agriculture  11…Formal salaried employment (non-farming)  12…Rent out land / sharecropping (cash value of rent or share crop)  13…Remittances  14…Pension  -66…Other (specify)\_\_\_\_ | | | 1…Household male  2…Household female  3…Joint household (male & female)  4…Non-household member  -66 …Other (specify)\_\_\_\_ | |

### E: Food Security

#### Months of Adequate Household Food Provisioning (MAHFP)

* For measurement of household food access the MAHFP indicator can capture changes in the household’s ability to address vulnerability in such a way as to ensure that food is available above a minimum level the year round
* To collect data on months of adequate household food provisioning, the following questions should be added to baseline and final evaluation surveys:

|  |  |  |
| --- | --- | --- |
| **Questions and filters** | **Coding**  **Categories** | **Skip** |
| 1. Now I would like to ask you about your household’s food supply during different months of the year. When responding to these questions, please think back over the last 12 months, from now to the same time last year.   Were there months, in the past 12 months, in which you did not have enough food to meet your family’s needs?  Place A1 in the box if the respondent answers yes.  Place A0 in the box if the response is no. | [\_\_\_] | If No, ***end here*** |
| 1. If yes, which were the months in the past 12 months during which you did not have enough food to meet your family’s needs?   ***This includes any kind of food from any source, such as own production, purchase or exchange, food aid, or borrowing.***  ***Do not read the list of months aloud. Place A1 in the box if the respondent identifies that month as one in which the household did not have enough food to meet their needs.***  ***If the respondent does not identify that Month, place A0 in the box.***  ***Use a seasonal calendar if needed to help respondent remember the different Months.***  ***Probe to make sure the respondent has thought about the entire past 12 Months:*** |  |  |
| A. January |  | 1. [\_\_\_] |
| B. December |  | 1. [\_\_\_] |
| C. November |  | 1. [\_\_\_] |
| D. October |  | 1. [\_\_\_] |
| E. September |  | 1. [\_\_\_] |
| F. August |  | 1. [\_\_\_] |
| G. July |  | 1. [\_\_\_] |
| H. June |  | 1. [\_\_\_] |
| I. May |  | 1. [\_\_\_] |
| J. April |  | 1. [\_\_\_] |
| K. March |  | 1. [\_\_\_] |
| L. February |  | 1. [\_\_\_] |

#### Food Consumption Score (FCS), Household and Individual Dietary Diversity Score (HDDS / IDDS)

* Food security is measured against several indicators among them the Dietary diversity scores. The dietary diversity indicators include Household dietary diversity score (HDDS), Individual dietary diversity score (IDDS) and Food consumption score (FSC).
* Dietary diversity indicators group foods together when they are considered nutritionally similar and/or play the same role in the diet (Ruel, 2003). The complete list of food groups considered in diversity scores is shown in table below.
* The HDDS provides an indication of a household economic access to food; it’s measured at household level and is based on food groups consumed in the last 24 hours. Only foods consumed at home are considered. Questions answered by person responsible for food preparation.
* IDDS(for women and children)reflects the nutritional quality of the diet; it’s measured at the individual level and include food consumed outside the home. Questions on food consumption by children are answered by the primary care-giver. It’s based on food consumed in the last 24 hours (WDDS – Women’s Dietary Diversity Score, WRA – Women of reproductive age)
* FCS is a composite score based on dietary diversity, food frequency and relative nutrition importance of different food groups. Only foods consumed at home are considered. Scores calculated using the frequency of consumption of different food groups consumed by a household during the 7 days before the survey.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Food Group** | **Examples customize for local context always also consider other locally available food items** | **HDDS: consumed in the last 24 hours?**  *(No = 0, Yes = 1)* | **IDDS** | | **FCS** | | |
| **WDDS/WRA: consumed in the last 24 hours?**  *(No = 0, Yes = 1)* | **Child (6-23mths): consumed in the last 24 hours?**  *(No = 0, Yes = 1)* | **Consumed in the last 7 days?**  *(No = 0, Yes = 1)* | **In** **the last 7 days, how many days did you consumed these?** | |
|  | **Cereal staples or food from cereals** | *Millet, sorghum, maize, rice, wheat, bread, noodles, biscuits* |  |  |  |  |  | |
|  | **Vitamin A rich vegetables & tubers** | *Orange veg: pumpkin, carrot, orange fleshed sweet potato* |  |  |  |  |  | |
|  | **White tubers & roots** | *Potatoes, yams & sweet potato, cassava, false banana or foods made from these* |  |  |  |  |  | |
|  | **Dark green leafy vegetables** | *Okra, spinach, sukuma wiki, managu, terere, kunde, saga, pumpkin leaves* |  |  |  |  |  | |
|  | **Other vegetables** | *Tomato, onion, eggplant, cabbage, capsicum, mushroom* |  |  |  |  |  | |
|  | **Vitamin A rich fruits** | *Orange fruits: ripe mango, apricot, peach, papaya* |  |  |  |  |  | |
|  | **Other fruits** | *Apple, banana, plantain, pineapple, avocado* |  |  |  |  |  | |
|  | **Organ meat (iron rich)** | *Liver, kidney, heart, other organ meat (incl. intestine)* |  |  |  |  |  | |
|  | **Flesh meat** | *Beef, pork, lamb, goat, rabbit, wild game, chicken, other poultry* |  |  |  |  |  | |
|  | **Eggs** | *Eggs* |  |  |  |  |  | |
|  | **Fish & seafood** | *Fresh or dried fish or shellfish* |  |  |  |  |  | |
|  | **Milk & milk products** | *Milk, cheese, yoghurt, other products. Include milk in tea if >= 1/3rd of cup* |  |  |  |  |  | |
|  | **Legumes, nuts & seeds** | *Beans, peas, pigeon peas, green grams (chickpeas), lentils, nuts* |  |  |  |  |  | |
|  | **Oils and fats** | *ANY oil, ANY butter* |  |  |  |  |  | |
|  | **Sweets** | *Sweets, sugar, honey* |  |  |  |  |  | |
|  | **Spices, beverages, condiments** | *Any other foods, coffee, tea* |  |  |  |  |  | |
| ***Additional Questions:*** | | |  |  |  |  | |  |
| Is the child breastfeeding? (0 = No, 1 = Yes) | | | *(do not fill)* | *(do not fill)* |  | *(do not fill)* | | *(do not fill)* |
| How old is the child? (age in months) | | | *(do not fill)* | *(do not fill)* |  | *(do not fill)* | | *(do not fill)* |
| Number of times the child ate solid, semi-solid, or soft foods other than liquids yesterday (during the day or at night)? | | | *(do not fill)* | *(do not fill)* |  | *(do not fill)* | | *(do not fill)* |
| How was the food mostly obtained? (Code a) | | |  | *(do not fill)* | *(do not fill)* |  | | *(do not fill)* |
| **Code a) Main item source (in past night and day):** 1…Mainly self-produced, 2…Mainly purchased, 3…Mainly Gift, -66…Other (specify)\_\_\_ | | | | | | | | |

### F: Livestock Production & Marketing

#### Livestock Entries (example cattle)

* Captures livestock entering the herd within a given period (e.g. previous 12 months). One animal entry/exit (for the outflow table) per row (1 animal type, 1 breed, 1 inflow type etc.) to ensure all details are captured.
* Customize table for VC of interest e.g. code for animal type/ category and breed

Have you purchased, obtained any cattle or calf born in the last 12 months [ ] (0 = No, 1 = Yes)?, If No >>>

If **Yes**, give **individual details** on all **cattle that were purchased OR obtained:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal type** *(code a)* | **Breed**  *(code b)* | **Month entered** *(code c)* | | **Type of entry** *(code d)* | | | **Number entered herd** | **If purchased,** | | | | | | | |
| **Reason for purchase** *(code e)* | | **Where purchased** *(code f)* | | **Average price** | **Number purchased** | **Whose decision was it to purchase** *(code g)* | |
|  |  |  | |  | | |  |  | |  | |  |  |  | |
|  |  |  | |  | | |  |  | |  | |  |  |  | |
| 1. **Animal type** | | | 1. **Breeds** | | | 1. **Months** | | | 1. **Type of entry** | | 1. **Reason for purchase** | | | | 1. **Where purchased** |
| 1…Bulls (> 3 years)  2…Castrated adult males (oxen> 3 years)  3…Immature males (<3 years)  4…Cows (calved at least once)  5…Heifers (female ≥1yr, have not calved)  6…Female calves (between 8 weeks & <1yr)  7…Male calves (between 8 weeks & <1yr  8…Pre-weaning males (<8 weeks)  9…Pre-weaning males (<8 weeks) | | | 1…Holstein Friesian (pure/improved)  2…Ayrshire (pure/improved)  3…Jersey (pure/improved)  4…Mpwapwa  5…Local zebu  6…Boran  7…Cross breed (exact breed unknown)  -66…Other (specify)\_\_\_ | | | 1…January  2…February  3…March  4…April  5…May  6…June  7…July  8…August  9…September  10…October  11…November  12…December | | | 1…Bought from smallholder farm  2…Bought from individual trader/broker  3…Loan from project  4…Gift from relatives/ others  5…Obtained as dowry  6…Birth/ born on farm  -66…Other (specify)\_\_\_\_ | | 1…Replacement of old or culled animal  2…Improvement of beef production  3…Improvement of milk production  4…To sell later  5…As a way of storing money I had available at the time  6…Increase social prestige  7…Replace animal that died  8…For animal draft  9…Other (specify)\_\_\_\_\_ | | | | 1…Within the village  2…Within the division  3…Outside the district  3…Outside the province  -66…Other (specify) \_\_\_ |
| 1. **Whose decision** | | | | | | | | | | | | | | | |
| 1…HH male  2…HH female | | | | | 3…Joint HH (male & female)  4…Non-household member | | | | | | -66…Other (specify)\_\_\_ | | | | |

­­­

#### Chicken Entries

Were there any “entries” of chicken in the last 3 months? [ ] (0 = No, 1 = Yes), If No >>>

If yes, fill in the table. One row for each Type of entry x Chicken Type x Breed Type x Marketing Cha­nnel (if purchased); for the **last** **3 months**; **total** **costs** (NOT by bird).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of entry**  *(code a)* | **Chicken Type**  *(code b)* | | | **Breed Type**  *(code)* | **# of birds** | | **If purchased…** | | | | | | | | **Transportation details** | | | | |
| **Marketing channel** *(code d)* | **# purchased** | **Total cost of birds** | **Mode of payment**  *(code e)* | | **Reason for purchase**  *(code f)* | **Whose decision to purchase**  *(code g)* | | **Mode of transport**  *(code h)* | | **Distance to place of purchase (km)** | **Who pays** *(code i)* | **Cost of transport** |
| 1. |  | | |  |  | |  |  |  |  | |  |  | |  | |  |  |  |
| 2. |  | | |  |  | |  |  |  |  | |  |  | |  | |  |  |  |
| **a) Type of entry** | | | **b) Chicken Type** | | | **d) Marketing channel** | | | **e) Mode of payment** | | **f) Reason for purchase** | | | **g) Whose decision** | | **h) Mode of transport** | | **i) Who pays** | |
| 1…Birth / hatched on farm 2…Purchased  3…Loaned  4…Gift  5…Obtained as dowry  -66… Other (specify)\_\_ | | 1…Cock  2…Hen  3…Grower – male  4…Grower – female (pullet) 5…Chicks,  -66…Other (specify)\_\_ | | | | **(IF PURCHASED)**  1…Fellow farmer / individuals  2…Traders  3… Village market  4…City market  -66…Other (specify, e.g. NGO) | | | 1…Cash  2…Credit – delayed single payment  3…Credit – delayed >1 payment  4…Credit - access to goods/services on credit  5…In-kind  -66…Other (specify)\_\_\_ | | 1…Home consumption  2…For breeding/brooding  3…For laying  4…Festival  -66…Other (specify)\_\_ | | | 1…Household male  2…Household female  3…Joint household (male & female)  4…Non-household member  -66…Other (specify)\_\_ | | 1…Walking (with bird)  2…Owned car/truck/motorcycle  3…Hired car/truck/motorcycle  4…Seller brings the bird with his/her own transport  -66…Other (specify)\_\_\_ | | 1…Self  2…Seller pays  -66…Other (specify)\_\_ | |

#### Livestock exits and marketing

Have any cattle exited the household herd during the past 12 months? [ ] (0 = No, 1 = Yes)? Except death, (If No >>>). If yes, fill in the below table:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal type** *(code a)* | **Breed** *(code b)* | **Month exited**  *(code c)* | **How exited** *(code d)* | | **Number exited herd** | **If sold,** | | | | | | | | | | | |
| **Purpose of selling** *(code e)* | | | | **Average price** | **Where sold** *(code f)* | | **To whom sold?** *(code g)* | **Name of market/ trader** | | **Who decided how money is used** *(code h)* | **Inputs or goods on credit?** *(code i)* |
|  |  |  |  | |  |  | | | |  |  | |  |  | |  |  |
|  |  |  |  | |  |  | | | |  |  | |  |  | |  |  |
| 1. **Animal type** | | | | 1. **Breeds** | | | | | 1. **Month** | | | 1. **How exited** | | | 1. **Purpose of selling** | | |
| 1…Bulls (> 3 years)  2…Castrated adult males (oxen> 3 years  3…Immature males (<3 years  4…Cows (calved at least once)  5…Heifers (female ≥1yr, have not calved)  6…Female calves (between 8 weeks & <1yr  7…Male calves (between 8 weeks & <1yr  8…Pre-weaning males (<8 weeks)  9…Pre-weaning males (<8 weeks) | | | | 1…Holstein Friesian (pure/improved)  2…Ayrshire (pure/improved)  3…Jersey (pure/improved)  4…Mpwapwa  5…Local zebu  6…Boran  7…Cross breed (exact breed unknown)  -66…Other (specify)\_\_\_\_ | | | | | 1…January  2…February  3…March  4…April  5…May  6…June  7…July  8…August  9…September  10…October  11…November  12…December | | | 1…Sale (live animals)  2…Slaughter for sale  3…Slaughter - household needs  4…Slaughter because sick  5…Given away (e.g. dowry)  6…Stolen  7…Other (specify)\_\_\_ | | | 1…To meet planned household expenses  2…To meet emergency household expenses  3…Livestock trading as a business  4…Culling because not productive  5…Culling because sick  -66…Other (specify) \_\_\_\_ | | |
| 1. **Where sold** | | | | | | | | 1. **To whom** | | | | | | | | | |
| 1…Farm gate  2…Village/local general market  3…Nearest livestock market | | | | 4…Abattoir / butchery  -66…Other (specify)\_\_\_\_ | | | | 1…Other farmer  2… Trader | | | | | | 3… Butcher  -66…Other (specify) \_\_\_\_ | | | |
| 1. **Who receives and decides how money is used** | | | | | | | | | | | | | | | | | |
| 1…HH male  2…HH female  3… Joint HH (male & female) | | | | | | | 4…Non-household member  -66…Other (specify)\_\_\_\_ | | | | | | | | | | |
| 1. **Inputs or goods on credit** | | | | | | | | | | | | | | | | | |
| 1…None  2…Buyer provided access to feed on credit  3…Buyer provided access to animal health services on credit | | | | | | | 4…Buyer provided access to breeding services on credit  5…Buyer provided access to household goods on credit  -66…Other (specify) \_\_\_\_ | | | | | | | | | | |

#### Use of milk (from own production) in last six months

* Data collected over a period to factor in price and volume fluctuations over time when computing income.
* Month and year (\*\*) to be adjusted depending on period of survey

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Month milk produced** *(code)* | **Number of cows milked** | **Average volume produced per day (L)** | **Liters of fresh milk sold (morning and evening milk)** | **Average selling price** | | **Liters used/consumed by household** | | **Liters lost due to spoilage/spillage on farm** | | **Liters rejected by buyer** |
| 1. |  |  |  |  | |  | |  | |  |
| 2. |  |  |  |  | |  | |  | |  |
| Months (Year)\*\* | | | | | | | | | | |
| 1… Jan 2016 | | 2…Feb 2016 2016 | 3…Mar 2016 | | 4…Apr 2016 | | 5…May 2016 | | 6…Jun 2016 | |

#### Marketing milk and other animal products

* Milk sales data collected if liters sold the previous day or lastly was >0.
* No distance covered (0 km) if milk sold at farm gate.

| **Product type (fresh/fermented milk)** | | **Buyer/ Consumer** *(code a/b)* | | **Buyer name** | **Quantity per Day (Litres)** | | **Price/ Unit** | | **Who manages the money**  *(code c)* | **Inputs or goods on credit?** *(code d)* | **Distance to delivery point (km)** | | **Payment** *(code e)* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Milk sold, morning | 1. |  | |  |  | |  | |  |  |  | |  |
| 2. |  | |  |  | |  | |  |  |  | |  |
| 3. |  | |  |  | |  | |  |  |  | |  |
| Milk sold, evening | 1. |  | |  |  | |  | |  |  |  | |  |
| 2. |  | |  |  | |  | |  |  |  | |  |
| 3. |  | |  |  | |  | |  |  |  | |  |
| Milk consumed | 1. |  | |  |  | |  | |  |  |  | |  |
| 2. |  | |  |  | |  | |  |  |  | |  |
| 3. |  | |  |  | |  | |  |  |  | |  |
| 1. **Milk buyer** | | | 1. **Milk consumed** | | | 1. **Who manages the money** | | 1. **Inputs or goods on credit** | | | | 1. **Payment** | |
| 1...Individual consumers  2...Private milk-traders  3...Dairy co-op/ group with chilling plants  4...Dairy co-op/ group without chilling plants  5...Privatively owned chilling plants  -66...Other (specify)\_\_\_\_ | | | 1...Consumed by own household  2...Given to relatives  3...Given to laborers  -66...Other (specify)\_\_\_\_ | | | 1...Household male  2...Household female  3...Joint household (male & female)  4...Non-household member  -66...Other (specify)\_\_\_ | | 1...None  2...Buyer provided access to feed on credit  3...Buyer provided access to animal health services on credit  4...Buyer provided access to breeding services on credit  5...Buyer provided access to household goods on credit  -66 =Other (specify)\_\_\_\_ | | | | 1...Cash, no delay in payment  2...At end of month, no delay  3...At end of month, has experienced delay  -66...Other (specify)\_\_\_ | |

Do you make or sell other cattle products (e.g. ghee, manure, hides & skin) or use draft power? (0 = No, 1 = Yes) [ ], If No >>>\_\_\_\_

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Other cattle products** | **Production Unit** *(code a)* | **Number produced in last 1 month** | **Number sold in last 1 month** | | **Number of months per year produced** | **Number of months per year sold** | **Average price per unit\*** | **Who controls the money?** *(code b)* |
| Ghee |  |  |  | |  |  |  |  |
| Manure |  |  |  | |  |  |  |  |
| Hides and Skins |  |  |  | |  |  |  |  |
| Draft power |  |  |  | |  |  |  |  |
| Other, specify |  |  |  | |  |  |  |  |
| **a) Unit** | | | | **b) Who controls the money** | | | | |
| 1…Piece ; 2…Liter ; 3…kg ; 4…Number of oxen days ; -66…Other (specify)  and indicate conversion to one of listed unit types | | | | 1…Household male ; 2…Household female ; 3…Joint household (male & female) ; 4…Non-household member ; -66…Other(specify)\_\_\_ | | | | |

#### Chicken Exits (including marketing)

Were there any “exits” of chicken in the last 3 months? [ ] (0 = No, 1 = Yes), If No >>>

If yes, fill in the table. One row for each Type of exit x Chicken type x Breed Type x Marketing Channel (if sold); for the **last** **3 months**; **total** **costs** (NOT by bird).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of exit**  *(code a)* | **Chicken Type**  *(code b)* | | **Breed Type**  *(code)* | **# of birds** | | **If sold** | | | | | | | | | | **Transportation details** | | | | |
| **Marketing channel** *(code d)* | | **# sold** | **Total money received** | **Mode of payment** *(code e)* | | **Reason for sale**  *(code f)* | **Whose decision to sell**  *(code g)* | | | **Mode of transport**  *(code h)* | **Distance to place of sale (km)** | **Who pays** *(code i)* | | **Cost of transport** |
|  |  | |  |  | |  | |  |  |  | |  |  | | |  |  |  | |  |
|  |  | |  |  | |  | |  |  |  | |  |  | | |  |  |  | |  |
| **a) Type of exit** | | | | | **b) Chicken type** | | **d) Marketing channel (IF SOLD)** | | | | **e) Mode of payment** | | | | **f) Reason for sale** | | | | **g) Whose decision** | |
| 1…Died–disease ; 2…Died–accident ; 3…Died–killed by predators ; 4…Died–old age ; 5…Died–unknown cause ; 6…Sale–live chicken ; 7…Sale–slaughtered chicken | | 8…Loaned out ; 9…Slaughtered for home consumption ; 10…Gifted out ; 11…Lost, strayed ; 12…Stolen ; 13…Sacrifice – festival ; -66…Other (specify) | | | 1…Cock ; 2…Hen ; 3…Grower–male ; 4…Grower–female (pullet) ; 5…chicks ; -66…Other (specify) | | 1…Fellow farmer / individuals ; 2…Traders ; 3…Village market ; 4…City market ; 5…butchery ; 6…Slaughterhouse ; 7…Restaurant ; 8…Shop ; -66…Other (specify e.g. NGO) | | | | 1…Cash ; 2…Credit – delayed single payment ; 3…Credit – delayed >1 payment ; 4…Credit - access to goods/services on credit ; 5…In-kind ; -66…Other (specify) | | | | 1…Cash – sales as a business ; 2…Cash - for general household needs (e.g. to buy food) ; 3…Emergency Cash (e.g. to pay medical bills) ; 4…To decrease flock size ; 5…Selling less productive/old birds ; 6…Sacrificial month / festival ; -66…Other specify (e.g. dowry) | | | | 1…Household male ; 2…Household female ; 3…Joint household (male & female) ; 4…Non-household member ; -66…Other (specify) | |
| **h) Mode of transport** | | | | | | | | | | | | | | **i) Who pays** | | | | | | |
| 1…Walking (with bird) ; 2…Owned car/truck/motorcycle ; 3…Hired car/truck/motorcycle ; 4…Buyer takes the bird with his/her own transport; -66…Other (specify) | | | | | | | | | | | | | | 1…Self ; 2…Buyer pays ; -66…Other (specify) | | | | | | |

#### Marketing of chicken products

Have you sold any chicken eggs in the last 3 months? [ ] (0 = No, 1 = Yes) , If No >>>\_\_\_

If yes, complete the table below for the last **3 months** only. Fill one row per Breed x Marketing Channel.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chicken Breed Type**  *(code)* | **Marketing channel** *(code d)* | | **Average price per egg** | **Average no. days sold per week** | | **Average no. eggs sold on each of these days** | **Mode of payment** *(code e)* | **Reason for sale**  *(code f)* | | **Whose decision to sell**  *(code g)* | **Transportation details** | | | | | |
| **Mode**  *(code h)* | | **Distance to place of sale (km)** | **Who pays** *(code i)* | | **Cost of transport** |
|  |  | |  |  | |  |  |  | |  |  | |  |  | |  |
|  |  | |  |  | |  |  |  | |  |  | |  |  | |  |
| **d) Marketing channel** | | **e) Mode of payment** | | | **f) Reason for sale** | | | | 1. **Whose decision to sell** | | | 1. **Transport mode** | | | **i) Who pays** | |
| 1…Fellow farmer / individuals  2…Traders  3…Village market  4…City market  5…butchery  6…Slaughterhouse ; 7…Restaurant ; 8…Shop ; -66…Other (specify e.g. NGO) | | 1…Cash  2…Credit – delayed single payment  3…Credit – delayed >1 payment  4…Credit - access to goods/services on credit  5…In-kind ; -66…Other (specify) | | | 1…Cash – sales as a business  2…Cash - for general household needs (e.g. to buy food)  3…Emergency Cash (e.g. to pay medical bills)  4…To decrease flock size  5…Selling less productive/old birds  6…Sacrificial month / festival  -66…Other specify (e.g. dowry) \_\_\_ | | | | 1…Household male  2…Household female  3…Joint household (male & female)  4…Non-household member  -66…Other (specify) | | | 1…Walking 2…Owned car/truck/motorcycle  3…Hired car/truck/motorcycle  4…Seller brings the eggs with his/her own transport  -66…Other (specify) | | | 1…Self  2…Buyer pays  -66…Other (specify) | |

Have you sold any other chicken products in the last 3 months? [ ] (0 = No, 1 = Yes), If No >>>

If yes, complete the table below for the last **3 months** only. Fill one row per Breed Type x Product x Marketing channel.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of product** *(code a)* | **Marketing channel** *(code d)* | **Chicken Breed Type**  *(code)* | **Total Amount sold in past 3 months** | | **Money received per unit sold** | | **Mode of payment**  *(code e)* | **Reason for sale**  *(code f)* | **Whose decision to sell**  *(code g)* | **Transportation details** | | | |
| **Mode**  *(code h)* | **Distance to place of sale (km)** | **Who pays** *(code i)* | **Cost of transport** |
| **Unit**  *(code b)* | **Quantity** |
|  |  |  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Type of product** | | | | | | **b) Unit** | | | | | | | |
| 1…Chicken waste / manure ; 2…Feathers ; 3…Cock fighting ; -66…Other (specify)\_\_\_ | | | | | | 1…Number ; 2…1kg ; 3…10kg bag ; 4…25kg bag ; -66…Other (specify)\_\_\_ | | | | | | | |
| ***Reason for sale – do not include codes related to live birds (code 4 & 5), all other codes as in ‘Chicken Exits’***  ***(N.B. Chicken Breed Type can be 6 =’Mixed’ if manure and/or feathers mixed together)*** | | | | | | | | | | | | | |

### G: Livestock Productivity

* Customize production, utilization and marketing of product depending on VC**.**
* May not be possible to obtain details for each milking cow/animal if they are many in the herd due to time\budget limitations, get a representation of the herd (up to 3) and the total number corresponding to each category.

#### Dairy milk production

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| \* *fill first column only if only 1 breed owned* | | **Animal 1** | **Animal 2** | **Animal 3** |
| Breed *(1= Local, 2= Cross, and 3= Exotic)* | |  |  |  |
| Age at first calving | |  |  |  |
| Last calving date (MM/YY) | |  |  |  |
| Parity (number of live and/or still-births) | |  |  |  |
| Calving interval - if this is not the first calving (months) | |  |  |  |
| Lactation length (number of months cow is milked) | |  |  |  |
| Total Daily Milk Production (morning plus evening) in litre | At calving - initial milk production |  |  |  |
| Yesterday |  |  |  |
| Number of milking cows of each breed | |  |  |  |

#### Chicken productivity

F1 Do you have chickens that lay eggs usually? [ ] (0 = No, 1 = Yes), If No >>> \_\_\_

If yes, state the productivity of your birds (by breed type) in the following table – use recall in the past 3 months to help the household complete:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chicken breed type** *(code)* | **Age of sexual**  **Maturity (weeks)** | | **Average No. of eggs per clutch** | **Average No. of days per clutch** | **No. of times the hen hatches in a year** | **Average no. eggs per brood** | **No. of chicks hatched per brood** | **No. chicks per brood surviving to separation from hens** |
| **Hen** | **Cock** |
| 1. |  |  |  |  |  |  |  |  |
| 2. |  |  |  |  |  |  |  |  |

## Optional Modules – depending on VC area of focus

### Livestock Management:

#### Breeding services and expenses

* Customize the breeding services to suit VC of interest

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Breeding services** | | | **Own bull service** | **Other bull service** | | **AI service** |
| Which is your preferred breeding method? *(Tick as accordingly)* | | |  |  | |  |
| Reasons for preference *(code a)* | | | [\_\_] [\_\_] [\_\_] | [\_\_] [\_\_] [\_\_] | | [\_\_] [\_\_] [\_\_] |
| If you wanted to breed/serve your cow can you find and use this method? *(0= No; 1=Yes)* | | | *This var is not relevant* |  | |  |
| If yes, how many times have you used this service in the last twelve (12) months? | | | *(do not fill)* |  | |  |
| What was your total expenditure during the last 12 months? (put 0 if none) | | | *(do not fill)* |  | |  |
| What is the average cost per service? | | | *(do not fill)* |  | |  |
| Who made the decision to use the service/ service provider? *(code b)* | | |  |  | |  |
| How many different service providers can you access for this type of service? | | | *(do not fill)* |  | |  |
| Who are the providers that you can access? *(code c)* | | | *(do not fill)* |  | |  |
| What is the distance from your farm to the service providers/bull owner? | | |  | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] | | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] |
| Which breeding method don’t you like? *(Tick accordingly)* | | |  |  | |  |
| Reasons for dislike *(code d)* | | |  |  | |  |
| 1. **Reasons for preference/use of method** | | 1. **Who makes the decision to use the service / who used the service** | | | 1. **Service provider** | |
| 1…Cheap  2…Easily accessible (provider can easily be reached)  3…Readily available when cow is one heat  4…Higher success rate  5…Offers calf with desirable traits | 6…Offers access to wide variety of breeds  7…Frequently gives female calves  8…Offers access to sires with known history  9…Helps to avoid inbreeding  -66...Other (specify) \_\_\_\_\_\_\_ | 1…Household male  2…Household female  3…Joint household (male & female)  4…Non-household member  -66…Other (specify)\_\_\_\_\_ | | | 1…Other farmers  2…Community bull (bull schemes)  3…Private AI provider 4…Government/ public AI provider  5…Project/ NGO AI provider  6…Coop/ group AI provider  -66…Other (specify)\_\_\_\_\_ | |
| 1. **Reasons for non-use/dislike of method** | | | | | | |
| 1…Expensive  2…Not easily accessible  3…Not readily available  4…Low success rate  5…Produces poor quality calf | | 6…Limited access to variety of reeds  7…Frequently gives male calves  8…Unknown sire history  9…Encourages inbreeding  -66…Other (specify) \_\_\_\_\_\_\_ | | | | |

#### Feeding

* Sections interrogates main feeding systems practiced for the VC. It also explores different sources of feed including own fodder establishment, purchases, feed residues, concentrates etc.
* Customize the codes e.g. fodder/residue/concentrate type, to suit the VC and local context

***Feeding system- main system***

|  |  |  |
| --- | --- | --- |
| **Species/Breed type** | **Rainy season** *(code)* | **Dry season** *(code)* |
| Local breed |  |  |
| Cross and grade breed |  |  |
| **Feeding systems** | | |
| 1…Only grazing (free-range or tethered)  2…Mainly grazing with some stall feeding  3…Mainly stall feeding with some grazing | 4…Only stall feeding (zero grazing)  5…On transhumance, some animals  6…On transhumance, all animals | |

***Planted fodder/pasture***

Do you grow improved fodder or pasture? [ ] (0 = No, 1 = Yes), If No >>> \_\_\_

If section not applicable move to the next.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fodder type**  *(code a)* | **% land under improved fodder or pasture** | | **Cut & carry (C) or Grazed in situ (G)?** | **What seeds/planting material are you using?** *(code b)* | | **Any treatment before feeding?** *(code c)* | | **Cost per year of growing** | | **Where do you get the information on fodder/ pasture cultivation?** |
| 1. |  | |  |  | |  | |  | |  |
| 2. |  | |  |  | |  | |  | |  |
| 1. **Fodder type/pasture** | | 1. **What seeds/planting material are you using** | | | 1. **Treatment** | | | | 1. **Information Source** | |
| 1…Napier grass  2…Planted grasses e.g. Rhodes grass  3…Fodder maize  4…Fodder shrubs (Calliandra, Sesbania, Lucaenia)  5…Other fodder legumes (Desmodium, lucern, vetch)  -66…Other (specify)\_\_\_\_ | | 1…Recycled from own farm  2…Recycled from other farmers  3…Improved seeds  -66…Other (specify)\_\_\_\_ | | | 0…No treatment  1…Stored standing  2…Cut and stored loose  3…Chopped using panga  4…Hand chopped using chaff cutter  5…Motorized chopping using a pulveriser | | 6…Ensiled in situ without additives  7…Chopped and ensiled with additives (urea, molasses etc.)  -66…Other (specify)\_\_\_\_ | | 1…Extension agent  2…Research/ training institute  3…Coop or group  4…Private extension provider e.g. Agrovet shop/ company  5…NGO/ Project  -66…Other (specify)\_\_\_\_ | |

***Purchased fodder***

Do you purchase fodder? [ ] (0 = No, 1 = Yes), If No >>> \_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fodder type**  *(code a)* | **Average monthly cost during months when purchased** | | **Number of months/ year purchase is done** | | **Where purchased?**  *(code b)* |
| 1. |  | |  | |  |
| 2. |  | |  | |  |
| 1. **Fodder type/pasture** | | | | 1. **Where purchased?** | |
| 1…Napier grass  2…Planted grasses e.g. Rhodes grass  3…Fodder maize | | 4…Fodder shrubs (Calliandra, Sesbania, Lucaenia)  5…Other fodder legumes (Desmodium, lucern, vetch)  -66…Other (specify)\_\_\_\_ | | 1…Other farmers  2… Market, trader  -66…Other (specify)\_\_\_\_ | |

***Crop residues***

Do you feed cattle crop residues? [ ] (0 = No, 1 = Yes). If No >>> \_\_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Fodder type**  *(code a)* | **Are they**  *1=grown or 2=Purchased?* | **Any treatment?**  *(code b)* | **If purchased** | | | |
| **Number of months/year purchase is done** | **Average monthly cost during months when purchased (purchase, treatment)** | | **Where purchased**  *(code c)* |
| 1. |  |  |  |  | |  |
| 2. |  |  |  |  | |  |
| 1. **Crop residues** | | 1. **Treatment** | | | 1. **Where purchased?** | |
| 1… Green/dry maize stovers and thinnings  2...Cereal (wheat, barley, rice, etc) straws and millet, sorghum stalks  3…Legume (beans, cow, peas, soya, etc) haulms  4…Root and tubers peelings (potato, cassava, bananas, etc)  5…Crop by products (sweet potato vines, cassava leaves, etc)  -66…Other (specify)\_\_\_\_ | | 0…No treatment  1…Stored standing  2…Cut and stored loose  3…Chopped using panga  4…Hand chopped using chaff cutter  5…Motorized chopping using a pulveriser  6…Ensiled in situ without additives  7…Chopped and ensiled with additives (urea, molasses etc.)  -66…Other (specify)\_\_\_\_ | | | 1…Other farmers  2…Market, trader  -66…Other (specify)\_\_\_\_ | |

***Feed supplementation***

* This section to be filled by households supplementing with concentrate feeds, by-products and mineral supplements.

Do you feed cattle concentrate feeds, by- products and mineral supplements [ ]? (0 = No, 1 = Yes), If No >>> \_\_\_

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Feed type**  *(code a)* | **Average monthly cost during months when purchased** | | **Which animal types are fed with it?** *(code b)* | **Kgs fed/ animal/ day (when fed)** | | **How many months/ years do you feed these?** | | **Where purchased?**  *(code c)* | **Where did you get the info?** *(code d)* |
| 1. |  | |  |  | |  | |  |  |
| 2. |  | |  |  | |  | |  |  |
| 1. **Feed type** | | 1. **Animal type** | | | 1. **Where purchased** | | 1. **Information source** | | |
| 1…Commercial dairy meal  2…Mineral blocks  3…Bran (Maize, wheat)  4…Maize germ  5…Oilseed by-product (Sesame seed, cotton seed, copra, sunflower etc.)  6…Agro-industrial byproducts (vegetable waste, brewer’s waste etc.)  -66…Other (specify)\_\_\_\_ | | 1…All  2…Cows only  3…Lactating cows only  4…Calves only  -66…Other (specify)\_\_\_\_ | | | 1…Agrovet shop  2…Other farmers  3…Market, trader  -66…Other (specify)\_\_\_\_ | | 1…Extension agent  2…Research/ training institute  3…Coop or group  4…Private extension provider e.g. Agrovet shop/company  5…NGO/Project  -66…Other (specify)\_\_\_\_ | | |

#### Animal Health and Mortality

* This module assesses the type of animal health services available and the availability of service providers.
* Customize livestock diseases and animal health services depending on the VC

***Animal health services***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **De-Worming** | **Tick/ ecto-parasites control** | | **Vaccination** | | **Curative treatment** | | **Other (specify)\_\_** |
| Is the service available?  *(Yes=1, No=0)* | |  |  | |  | |  | |  |
| Do you use this service?  *(Yes=1; No=0)* | |  |  | |  | |  | |  |
| What was your total expenditure during the last 12 months (0 if none) | |  |  | |  | |  | |  |
| Against what diseases? *(code a)* | | *(do not fill)* | *(do not fill)* | |  | |  | | *(do not fill)* |
| How many animals got sick with the disease? | | *(do not fill)* | *(do not fill)* | | *do not fill)* | |  | | *do not fill)* |
| How many animals died due to the disease? | | *(do not fill)* | *(do not fill)* | | *do not fill)* | |  | | *do not fill)* |
| When was the last intervention? (MM/YY) (00/00 ) never) | |  |  | |  | |  | |  |
| Was the last intervention routine (R) or in response to a specific problem (P)? | |  |  | |  | |  | |  |
| Where do you usually get this service? *(code b)* | |  |  | |  | |  | |  |
| Who made the decision to use the service/ service provider? *(code c)* | |  |  | |  | |  | |  |
| Where do you learn about animal health service information? *(code d)* | |  |  | |  | |  | |  |
| Who provided the service? | | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] | | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] | | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] | | Provider 1. [\_\_]  Provider 2. [\_\_]  Provider 3. [\_\_] |
| 1. **Animal diseases** | | | | 1. **Where do you usually get this service** | | 1. **Decision making** | | 1. **Health service information** | |
| 1…I don’t know  2…Tick-borne disease [e.g. ECF, Anaplasmosis, Babesiosis etc.)  3…Other vector-borne disease: [e.g. Trypanosomosis]  4…Notifiable diseases: [e.g. FMD, Lumpy skin, Rabies, etc.]  5…Routine management-related to controllable diseases: [e.g. Foot rot, Mastitis, Worms] | 6…Nutrition diseases and complications: [e.g. Milk fever)  7…General frequent infections [e.g. Respiratory/Pneumonia, Diarrhoea etc.)  8…Skin problems (e.g. Mange etc.)  9…Reproduction diseases (e.g. Abortion)  -66…Other (specify)\_\_\_ | | | 1…Self/ Neighbour with professional advice  2…Self/ Neighbour without professional advice  3…Animal health service provider/paravet  4…Government veterinarian  5…Project/ NGO staff  6…Coop/ group staff  7…Agrovet shop  -66…Other (specify)\_ | | 1…Household head  2…Spouse  3…Joint decision (head and spouse)  4…Other male household member  5…Other female household members  6…All household members  -66…Other (specify)\_\_\_\_ | | 1…No access to information  2…Other farmers  3…Buyer  4…Farmer’s association  5…Animal health provider  6…Input supplier  7…Extension agent  -66…Other (specify)\_\_\_\_ | |

***Livestock exits (through deaths)***

Has any cattle died in the last 12 months [ ] ? (0= No; 1=Yes), If No >>>

If **Yes**, indicate, for the last 12 months, **individual details** on all **cattle that died** including calves born during the same periods that died:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal type**  *(code a)* | **Breed**  *(codes b)* | | | **Number of animal that died** | | **Cause of death/loss**  *(code c)* | **If died due to disease, what disease?** *(code d)* |
|  |  | | |  | |  |  |
|  |  | | |  | |  |  |
| 1. **Animal type** | | 1. **Breeds** | 1. **Cause of death/loss** | | 1. **What disease?** | | |
| 1…Bulls (> 3 years)  2…Castrated adult males (oxen> 3 years  3…Immature males (<3 years  4…Cows (calved at least once)  5…Heifers (female ≥1yr, have not calved)  6…Female calves (between 8 weeks & <1yr  7…Male calves (between 8 weeks & <1yr  8…Pre-weaning males (<8 weeks)  9…Pre-weaning males (<8 weeks) | | 1…Holstein Friesian (pure/improved)  2…Ayrshire (pure/improved)  3…Jersey (pure/improved)  4…Mpwapwa  5…Local zebu  6…Boran  7…Cross breed (exact breed unknown)  -66…Other (specify)\_\_\_\_ | 1…Old age /natural death  2…Died due to disease  3…Died due to injury, accidents  4…Died due to poisoning (acaricide, snake bite)  -66…Other (specify)\_\_\_\_\_\_ | | 1…I don’t know  2…Tick-borne disease [e.g. ECF, Anaplasmosis, Babesiosis etc.)  3…Other vector-borne disease: [e.g. Trypanosomosis]  4…Notifiable diseases: [e.g. FMD, Lumpy skin, Rabies, etc.]  5…Routine management-related to controllable diseases: [e.g. Foot rot, Mastitis, Worms] | | 6…Nutrition diseases and complications: [e.g. Milk fever)  7…General frequent infections [e.g. Respiratory/Pneumonia, Diarrhoea etc.)  8…Skin problems (e.g. Mange etc.)  9…Reproduction diseases (e.g. Abortion)  -66…Other (specify)\_\_\_ |

#### Livestock Housing

* Table completed in relation to housing of the animals.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cattle breed-type**  *(code a)* | **Dry season** | | | | **Rainy season** | | | | | **If housed in a structure/shed** | |
| **Main mode of housing** *(code b)* | | **Frequency of housing**  *(code­ c)* | **Animal type prioritized** *(code d)* | **Main mode of housing** *(code b­)* | | **Frequency of housing** *(code c)* | **Animal type prioritized** *(code d)* | | **Construction cost** | **When built (year)** |
| [\_\_\_\_]  [\_\_\_\_] |  | |  |  |  | |  |  | |  |  |
| [\_\_\_\_]  [\_\_\_\_] |  | |  |  |  | |  |  | |  |  |
| 1. **Cattle breed type** | | 1. **Mode of housing** | | | | 1. **Frequency of housing** | | | 1. **Animal prioritization** | | |
| 1…Local / indigenous  2…Cross-breed (between local and exotic)  3…Exotic | | 1...None  2...Tethered in an open space  3...Ropped off area, no roof  4...Permanently fenced area, no roof  5...Structure with roof  6...Structure with walls and roof (e.g. shed)  7…In the house  -66 …Other, (specify)\_\_\_\_\_ | | | | 1…Never  2…All the time  3…Night only  4…Occasionally / when need arises (e.g. mating, sick, rain)  -66…Other, (specify)\_\_\_\_\_ | | | 1…No prioritization  2…Cross-bred or exotic animals  3…Lactating or pregnant females  4…Young animals, including calves  5…Males under fattening  6…Sick / emaciated animals  -66…Other, (specify)\_\_\_\_ | | |

#### Extension & Training

* Customize the services and trainings as required

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type of services** | **Is the service available?**  *(0= No; 1=Yes)* | **Have you used this service in the last 12 months?** *(0= No; 1=Yes)* | **Who requested/received this service?** *(code a)* | **Type of training**  *(code b)* | **Extension/training/service provider** *(code c)* |
| **Extension visits** |  |  |  |  |  |
| Livestock- general |  |  |  |  |  |
| Cattle |  |  |  |  |  |
| Shoats |  |  |  |  |  |
| Poultry |  |  |  |  |  |
| Pigs |  |  |  |  |  |
| Crop |  |  |  |  |  |
| Other, specify [ ] |  |  |  |  |  |
| **Training** |  |  |  |  |  |
| Livestock in general |  |  |  |  |  |
| Cattle |  |  |  |  |  |
| Shoats |  |  |  |  |  |
| Poultry |  |  |  |  |  |
| Pigs |  |  |  |  |  |
| Crop |  |  |  |  |  |
| Other, specify [ ] |  |  |  |  |  |
| Information (other than extension and training) |  | *(do not fill)* | *(do not fill)* |  |  |
| **Financial services** |  |  |  |  |  |
| Savings |  |  |  |  |  |
| Credit |  |  |  |  |  |
| Health insurance |  |  |  |  |  |
| Domestic/home insurance |  |  |  |  |  |
| Crop insurance |  |  |  |  |  |
| Livestock insurance |  |  |  |  |  |
| **Electricity** |  |  |  |  |  |
| National grid |  |  |  |  |  |
| Solar |  |  |  |  |  |
| 1. **Who makes the decision to use the service / who used the service** | | 1. **Type of training** | | 1. **Extension/training/service provider** | |
| 1...Household male  2...Household female  3...Joint household (male & female) in HH  4...Non-household member  -66...Other (specify)\_\_\_\_\_ | | 1...Animal husbandry  2...Animal health  3...Animal feeding  4...Animal breeding (heat detection, breed selection, AI etc.)  5...Milk processing & value addition  6...Marketing  -66...Other (specify)\_\_\_\_\_\_\_ | | 1...Government (Livestock officer, extension)  2...Private provider (veterinary, paravet, Agrovet, etc.)  3...Cooperative  4...NGO/project/farmer group  5...Other farmer  6...Bank/SACCO/  -66...Other (specify)\_\_\_\_\_\_ | |

#### Labour allocation to livestock keeping

* For household currently employing a monthly paid laborer(s); provide details below:
* Customize the farm activities to suit the VC

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of labourer** | **Gender of labourer**  *(0 = Male, 1 = Female)* | | **Average working hours per day** | **Monthly wage** | **Activities engaged in** *(code)* | | **Hours of a working day dedicated to activity** |
| 1. |  | |  |  | 1. | |  |
| 2. | |  |
| 2. |  | |  |  | 1. | |  |
| 2. | |  |
| 3. |  | |  |  | 1. | |  |
| 2. | |  |
| **Farm activity code** | | | | | | | |
| 1...Crop production  2…Cattle management (other than grazing or watering)  3...Fodder/feed related | | 4...Grazing  5...Watering  6...Overall cattle management (other than grazing/feeding/watering) | | | | 7...All  -66...Other (specify) \_\_\_\_\_ | |

* For household employing household and casual labor, provide the details in table below
* Customize the activities to suit the VC.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of Activity** | **Household labor** | | | | | | | | | **Non-Household labor (Casual)** | | | | |
| **Adult Males** | | | **Adult Females** | | **Children (< 15 yrs)** | | | **Freq** *(code)* | **Hired Females** | | **Hired Males** | | **Freq** *(code)* |
| **No. people** | | **Hrs / person** | **No. people** | **Hrs / person** | **No. people** | | **Hrs / person** | **No. people** | **Hrs / person** | **No. people** | **Hrs / person** |
| 1. Grazing |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Feeding (+ collecting & preparation) |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Fodder/feed production on farm |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Providing water to the animals |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Cleaning of animal shed/shelter |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Collection of Farm Yard Manure (FYM) |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Milking and milk processing |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Selling milk |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Selling animals/ animal products (except milk) |  | |  |  |  |  | |  |  |  |  |  |  |  |
| 1. Crop production |  | |  |  |  |  | |  |  |  |  |  |  |  |
| -66…Other (specify)\_\_\_ |  | |  |  |  |  | |  |  |  |  |  |  |  |
| **Average wage per day (local currency/day)** | *(do not fill)* | | *(do not fill)* | *(do not fill)* | *(do not fill)* | *(do not fill)* | | *(do not fill)* | *(do not fill)* |  | |  | | *(do not fill)* |
| **Average working hours per day** | *(do not fill)* | | *(do not fill)* | *(do not fill)* | *(do not fill)* | *(do not fill)* | | *(do not fill)* | *(do not fill)* |  | | | | *(do not fill)* |
| **Frequency of activity code** | | | | | | | | | | | | | | |
| 1… [\_\_] per day | | 2… [\_\_\_] per week | | | | | 3… [\_\_\_\_\_\_\_\_] per month | | | | 4… [\_\_\_\_\_] per year | | | |

### Member groups & Access to credit

Is there any household member who is a member of a group? (0 = No, 1 = Yes) [ ], If No, >>> \_\_\_

If Yes enter details of the group member in the table below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of group** | **Type of group** *(code a)* | **Main function that this group performs for you** *(code b, up to 2)* | | **How many men in the household belong to this group?** | | **How many women in the household belong to this group?** |
| 1. |  |  | |  | |  |
| 2. |  |  | |  | |  |
| 1. **Type of groups (main function)** | | | 1. **Main functions** | | | |
| 1...Social/ welfare & community development groups  2...Savings and credit groups/Sacco  3...Agricultural producer groups  4...Livestock producer groups  5...Agricultural marketing groups  6...Livestock marketing groups  -66...Other (specify)\_\_\_\_\_ | | | 1...Provides access to milk market  2...Provides access to inputs and services for dairy  3...Provides training/ advisory for dairy  4...Provides access to market for crops | | 5...Provides access to inputs and services for crops  6...Provides training/ advisory for crops  7...Provides ways to save money and get credit  8...Social functions and networking  -66...Other (specify)\_\_\_\_ | |

* + 1. Has any household member needed credit in the last 6 months? 0 = No; 1 = Yes [\_\_]
    2. Has any member of your household received credit in the last 6 months? 0 = No; 1 = Yes [\_\_]
    3. If yes, enter details for all loans/credit obtained by any household member in last six (6) months

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Who received credit?**  *(code a)* | **Source of credit**  *(code b)* | **Reason for credit** *(code c)* | **Amount received** | **Repayment period (months)** | | **Interest charged on loan** | **Did the loan require collateral?** *(0 = No; 1 = Yes)* | | **Type of collateral** *(code d)* |
| 1. |  |  |  |  | |  |  | |  |
| 2. |  |  |  |  | |  |  | |  |
| 1. **Who received credit?** | | 1. **Source of credit** | | | 1. **Reason for credit** | | | 1. **Type of collateral** | |
| 1…HH male  2…HH female  3…Joint HH (male & female)  4…Non-household member  -66…Other [specify)\_\_ | | 1…Local micro-credit bank  2…Relative  3…Friend  4…Input supplier  5…Milk trader/transporter  6…Milk processor  -66…Other (specify) \_\_\_\_\_ | | | 1…HH expenditure (food, education, health etc.)  2…Investment in crop production  3…Investment in livestock production  4…Purchase of fixed assets (e.g., land)  5…Repay another loan  -66…Other (specify) \_\_\_\_\_\_ | | | 1…Livestock  2…Land  3…HH item  4…Crop harvest  5…Milk sales  -66…Other (specify) \_\_\_\_\_ | |

### Detailed risk & management of shocks

I will now ask you about the unfavorable events that have occurred to the household since 2008 to this date (last ten years)

| **Since 2002 to this day, was the household negatively affected by any of the following events**  ***1---yes***  ***2---no* →go to next event** | | **Rank the 3 most significant shocks you experienced - put (1) for most severe, (2) for 2nd most severe, and (3) for 3rd most severe** | | **In which year(s) did this occur? (YYYY)** | **QUESTIONS BELOW SHOULD BE ASKED ONLY FOR THE THREE MOST SEVERE SHOCKS AS NOTED IN QUESTION 2** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **How long did the impact of the event last?**  **(days; 888 if on-going)** | **How big was the impact?**  **0…No impact**  **1…Low**  **2…Medium**  **3…High** | **Estimate the value of the loss due to the event** | | **What did the household do to cope with this?**  *(code a)* | **Who was affected by the shock?** *(code b)* | **How many months did it take for the household to come back to normal after the shock?** |
| 1. Drought | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Flooding | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Pests or diseases that affected almost all crops before harvest | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Pests or disease attack that led to storage losses of crops | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Pests or diseases for livestock | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Adverse weather affecting ASF production | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Theft of fish, crops or livestock | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Theft of production tools and equipment | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Theft of cash | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Destruction of housing | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Death of adult household member | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Disablement of adult household member | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Disablement of child household member | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Decrease in output prices | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Increase in input prices | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Increase in food prices | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Job loss by household member | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Forced loss of tenancy of land | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Forced migration of household | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Communal crisis | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Fire outbreak | [ ] |  | |  |  |  |  | |  |  |  |
| 1. No market for products | [ ] |  | |  |  |  |  | |  |  |  |
| 1. Non-payment by a buyer | [ ] |  | |  |  |  |  | |  |  |  |
| -66. Other (specify)\_\_\_\_\_\_ | [ ] |  | |  |  |  |  | |  |  |  |
| 1. **Coping strategy** | | | | | | | | | | | |
| 1…Reduce consumption  2…Reduce non-food consumption  3…Work harder  4…Took up additional occupation  5…Household migrated to search for job 6…Took children out of school  7…Use savings  8…Sold assets  9…Sold livestock | | | 10…Sold land  11…Sold crops  12...Formal insurance  13…Borrow from moneylender  14…Borrow from relative  15…Borrow from non-relatives  16…Borrow from commercial bank  17…Borrow from credit cooperatives  18…Buy goods on credit | | | | | 19…Gift from relatives  20…Gift from non-relative  21…Help with labour from relatives  22…Help with labour from non-relatives  23…Help from government  24…Help from NGOs  25…Help from mosque/church  -66…Other (specify)\_\_\_\_ | | | |
| 1. **Who was affected by the shock** | | | | | | | | | | | |
| 1...Head only  2…Spouse only  3…Head and spouse | | | 4…Male children only  5…Female children only | | | | | 6…Male and female children  7…All household | | | |

### Breed / Trait Preference

Do you select specific breeds for breeding purposes? [ ] (0 = No, 1 = Yes), If No, >>> \_\_\_\_

If yes, complete the table below:

|  |  |  |
| --- | --- | --- |
| **Trait** | **Is this trait important?**  *(0=No, 1= Yes)* | **If yes, please rank\*** |
| 1. Milk yield |  |  |
| 1. Milk quality (% fats) |  |  |
| 1. Sale value of calves |  |  |
| 1. Adaptability to local conditions |  |  |
| 1. Disease resistance |  |  |
| 1. Easy to manage or handle |  |  |
| 1. Feed intake |  |  |
| 1. Reproductive qualities |  |  |
| 1. Calf mortality |  |  |
| 1. Coat colour |  |  |
| 1. Udder conformation or size |  |  |
| 1. Live weight or size of animal |  |  |
| -66 Other (specify)\_\_\_\_\_\_ |  |  |
| Level of importance: (\*Ranking by order of importance) | | |
| 1… Most important; 2…Second most important etc. | | |

What are the cattle breed types that the respondent owns, manage or knows (use the table of cattle breed codes)?

1. Local breed: [\_\_\_\_] [\_\_\_\_]; [\_\_\_\_] [\_\_\_\_]; [\_\_\_\_] [\_\_\_\_]
2. Cross breeds: [\_\_\_\_] [\_\_\_\_]; [\_\_\_\_] [\_\_\_\_]; [\_\_\_\_] [\_\_\_\_]
3. Exotic breeds: [\_\_\_\_] [\_\_\_\_]; [\_\_\_\_] [\_\_\_\_]; [\_\_\_\_] [\_\_\_\_]

If the respondent has knowledge of more than one breed-type, fill the table in relation to the most and least preferred breed-type

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Breed type** | **Preference**  *(code a)* | | **Specific breed code, if known**  *(codes in livestock table)* | | **Main reasons for preference** *(code b or code c)* | |
| Local breed |  | |  | |  | |
| Cross breed |  | |  | |  | |
| Pure breed |  | |  | |  | |
| 1. **Preference** | 1. **Main reason for preference** | | | 1. **Reason for inconvenience** | | |
| 1…High preference  2…Moderate preference  3…Low preference  4…Indifferent | 0…No reason  1…High milk yield  2…Good milk quality  3…High sale value of calves  4…Well adapted to local conditions  5…Good disease resistance  6…Easy to manage  7…Low feed intake  8…Good reproductive rates | 9…Low calf mortality  10…Nice coat colour  11…Adequate conformation of the udder  12…Weight and conformity of the animal  13…Fast growth  14…Adapted to long to walk  -66… =Other (specify)\_\_\_\_ | | 0…No inconvenience  1…Low milk yield  2…Poor milk quality  3…Low sale value of calves  4…Poorly adapted to local conditions  5…Poor disease resistance  6…Hard to manage  7…High feed intake | | 8…Poor reproductive rates  9…High calf mortality  10…Bad skin colour  11…Inadequate shape and size of the udder  12…Inadequate weight and conformity of the cow  13…Poor growth rate  14…Not adapted to long walk  -66…Other (specify)\_\_\_\_ |

### Household Detailed Expenditure

* At times it may be difficult to accurately measure household income for a number of reasons (Shea and Kiersten, 2004)[[1]](#footnote-1). As an alternative, household consumption expenditures are often used as a proxy for income. This is based on the basic economic division of income by use: Y= C+S+T (where Y is income, C is consumption, S is savings, and T is taxes). It presumes that savings and taxes are almost nil or are proportional to income so that the distribution of income does not change with the level of income and that savings do not vary among households at the same level of income.
* If a household used own production, estimating the quantity used will be enough. To come up with reasonable estimates, ask on weekly, monthly and annual basis depending on indications given in parenthesis in each section.
* A given household is not expected to use all items included in the table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Agricultural items** | **Purchased** | | | **Non-agricultural items** | **Purchased** | | |
| Unit | Quantity | Total value paid | Unit | Quantity | Total value paid |
| **Cereals (per month)** |  |  |  | **Household stuff (per week)** |  |  |  |
| Teff |  |  |  | Sugar |  |  |  |
| Maize |  |  |  | Coffee |  |  |  |
| Wheat |  |  |  | Oil (edible) |  |  |  |
| Barley |  |  |  | Salt |  |  |  |
| Sorghum |  |  |  | Spices |  |  |  |
| Finger millet |  |  |  | Kerosene |  |  |  |
| Rice |  |  |  | Fire wood |  |  |  |
| Millet |  |  |  | Others (detergents…) |  |  |  |
| Finger millet |  |  |  | **Household furniture** |  |  |  |
| Other cereals |  |  |  | **Clothes (Per year)** |  |  |  |
| **Pulses (per month)** |  |  |  | HH head |  |  |  |
| Beans |  |  |  | spouse’s clothes |  |  |  |
| Peas |  |  |  | Children’s clothes |  |  |  |
| Chickpea |  |  |  | Refreshments (drinks) |  |  |  |
| Vetch |  |  |  | Telephone bill |  |  |  |
| Lentil |  |  |  | Electric bill |  |  |  |
| Other pulses |  |  |  | **Implement, and equipment (Per year)** | | | |
| **Oilseeds (per week**) | | | | Farm implements |  |  |  |
| Noug |  |  |  | Farm equipment |  |  |  |
| Sesame |  |  |  | Household equipment |  |  |  |
| Rapeseed |  |  |  | **Service fee (per year)** |  |  |  |
| Linseed |  |  |  | Education/school fee |  |  |  |
| Other oilseeds |  |  |  | Human Health service |  |  |  |
| **Fruits and vegetables (per week)** | | | | Land tax |  |  |  |
| Mango |  |  |  | Land rent (paid out) |  |  |  |
| Banana |  |  |  | Property tax |  |  |  |
| Orange |  |  |  | Other fees/contributions |  |  |  |
| Avocado |  |  |  | Dairy products **(per week)** |  |  |  |
| Papaya |  |  |  | Milk (cow milk) |  |  |  |
| Guava |  |  |  | Sheep/goats milk |  |  |  |
| Lemon |  |  |  | Butter |  |  |  |
| Apple |  |  |  | **Meat** |  |  |  |
| Pineapple |  |  |  | Beef **(Per month)** |  |  |  |
| **Vegetables (per week)** | | | | Mutton **(Per year)** |  |  |  |
| Onion |  |  |  | Goat meat **(Per year)** |  |  |  |
| Tomato |  |  |  | Others |  |  |  |
| Green paper |  |  |  | Eggs **(per week)** |  |  |  |
| Hot paper |  |  |  | Honey **(Per year)** |  |  |  |
| Cabbage |  |  |  |  |  |  |  |
| Carrots |  |  |  |  |  |  |  |
| Beat root |  |  |  |  |  |  |  |

## Annex 1 - Calculation of indicators



1. Shea O.R and Kiersten Johnson, 2004. The DHS Wealth Index. DHS Comparative Reports No.6. Calverton, Maryland: RC Macro [↑](#footnote-ref-1)