

Baseline Study of the FIOVANA Resilience Food Security Activity in Madagascar



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IMPEL | Implementer-Led Evaluation & Learning Associate Award



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ABOUT IMPEL

The Implementer-Led Evaluation & Learning (IMPEL) Associate Award works to improve the design and implementation of Bureau for Humanitarian Assistance (BHA)-funded resilience food security activities (RFSAs) through implementer-led evaluations and knowledge sharing. Funded by the United States Agency for International Development (USAID) BHA, IMPEL will gather information and knowledge in order to measure performance of RFSAs, strengthen accountability, and improve guidance and policy. This information will help the food security community of practice and USAID to design projects and modify existing projects in ways that bolster performance, efficiency, and effectiveness. IMPEL is a seven-year activity (2019-2026) implemented by Save the Children (lead), TANGO International, Tulane University, Causal Design, and Innovations for Poverty Action.

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ACRONYMS

ADRA	Adventist Development and Relief Agency
BL/EL	Baseline/Endline
BHA	Bureau for Humanitarian Assistance
BMI	Body mass index
CEA	Cost-Effectiveness Analysis
CER	Cost-Effectiveness Ratio
FCS	Food Consumption Score
FIES	Food Insecurity Experience Scale
HAZ	Height for age Z-score
HFC	High frequency checks
ICC	Intra-class correlation
IE	Impact evaluation
IMPEL	Implementer-Led Evaluation & Learning
IP	Implementing partner
IRB	Internal Review Board
M&E	Monitoring & evaluation
ODK	Open Data Kit
OLS	Ordinary Least Squares
PAP	Pre-Analysis Plan
PCA	Principal components analysis
PI	Principal Investigator
PII	Personally identifying information
RCT	Randomized control trial
RFSA	Resilience Food Security Activity
WASH	Water, sanitation, and hygiene
WAZ	Weight-for-age Z-score
WHO	World Health Organization
WHZ	Weight-for-height Z-score
UID	Unique identifier
USAID	United States Agency for International Development

ANNEX C: PRE-ANALYSIS PLAN

1. DESCRIPTION OF STUDY

Causal Design is part of the Implementer-Led Evaluation and Learning (IMPEL) consortium, the Bureau for Humanitarian Assistance's (BHA) primary mechanism for carrying out the evaluations of the resilience food security activities (RFSA) in Madagascar. Causal Design's support for this project will include a survey and evaluation design of the Adventist Development Relief Agency (ADRA) FIOVANA RFSA. Over the course of the implementation period, Causal Design will conduct an Impact Evaluation study using an experimental evaluation (randomized control trial (RCT)) approach comprised of:

- A Pre-Analysis Plan that will outline the sampling strategy, survey design, outcomes for the analysis, estimation strategy, and additional methods (as appropriate).
- A Baseline Report that will summarize and analyze BL survey data.
- An Impact Evaluation Report that will use the BL and EL data to estimate the impact of the RFSA.
- A Cost-Effectiveness Analysis (CEA) at EL, tied to the impact evaluation data.

This pre-analysis plan (PAP) outlines the experimental approach for evaluating the effectiveness of the FIOVANA RFSA. It outlines the overall evaluation design and approach, data collection and management protocols, and methods of analysis for each component of the evaluation.

1.1 Impact Evaluation Overview

Causal Design will conduct an Impact Evaluation using BL and EL survey data in the intervention areas of the FIOVANA RFSA in Madagascar. A BL survey for the FIOVANA RFSA will be carried out in the second quarter of 2021 and a corresponding EL survey will be conducted in the second quarter of 2025. Additionally, a cost-effectiveness analysis as designed below will be carried out in conjunction with the EL report.

Overview of BL Study: The BL study will rely on quantitative methods to measure BL indicators collected in the RFSA target area between April and May of 2021. The survey will provide BL data on the status of communities and households across BHA standard indicators. Causal Design will work closely with BHA and relevant stakeholders to identify other key learning objectives and ensure that the BL survey and study are able to contribute to this learning where possible.

Overview of EL Study: The EL study will collect survey data from the same communities and households in the BL survey to estimate the ability of the RFSA intervention to directly impact household food security and well-being indicators as listed in BHA's standard indicators. The EL study will be carried out between April and May of 2025 to mirror the timing of the BL survey and allow suitable time for any potential benefits to occur. The same, or slightly modified, survey will be administered to the same households as in the BL activity to ensure comparability across the two time periods.

Overview of Cost-Effectiveness Analysis: Final details of the design of the CEA will be included in the finalized pre-analysis plan. This will include a detailed methodology for the CEAs associated with each of the two RFSA that outlines the data required to conduct the analysis along with any processes that are

required to ensure that the proper program monitoring, and financial accounting data can be captured. The full results of these analyses will rely on data from the impact evaluation following the EL studies along with relevant program data. The results of the CEAs will be presented in the EL report.

2. EVALUATION APPROACH

2.1 Research Objective

The evaluation uses a randomized controlled trial design which randomized the communities which would receive RFSa support in the southeastern region of Madagascar. The primary objective of the impact evaluation will be to measure the impact of the FIOVANA RFSa on improving food security and related outcomes in the targeted communities and determine possible attribution to changes in key indicators. The evaluation seeks to inform the larger knowledge base around the efficacy of the RFSa among vulnerable populations and how benefits to vulnerable households can be further maximized.

2.1.1 Research Question

What is the impact on food security, nutrition and other well-being outcomes in targeted communities that receive development, nutrition, and food security support from the FIOVANA RFSa?

2.2 Evaluation Design

The evaluation team will implement a cluster RCT, designed to estimate the direct impact of the RFSa package of intervention activities. The approach will use statistical analysis to estimate the direct impact on communities receiving RFSa support using standard BHA food security and health indicators.¹ The design will maximize the ability for the research to measure direct and attributional impacts and will employ statistical tools and methodologies, specifically randomization, ex-ante matching, and regression analysis. The CEA, combined with the impact evaluation findings, will allow the research team to explore a value-for-money dimension that assesses program effectiveness.

The following sections outline the specific identification, randomization, and sampling strategies for the impact evaluation as well as the CEA methods and strategy.

2.2.1 Identification Strategy

Per the goals and objectives of reducing food insecurity and promoting well-being and welfare among beneficiary communities, the FIOVANA RFSa aims to provide a range of support activities to a large number of households in Madagascar. These activities will include the provision of food assistance, market support for specific agricultural outputs, as well as maternal health support for mothers and their children, particularly in the early stages of childhood development. The evaluation will compare the outcomes in treatment communes receiving FIOVANA activities to those same outcomes in control communes.

¹ <https://www.usaid.gov/food-assistance/partner-with-us/implementation-and-reporting>

Selection criteria: ADRA shared the criteria used to determine commune intervention eligibility in the districts of Farafangana, Manakara, Mananjary, Vangaindrano, Vohipeno, and Vondrozo. Based on these criteria, 123 communes of 178 analyzed were deemed eligible.

Commune-level identification: Following an in-country field visit and evaluability assessment in January 2020, village or fokontany-level randomization was deemed infeasible because, (1) of the number of planned commune-level interventions, and (2) the logistical and political complications arising from excluding fokontany from food aid within a commune. In the Madagascar context, communes have an average population of over 11,000, which would generally be considered too populous to be considered as a functional cluster for a randomized study. However, given the geographic scope of the project, there are a sufficient number of communes (123) that can be leveraged to move forward with an RCT design. As a result, the research team has worked with the ADRA to randomize rollout of their program at the commune level with the intention of later sampling fokontany within the commune for future data collection. Based on initial calculations, commune-level randomization would be adequately powered to detect most outcomes of interest (see sample size assumptions and Figure 1 below).

2.2.2 Randomization Strategy

Ex-Ante matched pairs: A matched pair randomization approach was used to ensure better balance prior to BL data collection compared to stratified random sampling. In matched pair randomization, units are first matched based on variables related to outcomes. In other words, communes that look “similar” based on available data are paired together. One unit from each pair is then randomly assigned to treatment and the other to control.

Observational groupings were made in Excel based on a stepwise approach that accounted for (1) being in the same district, (2) having similar population totals, (3) having similar distances to the district capital, and (4) having an ongoing USAID project. Matching assignments were then reviewed for common support. Other criteria were considered but there was little variation in other factors such as poverty levels or duration of the lean season. There were 3 communes that were unmatched due to outlier values on one or more of the characteristics.

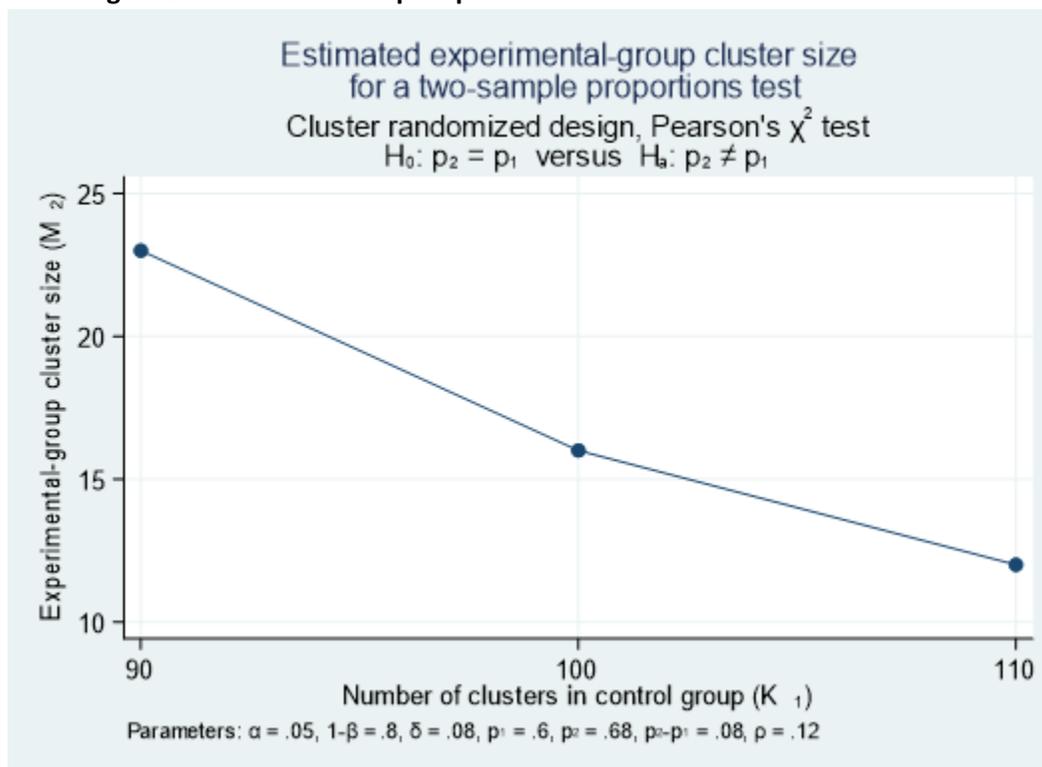
The groupings were shared with ADRA during the January 2020 field visit. The ADRA team was asked to review the initial groupings and modify them as needed based on additional knowledge, including geographic location (for example, coastal versus inland) or other characteristics deemed relevant for the types of interventions that might be carried out. ADRA was also given the opportunity to flag any communes that they would not want to be considered for randomization for programmatic or logistical reasons. To ensure that exclusion did not indirectly contribute to bias within the sample, these communes, along with their associated matched commune, would be taken out of consideration for treatment assignment. Initial feedback from ADRA’s technical and implementation team resulted in a grouping of 54 identified pairs, meaning 54 communes each in treatment and control. ADRA was then free to implement programs in the 15 remaining unassigned communes.

2.3 Sampling Strategy and Power Calculation

Sample size: The following assumptions were used to calculate the needed sample size for the BL and EL surveys.

- Sample size is based on a cluster randomized design.
- Intra-class correlation (ICC): Our calculations assume an ICC of 0.12. The ICC estimate comes from HAZ scores in the Madagascar Enquête Anthropométrique et Développement de l'Enfant 2011 household data.²
- Confidence level of 95%.
- Power level of 80%.
- Expected reduction in stunting over the life of the project of 8 percentage points.
- Inflation Factor for number of households with children under 5 years of age to sample: From the aforementioned 2011 data set, 24% of the population is under 5 years in the provinces of Toliara and Fianarantsoa. This implies an inflation factor of 1.2.
- Non-response factor: Our calculation assumes a non-response factor of 5%.

Figure 1: Households sampled per cluster and number of clusters needed³



Sampling: The figure above illustrates 100 clusters per arm and 16 households per cluster would be required to meet the sample size assumptions listed in the previous section. The evaluation design can meet this requirement by selecting two fokontany (or fokontany groups) in each of the 54 communes per arm. However, in order to capture sufficient children under 5 years and to account for attrition (non-response), the study would require 4,282 households total, or 20 households per cluster.⁴ We will

² Madagascar Enquête Anthropométrique et Développement de l'Enfant 2011 household data. More up to date data was not available through the national census as of the creation of this calculation. As a result, this data was used for its focus on child anthropometry.

³ The calculations use Stata software. The command used is "power twoproportions .60, diff(.075) k1(95, 96, 97, 98, 99) rho(.1) onesided graph"

⁴ According to our calculations: $2 * 108 * 16 * 1.18 * 1.05 = 4,282$ households total, or 20 households per cluster.

develop a justification for sampling additional fokontany for higher population communes if needed. This will be determined after constructing an updated list of fokontany and population in each commune.

The research team will work with the FIOAVANA team to gather relevant fokontany level information and apply a similar matching approach to the selection of fokontany within treatment and control communes. Among matched commune pairs, fokontany will be selected to reflect general similarities across variables that are likely related to outcomes.

2.4 Cost-Effectiveness Analysis

The CEA for the FIOVANA activity will focus specifically on the cost-effectiveness over the course of its entire implementation, and specifically the overall impact of emergency and development activities.

This analysis will be viewed from the following dimensions:

- Impact results data measuring key outcomes of the economic non-emergency and emergency activities.
- Detailed cost per outcome calculations for selected and relevant units of key outcomes; and,
- Perceptions of effectiveness from the implementers.

The conclusions will contribute to building a body of knowledge towards understanding the cost-effectiveness of resilience, food security, and emergency interventions.

2.4.1 CEA Perspective

The CEA will use the donor's perspective of costs and outputs: often called the **program perspective**. While this perspective does not capture the true cost of providing economic development interventions to society (such as the cost of the farmer's time or materials), it is a useful perspective for understanding the cost-effectiveness of activities. This perspective is often used to understand where cost savings can be achieved for the implementing organizations (IPs). It is also done to compare alternative development approaches for achieving the same outcome or output. In the program perspective, expenditures by external stakeholders (e.g., households) will *not* be included in the final cost-effectiveness analysis, but these will be considered and discussed as leveraged contributions from other parties.

2.4.2 Activity-Based Costing

We will use activity-based accounting of project delivery costs.⁵ This approach allows for a detailed, disaggregated understanding of the implementation costs by the activities that make up an intervention. This approach will be facilitated by the total non-salary costs accounting done by ADRA and its implementing partners. This should provide more information on activities where economies of scale or efficiencies can be achieved, which may be useful for future program design and management decisions and may also be helpful for understanding the cost for scaling any interventions.

⁵ Sometimes referred to as bottom-up costing.

Activity costs will be disaggregated into at least the following project implementation costs, and there may be additional categories in the coming years:

- Nutrition
- Health
- Agriculture and Livelihoods
- Water, Sanitation, and Hygiene (WASH)
- Resilience
- Environment⁶

ADRA will track its administration costs separately (e.g. project staff salaries, equipment, supplies, fringe benefits). We will also try to include indirect expenses from its headquarter staff, or those who are not billable entirely to FIOVANA. However, these costs will not vary by activity and will be treated separately (see analysis section below).

2.4.3 Period of Analysis and Real Figures for all Cases

The timeline for both the cost and the measure of outputs will be from the beginning of the BL evaluation data collection (2021) until EL data collection (2025). We will use 2021 as a base year (using real figures by removing inflation from the analysis).⁷

2.4.4 Cost-Effectiveness Ratio

The analysis will evaluate the cost-effectiveness ratio (CER) of the incremental impact resulting from economic development funding. The CER will reflect the cost on a per unit basis, with different measures of effectiveness for the units. These measures of effectiveness are incremental outcome measures that will come directly from the impact evaluation. The ratio takes the form below:

$$CER = \frac{Fixed\ Costs + Activity\ Costs}{Measure\ of\ Effectiveness}$$

A discussion on fixed and activity costs and which measures of effectiveness might be used are included in the CEA Analysis section below.

2.4.5 Qualitative Context for Interpretation CEA Results

To complement the CER results, we will also interview key stakeholders to better understand where they perceive any cost efficiencies to exist and what may have been driving those results. Once the CER results are available, interviews with project managers and other key stakeholders will explore qualitative aspects of the economic development and emergency interventions. This line of inquiry will

⁶ Environment includes only natural resource management or any activities that are part of activity delivery. Salaries for staff engaged in environmental compliance, M&E, financial management, etc. will be tracked separately as part of the activity's fixed costs.

⁷ Base year means the analysis will be done in 2021 USD. This implies that inflation in years after 2021 will be removed from the cost calculations, allowing for a comparison on real costs alone.

help the evaluation team understand what aspects of implementation may have been rather expensive and any strategies for making the implementation more affordable.

Finally, we will leverage these interviews to understand whether the CEA results might be capturing non-FIOVANA activities and if that might lead to interventions appearing more or less cost-efficient than they would be in the absence of the actions of external stakeholders. There are also other funds that will directly contribute to project implementation, namely an ADRA matching contribution.

Key questions for the qualitative CEA inquiry include:

- Have the planned outcomes been achieved, and if not, why not? Was this due to implementation challenges or to other factors, independent of the project's ability to deliver?
- Was the project able to leverage resources from other parties? What other costs were there (beyond ADRA's implementing partners) that were incurred for FIOVANA's achievements?
- What other interventions were operational in the same areas as FIOVANA that may have helped contribute to FIOVANA's achievements?
- From your perspective, what aspects of this intervention were done cost-effectively? Why? Which aspects were not done cost-effectively? Why not?
- What were unexpected costs or relatively expensive costs in the FIOVANA program?

Additionally, we will thoroughly review project documentation (e.g., quarterly and annual reports and the midterm evaluation) for possible cost variations and their causes.

3. DATA COLLECTION

All questionnaires will be drafted initially in English using Open Data Kit (ODK) software. After receiving approval from BHA, IMPEL and IPs, Causal Design will translate surveys into French and Malagasy utilizing local partner staff. Causal Design will then engage an outside firm to provide back translation into English to ensure accuracy of the survey tools.

3.1 Survey Design

Impact Evaluation: Causal Design intends to implement the same household questionnaire at both the BL and EL periods. The foundation of the survey will draw from selected BHA indicators from the BHA baseline/endline indicators handbook⁸ as confirmed by BHA, IMPEL and IPs in the Inception Workshop in March 2020. Where required, surveys will be adapted to local context and adjustments will be made between survey periods. The questionnaires include a combination of the following modules:

- Module A: Household identification and informed consent
- Module B: Household roster
- Module C: Food access (e.g., FCS and FIES)
- Module D: Children's nutrition and health
- Module D: Anthropometry
- Module E: Women's nutrition, breastfeeding, and antenatal care

⁸ <https://www.usaid.gov/food-assistance/documents/ffp-indicators-handbook-part-i-indicators-baseline-and-endline-surveys-rfsa>

- Module F: Household water, sanitation, and hygiene
- Module G: Agriculture
- Module H: Household Poverty
- Module K: Gender Access to Credit and Group Participation
- Module J: Gender–Cash
- Module R: Resilience Module

Community-level data: In addition to the household surveys, a short community-level survey will be conducted at the fokontany level to gather information available at the local level such as development and aid projects operating in the area and local public services.

3.2 Outcome Indicators

The list of outcome indicators for the FIOVANA RSFA are in the appendix. These indicators reflect discussions with USAID-BHA and reflects intervention programming that will be implemented by ADRA in target areas. These indicators are also listed in the BHA baseline/endline indicators handbook referenced in section 3.1 above.

3.3 Enumerator Training

Causal Design has engaged its local partner to recruit and train enumerators. Survey manuals and other training materials will be developed prior to the training period. The Causal Design team will monitor practice surveys during the training to verify comprehension and functionality of the instrument and performance of the enumerators.

Anthropometric data collection and training: Causal Design has engaged its local partner to staff anthropometry specialists onto the data collection team to provide training of anthropometric measurement as well as oversight during the data collection period. Anthropometrists will develop the required training curriculum and provide demonstration training to ensure standardization of measurement practices among enumerators. These measurements will comply with all current WHO standards and practices.

3.4 Data Management

Data protocols: Questionnaires will be drafted using ODK and all household survey data will be collected with electronic tablets utilizing SurveyCTO, a standard data collection application that allows for secure data storage and options for monitoring data quality. Incoming survey data will be monitored by Causal Design staff to flag potential enumeration errors early in the data collection process. In accordance with best practices and regulation around human subject testing and data privacy, access to personally identifiable data will be limited, and anonymized data will be utilized for analysis. Data management protocols will also be approved by a U.S. certified Internal Review Board (IRB) and Madagascar’s Ethical Research Review Board prior to any data collection, storage, and analysis.

Initial validation: Causal Design will work closely with IPs and BHA to review preliminary findings in accordance with the contextual validation activity outlined in previously.

Quality assurance: Causal Design’s internal Data Management Protocol (see Annex) outlines the activities and strategies that the research team implements to ensure that all data collection efforts meet industry and sector standards and expectations. This includes assurance that the data reflect high levels of USAID’s five data quality standards:⁹ validity, reliability, precision, integrity, and timeliness. These efforts are then mapped onto the wider phases of the project to demonstrate when they are being implemented and at what level. A full version of this protocol is available upon request.

4. ANALYSIS

To assess the impact of the FIOVANA intervention over the course of the program, the Causal Design team will (1) present preliminary descriptive analysis utilizing baseline data, (2) conduct regression analysis to estimate the impact utilizing both baseline and endline rounds of data, and (3) estimate the cost effectiveness of the package of intervention.

4.1 Descriptive Analysis

The preliminary analysis using the BL data will show the extent to which the randomization was successful in achieving balance at BL. The regression analysis can then correct for any imbalances by adding additional controls as needed. At EL, the team will calculate basic statistics across outcome measures and test for any bias introduced by attrition in the sample or other threats to validity.

4.2 Impact Analysis

The evaluation activities will use Ordinary Least Squares or OLS¹⁰ for continuous outcomes and linear probability models for binary outcomes. As needed, the research team will incorporate additional specifications that are meant to enhance statistical power, increase the validity of constructed comparison groups, or both. Examples include ANCOVA methodology that can be used to better account for BL levels of indicators and outcomes of interest. All analysis will be performed using STATA, a data analysis software tool.

Based on the original research question, “What is the impact on food security, nutrition and other well-being outcomes in targeted communities that receive development, nutrition, and food security support from the FIOVANA RFSA?”, the evaluation will use the BL and EL data to estimate the impact of FIOVANA on indicators observed at EL:

$$\text{Well-being (EL)} = \text{Well-being (BL)} + \text{FIOVANA (treatment)} + \text{Controls (BL)}$$

The final IE model will estimate the average effect of the full intervention package on households within treated clusters, compared to households in control areas. The basic ANCOVA model:

$$(1) \quad y_{ij} = \beta_0 + \beta_1 T + \beta_2 y_{ij0} + \varepsilon_{ij}$$

⁹ Conducting Data Quality Assessments | Program Cycle | Project Starter

¹⁰ In statistics, ordinary least squares (OLS) and linear probability models (LPM) are methods for estimating the unknown parameters in a linear regression model. They are standard econometric methods used to establish and estimate empirical relationships between outcomes and a range of explanatory factors

Where y_{ij} refers to the outcome variable for individual or household i in cluster j at EL; T is the treatment dummy; ε_i is the error term. In this instance y_{ij0} refers to BL values for the same outcome indicator.

$$(2) \quad y_{ij} = \beta_0 + \beta_1 T + \beta_2 y_{ij0} + \theta_k + \varepsilon_{ij}$$

Equation (2) adds the set of matched-pair dummies θ_k . Although the random selection of households and villages ensures the regressors in (1) and (2) are exogenous, we include a third specification controlling for various household-level X_{ij} and village-level X_j covariates in equation (3). This is because randomization was done prior to the BL with limited information. Therefore, we cannot rule out the possibility of imbalance in some dimensions.

$$(3) \quad y_{ij} = \beta_0 + \beta_1 T + \beta_2 y_{ij0} + \beta_3 X_{ij} + \beta_4 X_j + \delta_j + \theta_k + \varepsilon_{ij}$$

Subgroup analysis: To explore how the impact of the FIOVANA programming varies for different types of households, we will conduct subgroup analysis. In particular, this analysis can help shed light on particular baseline resilience capacities that are most predictive of endline food security outcomes. Subgroups of interest will be defined together with ADRA based on the resilience capacities that are of most interest to them. Indicators collected during the baseline data collection will be used to define different subgroups of households based on their baseline resilience capacities. We will use the following specification to estimate heterogeneous treatment effects on food security outcomes across these predefined subgroups:

$$(4) \quad y_{ij} = \beta_0 + \beta_1 T + \beta_2 S_i + \beta_3 (S_i * T) + \beta_4 y_{ij0} + \beta_5 X_{ij} + \beta_6 X_j + \delta_j + \theta_k + \varepsilon_{ij}$$

Where S denotes whether household i is included in the subgroup. Alternatively, if ADRA does not have ex ante hypotheses about baseline resilience capacities that are most important for food security, we can identify potentially important resilience capacities using a data driven approach. Specifically, we will estimate heterogeneous treatment effects using the causal forests algorithm to identify which baseline resilience capacities have the largest variation in endline food security outcomes.¹¹ This algorithm allows us to assess all possible subgroups of households versus defining subgroups ex ante and may identify important resilience capacities outside of our original set of hypotheses. We will report both the characteristics of the subgroups identified by the algorithm as well as the impact of the program for these groups.

Sampling weights: The evaluation will include results of both weighted and unweighted estimations. Sampling weights will be calculated as the inverse of the product of the probabilities of selection from each of the stages of selection (e.g., district, commune, fokontany, household, eligible individual selection). Separate weights will be calculated for indicators and adjusted to compensate for household and individual non-response.

Standard errors and p-values: Standard errors will be clustered at the commune level. Given the large number of outcome variables, it is important to consider that as the number of outcomes tested

¹¹ Wager, S., & Athey, S. (2018). Estimation and inference of heterogeneous treatment effects using random forests. *Journal of the American Statistical Association*, 113(523), 1228-1242.

increases, the likelihood of finding a statistically significant effect when there is no true effect (Type I error) increases. To account for this, we will report both the standard p-values and the p-values corrected for Family-Wise Error Rate and the sharpened q-values corrected for the False Discovery Rate. To generate q-values, outcomes will be organized into outcome ‘families’ according to sector (i.e. food security, child nutrition and health, women’s health, WASH, agriculture, poverty, gender dynamics and resilience).

Anthropometry:¹² In line with standard practice, child nutritional status indicators (stunting, underweight, and wasting) will be derived from World Health Organization (WHO) growth reference standards (z-scores).¹³ These z-scores are the HAZ (height-for-age), WAZ (weight-for-age), and WHZ (weight-for-height), relating to stunting, underweight, and wasting, respectively. Cases where z-scores fall outside plausible lower and upper bound ranges for Madagascar will be documented and excluded from the analysis. Processes for indicator creation and cleaning will be conducted for all rounds that capture anthropometric data. Women’s body mass index (BMI) will be used to measure nutritional status where the BMI is the ratio of the weight in kilograms to the square of the height in meters (kg/m²). However, due to COVID-19 protocols, we will only collect weight for children under 5 years at BL. We plan to collect all anthropometric and maternal weight indicators at the EL.

Attrition and missing data: In the case of significant levels of attrition, BL data on originally selected households will be compared with BL data of households that are present at EL. The research team will be able to test if attrition (or non-response) was imbalanced (by regressing the attrition dummy on treatment status) and/or non-random (by regressing the attrition dummy on various outcome indicators measured at BL). If attrition was found to be non-random and imbalanced, we can construct Lee Bounds—a conservative measure of the upper and lower bounds based on the most extreme sample selection—or conduct Inverse Probability Weighting.

Analysis will not attempt to impute missing data points and responses will be ignored for the purposes of impact analysis. This will apply to questions where respondents refused to answer, stated an inability to answer, or otherwise unable to respond. Cases of implausible data will be shared with the enumeration team to verify the validity of the response or understand the root of the error.

4.3 Supplementary Analysis on Resilience Indices

In addition to the impact analysis described above, we will conduct additional descriptive analyses on the BL 8 (Adaptive Capacity Index), BL 9 (Absorptive Capacity Index), and BL 25 (Transformative Capacity Index). The goal of this analysis is to provide additional insights on which elements of adaptive, absorptive and transformative capacities are driving the overall index scores in order to provide useful programming insights for ADRA. This analysis will be conducted at endline for both baseline and endline adaptive, absorptive and transformative indices in order to provide insights for ADRA on which capacities were relatively strongest and weakest at both points in time and which have seen the most growth over the evaluation period. To assess this, we will report the weights on the index subcomponents generated from the principal components analysis (PCA) procedure. We will also assess how these weights compare to

¹² Due to precautions around the coronavirus pandemic, the research team will omit measurement of stunting from the baseline analysis and conduct single difference estimation of impact for these indicators.

¹³ https://www.who.int/childgrowth/standards/Technical_report.pdf

the overall distributions of each subcomponent to determine which subcomponents are most driving the overarching index scores.

4.4 Cost-Effectiveness Analysis

Measures of effectiveness for the economic development and emergency programming are proposed below. These measures were identified based on how closely these results can be attributed to FIOVANA’s economic development and emergency programming. At the same time, we have also tried to identify measures that can best capture the full extent of the economic development and emergency funding and its results, or at least reflect most of the activities. These overall outcome measures could include costs per:

- Reduced incidence of people living on less than \$1.90 per day
- Household with reduced poor or borderline food consumption score (FCS)
- Increased incidence of children under five years of age with a healthy weight

All measures of effectiveness will come from the impact evaluation specified above and will reflect the incremental benefit attributable to the economic development and emergency funding.

4.4.1 Cost Data

As indicated in the CER explained above, cost data will be captured for fixed costs and for activity costs in the year in which the expense occurs. Definitions and collection plans for each type of cost are outlined below.

Fixed costs: Fixed costs are those costs that do not change based on the implementation of activities. Fixed costs include the salaries of the senior project management personnel (e.g., the Chief of Party), financial, contract, and monitoring and evaluation (M&E) staff. Additional fixed costs such as rent, security, and utilities that were incurred in Madagascar will also be considered (we will not include non-Madagascar fixed costs which might slightly underestimate the costs of project implementation, but we believe the burden of collecting the data will be high). This data will need to be collected in cooperation with ADRA.

Activity Costs: Activity costs are operational costs. Data for these costs (and the associated activity-based costing) will be pulled from the ADRA financial database. Our team has already confirmed with ADRA that their financial data can be disaggregated according to the activities identified in section 2.4.2 above). To the extent possible, we will provide detailed cost data for the materials that were required for implementation of each activity (e.g., labor, transportation, and infrastructure).

Costs will be collected for ADRA and their partners.

4.4.2 Cost-Effectiveness Analysis Results

As the Impact Evaluation is focused on measuring the impact of the FIOVANA package compared to a control group, or population without access to the FIOVANA intervention, the associated CEA will only be able to produce one cost-effectiveness ratio per outcome measure identified above. For example, our results may suggest that it costs \$15 per household to deliver the FIOVANA RFSA to households with

poor or moderate FCS scores. Without another treatment arm to there is no immediate relevant comparison group to compare this figure to. As a result, the question becomes whether \$15 per household is relatively cost-effective.

To answer that question, we would need to compare this cost-effectiveness ratio to another cost-effectiveness ratio for a program with the same outcome measure. Additionally, we might look at program implementation in different geographic areas for the same project to understand differences in cost-effectiveness.

The limitations of just one treatment means that we cannot compare the cost-effectiveness ratio against any other aspect of the FIOVANA project, which potentially will limit our ability to draw conclusions about whether FIOVANA has been implemented cost-effectively.

However, there are several other external programs that may help characterize or provide some insights about the relative effectiveness of FIOVANA:

- We believe that we may be able to compare these results to a cost-effectiveness analysis from another RFSA impact evaluation in Malawi that is ongoing, although it is too soon to tell how this impact evaluation and CEA will be structured.
- We anticipate that we can compare the FIOVANA CEA results to the CEA results for the Maharo project in Madagascar, which will use the same outcome measures and cost accounting. The impact evaluation results for FIOVANA and Maharo are measuring different programming, but this may provide some insights as to the cost value of economic development programming only (as measured in Maharo) compared to economic development in combination with emergency-response support (as measured in the FIOVANA impact evaluation).
- Finally, we will review literature to identify other similar programming, such as Feed the Future activities that were subject to an impact evaluation and measured cost-effectiveness using the same outcome measures. We believe this specific criterion will limit the amount of evidence that may be available for comparison; however, it may be possible to impute cost-effective ratios with available information (e.g., we may be able to create our own cost-effectiveness ratios if impact evaluations provide overall program costs and the same outcome measures).

There will be limitations to comparing FIOVANA CEA results directly to any of these other programs listed above, specifically related to the similarity of the programming. All limitations will be discussed in the final report.

Furthermore, with more impact evaluations requiring cost-effectiveness analysis, eventually there will be a body of research available to begin to compare RFSA interventions to understand where programming was relatively cost-effectively implemented.

4.4.3 Qualitative Data

Without the ability to benchmark the CERs, we intend to complement our understanding of these results in interviews with key stakeholders (in the form of key informant interviews). These interviews will take place after the cost-effectiveness analysis is complete, and contingent on the availability of the stakeholders for interviews. Selected interviewees for key informant interviews will be individuals with relevant experience and who are knowledgeable about project implementation and the associated costs

to provide rich insight. Currently, we anticipate these key informant interviews to be held with project management and possibly USAID personnel who are very familiar with the implementation of the interventions—but we may also include external stakeholders or direct participants. These interviews will be semi-structured interviews, driven by the methodology questions identified earlier in this document, as well as the results of the CEA analysis.

5. DATA MANAGEMENT PLAN

The objective of this section is to provide detailed guidance towards Causal Design’s policy and protocols when storing, coding, and reporting data collected or shared with any staff member. All staff members including permanent salaried staff, permanent/part-time consultants, and previous staff are bound to uphold these agreements as part of their employment agreement with Causal Design as indicated in the employee handbook.

If any violations or accidental sharing of information that is not encrypted is mistakenly shared outside of Causal Design. The staff member shall immediately notify the Chief Privacy Officer (Keith Ives, also CEO) and the appropriate notifications will be sent to the IRB, clients, and any study participant whose data has been compromised.

This handbook drawn from an array of resources around data management and data quality assurance mechanisms including:

Handbook for Safeguarding Sensitive Personally Identifiable Information. Department of Homeland Security, March 2012.

Callahan, Mary Ellen. Handbook for Safeguarding Sensitive Personally Identifiable Information, Handbook for Safeguarding Sensitive Personally Identifiable Information § (2012).

“Research Protocols.” Innovations for Poverty Action, August 23, 2018. <https://www.poverty-action.org/researchers/research-resources/research-protocols>.

Chuang, Erica, Harrison Diamond Pollock, and Stephanie Wylstra. “Reproducible Research: Best Practices for Data and Code Management.” Innovations for Poverty Action, November 2015.

5.1 Data Quality

- Create inception plan before launching survey operations: The inception plan is an operational plan that covers timelines, staffing needs, logistics, and procurement for your survey, for all stages including questionnaire development, training, piloting, tracking, interviews, and quality assurance. Your inception plan must be in line with your budget(s); for example, you cannot survey more respondents in the baseline than your budget estimated—without overspending during your endline.
- Create data quality assurance plan and materials before launch: The data quality assurance plan lays out in detail the requirements for back checks, high frequency checks, accompaniments, spot checks, and any other data quality assurance activities. The scope of the data quality assurance plan should not only include technical products, but also data flow, roles and responsibilities,

reporting schedules, actionable items based on output, and incentive programs for the field team. It also includes your staffing needs, which may change over the course of the survey.

- Bench test survey (ideally at least two weeks in advance): Bench testing means testing your survey in the office with a minimum of three different testers. You will save time and money by making sure your survey works well BEFORE launching field data collection. Bench testing is an iterative process wherein testers run the survey in different scenarios and provide feedback, while the programmer(s) make changes; note that even small changes to a survey must go through the bench testing process again, as it is easy to make mistakes that affect other parts of the survey. This process works best if the "paper" survey is considered mostly complete and has already been reviewed by central decision-makers on the project.
- Pilot survey (ideally at least one week in advance): Every survey must be piloted prior to the beginning of the survey in communities outside your study sample. Your pilot should look as close to actual surveying as possible — you may even decide not to tell your field team it is a pilot. Ideally, every question that is included in the final survey should be piloted prior to launch. For surveys using Digital Data Collection, a pilot should include field testing of both the survey program and devices. Remember to leave time to make corrections to errors you identified during piloting.
- Accompany surveyors in first week of survey: Field supervisors must accompany a subset of field officers' interviews to monitor field officer performance and to check for survey issues. All field officers must be personally accompanied at least once during the first week of the survey. Accompaniments can be scaled down as the survey progresses, especially by leveraging digital supplements like audio recordings and meta-data.
- Implement and act on high frequency checks: High frequency checks provide insight into ongoing field team and data quality concerns before they become too entrenched or too late to manage. By running HFCs, you can regularly analyze (comparative) field officer performance, compliance with ethics requirements, response frequencies and outliers, duplicates, and other project-specific data quality issues. HFCs are meant to provide the evidence needed to successfully guide and manage a field team on a daily basis, and thus must be accompanied by strict guidance on roles and responsibilities, reporting schedules, and triggered actions (e.g. what outliers would trigger re-interviewing a household).
- Implement and act on back checks: A back check (also known as a field audit or re-interview) refers to when a highly qualified field officer (also known as a back-checker) visits a respondent a second time to re-administer a selection of questions from the original questionnaire. Those back check responses are then compared to the original responses. An IPA generated code bcstats program can be used to identify discrepancies between answers, and thus to identify problems with the questionnaire, field team, or both. Your quality assurance plan should have included a back check randomization plan, as well as an action plan for what to do when you encounter discrepancies.
- Double enter & reconcile paper surveys: Although paper surveying is now uncommon, there are strict protocols for data entry from paper surveys. Each survey must be entered by two separate data entry operators who cannot compare responses. When there are discrepancies between their entries, they must be reconciled by a third data entry operator who looks at the original survey closely. In-house data entry can be replaced by online firms, which also provide double entry and allow for you to review discrepancies against the original survey responses.

5.2 Data Security & Research Ethics

If the IRB is used on your project:

- The Principal Investigator (PI) is responsible for maintaining Institutional Review Board (IRB) approval throughout project lifecycle (e.g. submissions, renewals, amendments, human subjects certificates): Any study conducting human subjects research must have the approval of at least one IRB; note that each project is different, so you should consult with your PIs and IRB Coordinator about how best to get IRB coverage for your project. A typical lifecycle includes approval of the initial research protocol, annual renewals, and amendments when critical items change, such as the questionnaire, staffing, research protocol, or risk level. All project staff, partners and investigators who can see encrypted personally identifying information (PII) must have up-to-date human subjects' certificates. Any deviation from the protocol, or any unexpected risk to respondents, must be reported as unexpected events to the IRB. Use Salesforce to keep track of all IRB approvals and upcoming renewal dates.
- Retire your project with all IRBs once the project is complete: Once your study is complete, you should retire or otherwise officially close out your IRB with all the reviewing IRBs. For the Causal Design IRB, you should retire your study when (A) all study interventions and activities are complete, and (B) you are no longer actively, regularly working with identified data. Other IRB(s) may have slightly different standards or procedures, so you should check with your reviewing IRB administrator(s) where relevant as well.

Whether the IRB is used on your project or not:

- Create data security plan and set up encryption (using Whisp.ly to transfer between partners <https://whisp.ly/en?>) before launch: Respondents' confidential data should be encrypted **at all stages**, starting at the moment of data collection. This includes while it is on the data collection device, during wireless transmission, while on an external server (e.g., Kobotoolbox, Commcare, SurveyCTO, etc.), when it is on a cloud storage system (e.g., Google Drive or Dropbox), and while on laptops and removable media (hard drives, flash drives). Any time the data is stored on a server that is not controlled by Causal Design; it must be separately encrypted so that the company that controls the server cannot access the data. You must plan beforehand how you will ensure encryption at each of these steps, and how it will be maintained after your project has been officially closed if you are retaining any PII. **If you are using any IRB any un-encrypted data is uploaded to the cloud or e-mailed, you must file an unexpected event report to your IRB(s) and comply with any ruling they make. If you are not using an IRB you should report this to the Chief Privacy Office of Causal Design, Keith Ives.**
- Maintain data security plan (especially encryption) throughout project lifecycle: At every stage of the project lifecycle, data should be properly protected. Among other things, this means personally identifying information (PII) should remain encrypted during storage and transmission, and passwords should be restricted to the critical members of your research staff.
- Use new UID in deidentified dataset: When you share or publish un-encrypted data, it must be deidentified, i.e. there must be no identifying information in the dataset, such as name or address, or a combination of variables that can be used to identify a respondent. You should also replace your original unique identifier (UID) with a new unique identifier. You should do this at the end stage of your project, when you have finished matching across waves or different data collection activities.

5.3 Knowledge Management & Transparency

- Back up data in at least two locations: There must be at least two copies of the data available at all times. During data collection, this will likely mean on a KoboToolBox/SurveyCTO/CommCare server, as well as on a laptop and synced to Google Drive; do not delete server data until it has fully synced to Google Drive as a protection from laptop theft. Post data collection, this could mean backing up your data on an external hard drive on the extremely rare chance that a major cloud service like Google Drive fails.
- Save ALL project files to and ONLY to Google Drive: Causal Design project files must be stored in the My Drive\3_CD_Projects superstructure on Google Drive. This includes in particular: raw data files, final versions of questionnaires, back check questionnaires, survey manual, project log and survey notes, high frequency check files, analysis do-files, IRB documentation, and replication code.

5.4 Data Storing/ Sharing guidelines

The following bullets are intended for projects which are completed and are going to be stored long term on the Google Drive or any other survey.

5.4.1 Detailed Steps for Preparing Data and Code:

Remove personally identifiable information (PII): Check thoroughly for PII, and make sure to remove before sharing with the data repository team.

- All direct identifiers such as unique IDs (social security numbers, bank account numbers, and so on) should be removed before storing or with the. Indirectly identifying data such as combinations of variables which could uniquely identify participants should also be considered carefully before storing or sharing data.

Include clear variable labels and code value labels:

- Make sure that variables are clearly labeled.
- If it is a variable collected directly from the questionnaires, indicate this with a question number. If it is constructed, either include the construction in the name or label, or if complex/lengthy, include additional information in notes.
- Ensure that value code labels are provided, as they are needed for interpreting the data.

Include code file(s) with headers/comments:

- **Headers:** Include header with name of person who last wrote/edited the code, date, and software used (package and version).
- **Comments:** Use comments in the code to indicate which tables are produced.

Prepare Readme files:

- Please indicate: 1) which files are included in what is shared; and, 2) how data and code files relate (i.e., what code runs on which data, to produce which outputs). We have a template for readme files that we are happy to share and is located on every project folder.

Include survey instruments:

- Ensure that you are sharing the final version used to collect the data.

5.4.2 Data Curation Steps That Data Repository Staff Will Complete

As the data repository team works on the dataset submitted, we will conduct the following three steps to ensure the quality of the materials that we share in our repository.

Confirming there is no personally identifiable information (PII) shared in data or code files

- It is the responsibility of the original researcher(s) to ensure that PII is removed, and IRB protocols do not permit sharing PII with the data repository team. However, the DR Unit will double-check that PII is removed before sharing, because of the high level of importance of maintaining confidentiality of research participant’s information.

Examining data and code for usability:

- The data repository team will examine variable names and labels, value codes, and the statistical code. As a part of sharing high-quality data, we will attempt to fill in variable labels and/or notes in the dataset where we are able to glean further information from published tables or communication with researchers. Where there are a large number of unclear variables, we may ask the researcher(s) to improve the dataset before publishing.
- We will run the statistical code to ensure that it produces the published tables.

Checking and sharing related materials:

- Supplementary readme file: As we conduct our data curation steps, we will track and share information that will help site users understand the steps that we took, and what we found. We will confirm with the original researcher before sharing this file along with the data.
- Study-level metadata: We have created a custom template with fields that we will fill in from all studies.

5.4.3 Project Language for Quality Assurance and Control

The following plan outlines the activities and strategies that the research team intends to put in place to help ensure that the data collection for the IMPEL meets industry and sector standards and expectations. This includes assurance that the data reflect high levels of the following dimensions: validity, reliability, precision, integrity, and timeliness (USAID 2016). These efforts are then mapped onto the wider phases of the project to demonstrate when they are being implemented and at what level.

Table 1. Data Quality Assurance Activities

Project Phases	Data Quality Assurance Activity	Quality Dimensions
Phase I: Discovery and Design	Literature Review and Sector Assessment	Validity
	Indicator Mapping	Validity
	Questionnaire Designed to Promote Proper Response Coding	Integrity
Phase II: Collection	Integration of Data Collection Activities with Existing IMPEL staff capacity	Reliability/Integrity
	Develop Data Collection Protocols and enumerator training	Reliability
Phase III: Analysis	Preliminary Data Spot Checks	Integrity
	Enumeration team review and Feedback	Validity
Phase IV: Reporting	Scheduled Analysis and Reporting	Timeliness

Validity

The research team will work closely with IMPEL and BHA project staff to ensure that the indicators and research design are valid measures. This is primarily addressed through efforts leading up to the proposed design of research activities. In this case, the research team combines the following to ensure that the proposed indicators and methods are valid for the scope of the research:

- **Literature Review and Sector Assessment** of current thinking and practice focused both on wider academic and implementation-based publications and on IMPEL specific reports and projects related to measurement; and
- **Sector Experts** feedback and consultation is included into all phases of the baseline.

Analysis created as a result of research efforts will undergo stakeholder review to further ensure that findings are interpreted correctly and account for contextual realities.

Reliability

The research team will also ensure that protocols are put in place to ensure consistency in data collection efforts. This includes the creation and implementation of training (if necessary), sampling, and data collection protocols, which undergo internal peer-review.

Precision

At the outset, the project will build on efforts to ensure data *validity* and utilize the literature review, desk research, and project documentation to comment on and revise our *analysis plan* that connects theories of change pathways to research objectives.

Integrity

Data integrity within the IMPEL program is delivered through specific systems and processes that manage data entry and safeguards to ensure proper data input.

The data input will rely on the following ecosystem:

- The questionnaire will be designed to provide clear instruction on proper response coding;
- Daily updates to our server will ensure proper data input by centralizing data input across data collectors; and
- The research team will conduct *spot checks on data* taken during the population survey.

Timeliness

In order to ensure data timeliness, the research team has created a project work plan to ensure that scheduled analysis quickly follows data collection in order to guarantee that relevant findings can inform project implementation decisions and strategy.

5.4.4 Quality Assurance

During the implementation of this research, our Team Lead, Reimar Macaranas, supported by Causal Design’s Project Management Office, will use state-of-the-art enterprise resource planning software to manage the project timeline, budget, and resources, to ensure high-quality, on-time delivery of all work products. Causal Design uses Intuit’s suite of programs, which integrates timesheets, accounting, staff availability, budgeting, and project management functions to provide integrated access to all information needed to effectively manage projects. Mr. Macaranas will adhere to Causal Design’s policy that any changes to implementation plans, or timelines are immediately updated in this system, to ensure we can always provide a real-time estimate of the expected resources necessary to complete a task or project, including both staff time and budget.

Causal Design also understands the paramount importance of QA/QC on all work products and technical deliverables, and of effective and frequent communication between the Team Lead and IMPEL. Causal Design’s “no surprises” policy requires all project managers to keep clients regularly informed about progress, challenges, solutions, and concerns. IMPEL will therefore always be fully informed of all relevant activities and immediately consulted when guidance is needed. This policy ensures that the Causal Team and KWSH will be partners in critical decision making on, and problem resolution in, all matters.

5.4.5 Quality Control

Quality Control for all products will be managed by Mr. Reimar Macaranas. His academic training, years of leadership in research and evaluation, and role as Chief Operations Officer will be utilized to ensure all the Team’s products meet or exceed the expectations of IMPEL. Mr. Macaranas will also provide executive-level oversight and senior technical review of all project tasks and deliverables. He will ensure IMPEL has access to the Causal Team’s key technical personnel that can answer questions at any time. He will verify that Causal Design’s rigorous QC procedures are implemented and ensure that all deliverables submitted to IMPEL meet the highest quality standards and require minimal rounds of

revision. These quality control systems will ensure that the Causal Team provides the highest possible quality services to IMPEL with minimal service disruption.

5.4.6 Data Processing and Procedures

Quantitative data will be collected using tablets and stored in a secure cloud-based server; analysis will be done using STATA. Causal Design will manage team for doing the data clean up, data entry, data analysis and reporting.

5.4.7 Ethical Considerations

We will ensure that our team, including all enumerators and contractors working on the project, adhere to the ethical guidelines outlined in the American Evaluation Association’s Guiding Principles for Evaluators. The Causal team has experience in preparing IRB protocols for evaluations. For many evaluations, we have successfully worked with Solutions IRB to obtain IRB clearances on domestic and international studies.

After recruiting household survey participants, we will obtain informed consent for each person to be interviewed. We will explain the purpose of the study, the topics of the interview/focus group, the person’s rights as a participant, including that their responses will remain confidential, and that participation is voluntary. We will provide contact information for the study investigators and appropriate IRB(s) (if used). The data collectors will review the information to be collected. We will use plain language and translate into Khmer. Participants will provide oral consent. The Causal Team will work with IMPEL to obtain any necessary national or local IRB clearances as appropriate.

6. APPENDIX

Table 2. FIOVANA RFSA Indicators List

BL #	FIOVANA RFSA Indicators	Relevant Modules
BL 6	Prevalence of moderate and severe food insecurity in the population, based on the Food Insecurity Experience Scale (FIES)	C
BL 10	Percent of households with poor, borderline, and adequate food consumption score (FCS)	C
BL 3	Prevalence of wasted (WHZ <-2) children under 5 years (0–59 months)	D
BL 4	Prevalence of stunted children (HAZ <-2) under 5 years (0–59 months)	D
BL 5	Prevalence of healthy weight (WHZ < 2 and > -2) among children under 5 years (0–59 months)	D
BL 12	Prevalence of children 6–23 months receiving a minimum acceptable diet (MAD)	D
BL 13	Prevalence of exclusive breastfeeding of children under 6 months of age	D
BL 14	Percent of children under age 5 who had diarrhea in the prior 2 weeks	D
BL 15	Percent of children under 5 years old with diarrhea treated with Oral Rehydration Therapy	D
BL 39	Prevalence of children 6–23 months consuming a diet of minimum diversity (MDD-C)	D
Custom	Percent of children under age 5 years who had fever, diarrhea or acute respiratory infection (ARI) in the past 15 days received treatment within 24h from a health facility or health service	D
BL 7	Prevalence of underweight (BMI < 18.5) women of reproductive age	E
BL 11	Percent of women of reproductive age consuming a diet of minimum diversity (RiA)	E
BL 26	Percent of births receiving at least four antenatal care (ANC) visits during pregnancy	E
BL 36	Percent of women in a union who have knowledge of modern family planning methods that can be used to delay or avoid pregnancy	E
BL 37	Percent of women in a union who made decisions about modern family planning methods in the past 12 months	E
Custom	Percent of WRA and Adolescent girl practicing modern family planning methods (MFPMs)	E
BL 16	Percent of households using basic drinking water services	F
BL 17	Percent of households with soap and water at a handwashing station on	F

BL #	FIOVANA RFSA Indicators	Relevant Modules
	premises	
BL 18	Percent of households in target areas practicing correct use of recommended household water treatment technologies	F
BL 19	Percent of households in target areas practicing open defecation	F
BL 27	Percent of households with access to a basic sanitation service	F
BL 21	Percent of producers who have applied improved management practices or technologies	G
BL 22	Yield of targeted agricultural commodities within target areas	G
BL 29	Percent of farmers who used financial services (savings, agricultural credit, and/or agricultural insurance) in the past 12 months	G
BL 30	Percent of farmers who practiced the value chain interventions promoted by the activity in the past 12 months	G
Custom	Number of months of household food self-sufficiency as a result of improved agricultural production programing	G
BL 1	Prevalence of Poverty: Percent of people living on less than \$1.90/day	H
BL 2	Depth of Poverty of the Poor: Mean Percent shortfall of the poor relative to the \$1.90/day	H
BL 40	Daily per capita expenditures (as a proxy for income) in USG-assisted areas	H
BL 32	Percent of women and men in a union who earned cash in the past 12 months	J
BL 33	Percent of women in union and earning cash who report participation in decisions about the use of self-earned cash	J
BL 34	Percent of women in union and earning cash who report participation in decisions about the use of spouse/partner's self-earned cash	J
BL 35	Percent of men in union and earning cash who report spouse/partner participation in decisions about the use of self-earned cash	J
BL 41	Percent of women/men in a union who are members of a community group	K
BL 42	Percent of women/men in a union with access to credit	K
BL 43	Percent of women/men in a union who make decisions about credit	K
BL 8	Adaptive capacity index	R
BL 9	Absorptive capacity index	R
BL 23	Ability to recover from shocks and stresses index	R

BL #	FIOVANA RFSAs Indicators	Relevant Modules
BL 24	Percent of households that believe local government will respond effectively to future shocks and stresses	R
BL 25	Transformative capacity index	R
BL 38	Index of social capital at the household level	R
BL 31	Percent of households participating in group-based savings, micro-finance, or lending programs	R/K

ANNEX D: DATA COLLECTION TOOL

Question

A02. District

Answer

FARAFANGANA
 MANAKARA ATSIMO
 MANANJARY
 VANGAINDRANO
 VOHIPENO
 VONDROZO

A03. Commune

IARA
 BEMA
 LOHAFARY
 ANILOBE
 VAHITRAMBO
 FONILAZA
 LOPARY
 TSIATELY
 RANOMENA
 TSIANOFANA
 BEKARAOKY
 MATANGA
 MASIANAKA
 AMBATOLAVA
 MAROKIBO
 MAHABE
 FENOAMBANY
 SANDRAVINANY
 TATAHO
 MANGATSIOTRA
 MAROFARIHY
 AMBILA
 MIZILO GARA
 AMBAHATRAZO
 ANOROMBATO
 VOHIMASY
 LOKOMBY
 VATANA
 SAKOANA

Question

Answer

AMBANDRIKA
AMBALAROKA
MITANTY
BEKATRA
VINANITELO
AMPASIMANJEVA
NIHAONANA
MAVORANO
VOHIMASINA NORD
VOHIMASINA SUD
FENOMBY
AMBALAVERO
MAHAMAIBE
ANTEZA
AMBOHITROVA
AMBOHITSARA EST
MAHELA
ANDRANAMBOLAVA
ANDRANOMAVO
MAROSANGY
MAHATSARA SUD
MAROKARIMA
ANTSENAVOLO
ANKATAFANA
ANOSIMPARIHY
SANDROHY
TSARAVARY
TSARAHAFATRA
MAROFODY
AMBOROBE
LANIVO
ANDEMAKA
SAHALAVA
MAHAZOARIVO
(VOHIPENO)
ILAKATRA
ANKARIMBARY
ANOLOKA

Question

Answer

- SAVANA
- IVATO
- VOHITRINDRY
- IFATSY
- ANTANANABO
- VOHINDAVA
- VOHILENGO
- MAROVANDRIKA
- TANGAINONY
- ANOSY TSARAFARA
- MAHAVELO
- AMBOHIMANDROSO
- AMBOHIGOGO
- ANOSIVelo
- VOHITROMBY
- MANAMBOTRA ATSIMO
- IABOHAZO
- IVANDRIKA
- TOVONA
- ETROTROKA ATSIMO
- IHOROMBE
- ANKARANA MIRAIHINA
- MAHABO MANANIVO
- ANTSERANAMBE
- EFATSY
- FENOARIVO
- AMBOHIMANA
- ANDAKANA
- MAHAZOARIVO
(VONDROZO)
- ANDOHARANO
- MANAMBIDALA
- MAHATSINJO
- VOHIMARY
- ANANDRAVY
- IARA
- MAHABO
- OTHER (specify)

A05. Fokontany Code

Question

Answer

BEMA
ANAKOHO
SAHOFIKY
VOHIMANGIDY

ANILOBE
MORAFENO II
VOHITRAMBO
AMBATOMIRAVIRAVY
FONILAZA
MENAGNARAVONY

LOPARY
AMBOANGIBE
BETSIRAHA
TSIATELY
TSARARANO
EDITSAKY
RANOMENA
TANAMBAO MATIRANO
LALANGY II
VOHITSOA
TSARARANO
BEKARAOKY
ANALATSAKA
MATANGA
VOHITRAPALY
MAHAVELO
ANTAVIMALAHAY

NOSY OMBY
BESAVOA
MANARAROBA
TSARALERA
VOHIMARO II
MANARIVO
KIDILANITRA

Question

Answer

MAROVAZA

BEFENO

LAVAY

FENOARIVO

BEFASY

ANDROMBA

AMBOHIMANDROSO

AMBOHIMAHASOA

ANTSARY

MAROFARIHY

AMBOTAKA

ANDRIANA

LOHARANO

MANDROSOVELO

MIZILO GARA

FENOARIVO

AMBAHATRAZO

AMBALAVOLO

ANOROMBATO

MALAZAMASY

VOHIMASY SUD

ANIVOTSARA

AMBOHIMANARIVO

LOKOMBY

AMBODIMANGA

FOTATRA

ANKARAMALAZA

RANOMENA

MANASARA

Question

Answer

AMBANDRIKA

AMBALAROKA

VODITANJO

MIDEBOKA

TSARARANO

MAHAVELOKELY

SERANANTSARA

VINANITELO

MAHAVELOBE

AMPASIMANJEVA

SARANDRANO

NIHAONANA

ANTARABE

AMBODIMANGA

ANKARIMBARY

MASONDROTA

MANJARIVO

AMBATO

TSARARANO

TANAMBAO III

AMBOHIMHASOA

AMPADRAMANGA

LAVAKIANJA

ANOROMBATO

AMBOHITSARA

VOHILAVA II

MAHAVELO

AMBOHITROVA

Question

Answer

ANKARIMBELO
AMBOHITSARA EST

AMBODIPAISO
MAHELA
AMPASIMANJEVA

ANDRANAMBOLAVA
MAROVANY
ANDRANOMAVO

AMBODIAVIAVY

ANDRORANGA

AMBOHIMASOA

MAHATSARA SUD

AMBOANATO
ANKARIMALAZA

MAROHANDRINA

AMBODIARA
TSARARANO
ANKATAFANA
MAROHITA I
VOHIBIAVY
NIHAONANA
SANDROHY
SAHANAVAKA II

TSARAVARY
AMPASIMBOLA
AMBALAROMBA

Question

Answer

ANDRANOMAVO

MAROFODY

AMBODIKIZY

AMBOROBE

SALOHY

LANIVO

TSARARY

ANDEMAKA

MAROHANKA I

SAHALAVA

IAMPA

MAHAZOARIVO

AMBALANGAVO

AMBOHITSARA II

AMPANDRAMANA

RANOMAINTY

LANGISAY

AMBOHIMASOA

LAZAMASY

MAHAVELO

SAVANA

SERANAMBARY

IVATO

VOASARY

ANDRANOVOLO

FENOARIVO BE

KARIMBELO Z

BEANANA

SAHAREVO

Question

Answer

AMBOROMANENO

MAHAZOARIVO

MAINTY

VOHILENGO

ANAMBOTAKA

KAZOARAKA

AMBOROLAVA

FIRIFIRY

MAROHAKA

ANKAZOSAY

MARUZANO

ANOSIKELY

IVAZAKO

ANOSY

ANALAFIA

ANIVOTSARA

VOHIMARY

AMBOHIMANDROSO

IAPOMBO

LOHATRAMAMBO

TSIRIRIMIEPO

AMBOHIGOGO

IBAKAKA

ANAKATRIKA

VOHITROMBY

IABORANO

MANAMBOTRA

CENTRE

MAHAVELO

FENOARIVO II

MAROVARY

MAHAZOARIVO

BEVINANY

FENOARIVO I

BERAHODAKA

Question

Answer

KIDIAMONTA
 AMBOROMBE
 IABOVARIGNA
 IHOROMBE
 MAHABO
 ANKARANA
 MANOMBO
 MAHABO
 BABOAKA
 ANTSERANAMBE
 SOANERANA
 AMBALAMANGA
 TANAMBE
 FENOARIVO
 TSARATANANA
 MAHERITENY
 ANIVORANO II
 FENOARIVO
 AMBINANINONY
 MAHATSARA II
 MAHAZOARIVO
 TSATORO
 ANTANANDAVA
 VOLOZATSY
 VOHIMARINA NORD
 MAZAVALLA
 ANTSORO II
 AMPATAKA
 TSILOAKARIVO
 ANTEMA-FALANDRO
 AMBALAVERO
 NANDROTONA
 SALALANGY

A05_other. Other (specify)
If you selected other for the previous question, please write the the name of the fokontany. If not please type N/A
 A08. Control or Treatment

text
 Control

Question

A06. Household number

A07. What is the name of the household/primary contact on the household list?

A11. Enumerator's Name

Answer

Treatment

integer

text

NIRINA

CHANTAL

SALOHY

LOVA

ANNAH

LANDRY

MONIQUE

MALALA DANIE

BRAUNDON

SYLVANA

PATRICIA

CELINA

MONIQUE

MALALA DANIE

BRAUNDON

DIANE

NORO

FENO

SYLVANA

PATRICIA

CELINA

JUDITH

VOAHANGY

HERY

MONIQUE

MALALA DANIE

BRAUNDON

SYLVANA

PATRICIA

CELINA

NATACHA

ANGE

Question

Answer

NIVO
 ELIA
 HERY (MAMAN JONGLE)
 NIAINA
 ANDRY LOCAL
 DINA
 MBOLAMASOANDRO
 SYLVANA
 PATRICIA
 CELINA
 ERALDO
 PASCAL
 ZARA
 TSIRY
 ANDRY LOCAL
 DINA
 MBOLAMASOANDRO
 SYLVANA
 PATRICIA
 CELINA
 ARO
 JACKY
 TOKY
 FIDERANA
 SYLVANA
 PATRICIA
 CELINA

Supervisor/Team Lead Name/Code

LINO
 SERGE
 FANJA
 RINDRA
 YVES
 FANIRY
 ANDRY MIALISON
 JAONA
 ZO

Question

Answer

NDRIANA
YVES
FANIRY
NATHALIE
SANDY TAHIRY
ANDRY MIALISON
JAONA
ZO
NDRIANA
MIARINTSOA
HUGUES
YVES
FANIRY
ANDRY MIALISON
JAONA
ZO
NDRIANA
ANDRY
ADRIEN
NJAKA
FITAHIANA
MAHAFANTATSY
RINAH
ANDRY MIALISON
JAONA
ZO
NDRIANA
TSILAVO
JEAN PATRIC
MAHAFANTATSY
RINAH
ANDRY MIALISON
JAONA

ZO
NDRIANA
JOSE
SETRA

Question

Answer

ANDRY MIALISON

JAONA

ZO

NDRIANA

Consent

Yes

No

Hello, my name is [ENUMERATOR]. I am working with Consultant Associates in Madagascar on behalf of Causal Design, a US company that does research on programs that support communities in Madagascar. We are speaking with people in your area to understand how they support themselves and respond to challenges. Your household was selected to be interviewed because you live in an area where Adventist Development and Relief Agency, ADRA, is delivering the FIOVANA program and its activities and we want to know what life was like for you over the past months.

Explanation of ProceduresThe interview may take up between one and two hours to finish. We will ask to interview different members of your household. We will ask many things about your daily life in the survey and hope that none of the questions make you or your family members uncomfortable. If I ask you any questions you or your family members don't want to answer, let me know and I will go on to the next question. You can also stop the interview at any time. If you decide not to participate in this survey you will not be punished in any way. Choosing to participate will not do anything to change the services and support you receive from the FIOVANA program or any other humanitarian program and we will protect your privacy and make sure what you say will not be shared with others in your community.

RisksThere is little risk to you and your household for sharing your experiences. We have taken care to protect you and your household against the COVID-19 virus. We will wear masks during the interview and maintain a 2-meter distance from you and the people in your household. We will be weighing children during this survey and to make sure that we keep you and your household safe we have cleaned the scales, washed our hands with disinfectant, and we will still have our masks on. Your responses will help organizations like ADRA better understand how to improve programs and provide support in the future.

BenefitsThere is no payment to your household for sharing your experiences. Your responses will help organizations like ADRA better understand how to improve programs and provide support in the future. At the end of the interview, we will provide a small gift, a small packet of soap, for your participation.

ConfidentialityIf you agree to participate, the information will be recorded and the information will be used to understand how people in your community live their lives. Some of the information you provide will be available on a website that researchers and others will be able to access, but all personal information, like your name and where you live, will be kept confidential and not made public. There will be no audio or video recording of this interview. We will ask you for some personal information now to make sure that we can visit you at the end of the project

Question

Answer

about 5 years from now to ask you the same types of questions but will remove all personal information after we have finished collecting your responses at the end of the research. All the information we collect about you and your family will be stored and protected. Questions Do you have any questions about the survey or what I have said? If in the future you have any questions about the survey or the interview, or concerns or complaints, please call or email Consultant Associates or Causal Design. You can reach us at info@causaldesign.com or (720) 260-4837. If you have questions about your rights as a research participant, or concerns or complaints about the research, you may call Solutions IRB at (855) 226-4472. This organization is based in the United States. Regular hours for Solutions IRB are 8:00 a.m. to 5:00 p.m. CT, Monday through Friday. You can also email them at participants@solutionsirb.com We will leave a copy of this statement and our organization's complete contact information with you so that you may contact us at any time. Do you agree to participate in the survey?

Household Roster

Question

B01A. Now I would like to ask you some questions about the people who live in this household. Let me tell you a little bit about what we mean by “household.” For our purposes today, members of a household are adults or children that live together and eat from the “same pot.” It should include anyone who has lived in your house for 6 of the last 12 months, but it does not include anyone who lives here but eats separately. Please tell me the name and sex of each person who lives here, starting with the head of the household. Please include all small children and newly born infants.

B01B. How many people are in your household?

B01F. So there are [B01B] in your household correct?

Now, please tell me the name and some information about each member of your household.

B02. Name

B03. Relationship to head of household

Answer

integer

Yes

No

text

HEAD OF HOUSEHOLD

SPOUSE OR PARTNER

CHILD

SON-IN-LAW OR

DAUGHTER-INLAW

GRANDCHILD

PARENT

PARENT-IN-LAW

BROTHER OR SISTER

OTHER RELATIVES

ADOPTED/ FOSTER/

STEPCHILD

NOT RELATED

DON'T KNOW

Question	Answer
B04. Is [B02] male or female?	REFUSED Male Female
B05. Please tell me how old [B02] is. <i>RECORD AGE IN COMPLETED YEARS USE "00" IF CHILD IS LESS THAN 1 YEAR "88" = DON'T KNOW. USE ONLY FOR PERSONS WHO ARE ≥ 50. IF 95 OR MORE, RECORD "95".</i>	<i>integer</i>
B08. Was [B02] in charge of the food preparation yesterday?	Yes No
B10. Is this person the head of the household; or a responsible adult if head of household is absent?	Yes No

Question

B11. Is [B02] a farmer?

**Farmers, including herders and fishers, are:
 1) women and men who have access to a plot of land (even if very small) over which they make decisions about what will be grown, how it will be grown, and how to dispose of the harvest; AND/OR 2) women and men who have animals and/or aquaculture products over which they have decision-making power. Farmers produce food, feed, and fiber, where "food" includes agronomic crops (crops grown in large scale, such as grains), horticulture crops (vegetables, fruit, nuts, berries, and herbs), animal and aquaculture products, as well as natural products (e.g., non-timber forest products, wild fisheries). These farmers may engage in processing and marketing of food, feed, and fiber and may reside in settled communities, mobile pastoralist communities, or refugee/internally displaced person camps. An adult member of the household who does farm work but does not have decision-making responsibility over the plot OR animals would not be considered a "farmer." For instance, a woman working on her husband's land who does not control a plot of her own would not be interviewed.*

Answer

Yes
 No

Question**Answer**

B12. Has [B02] done any work in the last 12 months? **Work (for identifying cash earners) includes jobs in the formal and/or informal sector, full time, part time, or seasonal work that is done within and/or outside the home. It includes, but is not limited to agricultural daily wage labor, off-farm daily wage labor, income generation activities, sale of goods produced or processed outside the home or at the home, homestead garden or farm (e.g., vegetables, eggs, fish, livestock, artisanal goods), or petty trading. It can also include participating in cash for work, food for work, or conditional cash transfers and/or productive safety net programs. For this indicator, work does not include caring for one's own children, cooking, cleaning or doing other routine chores for one's own household (e.g., fetching water, collecting firewood) or being involved in agricultural production solely for household consumption.*

Yes

No

B13. During the last 12 months, was [B02] usually paid in cash or kind for this work or was not paid at all?

Cash only

Cash and kind

In kind only

Not paid

Don't know

Refuse

B14. What is [B02] 's current marital status?

Married or living together

Divorced/Separated

Widowed

Never married or never living together

Don't know

Refuse

B16. Has [B02] ever attended school?

Yes

Question

Answer

B17. What is the highest grade [B02] has completed?

- No
- Don't Know
- Less than 1 year completed
- T1
- T2
- T3
- T4
- T5
- T6 (6ème)
- T7 (5ème)
- T8 (4ème)
- T9 (3ème)
- T10 (2nd)
- T11 (1ère)
- T12 (Terminale)
- 1ère année
- 2ème année
- 3ème année
- 4ème année
- ≥ 5ème année
- Don't Know
- Refused

B18. Did [B02] attend school at any time during the 2019-2020 school year?

- Yes
- No

B19. During this school year, what grade is [B02] attending?

- Pre-primary
- Primary
- Secondaire 1
- Secondaire 2
- Superieur
- Don't Know
- Refused

B20. Is [B02] currently present?

- Yes
- No

Question

Answer

B01C. Just to make sure that I have a complete listing: are there any other persons such as small children or infants that we have not listed?
IF "YES," TO THIS QUESTIONS THEN ADD THE HOUSEHOLD MEMBER TO THE ROSTER. THEN, COLLECT THE REMAINING COLUMNS OF INFORMATION FOR EACH MEMBER, ONE PERSON AT A TIME.

Yes
 No

B01D. Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who have lived and eaten here for at least 6 of the last 12 months?
IF "YES," TO THIS QUESTIONS THEN ADD THE HOUSEHOLD MEMBER TO THE ROSTER. THEN, COLLECT THE REMAINING COLUMNS OF INFORMATION FOR EACH MEMBER, ONE PERSON AT A TIME.

Yes
 No

B01E. Does anyone else live here even if they are not at home now? These may include children in school or household members at work or who have migrated.
IF "YES," TO THIS QUESTIONS THEN ADD THE HOUSEHOLD MEMBER TO THE ROSTER. THEN, COLLECT THE REMAINING COLUMNS OF INFORMATION FOR EACH MEMBER, ONE PERSON AT A TIME.

Yes
 No

So, from what you mentioned, including yourself there are 1 people in your household. Is this correct?

Yes
 No

Question

Who is the main food preparer in your household?

A food preparer is the person responsible for household food preparation.

[ENUMERATOR: If it is not the respondent] can I speak with the main food preparer in your household?

Answer

text

Household Food Access

C01: [ENUMERATOR: Is this the first time this person has consented?]

Consent

- Yes
- No
- Yes
- No
- Not Available

C03. Now I would like to ask you about the types of foods that you or the majority of your household members ate during the past 7 days. How many days over the last 7 days, did members of your household eat the following food items, prepared and/or consumed at home?

C04. Any bread, rice, noodles, biscuits, or other foods made from millet, sorghum, maize, rice, or wheat

- 1 day
- 2 days
- 3 days
- 4 days
- 5 days
- 6 days
- 7 days
- Not consumed
- Don't know
- Refuse

C05. Any potatoes, yams, manioc, cassava, or any other foods made from roots or tubers?

- 1 day
- 2 days
- 3 days

Question	Answer
C06. Any vegetables?	4 days 5 days 6 days 7 days Not consumed Don't know Refuse
C07. Any fruits?	1 day 2 days 3 days 4 days 5 days 6 days 7 days Not consumed Don't know Refuse
C08. Any beef, pork, lamb, goat, rabbit, wild game, chicken, duck, or other birds, liver, kidney, heart, or other organ meats?	1 day 2 days 3 days 4 days 5 days 6 days 7 days Not consumed

Question

Answer

C09. Any eggs?

Don't know

Refuse

1 day

2 days

3 days

4 days

5 days

6 days

7 days

Not consumed

Don't know

C10. Any fresh or dried fish or shellfish?

Refuse

1 day

2 days

3 days

4 days

5 days

6 days

7 days

Not consumed

Don't know

Refuse

C11. Any foods made from beans, peas, lentils, or nuts?

1 day

2 days

3 days

4 days

5 days

6 days

7 days

Not consumed

Don't know

Refuse

C12. Any cheese, yogurt, milk, or other milk products?

1 day

2 days

Question	Answer
	3 days
	4 days
	5 days
	6 days
	7 days
	Not consumed
	Don't know
	Refuse
C13. Any foods made with oil, fat, or butter?	1 day
	2 days
	3 days
	4 days
	5 days
	6 days
	7 days
	Not consumed
	Don't know
	Refuse
C14. Any sugar or honey?	1 day
	2 days
	3 days
	4 days
	5 days
	6 days
	7 days
	Not consumed
	Don't know
	Refuse
C15. Any other foods, such as condiments, coffee or tea?	1 day
	2 days
	3 days
	4 days
	5 days
	6 days
	7 days
	Not consumed

Question

Answer

Now I would like to ask you some questions about your food consumption during the last 30 days.

Don't know
Refuse

C16. During the past 30 days, was there a time when you or others in your household were worried you would not have enough food to eat because of a lack of money or other resources?

Yes
No
Don't Know

C17. During the past 30 days, was there a time when you or others in your household were unable to eat healthy and nutritious food because of a lack of money or other resources?

Yes
No
Don't Know

C18. During the past 30 days, was there a time when you or others in your household ate only a few kinds of foods because of a lack of money or other resources?

Yes
No
Don't Know

C19. During the past 30 days, was there a time when you or others in your household had to skip a meal because there was not enough money or other resources to get food?

Yes
No
Don't Know

C20. During the past 30 days, was there a time when you or others in your household ate less than you thought you should because of a lack of money or other resources?

Yes
No

Question	Answer
C21. During the past 30 days, was there a time when your household did not have food because of a lack of money or other resources?	Don't Know
	Yes
	No
	Don't Know
C22. During the past 30 days, was there a time when you or others in your household were hungry but did not eat because there was not enough money or other resources for food?	
	Yes
	No
	Don't Know
C23. During the past 30 days, was there a time when you or others in your household went without eating for a whole day because of a lack of money or other resources?	
	Yes
	No
	Don't Know

Children Nutritional Status and Feeding Practices

We would like to speak with the primary caregiver of each child (if they are different). We will start with the respondents children then move to the other caregiver's children.

D03. Please select the first name of children under 5 from the list you would like to speak about [We will ask about all the children under 5]

name

D03_caregiver. Please select the name of the primary caregiver for [D03A]

name

D03B. If the primary caregiver is different than the person you are speaking to, give/read the consent form to them and ask for consent to continue

Question	Answer
D: [ENUMERATOR: Is this the first time this person has consented?]	Yes No
<i>Consent</i>	
D04. Has [D03B] agreed to participate in the survey?	Yes No Not Available
D05. What is [D03A]'s sex?	Male Female
D06. Now I would like to ask you some questions about [D03A]. Does [D03A] have a health/vaccination card with the birth date recorded?	Yes No Don't Know
D06B. IF THE HEALTH/VACCINATION CARD IS SHOWN AND THE RESPONDENT CONFIRMS THE INFORMATION IS CORRECT, RECORD THE DATE OF BIRTH AS DOCUMENTED ON THE CARD.	
In what day, month, and year was [D03A] born? What is his/her birthday? RECORD BIRTH DAY, MONTH AND YEAR	<i>date</i>
D07. [D03A] was [D06B_age] years old on his/her last birthday VERIFY AGE IN COMPLETE YEARS	
D08. [D03A] is [D06B_months] months old VERIFY AGE IN COMPLETED MONTHS	
So you have told me that [D03A] is [D06B_age] years old or [D06B_months] months old. Is this correct? If not please adjust the birthday.	Yes No
D16. Has [D03A] ever been breastfed?	Yes No

Question

Answer

D17. Was [D03A] breastfed yesterday during the day or at night?

Don't Know
 Yes
 No
 Don't Know

D18. Sometimes babies are fed breast milk in different ways, for example by spoon, cup, or bottle. This can happen when the mother cannot always be with her baby. Sometimes babies are breastfed by another woman or given breast milk from another woman by spoon, cup, bottle, or some other way. This can happen if a mother cannot breastfeed her own baby. Did [D03A] consume breast milk in any of these ways yesterday during the day or at night?

Yes
 No

Now I would like to ask you about some medicines and vitamins that are sometimes given to infants.

D19. Was [D03A] given any vitamin drops or other medicines as drops yesterday during the day or at night?

Yes
 No
 Don't Know

D20. Was [D03A] given SRO yesterday during the day or at night?

Yes
 No
 Don't Know

Next, I would like to ask you about some liquids that [D03A] may have had yesterday during the day or at night.

Did [D03A] have any [item from list]:
READ THE LIST OF LIQUIDS STARTING WITH "PLAIN WATER."

Yes
 No

Question	Answer
D21. Plain water?	Don't Know Yes No
D22. Any kind of infant formula?	Don't Know Yes No
D24. Did [D03A] have any milk such as tinned, powdered, or fresh animal milk?	Don't Know Yes No
D26. Did [D03A] have any juice or juice drinks?	Don't Know Yes No
D27. Clear broth?	Don't Know Yes No
D28. Yogurt?	Don't Know Yes No
D30. Did [D03A] have any thin porridge? LIMIT TO PORRIDGE MIXED VERY THIN OR THICK DRINKS MADE FROM CEREAL.	Don't Know Yes No
D31. Any other liquids such as gripe water, glucose water, sugar water?	Don't Know Yes No
D32. Any other liquids?	Don't Know Yes No
D32_other. Specify the other liquid(s)	Don't Know <i>text</i>
D23. How many times yesterday during the day or at night did [D03A] consume any formula?	<i>integer</i>

Question

D25. How many times yesterday during the day or at night did [D03A] consume any milk?

Answer

integer

D29. How many times yesterday during the day or at night did [D03A] consume any yogurt?

integer

Now I would like to ask you about (other) liquids or foods that [D03A] ate yesterday during the day or at night. I am interested in whether your child had the item even if it was combined with other foods. For example, if [D03A] ate a millet porridge made with a mixed vegetable sauce, you should reply yes to any food I ask about that was an ingredient in the porridge or sauce. Please do not include any food used in a small amount for seasoning or condiments (like chili's, spices, herbs, or fish powder), I will ask you about those foods separately. Yesterday, during the day and night, did [D03A] eat any...?

D33. Food made from grains, such as bread, biscuits, rice, pasta, noodles, or porridge

Yes
No
Don't Know

D34. Pumpkin, carrots, squash, sweet potatoes or any other foods made from dark yellow or orange- fleshed roots or tubers

Yes
No
Don't Know

D35. White potatoes, white yams, cassava, or any other foods made from roots or tubers

Yes
No
Don't Know

D36A. Any dark green leafy vegetables comme feuille de manioc, feuille de haricot, épinard, feuille de patate ?

Yes
No

Question	Answer
D36B. Any other vegetables, like fresh green beans, tomato, etc.?	Don't Know
D37A. Kaki, mangues et papayes mures, abricots, melons oranges ou tout fruit à chair jaune foncé ou orangée?	Yes No Don't Know
D37B. Any other fruits like bananas, apples, avocado, pocanelle, jamblon, cherry, anone, lychee.?	Yes No Don't Know
D38A. Liver, kidney, heart, or other organ meats from domesticated animals such as cow, pig, goat, chicken or duck	Yes No Don't Know
D38B. Any meat from domesticated animals such as beef, pork, lamb, goat, chicken, or duck	Yes No Don't Know
D39A. Liver, kidney, heart, or other organ meats from wild animals, such as as herissons, chats sauvages, chauve-souris, birds, wild pigeons, wild fowl, wild boar, monkey, rodents, wild goat	Yes No Don't Know
D39B. Any flesh from wild animals, such as herissons, chats sauvages, chauve-souris...?	Yes No Don't Know
D40. Eggs? (chicken, turkey, fowl, duck)	Yes

Question	Answer
D41. Fresh or dried fish, shellfish, crabs, or seafood	No Don't Know Yes No Don't Know
D42. Any foods made from beans, peas, lentils, groundnuts or other legumes?	Yes No Don't Know
D43. Any foods made from nuts and seeds such as mahabibo, (sakoa dans le Sud) ?	Yes No Don't Know
D44. Cheese, lait caille, or other milk products	Yes No Don't Know
D45. Any oil, fats, or butter, or foods made with any of these	Yes No Don't Know
D46. Any sugary foods such as chocolates, sweets, candies, pastries, cakes, or honey	Yes No Don't Know
D47. Condiments for flavor, such as chilies, spices, persil, oregon, laurier...?	Yes No Don't Know
D48. Vers, escargots, insectes (locusts, chenille...)?	Yes No Don't Know

Question

Answer

D50. Did [D03A] eat any solid, semisolid, or soft foods yesterday during the day or at night?

IF “YES” PROBE: What kind of solid, semi-solid, or soft foods did [D03A] eat?

Yes

No

D50A. Go back and record foods eaten. Then continue

D51. How many times did [D03A] eat solid, semi-solid, or soft foods other than liquids yesterday during the day or at night?

integer

D52. Has [D03A] had diarrhea in the last 2 weeks?

DIARRHEA IS DEFINED AS 3 OR MORE WATERY STOOLS THE TERM(S) USED FOR DIARRHEA SHOULD ENCOMPASS THE EXPRESSIONS USED FOR ALL FORMS OF DIARRHEA, INCLUDING BLOODY STOOLS (CONSISTENT WITH DYSENTERY), WATERY STOOLS, ETC.

Yes

No

D53. Was there any blood in the stools?

Yes

No

D54. Now I would like to know how much [D03A] was given to drink during the diarrhea (including breastmilk). Was he/she given less than usual to drink, about the same amount, or more than usual to drink?

IF LESS, PROBE: Was he/she given much less than usual to drink or somewhat less?

Much less

Somewhat less

About the same

More

Nothing to drink

Don't know

Refuse

Question

D55. When [D03A] had diarrhea, was he/she given less than usual to eat, about the same amount, more than usual, or nothing to eat?
IF LESS, PROBE: Was he/she given much less than usual to eat or somewhat less?

Answer

Much less
Somewhat less
About the same
More
Nothing to eat
Don't know
Refuse

D56. Was he/she given any of the following to drink at any time since he/she started having the diarrhea:

A fluid made from a special packet called ODIVA (SRO)?
A government-recommended homemade fluid "1 sy 8"?
None of the above
Don't know
Refuse

ADRA_1. Has [D03A] had a fever, diarrhea, or a acute respiratory infection (ARI) in the past 15 days?

Fever
Diarrhea
Acute Respiratory Infection (ARI)

... did not experience any of these problems within the past 15 days
Don't know
Refuse

ADRA_2. Did [D03A] receive treatment from any health facility or health service within 24 hours of experiencing symptoms of a fever?

Yes
No
Don't Know
Refused

Question

Answer

ADRA_3. Did [D03A] receive treatment from any health facility or health service within 24 hours of experiencing diarrhea symptoms?

- Yes
- No
- Don't Know
- Refused

ADRA_4. Did [D03A] receive treatment from any health facility or health service within 24 hours of experiencing acute respiratory infection (ARI) symptoms?

- Yes
- No
- Don't Know
- Refused

Women’s Health, Nutritional Status, Dietary Diversity and Family Planning

E01. Now we would like to speak with each woman of reproductive age in the household.

E01A. There are [#] between 15-49 in the household

Ask each women of reproductive age (15–49 years) in the household

Please select a name

name

confirmation_E. [ENUMERATOR: Is this the first time this person has consented?]

- Yes
- No

Consent

E03. DOES [E02B] AGREE TO PARTICIPATE IN THE SURVEY?

- Yes
- No
- Not Available

Question

Now I would like to ask you about liquids or foods that you ate yesterday during the day or at night. I am interested in whether you had the item even if it was combined with other foods. For example, if you ate a millet porridge made with a mixed vegetable sauce, you should reply yes to any food I ask about that was an ingredient in the porridge or sauce. Please do not include any food used in a small amount for seasoning or condiments (like chilies, spices, herbs, or fish powder), I will ask you about those foods separately.

Answer

E07. Food made from grains, such as bread, biscuits, rice, pasta, noodles, or porridge

Yes
No
Don't Know

E08. Pumpkin, carrots, squash, sweet potatoes or any other foods made from dark yellow or orange- fleshed roots or tubers

Yes
No
Don't Know

E09. White potatoes, white yams, cassava, or any other foods made from roots or tubers

Yes
No
Don't Know

E10. Any dark green leafy vegetables comme feuille de manioc, feuille de haricot, épinard, feuille de patate ?

Yes
No
Don't Know

E11. Any other vegetables, like fresh green beans, tomato, etc.?

Yes
No
Don't Know

E12. Kaki, mangues et papayes mures, abricots, melons oranges ou tout fruit à chair jaune foncé ou orangée?

Yes

Question	Answer
E13. Any other fruits like bananas, apples, avocado, pocanel, guava, breadfruit, soursop etc.?	No Don't Know
E14. Liver, kidney, heart, or other organ meats from domesticated animals such as cow, pig, goat, chicken or duck	Yes No Don't Know
E15. Any meat from domesticated animals such as beef, pork, lamb, goat, chicken, or duck	Yes No Don't Know
E16. Liver, kidney, heart, or other organ meats from wild animals, such as as herissons, chats sauvages, chauve-souris, birds, wild pigeons, wild fowl, wild boar, monkey, rodents, wild goat	Yes No Don't Know
E17. Any flesh from wild animals, such as herissons, chats sauvages, chauve-souris...?	Yes No Don't Know
E18. Eggs? (chicken, turkey, fowl, duck)	Yes No Don't Know
E19. Fresh or dried fish, shellfish, crabs, or seafood	Yes No Don't Know
E20. Any foods made from beans, peas, lentils, groundnuts or other legumes?	Yes

Question	Answer
	No
	Don't Know
E21. Any foods made from nuts and seeds such as mahabibo, (sakoa dans le Sud) ?	Yes
	No
	Don't Know
E22. Cheese, yogurt, lait caillé, or other milk products	Yes
	No
	Don't Know
E23. Any oil, fats, or butter, or foods made with any of these	Yes
	No
	Don't Know
E24. Any sugary foods such as chocolates, sweets, candies, pastries, cakes, or biscuits	Yes
	No
	Don't Know
E25. Condiments for flavor, such as chilies, spices, persil, oregon, laurier...?	Yes
	No
	Don't Know
E26. Vers, escargots, insectes (locusts, chenille...)?	Yes
	No
	Don't Know
E27. Foods made with red palm oil, red palm nut, or red palm nut pulp sauce	Yes
	No
	Don't Know
E28. Now I would like to ask you about pregnancies and births you may have had. Are you currently pregnant?	Yes
	No
	Don't Know
	Refused
E29. Have you ever been pregnant?	Yes

Question	Answer
E40. How many months pregnant were you when you first received antenatal care during this pregnancy? <i>88 = Don't know</i>	<i>integer</i>
E41. How many times did you receive antenatal care during this pregnancy? <i>88 = Don't know</i>	<i>integer</i>
Now I would like to ask about family planning the various ways or methods a couple can use to delay or avoid a pregnancy. Have you ever heard of...?	Yes No Don't Know Refused
E46. Female sterilization	Yes No Don't Know Refused
E47. Male Sterilization	Yes No Don't Know Refused
E48. IUD	Yes No Don't Know Refused
E49. Injectables	Yes No Don't Know Refused
E50. Implants	Yes No Don't Know Refused
E51. Contraceptive Pill	Yes No Don't Know

Question	Answer
E52. Male Condom.	Refused Yes No Don't Know
E53. Female Condom.	Refused Yes No Don't Know
E54. Diaphragm with spermicidal foam, cream or gel.	Refused Yes No Don't Know
E55. Emergency Contraception	Refused Yes No Don't Know
E56. Standard Days Method	Refused Yes No Don't Know
E57. Lactational Amenorrhea Method (LAM).	Refused Yes No Don't Know
E58. Have you heard of any other modern methods that women or men can use to avoid pregnancy?	Refused Yes No Don't Know
E58A. Specify	Refused <i>text</i>
E59. Did you or your partner use any of these modern contraceptive methods in the past 12 months?	Yes No

Question

Answer

E60. Who usually makes the decision on whether or not you should use contraception, you, your husband/partner, you and your husband/partner jointly, or someone else?

Don't Know
Refused

Respondent
Husband/Partner
Respondent jointly with husband/partner
Someone else
Other
Don't know

E60A. Specify

Refuse
text

E61. When making this decision with your husband/partner, would you say that your opinion is more important, equally important, or less important than your husband's/partner's opinion?

More important
Equally important
Less important
Don't know
Refuse

E63. Are you or your partner currently doing something or using any method to delay or avoid getting pregnant?

Yes
No
Don't Know
Refused

E64. Which method are you using?

FEMALE STERILIZATION
MALE STERILIZATION
IUD
INJECTABLES
IMPLANTS
PILL
MALE CONDOM
FEMALE CONDOM

Question

Answer

DIAPHRAGM WITH
SPERMICIDE

EMERGENCY
CONTRACEPTION

STANDARD DAYS
METHOD

LACTATIONAL AMEN
METHOD

RHYTHM METHOD

WITHDRAWAL

OTHER MODERN METHOD

OTHER TRADITIONAL
METHOD

DON'T KNOW

REFUSE

Water, Sanitation, and Hygiene (WASH)

F02_name. Now I would like to ask if there is an ADULT IN THE HOUSEHOLD that we can speak to about the households water, sanitation, and hygiene?

name

confirmation_F. [ENUMERATOR: Is this the first time this person has consented?]

Yes

Consent

F03. DOES [F02] AGREE TO PARTICIPATE IN THE SURVEY?

Yes

No

F04. What is currently the main source of drinking water for members of your household?

Piped into dwelling

Piped to yard/plot

Piped to neighbor

Public tap/ standpipe

Tube well or borehole

Protected well

Unprotected well

Protected spring

Question

Answer

	Unprotected spring Rainwater collection Tanker truck Cart with small tank Surface water (river/dam/ lake/pond/ stream/canal/ irrigation channel) Bottled water Other (specify) _____ Don't know Refuse
F04A. Specify	<i>text</i>
F05. Where is that water source located?	In own dwelling In own yard/plot Elsewhere Don't know Refuse
F06. How long does it take to go there, get water, and come back? [In minutes]	<i>integer</i>
F07. Is water available from this source year round?	Yes No
F08. In the last two weeks, was water unavailable from this source for a day or longer?	Yes No
F09. Do you do anything to the water to make it safer to drink?	Yes No

Question

F10. What do you usually do to make the water safer to drink? Anything else?

RECORD ALL MENTIONED ENUMERATOR SHOULD VERIFY AS FOLLOWS:

*

CHLORINATION: AN*

ENUMERATOR CARRYING OUT THE

CHLORINE RESIDUAL TEST OBTAINS

POSITIVE RESULTS (CT+).

*

FILTRATION: ENUMERATORS ARE*

ABLE TO SEE THE FILTER AND VERIFY THAT

WATER IS IN THE FILTER'S BOTTOM

CONTAINER OR COMES OUT OF THE

*FILTER'S TAP (FILTER +).

SOLAR*

DISINFECTION: THE ENUMERATOR IS ABLE

TO SEE THAT BOTTLES FILLED WITH WATER

ARE EXPOSED TO THE SUN AND SELF

REPORTS BY SURVEY PARTICIPANTS

INDICATE THAT BOTTLES ARE EXPOSED TO

THE SUN FOR AT LEAST SIX HOURS PER DAY

OF EXPOSURE (SODIS+) ON SUNNY DAYS

AND UP TO TWO DAYS ON CLOUDY DAYS.

*

BOILING: SURVEY PARTICIPANTS*

REPORT THAT BOILING OCCURRED UNTIL

WATER COMES TO A ROLLING BOIL AND THE

SAME CONTAINER WHERE WATER IS BOILED

IS USED TO STORE BOILED WATER (BOIL+).

Answer

Chlorination

Flocculant/Disinfectant (physio-chemical disinfection)

Filtration (physical removal)

Solar disinfection (UV/heat disinfection)

Boiling

Other (specify)

Don't know

Refuse

F10_specify. Specify

text

Question

F10A. What types of containers do you usually use to collect water for your household?

Answer

Small jerry can (5-9 liter)
 Large jerry can (20 liter)
 Small bucket (5-9 liter)
 Large bucket (10-20 liter)
 Clay jars or pots (10-20 liter)
 Large rolling container (90 liter)
 Large plastic drum (150- 200 liter)
 Other (specify type and volume) _____
 Do not collect water
 Don't know
 Refuse
text

F10A_other. Specify type and volume

F10B. How many [F10A_name]? do you usually bring to fill on one trip to collect water?

integer _____

F10C. How often do you usually fill the [F10A_name]?

IF RESPONDENT CANNOT GIVE CLEAR RESPONSE, THEN OBSERVE THE TOILET AND RECORD THE CORRECT RESPONSE

Twice every day
 Once every day
 Once every other day _____
 Once every third day
 Other (specify)
 Don't know
 Refuse
text

F10C_other. Specify

Now I'm going to ask you question's about the type of toilet that your household uses

F11. What kind of toilet facility do members of your household usually use?

Flush to piped sewer system

Question

Answer

	Flush to septic tank
	Flush to pit latrine
	Flush to somewhere else
	Flush, don't know where PITLATRINE
	Ventilated improved pit latrine
	Pit latrine with slab
	Pit latrine without slab/open pit
	Composting toilet
	Bucket toilet
	Hanging toilet/hanging latrine
	No facility/bush/field
	Other (specify)
	Don't know
	Refuse
F11_other. Specify	<i>text</i>
F12. Do you share this facility with other households?	Yes
	No
	Don't Know
	Refused
F13. How many households use this toilet facility?	
	<i>95 = 10 or more households -88 = Don't know</i>
F14. Please show me where members of your household most often wash their hands.	Observed
	Not observed, not in dwelling/yard/plot
	Not observed, no permission to see
	Not observed, other reason
	Don't know
	Refuse

Question

F15. OBSERVATION ONLY: OBSERVE PRESENCE OF WATER AT THE PLACE FOR HANDWASHING

F16. OBSERVATION ONLY: OBSERVE PRESENCE OF SOAP, ASH OR DETERGENT AT THE PLACE FOR HANDWASHING.

Answer

Water is available

Water is not available

Soap, ash or detergent (bar, liquid, powder, paste)

Mud or sand

Other cleansing agent

None

Agriculture

Now, I would like to speak to the members of the household who make the decisions about how to farm, raise livestock, or go fishing and ask them questions about their work

G02_name. Select the name of the farmer and fishers

Ask all farmers in the household

*

Farmers, including herders and fishers, are: 1) women and men who have access to a plot of land (even if very small) over which they make decisions about what will be grown, how it will be grown, and how to dispose of the harvest; AND/OR 2) women and men who have animals and/or "food" includes agronomic crops (crops grown in large scale, such as grains), horticulture crops (vegetables, fruit, Qnuutse, sbteirorines, and herbs), animal and aquaculture products, as well as natural products (e.g., non-timber forest products, wild fisheries). These farmers may engage in processing and marketing of food, feed, and fiber and may reside in settled communities, mobile pastoralist communities, or refugee/internally displaced person camps. An adult member of the household who does farm work but does not have decision-making responsibility over the plot OR animals would not be considered a "farmer." name*

Question

For instance, a woman working on her husband's land who does not control a plot of her own would not be interviewed.

confirmation_G: [ENUMERATOR: Is this the first time this person has consented?]

Answer

- Yes
- No
- Not Available

Consent

G03. OBTAIN CONSENT DO THE FARMER(S) AND FISHER(S) AGREE TO PARTICIPATE IN THE SURVEY?

- Yes
- No
- Not Available

G04. Do you have access to a plot of land (even if very small) over which you make decisions about what will be grown or how it will be grown or how to dispose of the harvest?

- Yes
- No

VERIFY THAT RESPONDENT UNDERSTANDS THAT HAVING "ACCESS" AND MAKING "DECISIONS" OVER A PLOT OF LAND DOES NOT REQUIRE "LEGAL OWNERSHIP" OF THE LAND. A PERSON CAN HAVE ACCESS AND MAKE DECISIONS OVER A PLOT OF LAND (E.G., A SMALL VEGETABLE GARDEN) EVEN IF HE/SHE DOES NOT LEGALLY OWN THE LAND. IF THERE IS JOINT DECISION-MAKING POWER OVER ONE SINGLE PLOT OF LAND (OR SET OF ANIMALS), ALL FARMERS THAT ARE INVOLVED IN THE DECISION MAKING SHOULD BE INTERVIEWED.

G04A. Do you own, rent, or sharecrop the land over which you make decisions?

- Own
- Rent
- Sharecrop

Question	Answer
G04B_other. specify	Don't know
G04B. Thinking of all the plots for which you are a decision-maker, what was the total area cultivated in the past 12 months? (This includes land not owned by the farmer) <i>INCLUDES PLOTS OF LAND ALLOCATED TO FARMERS FOR GROWING CROPS BUT NOT OWNED.</i>	Refuse <i>text</i>
G04B_units. Units	<i>integer</i> Hectares Square Meters Ares Other Don't know Refuse
G05. Do you have animals or insects over which you make decisions about their management or how to dispose of the production?	Yes No
G06. Do you have decision making power over fishing activities and actively fish?	Yes No
G07. Did you take any agricultural credit, in cash or in kind, in the PAST 12 MONTHS? <i>PROBES: Agri-dealeres, contract farming, village savings and credit groups, farmers group, MFI, Bank etc.</i>	Yes No Don't Know Refused
G08. Did you save any cash in the PAST 12 MONTHS?	Yes No

Question

G09. Some people insure their agricultural production against negative unexpected circumstances, such as drought, floods, and pests by paying for this service. Did you buy agricultural insurance in the [PAST 12 MONTHS] ?

Answer

Yes
No

Now I want to ask you about farming and livestock practices about which you make decisions. This includes practices about crops and animal products

G10. Do you cultivate any crops or raise/buy livestock with the specific intention to sell or resell to earn income?

Yes
No

G11. Which of the following activities related to farming and animal husbandry have you practiced or received services for during the PAST 12 MONTHS?

- Purchase inputs for crops
- Purchase inputs for livestock
- Use of training and extension services
- Contract farming

- Drying produce
- Processing produce

- Trading or marketing produce through agro dealers and/or community associations

- Use of formal marketing systems for livestock

- Use of formal Marketing Systems For Crops

Question

Answer

G12. Thinking of all the plots for which you are a decision-maker, what crop(s) do you cultivate in the PAST 12 MONTHS?

Did not practice any of these activities in the past 12 months

Trade or Sale of Livestock/Crops from your home/community with buyer from outside of your community

Trade or Sale of Livestock/Crops from your home/community with buyer within your community

Trade or Sale of Livestock/Crops from primary regional market

Don't know

Refuse

Common Bean

Maize

Peanut

Voandzou

Cassava

Sweet potatoes

Lima beans

Sorghum

Carrot

Potatoes

Cabbage

Onion

Garlic

Chinese cabbage

Tomato

Lettuce

Melon

Cucumber

Turmeric

Chili pepper

Lablab beans

Vanilla

Question

Answer

- Chickpea
- Rice bean
- Coffee
- Jack bean
- Litchee
- Tephrosia
- Vetiver
- Acacia
- Papaya
- Banana
- Pineapple
- Mangos
- Citrus
- Castor
- Moringa
- Sea cucumber
- Red Algae
- Pigeon Pea
- Australian Pine Tree
- Sisals
- Coconut tree
- Tropical Lucern
- Congo Grass, Surinam Grass, Creeping Signal Grass etc
- Rice
- Cloves
- Pepper
- Groundnut
- Coffee
- Pocanelle
- Don't know

Refuse

G14_cassava. Did you use any of these practices for cultivation of Cassava in the PAST 12 MONTHS?

- Organic manure
- Compost

Question

Answer

G14_rice. Did you use any of these practices for cultivation of rice in the PAST 12 MONTHS?

- Performing weedings

- Sowing after useful rain
- Crop association
- Crop rotation
- Use of improved seeds
- Use of climate information (rain forecast, disaster risks, etc.)
- Wind break (brise vent)
- Soil cover (couverture de sol)
- Microdoses of fertilizer
- Crop rotation
- Intercropping and Agroforestry practices particularly for cash crops
- Slopy land to reduce erosion and preserve soil
- Did not use any of these practices in the past 12months
- Don't know
- Refuse

- Organic manure
- Compost
- Performing weedings
- Sowing after useful rain
- Crop association
- Crop rotation
- Use of improved seeds
- Use of climate information (rain forecast, disaster risks, etc.)
- Wind break (brise vent)
- Soil cover (couverture de sol)
- Microdoses of fertilizer

Question

G14_cloves. Did you use any of these practices for cultivation of cloves in the PAST 12 MONTHS?

Answer

Crop rotation
Intercropping and
Agroforestry practices particularly for cash crops
Slopy land to reduce erosion
and preserve soil
Did not use any of these practices in the past 12
months
Don't know

Refuse

Organic manure
Compost

Performing weedings

Sowing after useful rain
Crop association
Crop rotation
Use of improved seeds
Use of climate information (rain forecast, disaster
risks,
etc.)
Wind break (brise vent)

Soil cover (couverture desol)
Microdoses of fertilizer
Crop rotation
Intercropping and
Agroforestry practices particularly for cash crops
Slopy land to reduce erosion
and preserve soil
Did not use any of these practices in the past 12
months
Don't know
Refuse

Question

Now I am going to ask you questions about plots of land where you are the PRIMARY decision-maker.

A PLOT IS A CONTINUOUS PIECE OF LAND ON WHICH A UNIQUE CROP OR A MIXTURE OF CROPS IS GROWN UNDER A CONSISTENT CROP MANAGEMENT SYSTEM. IT MUST BE CONTINUOUS AND SHOULD NOT BE SPLIT BY A PATH OF MORE THAN ONE METER IN WIDTH.

PLOT BOUNDARIES ARE DEFINED ACCORDING TO THE CROPS GROWN AND THE OPERATOR.

num_plots. Thinking of all the plots for which you are the primary decision-maker, how many separate plots of land do you cultivate crops on?

plot_joint_mgmt. For plot #1: Is this plot being managed jointly by more than one farmer?

plot_verify. ENUMERATOR: CONFIRM. IS THIS THE FIRST TIME SOMEONE HAS ANSWERED QUESTIONS ABOUT THIS PLOT?

G7_9106. What is the area of plot #1?

G7_9106_units. Units

G7_9108. In the past 12 months, did you plant cassava, rice, or cloves on plot #1?

Answer

integer

Yes

No

Yes

No

integer

Hectares

Square Meters

Ares

Other

Don't know

Refuse

Cassava

Rice

Cloves

Question

Answer

G7_9108B. What percentage of Plot # 1 was cultivated with cassava? (percentage)

[IN PERCENT E.G. 0-100%]

None of the above

Don't know

Refuse

integer

G7_9108C. What percentage of Plot # 1 was cultivated with rice? (percentage)

[IN PERCENT E.G. 0-100%]

integer

G7_9108D. What percentage of Plot # 1 was cultivated with cloves? (percentage)

[IN PERCENT E.G. 0-100%]

integer

Now I'm going to ask you about production for specific crops accross all plots that you were the primary farmer and decision maker for. ENUMERATOR: Ensure that the answers to the following questions are about crops that have not already been counted by another farmer.

primary_crop_verify. ENUMERATOR: CONFIRM. IS THIS THE FIRST TIME SOMEONE HAS ANSWERED QUESTIONS ABOUT PRODUCTION OF CASSAVA, RICE, OR CLOVES ON THESE PLOTS?

Yes

No

G7_9201_cassava. In total how much Cassava did you harvest in the past 12 MONTHS?

00 = None -88 = Don't Know -99 = Refused

integer

G7_9201_cassava_units. Units

OZ

KG

Ton

Sachet/tube

Heap

Boite MADCO

Bunch

Pail (small)

Question**Answer**

G7_9201_cassava_units_other. Other
(specify)

G7_9201_rice. In total how much rice did
you harvest in the past 12 MONTHS?
00 = None -88 = Don't Know -99 = Refused

G7_9201_rice_units. Units

G7_9201_rice_units_other. Other (specify)

G7_9201_cloves. In total how much cloves
did you harvest in the past 12 MONTHS?
00 = None -88 = Don't Know -99 = Refused

Pail (large)
Basket (Dengu) (Shelled)
Basket (Dengu) (Unshelled)
Bale
Basin
Ox-cart (Unshelled)
Piece
Other (specify)
Don't know
Refuse

text

integer

OZ
KG
Ton
Sachet/tube
Heap
Boite MADCO
Bunch
Pail (small)
Pail (large)
Basket (Dengu) (Shelled)
Basket (Dengu) (Unshelled)
Bale
Basin
Ox-cart (Unshelled)
Piece
Other (specify)
Don't know
Refuse

text

integer

Question

G7_9201_cloves_units. Units

Answer

- OZ
- KG
- Ton
- Sachet/tube
- Heap
- Boite MADCO
- Bunch
- Pail (small)
- Pail (large)
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Basin
- Ox-cart (Unshelled)
- Piece
- Other (specify)
- Don't know
- Refuse

G7_9201_cloves_units_other. Other (specify)

G7_9202_cassava. In total how much cassava did you sell in the past 12 MONTHS?
00 = None -88 = Don't Know -99 = Refused

text

G7_9202_cassava_units. Units

integer

- OZ
- KG
- Ton
- Sachet/tube
- Heap
- Boite MADCO
- Bunch
- Pail (small)
- Pail (large)
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Basin
- Ox-cart (Unshelled)

Question	Answer
	Piece
	Other (specify)
	Don't know
	Refuse
G7_9202_cassava_units_other. Other (specify)	<i>text</i>
G7_9203_cassava. Who was the main buyer of your harvested Cassava?	Relative/Friend
	Local market
	Private trader
	Ag co-op
	Other (specify)
	Don't know
	Refuse
G7_9203_cassava_other. Other (specify)	<i>text</i>
G7_9202_rice. In total how much rice did you sell in the past 12 MONTHS? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G7_9202_rice_units. Units	OZ
	KG
	Ton
	Sachet/tube
	Heap
	Boite MADCO
	Bunch
	Pail (small)
	Pail (large)
	Basket (Dengu) (Shelled)
	Basket (Dengu) (Unshelled)
	Bale
	Basin
	Ox-cart (Unshelled)
	Piece
	Other (specify)
	Don't know
	Refuse
G7_9202_rice_units_other. Other (specify)	<i>text</i>

Question

G7_9203_rice. Who was the main buyer of your harvested rice?

Answer

Relative/Friend
 Local market
 Private trader
 Ag co-op
 Other (specify)
 Don't know
 Refuse

G7_9203_rice_other. Other (specify)

text

G7_9202_cloves. In total how much cloves did you sell in the past 12 MONTHS?

00 = None -88 = Don't Know -99 = Refused

integer

G7_9202_cloves_units. Units

OZ
 KG
 Ton
 Sachet/tube
 Heap
 Boite MADCO
 Bunch
 Pail (small)
 Pail (large)
 Basket (Dengu) (Shelled)
 Basket (Dengu) (Unshelled)
 Bale
 Basin
 Ox-cart (Unshelled)
 Piece
 Other (specify)
 Don't know
 Refuse

G7_9202_cloves_units_other. Other (specify)

text

G7_9203_cloves. Who was the main buyer of your harvested cloves?

Relative/Friend
 Local market
 Private trader
 Ag co-op

Question

G7_9203_cloves_other. Other (specify)

G7_9204_cassava. How much of the harvested cassava was consumed by your household?

G7_9204_cassava_units. Units

G7_9204_cassava_units_other. Other (specify)

G7_9204_rice. How much of the harvested rice was consumed by your household?

G7_9204_rice_units. Units

Answer

Other (specify)

Don't know

Refuse

*text**integer*

OZ

KG

Ton

Sachet/tube

Heap

Boite MADCO

Bunch

Pail (small)

Pail (large)

Basket (Dengu) (Shelled)

Basket (Dengu) (Unshelled)

Bale

Basin

Ox-cart (Unshelled)

Piece

Other (specify)

Don't know

Refuse

*text**integer*

OZ

KG

Ton

Sachet/tube

Heap

Boite MADCO

Bunch

Pail (small)

Question

Answer

G7_9204_rice_units_other. Other (specify)

- Pail (large)
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Basin
- Ox-cart (Unshelled)
- Piece
- Other (specify)
- Don't know
- Refuse

G7_9204_cloves. How much of the harvested cloves was consumed by your household?

text

G7_9204_cloves_units. Units

integer

- OZ
- KG
- Ton
- Sachet/tube
- Heap
- Boite MADCO
- Bunch
- Pail (small)
- Pail (large)
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Basin
- Ox-cart (Unshelled)
- Piece
- Other (specify)
- Don't know
- Refuse

G7_9204_cloves_units_other. Other (specify)

text

G7_9205_cassava. Did you store any of the Cassava?

- Yes
- No

Question

G7_9206_cassava. Did you use any of these methods to store the Cassava in the PAST 12 MONTHS?

Answer

Locally Made Storage Structures Such As Sheet Metal Silos

Sealed/Airtight Bags

Community Storage Facilities, Including Warehouse Receipting

Did Not Use Any Of These Practices

Don't Know

Refuse

G7_9205_rice. Did you store any of the rice?

Yes

No

G7_9206_rice. Did you use any of these methods to store the rice in the PAST 12 MONTHS?

Locally Made Storage Structures Such As Sheet Metal Silos

Sealed/Airtight Bags

Community Storage Facilities, Including Warehouse Receipting

Did Not Use Any Of These Practices

Don't Know

Refuse

G7_9205_cloves. Did you store any of the cloves?

Yes

No

G7_9206_cloves. Did you use any of these methods to store the cloves in the PAST 12 MONTHS?

Locally Made Storage Structures Such As Sheet Metal Silos

Sealed/Airtight Bags

Community Storage Facilities, Including Warehouse Receipting

Did Not Use Any Of These Practices

Don't Know

Refuse

Question

Now I'm going to ask you about production for specific livestock that you were the primary farmer and decision maker for. ENUMERATOR: Ensure that the answers to the following questions are about animals that have not already been counted by another farmer.

Did you raise poultry or bees in the past 12 months?

ENUMERATOR: CONFIRM. IS THIS THE FIRST TIME SOMEONE HAS ANSWERED QUESTIONS ABOUT THESE POULTRY OR BEES?

G19A. Did you use any of the following practices when you cared for the poultry during the [PAST 12 MONTHS]?

Answer

Poultry (Chicken and turkey)

Bees

Neither

Don't know

Refuse

Yes

No

Use of improved poultry variety/breed

Use of improved feed

Use of improved shelters

Use of improved fodder production

Vaccinations

Did not use any of these practices in the past 12 monts

Use of para-veterinary services for poultry

Food preservation

Progenitor choice

Habitat

Don't know

Refuse

Question	Answer
G19B. In the past 12 months, how many poultry did you raise? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19C. In the past 12 months, how many poultry did you sell? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19D. In the past 12 months, how many poultry did you consume? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19E. In the past 12 months, how many poultry did you gift or loan out to others? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19F. In the past 12 months, how many poultry died? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19G. In the past 7 days, how many eggs have your poultry produced? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19H_sold. In the past 7 days how many of the eggs were sold? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19H_consumed. In the past 7 days how many of the eggs were consumed? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19H_gift. In the past 7 days how many of the eggs were gifted/loaned? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G19H_heldlost. In the past 7 days how many of the eggs were held/lost? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G20. Did your household keep bees to provide food for the household? To be sold or traded in the market? Both for food and for the market?	Food only Market only Both food and market Don't know

Question	Answer
	Refuse
G21. What is the total amount of honey your household produced over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G22. What was the total amount of the honey you sold in the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G23. How much money did you receive from selling honey in the past 12 months? (Malagasy AR) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G24. Who did you sell honey or beekeeping products to over the past 12 months?	Villagers Farmers organizations Collector Contract Other (specify) Don't know Refuse
G24a. Other (specify)	<i>text</i>
G26. How much honey did you sell to villagers over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G27. How much money did you receive for selling honey to villagers in the past 12 months? (Malagasy AR) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G28. How much honey did you sell to farmers organizations over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>

Question	Answer
G29. How much money did you receive for selling honey to farmers organizations in the past 12 months? (Malagasy AR) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G30. How much honey did you sell through beekeeping contracts over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G31. How much money did you receive for selling honey through beekeeping contracts over the past 12 months? (Malagasy AR) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G32. How much honey did you sell through a collector over the past 12 months? (Liter) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G33. How much money did you receive for selling honey through a collector over the past 12 months?(Malagasy AR) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G34. What was the total amount of honey consumed by your household over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G35. How many beehives do you have? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G36. How many traditional beehives do you have? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G37. How much honey did your traditional beehives produce over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G38. What method did you use to extract honey from your traditional beehives?	Burning dry herbs or cloth as smokers

Question

Answer

G38a. Other (specify)

G39. How many modern beehives do you have?

00 = None -88 = Don't Know -99 = Refused

G40. How much honey did your modern beehives produce over the past 12 months? (Liters)

00 = None -88 = Don't Know -99 = Refused

G41. What method did you use to extract honey from your modern beehives?

G41a. Other (specify)

Manual removal of the capped cells/ beecomb (filled with honey) with a knife

Squeezing the honey with both hands

Sift the honey obtained with a seive made of mosquito net and place honey in bottles

Use of wood log as hives

Other

Don't know

Refuse

text

Use of Smokers to produce smoke used in removing bees

Use of frame lifter and frame tongs to remove the frames filled with honey

With a knife remove the propolis

Put the frames in an extractor to extract the honey

Use a double sieve and a filter cloth to sieve the honey

Put the sifted honey in a bottle

Other

Don't know

Refuse

text

Question	Answer
G42. How many improved hives do you have? <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G43. How much honey did your improved beehives produce over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G44. What method did you use to extract honey from your improved beehives?	Use of Smokers to produce smoke used in removing bees Use of frame lifter and frame tongs to remove the frames filled with honey With a knife remove the propolis Put the frames in an extractor to extract the honey Use a double sieve and a filter cloth to sieve the honey Put the sifted honey in a bottle Other Don't know Refuse
G44a. Other (specify)	<i>text</i>
G45. Did you obtain honey through picking?	Yes No
G46. How much honey did you produce through picking over the past 12 months? (Liters) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G47. How much did you spend on beekeeping in the past 12 months? (Malagasy AR) <i>00 = None -88 = Don't Know -99 = Refused</i>	<i>integer</i>
G48. Did you receive training in beekeeping?	Yes No
G49. What kind of beekeeping training did you receive?	Training on modern beekeeping definition and advantages Training on general information on the domestic bee

Question

Answer

G49a. Other (specify)

G50. What equipment do you use for beekeeping?

- Training on social organization of the colony
- Training on types of hives and how to construct modern hives
- Training on beekeeping materials
- Training on installation of hives and bee, how to manage the hives
- Training on quality beekeeping and breeding standards
- Training on honey harvesting and extraction techniques
- Training on pest and disease identification and control (potential enemies of bees)
- Training on honey packaging
- Other
- Don't know
- Refuse

text

- Beehive
- Smoker
- Frames and Foundation

- Veil and Gloves
- Feeder
- Heated Knife
- Uncapping Fork
- Tub For Wax/Honey
- Extractor
- Food-Grade Bucke
- Double Sieve
- Containers
- Queen excluder
- Queen cage

Question

Answer

G50a. Other (specify)

G51. Do you have access to extension or support services for beekeeping?

beekeeper's suit
Nylon brush
attracts swarm
Filter cloth
Knife
Bucket
Other
Don't know

Refuse

text

Yes

No

Don't Know

Refused

Now I'd like to ask you some questions about fishing.

G67. Did your household fish: To provide food for the household? To be sold or traded in the market? Both for food and for the market?

Food only

Market only

Both food and market

Don't know

Refuse

G68_verify. ENUMERATOR: CONFIRM. IS THIS THE FIRST TIME SOMEONE HAS ANSWERED QUESTIONS ABOUT THE FISH CAUGHT BY THE HOUSEHOLD?

Yes

No

G68. What was the total amount of the fish you sold in the past one year?

Enter -88 for Don't Know Enter -99 for

Refused

integer

G69. Unit

KG

LB

Bucket

Question

Answer

<p>G69_other. Other (specify)</p> <p>G72. Who is the main buyer of the fish you sell?</p>	<p>Kapoakambary</p> <p>Other (specify)</p> <p>Don't know</p> <p>Refuse</p> <p><i>text</i></p>
<p>G71. What assets to you use for fishing?</p>	<p>Relative/Friend</p> <p>Local market</p> <p>Private trader</p> <p>Ag co-op</p> <p>Other (specify)</p> <p>Don't know</p> <p>Refuse</p> <p>Pirogue</p> <p>Net</p> <p>fishing bowl/container</p> <p>Mask</p> <p>Torch</p> <p>Fishing rod</p> <p>Other (specify) 1</p> <p>Other (specify) 2</p> <p>Other (specify) 3</p> <p>Don't know</p> <p>Refuse</p>
<p>G71_other1. Other (specify) 1</p> <p>G71_other2. Other (specify) 2</p> <p>G71_other3. Other (specify) 3</p>	<p><i>text</i></p> <p><i>text</i></p> <p><i>text</i></p> <hr/>
<p>G70. Do you have access to extension or support services for your fishing?</p>	<p>Yes</p> <p>No</p> <hr/> <p>Don't Know</p> <p>Refused</p>
<p>G_nrm. Did you use any of the following natural resources management practices or techniques during the [PAST 12 MONTHS]?</p>	<p>Farmer managed natural regeneration (fmnr)</p>

Question

Answer

Protection of ponds against silting up

Functional community-based conflict management mechanisms

Did not use any of these techniques

Don't know

Refuse

Poverty Measurement

I would now like to ask some questions about recent household food consumption and other spending. Can I speak with the person(s) best able to answer these questions? Preferably the head of household or another responsible adult member

H01. Please select a name

name

H: [ENUMERATOR: Is this the first time this person has consented?]

Yes

No

Consent

H03B. OBTAIN CONSENT.DOES [H02] AGREE TO PARTICIPATE IN THE SURVEY?

Yes

No

H06 .Over the past 7 days, did you or others in your household consume any of the following items?

Rice

Rice flour Maize grain

Maize

Maize grain

Green maize

Sorghum

Wheat flour

Bread

Buns, scones

Biscuits

Spaghetti, macaroni, pasta

Question

H06A .Other 1: Please specify
 H06B .Other 2: Please specify
 H06C .Other 3: Please specify
 H07 .How much [H06_name] in total did your household consume in the past 7 days?
Enter -88 for Don't Know Enter -99 for Refused
 H07A .INDICATE IN WHAT UNIT THE RESPONDENT GAVE THEIR ANSWER

Answer

Breakfast cereal
 Infant feeding cereals
 Other cereals 1 (specify)
 Other cereals 2 (specify)
 Other cereals 3 (specify)
 Did not have any of this category
 Don't know
 Refused
text
text
text
integer
 Kilogramme(s)
 Tin
 Litre
 Cup
 Millilitre
 Piece / slice / portion
 Gram
 Sachet/tube
 Heap
 50 Kg. bag
 90 Kg. bag
 Boite MADCO
 Bunch
 Pail (small)
 Pail (large)
 Teaspoon
 Tablespoon
 Basket (Dengu) (Shelled)
 Basket (Dengu) (Unshelled)
 Bale
 Ox-cart (Unshelled)

Question	Answer
	Basin
	Unit/Item
	Other (specify)
	Don't know
	Refuse
H07A2 .other: Please specify	<i>text</i>
H08 .How much of the [H06_name] consumed by your household in the past 7 days came from purchases? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H09 .How much did you spend on the [H06_name] consumed by your household in the past 7 days?(Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H10 .How much of the [H06_name] consumed by your household in the past 7 days came from your household's own production? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H10A .Please tell me how much it would have cost to buy that much [H06_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H11 .How much of the [H06_name] consumed by your household in the past 7 days came from gifts or other sources? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H11A .Please tell me how much it would have cost to buy that much [H06_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>

Question

H12. Over the past 7 days, did you or others in your household consume any of the following items?

Answer

Cassava tubers

Cassava flour

Cassava flour

Yam

Breadfruit

Potato

Plantain, cooking banana

Taro (Saonjo)

Other roots, tubers, or plantains 1 (specify)

Other roots, tubers, or plantains 2 (specify)

Other roots, tubers, or plantains 3 (specify)

Did not have any of this category

Don't Know

Refused

H12A .Other 1: Please specify

text

H12B .Other 2: Please specify

text

H12C .Other 3: Please specify

text

H13 .How much [H12_name] in total did your household consume in the past 7 days?

integer

H13A .INDICATE IN WHAT UNIT THE RESPONDENT GAVE THEIR ANSWER

Kilogramme(s)

Tin

Litre

Cup

Millilitre

Piece / slice / portion

Gram

Sachet/tube

Heap

50 Kg. bag

90 Kg. bag

Boite MADCO

Question**Answer**

Bunch
 Pail (small)
 Pail (large)
 Teaspoon
 Tablespoon
 Basket (Dengu) (Shelled)
 Basket (Dengu) (Unshelled)
 Bale
 Ox-cart (Unshelled)
 Basin
 Unit/Item
 Other (specify)
 Don't know
 Refuse
text

H13A2 .Other (specify)

H14 .How much [H12_name] in total did your household consume in the past 7 days came from purchases?

Enter -88 for Don't Know Enter -99 for Refused

integer

H15 .How much did you spend on the [H12_name] consumed in the Past 7 days? (Malagasy Ariary)
Enter -88 for Don't Know Enter -99 for Refused

integer

H16 .How much [H12_name] came from your own production?

Enter -88 for Don't Know Enter -99 for Refused

integer

H16A .How much it would have cost to buy that much [H12_name] if you had to purchase it in the market today? (Malagasy Ariary)

Enter -88 for Don't Know Enter -99 for Refused

integer

H17 .How much [H12_name] came from gifts or other sources?

Enter -88 for Don't Know Enter -99 for Refused

integer

Question

H17A .How much it would have cost to buy that much [H12_name] if you had to purchase it in the market today? (Malagasy Ariary)
Enter -88 for Don't Know Enter -99 for Refused

H18 .Over the past 7 days, did you or others in your household consume any of the following items?

Answer

integer

Onion, fresh or processed
 Cabbage, fresh or processed

Carrot

Zucchini
 Cauliflower

Other cultivated green leafy vegetables, fresh or processed

Gathered wild green leaves (Ananambo, Anamadinika, ...)

Tomato, fresh or processed

Cucumber, fresh or processed

Pumpkin, fresh or processed

Green beans

Pepper (green, red or yellow)

Eggplant

Chili pepper

Mushroom, fresh or processed

White beans

Peas

Cape peas

Bambara peas

Other vegetables, fresh or processed 1 (specify)

Other vegetables, fresh or processed 2 (specify)

Question

Answer

	Other vegetables, fresh or processed 3 (specify)
	Did not have any of this category
	Don't Know
	Refused
H18A .Other 1: Please specify	<i>text</i>
H18B .Other 2: Please specify	<i>text</i>
H18C .Other 3: Please specify	<i>text</i>
H19 .How much [H18_name] in total did your household consume in the past 7 days? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H19A .INDICATE IN WHAT UNIT THE RESPONDENT GAVE THEIR ANSWER	Kilogramme(s)
	Tin
	Litre
	Cup
	Millilitre
	Piece / slice / portion
	Gram
	Sachet/tube
	Heap
	50 Kg. bag
	90 Kg. bag
	Boite MADCO
	Bunch
	Pail (small)
	Pail (large)
	Teaspoon
	Tablespoon
	Basket (Dengu) (Shelled)
	Basket (Dengu) (Unshelled)
	Bale
	Ox-cart (Unshelled)
	Basin
	Unit/Item
	Other (specify)

Question	Answer
	Don't know
	Refuse
H19A2 .Other (specify)	<i>text</i>
H20 .How much [H18_name] in total did your household consume in the past 7 days came from purchases? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H21. How much did you spend on the [H18_name] consumed in the past 7 days? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H22 .How much [H18_name] came from your own production? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H22A .How much it would have cost to buy that much [H18_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H23 .How much [H18_name] came from gifts or other sources? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H23A .How much it would have cost to buy that much [H18_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H24 .Over the past 7 days, did you or others in your household consume any of the following items?	Eggs Dried fish Fresh fish Shellfish Beef Goat Pork

Question

Answer

Mutton
Chicken

Other poultry - guinea fowl,doves, etc.

Small animal – rabbit, etc.

Wild animals

Criquets, other insects, for example Ngumbi (caterpillar)

Tinned meat or fish

Smoked fish

Fish Soup/Sauce

Other meat 1 (specify)

Other meat 2 (specify)

Other meat 3 (specify)

Did not have any of this category

Don't Know

Refused

text

text

text

H24A .Other 1: Please specify

H24B .Other 2: Please specify

H24C .Other 3: Please specify

H25 .How much [H24_name] in total did your household consume in the past 7 days?

Enter -88 for Don't Know Enter -99 for Refused

integer

H25A .INDICATE IN WHAT UNIT THE RESPONDENT GAVE THEIR ANSWER

Kilogramme(s)

Tin

Litre

Cup

Millilitre

Piece / slice / portion

Gram

Sachet/tube

Heap

50 Kg. bag

90 Kg. bag

Question

Answer

- Boite MADCO
- Bunch
- Pail (small)
- Pail (large)
- Teaspoon
- Tablespoon
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Ox-cart (Unshelled)
- Basin
- Unit/Item
- Other (specify)
- Don't know
- Refuse

H25A2 .Other (specify)

text

H26 .How much [H24_name] in total did your household consume in the past 7 days came from purchases?

Enter -88 for Don't Know Enter -99 for Refused

integer

H27 .How much did you spend on the [H24_name] consumed in the Past 7 days? (Malagasy Ariary)

Enter -88 for Don't Know Enter -99 for Refused

integer

H28 .How much [H24_name] came from your own production?

Enter -88 for Don't Know Enter -99 for Refused

integer

H28A .How much it would have cost to buy that much [H24_name] if you had to purchase it in the market today? (Malagasy Ariary)

Enter -88 for Don't Know Enter -99 for Refused

integer

H29 .How much [H24_name] came from gifts or other sources?

Enter -88 for Don't Know Enter -99 for Refused

integer

Question

H29A .How much it would have cost to buy that much [H24_name] if you had to purchase it in the market today? (Malagasy Ariary)

Enter -88 for Don't Know Enter -99 for Refused

H30 .Over the past 7 days, did you or others in your household consume any of the following items?

H30A .Other 1: Please specify

H30B .Other 2: Please specify

H30C .Other 3: Please specify

Answer

integer

Mango

Banana

Citrus – orange, etc.

Pineapple

Papaya

Guava, Chinese guava

Avocado

Wild fruit (Cactus,soursop...)

Lychee

Baobab

Coconut

Apple

Pocanelle

Jackfruit

Jamblon

Cherry

Zevy

Other fruits 1 (specify)

Other fruits 2 (specify)

Other fruits 3 (specify)

Did not have any of this category

Don't Know

Refused

text

text

text

Question

H31 .How much $\{H30_name\}$ in total did your household consume in the past 7 days?

Enter -88 for Don't Know Enter -99 for Refused

H31A .Indicate in what unit the respondent gave their answer

H31A2 .Other (specify)

H32 .How much [H30_name] in total did your household consume in the past 7 days came from purchases?

Enter -88 for Don't Know Enter -99 for Refused

Answer

integer

- Kilogramme(s)
- Tin
- Litre
- Cup
- Millilitre
- Piece / slice / portion
- Gram
- Sachet/tube
- Heap
- 50 Kg. bag
- 90 Kg. bag
- Boite MADCO
- Bunch
- Pail (small)
- Pail (large)
- Teaspoon
- Tablespoon
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Ox-cart (Unshelled)
- Basin
- Unit/Item
- Other (specify)
- Don't know
- Refuse

text

integer

Question	Answer
H33 .How much did you spend on the [H30_name] consumed in the Past 7 days? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H34 .How much [H30_name] came from your own production? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H34A .How much it would have cost to buy that much [H30_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H34B .How much [H30_name] came from gifts or other sources? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H34C .How much it would have cost to buy that much [H30_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H35 .Over the past 7 days, did you or others in your household consume any of the following items?	<p>Fresh milk</p> <p>Powdered milk</p> <p>Margarine - JADIDA</p> <p>Butter</p> <p>Soured milk (Abobo)</p> <p>Yoghurt</p> <p>Cheese</p> <p>Infant feeding formula (for bottle)</p> <p>Breast milk</p> <p>Other milk 1 (specify)</p> <p>Other milk 2 (specify)</p> <p>Other milk 3 (specify)</p> <p>Did not have any of this category</p>

Question	Answer
	Don't Know
	Refused
H35A .Other 1: Please specify	<i>text</i>
H35B .Other 2: Please specify	<i>text</i>
H35C .Other 3: Please specify	<i>text</i>
H36 .How much [H35_name] in total did your household consume in the past 7 days? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H36A .Indicate in what unit the respondent gave their answer	Kilogramme(s) Tin Litre Cup Millilitre Piece / slice / portion Gram Sachet/tube Heap 50 Kg. bag 90 Kg. bag Boite MADCO Bunch Pail (small) Pail (large) Teaspoon Tablespoon Basket (Dengu) (Shelled) Basket (Dengu) (Unshelled) Bale Ox-cart (Unshelled) Basin Unit/Item Other (specify) Don't know Refuse
H36A2 .Other (specify)	<i>text</i>

Question	Answer
<p>H37 .How much [H35_name] in total did your household consume in the past 7 days came from purchases? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H38 .How much did you spend on the [H35_name] consumed in the Past 7 days? In dollars <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H39 .How much [H35_name] came from your own production <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H39A .How much it would have cost to buy that much [H35_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H40 .How much [H35_name] came from gifts or other sources? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H40A .How much it would have cost to buy that much [H35_name] if you had to purchase it in the market today? (Malagasy Ariary) <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H41 .Over the past 7 days, did you or others in your household consume any of the following items?</p>	<p>Sugar Sugar Cane Cooking oil Coco butter Palm oil Other sugars, fats, or oils 1 (specify) Other sugars, fats, or oils 2 (specify)</p>

Question

Answer

	Other sugars, fats, or oils 3(specify)
	Did not have any of this category
	Don't Know
	Refused
H41A .Other 1: Please specify	<i>text</i>
H41B .Other 2: Please specify	<i>text</i>
H41C .Other 3: Please specify	<i>text</i>
H42 .How much [H41_name] in total did your household consume in the past 7 days? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H42A .Indicate in what unit the respondent gave their answer	Kilogramme(s) Tin Litre Cup Millilitre Piece / slice / portion Gram Sachet/tube Heap 50 Kg. bag 90 Kg. bag Boite MADCO Bunch Pail (small) Pail (large) Teaspoon Tablespoon Basket (Dengu) (Shelled) Basket (Dengu) (Unshelled) Bale Ox-cart (Unshelled) Basin Unit/Item Other (specify)

Question	Answer
	Don't know
	Refuse
H42A2 .Other (specify)	<i>text</i>
H43 .How much [H41_name] in total did your household consume in the past 7 days came from purchases? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H44 .How much did you spend on the [H41_name] consumed in the Past 7 days? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H45 .How much [H41_name] came from your own production? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H45A .How much it would have cost to buy that much [H41_name] if you had to purchase it in the market today? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H46 .How much [H41_name] came from gifts or other sources? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H46A .How much it would have cost to buy that much [H41_name] if you had to purchase it in the market today? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H47 .Over the past 7 days, did you or others in your household consume any of the following items?	Tea Coffee Cocoa, Milo Foster clark Fruit juice Soft drinks (Coca-cola, Fanta, Sprite, etc.)

Question

Answer

	Traditional rum, locally made (betsabetsa...)
	Bottled water
	Bottled / canned beer (Carlsberg, etc.)
	Mangidy
	Wine or commercial liquor
	Other beverages 1 (specify)
	Other beverages 2 (specify)
	Other beverages 3 (specify)
	Did not have any of this category
	Don't Know
	Refused
H47A .Other 1: Please specify	<i>text</i>
H47B .Other 2: Please specify	<i>text</i>
H47C .Other 3: Please specify	<i>text</i>
H48 .How much [H47_name] in total did your household consume in the past 7 days? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H48A .Indicate in what unit the respondent gave their answer	Kilogramme(s)
	Tin
	Litre
	Cup
	Millilitre
	Piece / slice / portion
	Gram
	Sachet/tube
	Heap
	50 Kg. bag
	90 Kg. bag
	Boite MADCO
	Bunch
	Pail (small)
	Pail (large)
	Teaspoon

Question**Answer**

	Tablespoon
	Basket (Dengu) (Shelled)
	Basket (Dengu) (Unshelled)
	Bale
	Ox-cart (Unshelled)
	Basin
	Unit/Item
	Other (specify)
	Don't know
	Refuse
H48A2 .Other (specify)	<i>text</i>
H49 .How much [H47_name] in total did your household consume in the past 7 days came from purchases? Enter -88 for Don't Know Enter -99 for Refused	
H50 .How much did you spend on the [H47_name] consumed in the Past 7 days? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H51 .How much [H47_name] came from your own production? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H51A .How much it would have cost to buy that much [H47_name] if you had to purchase it in the market today? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H52 .How much [H47_name] came from gifts or other sources? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H52A .How much it would have cost to buy that much [H47_name] if you had to purchase it in the market today? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>

Question

H53 .Over the past 7 days, did you or others in your household consume any of the following items?

Answer

Salt

Spices (Curry, black pepper, clove, cinnamon)

Yeast, baking powder, bicarbonate of soda

Tomato sauce (bottle)

Hot sauce (Sakay, etc.)

Jam, jelly

Sweets, candy, chocolates

Honey

Other spices, condiments, etc. 1 (specify)

Other spices, condiments, etc. 2 (specify)

Other spices, condiments,etc. 3 (specify)

Did not have any of this category

Don't Know

Refused

text

text

text

H54 .How much [H53_name] in total did your household consume in the past 7 days?
Enter -88 for Don't Know Enter -99 for Refused

integer

H54A .Indicate in what unit the respondent gave their answer

Kilogramme(s)

Tin

Litre

Cup

Millilitre

Piece / slice / portion

Gram

Sachet/tube

Question	Answer
	Heap
	50 Kg. bag
	90 Kg. bag
	Boite MADCO
	Bunch
	Pail (small)
	Pail (large)
	Teaspoon
	Tablespoon
	Basket (Dengu) (Shelled)
	Basket (Dengu) (Unshelled)
	Bale
	Ox-cart (Unshelled)
	Basin
	Unit/Item
	Other (specify)
	Don't know
	Refuse
H54A2 .Other (specify)	<i>text</i>
H55 .How much [H53_name] in total did your household consume in the past 7 days came from purchases? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H56 .How much did you spend on the [H53_name] consumed in the Past 7 days? Malagasy Ariary Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H57 .How much [H53_name] came from your own production? Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>
H57A .How much it would have cost to buy that much [H53_name] if you had to purchase it in the market today? (Malagasy Ariary) Enter -88 for Don't Know Enter -99 for Refused	<i>integer</i>

Question

H58 .How much [H53_name] came from gifts or other sources?

Enter -88 for Don't Know Enter -99 for Refused

H58A .How much it would have cost to buy that much [H53_name] if you had to purchase it in the market today? (Malagasy Ariary)

Enter -88 for Don't Know Enter -99 for Refused

H59 .Over the past 7 days, did you or others in your household consume any of the following items?

H59A .Other 1: Please specify

Answer

integer

integer

Maize - boiled or roasted (vendor)

Chips (vendor)

Cassava - boiled (vendor)

Eggs - boiled (vendor)

Chicken (vendor)

Meat, skewers (vendor)

Mofo gasy, Menakely, Ramanonaka, Mofo akondro

Fish (vendor)

Sweet potatoes

Samosa, nems (vendor)

Meal eaten at restaurant (Compose...)

Koba

Soup

Slaw salad

Other cooked foods from vendors 1 (specify)

Other cooked foods from vendors 2 (specify)

Other cooked foods from vendors 3 (specify)

Did not have any of this category

Don't Know

Refused

text

Question	Answer
H59B .Other 2: Please specify	<i>text</i>
H59C .Other 3: Please specify	<i>text</i>
H60 .How much [H59_name] in total did your household consume in the past 7 days? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H60A .Indicate in what unit the respondent gave their answer	Kilogramme(s) Tin Litre Cup Millilitre Piece / slice / portion Gram Sachet/tube Heap 50 Kg. bag 90 Kg. bag Boite MADCO Bunch Pail (small) Pail (large) Teaspoon Tablespoon Basket (Dengu) (Shelled) Basket (Dengu) (Unshelled) Bale Ox-cart (Unshelled) Basin Unit/Item Other (specify) Don't know Refuse
H60A2 .Other (specify)	<i>text</i>

Question	Answer
<p>H61 .How much [H59_name] in total did your household consume in the past 7 days came from purchases? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H62 .How much did you spend on the [H59_name] consumed in the Past 7 days? Malagasy Ariary <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H63. Over the past one week (7 days), did any people who are not members of your household eat any meals in your household?</p>	<p>Yes</p> <p>No</p>
<p>H64. Over the past one week (7 days), how many people who are not members of your household ate meals in your household? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H66. Over the past one week (7 days), what was the total number of meals that were shared with people who are not members of your household? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H67. Over the past one week (7 days), did your household purchase pet food for family pets like a cat or a dog?</p>	<p>Yes</p> <p>No</p>
<p>H68. How much did you spend on pet food last week? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>
<p>H69. Over the past one week (7 days), were there any other expenditures on pets?</p>	<p>Yes</p> <p>No</p>
<p>H70. How much did you spend on other purchases for pets last week? <i>Enter -88 for Don't Know Enter -99 for Refused</i></p>	<i>integer</i>

Question

NON-FOOD EXPENDITURES OVER PAST 7 DAYS

H72. Over the past one week (7 days), did your household purchase or pay for any of the following items?

Answer

Charcoal, Kitay

Petrol

Cigarettes or other tobacco

Candles

Rickshaw (Pousse-pousse)

Pirogue (lakana)

Matches

Newspapers or magazines

Public transport - Bicycle Taxi (include any used for school under education costs; include any used for obtaining health care under health expenditures)

Public transport - Bus/Minibus (include any used for school under education costs; include any used for obtaining health care under health expenditures)

Public transport - Other (truck, oxcart, etc.) (include any used for school under education costs; include any used for obtaining health care under health expenditures)

Other 1 (specify)

Other 2 (specify)

Other 3 (specify)

None of these options

Don't Know

Refused

text

text

text

H72A. Other 1: Please specify

H72B. Other 2: Please specify

H72C. Other 3: Please specify

Question

H73. How much did you pay for [H72_name] ? [In the past 7 days]

Enter -88 for Don't Know Enter -99 for Refused

NON-FOOD EXPENDITURES OVER PAST ONE MONTH

H74. Over the past 30 DAYS (one month), did your household use or buy any of the following items?

Answer

integer

Milling fees for grains (not

including cost of grain itself), grain

Bar soap (body soap or clothes soap)

Clothes soap (powder, paste)

Toothpaste, toothbrush

Toilet paper

Glycerin, Vaseline, skin creams, coconut oil, green clay

Other personal products (shampoo, razor blades, cosmetics, hair products, etc.)

Light bulbs

Postage stamps or other postal fees (Frais d'envoi pour le taxi - brousse ou DHL)

Donations - to church, charity, beggar, etc.

Petrol or diesel

Motor vehicle service, repair, or parts

Bicycle service, repair, or parts

Wages paid to servants

Repairs to household and personal items (radios, watches, etc., excluding battery purchases)

Utilities: Natural gas

Question

Answer

	Utilities: Electricity
	Utilities: Water
	Batteries
	Recharging of batteries, cell phones, etc.
	Air time for cell phones
	Anything related to illnesses and injuries, including for medicine, tests, consultation, & in-patient fees
	Medical care not related to an illness - preventative health care, prenatal visits, check-ups, etc.
	Non-prescription medicines, for example,
	Other 1 (specify)
	Other 2 (specify)
	Other 3 (specify)
	None of these options
	Don't Know
	Refused
H74A. Other 1: Please specify	<i>text</i>
H74B. Other 2: Please specify	<i>text</i>
H74C. Other 3: Please specify	<i>text</i>
H75. How much did you pay for [H74_name]? [In the past 30 days] <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
NON-FOOD EXPENDITURES OVER PAST THREE MONTHS	
H76. Over the past 3 months, did your household purchase or pay for any of the following items?	
	Infant clothing
	Baby nappies/diapers
	Boy's clothing (trousers, shirts, jackets...)
	Boy's undergarments
	Men's clothing (trousers, shirt, jackets...)

Question

Answer

Men's undergarments

Girl's clothing (blouse/shirt, dress/skirt...)

Girl's undergarments

Women's clothing (blouse/shirt, dress/skirt...)

Women's undergarments

Sarong

Boys shoes

Men's shoes

Girl's shoes

Women's shoes

Cloth, thread, other sewing material

Laundry, dry cleaning, tailoring fees

Bowls, glassware, plates, silverware, etc.

Cooking utensils (cookpots, stirring spoons and whisks, etc.)

Cleaning utensils (brooms, brushes, etc.)

Torch / flashlight

Umbrella

Petrol lamp

Stationery items (excluding school related)

Books (excluding school related)

Music or video cassette or CD/DVD

Tickets for sports / entertainment events

House decorations

Question

H76A. Other 1: Please specify
 H76B. Other 2: Please specify
 H76C. Other 3: Please specify
 How much did you pay for [H76_name]? [In the past 3 months]
Enter -88 for Don't Know Enter -99 for Refused
 NON-FOOD EXPENDITURES OVER PAST 12 MONTHS

H78. Over the past one year (twelve months), did your household purchase or pay for any of the following items?

Answer

Night's lodging in rest house or hotel (excluding school or health related)

Other 1: Specify

Other 2: Specify

Other 3: Specify

None of these options

Don't Know

Refused

text

text

text

integer

Carpet, rugs, drapes, curtains, tsihy

Linen - towels, sheets, blankets

Mat - sleeping or for drying maize flour

Mosquito net

Mattress

Sports & hobby equipment, musical instruments, toys

Film, film processing, camera

Cement

Bricks

Construction timber

Purchase of land for non-farming purposes

Community obligation

insurance - health (MASM, etc.), auto, home, life

Fines or legal fees

Question

Answer

Lobola (bridewealth) costs

Marriage ceremony costs

Funeral costs, exhumation, circumcision, household members

Funeral costs, exhumation, circumcision, non-household members (relatives, neighbors/friends)

Hospitalizations or overnight stay in any hospital – total cost for treatment

Travel to and from the medical facility for any overnight stay(s) or hospitalization

Food costs during overnight stay(s) at the medical facility or hospitalization (if not already included above)

Over-night(s) stay at a traditional healer's or faith healer's dwelling – total costs for treatment

Travel costs to the traditional healer's or faith healer's dwelling for overnight stay(s)

Food costs during overnight stay(s) at the traditional healer's or faith healer's dwelling

Tuition, including extra tuition fees

Expenditures on after school programs and tutoring

School books and stationery

School uniform

Boarding fees (including VAT)

Contribution to school building maintenance

Transport to and from school

Question**Answer**

	Parent/Teacher Association and other related fees
	Cellphone
	Other 1: Specify
	Other 2: Specify
	Other 3: Specify
	None of these options
	Don't Know
	Refused
H78A. Other 1: Please specify	<i>text</i>
H78B. Other 2: Please specify	<i>text</i>
H78C. Other 3: Please specify	<i>text</i>
H79. How much did you pay for [H78_name]? [In the past 12 months] <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>inter</i>
H80. Over the past one year (twelve months), did your household gather, purchase or pay for any of the following items?	Wood poles, bamboo Material for the roof Grass for thatching roof or other use Other 1: Specify Other 2: Specify Other 3: Specify None of these options Don't Know Refused
H80A. Other 1: Please specify	<i>text</i>
H80B. Other 2: Please specify	<i>text</i>
H80C. Other 3: Please specify	<i>text</i>
H81. What was the estimated total quantity of [H80_name] used? [In the past 12 months] <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H81A. INDICATE IN WHAT UNIT THE RESPONDENT GAVE THEIR ANSWER	OZ KG

Question

Answer

- Ton
- Sachet/tube
- Heap
- Boite MADCO
- Bunch
- Pail (small)
- Pail (large)
- Basket (Dengu) (Shelled)
- Basket (Dengu) (Unshelled)
- Bale
- Basin
- Ox-cart (Unshelled)
- Piece
- Other (specify)
- Don't know
- Refuse

H82. Did your household gather the [H80_name], or did your household purchase or pay for the [H80_name]? [In the past 12 months]

- Gathered
- Purchased
- Don't Know
- Refused

H82A. What was the total estimated value of [H80_name] that you gathered? (Malagasy Ariary) [In the past 12 months]

Enter -88 for Don't Know Enter -99 for Refused

integer

H82B. What was the total estimated value of [H80_name] that you purchased? (Malagasy Ariary) [In the past 12 months]

Enter -88 for Don't Know Enter -99 for Refused

integer

HOUSING EXPENDITURES

Question	Answer
H83. Do you own or are purchasing this house, is it provided to you by an employer, do you use it for free, or do you rent this house?	Own Being purchased Employer provides Free Rented Don't Know Refused
H84. If you sold this dwelling today, how much would you receive for it in MALAGASY AR? (-88 does not know, -99 refused) <i>Enter -88 for Don't Know Enter -88 for Refused</i>	<i>integer</i>
H85. How old is this house, in years? (-88 does not know, -99 refused) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H86. If you rented this dwelling out today, how much rent would you receive in MALAGASY AR? (-88 does not know, -99 refused) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H86A. Indicate in what unit the respondent would rent	Day Week Month Year Don't Know Refused
H87. How much do you pay to rent this dwelling in MALAGASY AR?	<i>integer</i>
H87A. Indicate in what unit the respondent would rent	Day Week Month

Question

Answer

H88. Do you pay a mortgage on this house, that is, a regular payment towards purchasing the house?

Year
Don't Know
Refused

H89. How often do you make mortgage payments?

Yes
No
Once a month
Once every 3 months
Once every 6 months
Once a year
Other (Specify)
Don't Know
Refused

H89A. other: Please specify

text

H90. How much do you pay each time you make a payment on your mortgage in MALAGASY AR?

Enter -88 for Don't Know Enter -99 for Refused

integer

H91. In the past one month, how much did you spend on repairs & maintenance to this house in

MALAGASY AR?

Enter -88 for Don't Know Enter -99 for Refused

integer

DURABLE GOODS EXPENDITURES

H92. Does your household own any of the following items?

Bed/table/chair
Fan
Radio
Tape or CD/DVD player/VCR
Television
Sewing machine
Kerosene/paraffin stove
Electric stove; hot plate
Gas stove
Refrigerator

Question	Answer
	Bicycle
	Boat
	Motorcycle/scooter
	Car
	Mini-bus
	Lorry
	Beer-brewing drum (Toaka, Betsabetsa)
	Sofa
	Cupboard, drawers, bureau
	Lantern (paraffin)
	Desk
	Clock
	Iron (for pressing clothes)
	Computer equipment & accessories
	Satellite dish
	Solar panel
	Generator
	None of these options
	Don't Know
	Refused
H93. How many [H92_name] do you own? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H94. What is the age of [H92_name] /s? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H95. If you wanted to sell these [H92_name] /s today, how much would you receive? <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
H96. Did you purchase or pay for any of these [H92_name] /s in the last 12 months?	Yes
	No
H96A. How many [H92_name] /s in the last year did you purchase?	<i>integer</i>

Question

Answer

H97. How much did you pay for all these [H92_name] /s all together (total) in the last 12 months?

Enter -88 for Don't Know Enter -99 for Refused

integer

Gender Access to Credit and Group Participation

Now I'd like to ask about your household's experience with borrowing money or other items in the past 12 months.

This section is for all women and men in a union identified from the household roster (Married or living together)

[ENUMERATOR: How many men and women in a union are being interviewed for this section?]

K02. Please select a name confirmation_k. [ENUMERATOR: Is this the first time this person has consented?]

name

Yes

No

Consent

Yes

No

Not Available

K06A. Has anyone in your household taken any loans or borrowed cash/in-kind from Non-governmental organization (NGO) in the past 12 months?

YES, CASH

YES, IN-KIND

YES, CASH AND IN-KIND

NO

Don't know

Refuse

K07A. Who made the decision to borrow from non-governmental organization (NGO)?

SELF

PARTNER/SPOUSE

OTHER HH MEMBER

OTHER NON-HH MEMBER

NOT APPLICABLE

Don't know

Question

K08A. Who makes the decision about what to do with the money/ item borrowed from non-governmental organization (NGO)?

Answer

Refuse

SELF

PARTNER/SPOUSE

OTHER HH MEMBER

OTHER NON-HH MEMBER

NOT APPLICABLE

Don't know

Refuse

K06B. Has anyone in your household taken any loans or borrowed cash/in-kind from Informal lender in the past 12 months?

YES, CASH

YES, IN-KIND

YES, CASH AND IN-KIND

NO

Don't know

Refuse

K07B. Who made the decision to borrow from Informal lender?

SELF

PARTNER/SPOUSE

OTHER HH MEMBER

OTHER NON-HH MEMBER

NOT APPLICABLE

Don't know

Refuse

K08B. Who makes the decision about what to do with the money/ item borrowed from Informal lender?

SELF

PARTNER/SPOUSE

OTHER HH MEMBER

OTHER NON-HH MEMBER

NOT APPLICABLE

Don't know

Refuse

Question

K06C. Has anyone in your household taken any loans or borrowed cash/in-kind from Formal lender (bank/financial institution) in the past 12 months?

Answer

YES, CASH
 YES, IN-KIND
 YES, CASH AND IN-KIND
 NO
 Don't know
 Refuse

K07C. Who made the decision to borrow from Formal lender (bank/financial institution)?

SELF
 PARTNER/SPOUSE
 OTHER HH MEMBER
 OTHER NON-HH MEMBER
 NOT APPLICABLE
 Don't know
 Refuse

K08C. Who makes the decision about what to do with the money/ item borrowed from Formal lender (bank/financial institution)?

SELF
 PARTNER/SPOUSE
 OTHER HH MEMBER
 OTHER NON-HH MEMBER
 NOT APPLICABLE
 Don't know
 Refuse

K06D. Has anyone in your household taken any loans or borrowed cash/in-kind from friends or relatives in the past 12 months?

YES, CASH
 YES, IN-KIND
 YES, CASH AND IN-KIND
 NO
 Don't know
 Refuse

K07D. Who made the decision to borrow from Friends or relatives?

SELF

Question

Answer

K08D. Who makes the decision about what to do with the money/ item borrowed from Friends or relatives?

PARTNER/SPOUSE
 OTHER HH MEMBER
 OTHER NON-HH MEMBER
 NOT APPLICABLE
 Don't know
 Refuse

K06E. Has anyone in your household taken any loans or borrowed cash/in-kind from groups based micro- finance or lending including Village Savings and Loan Association (VSLAs)/ Savings and Credit Cooperative Organization (SACCOs) in the past 12 months?

SELF
 PARTNER/SPOUSE
 OTHER HH MEMBER
 OTHER NON-HH MEMBER
 NOT APPLICABLE
 Don't know
 Refuse

K07E. Who made the decision to borrow from Group based micro-finance or lending including Village Savings and Loan Association (VSLAs)/ Savings and Credit Cooperative Organization (SACCOs)?

YES, CASH
 YES, IN-KIND
 YES, CASH AND IN-KIND
 NO
 Don't know
 Refuse

SELF
 PARTNER/SPOUSE
 OTHER HH MEMBER
 OTHER NON-HH MEMBER
 NOT APPLICABLE
 Don't know

Question

Answer

K08E. Who makes the decision about what to do with the money/ item borrowed from Group based micro- finance or lending including Village Savings and Loan Association (VSLAs)/ Savings and Credit Cooperative Organization (SACCOs)?

Refuse

- SELF
- PARTNER/SPOUSE
- OTHER HH MEMBER
- OTHER NON-HH MEMBER
- ..
- NOT APPLICABLE

Don't know

Refuse

K06F. Has anyone in your household taken any loans or borrowed cash/in-kind from informal credit/savings groups such as merry-go-rounds, tontines, funeral societies, etc. in the past 12 months?

- YES, CASH
- YES, IN-KIND
- YES, CASH AND IN-KIND
- NO
- Don't know

Refuse

K07F. Who made the decision to borrow from Informal credit/savings groups such as merry-go-rounds, tontines, funeral societies, etc.?

- SELF
- PARTNER/SPOUSE
- OTHER HH MEMBER
- OTHER NON-HH MEMBER
- ..
- NOT APPLICABLE

Don't know

Refuse

Question

K08F. Who makes the decision about what to do with the money/ item borrowed from Informal credit/savings groups such as merry-go-rounds, tontines, funeral societies, etc.?

Answer

SELF
PARTNER/SPOUSE
OTHER HH MEMBER
OTHER NON-HH MEMBER
NOT APPLICABLE
Don't know
Refuse

cash_earner_check. ENUMERATOR: [Is this person a cash earner?]

Yes
No

Gender (Cash)

J03. Please select the name of a cash earner

name

J06. Have you done any work in the last 12 months?

Yes

J07. During the last 12 months, were you usually paid in cash or kind for this work or were you not paid at all?

Cash Only
Cash and Kind
In Kind Only
Not Paid
Don't know
Refuse

J08. When you were paid in cash for this work, was the payment usually made directly to you, to your spouse/partner or to someone else in your household?

Respondent
Spouse/Partner
Someone else in household (specify)
Other (specify)
Don't know
Refuse

Question	Answer
J08A. Someone else in household (specify) <i>IF RESPONSE IS SOMEONE ELSE IN HOUSEHOLD OR OTHER, THEN SPECIFY THE RELATIONSHIP TO THE RESPONDENT.</i>	<i>text</i>
J08B. Other (specify)	<i>text</i>
J09A. Do you usually discuss with someone about how the cash you earn will be used?	Yes No
J09B. With whom do you usually talk about how the cash you earn will be used?	Spouse/Partner Someone Else in the household (specify) Other (specify) Don't know Refuse
J09B_specify_1. What is your relationship to the person you make decisions with?	<i>text</i>
J09B_specify_2. What is your relationship to the person who makes decisions?	<i>text</i>
J10. Who usually decides how the cash you earn will be used?	Yourself Spouse/Partner Yourself and Spouse/Partner Jointly Yourself and Other Jointly (specify) Other (specify) Don't know Refuse
J10A_specify_1. What is your relationship to the person you make decisions with?	<i>text</i>
J10B_specify_2. What is your relationship to the person who makes decisions?	<i>text</i>
J11. Who usually makes decisions about making major household purchases?	Yourself Spouse/Partner

Question	Answer
	Yourself and Spouse/Partner Jointly Yourself and Other Jointly (specify) Other (specify) Don't know Refuse
J11A_specify_1. What is your relationship to the person you make decisions with?	<i>text</i>
J11B_specify_2. What is your relationship to the person who makes decisions?	<i>text</i>
gender_check. ENUMERATOR: [Is this person you are currently interviewing a woman?]	Yes No
J12. Has your spouse/partner done any work in the last 12 months?	Yes No
J13. During the last 12 months, was he usually paid in cash or kind for this work or was he not paid at all?	Cash only Cash and kind In kind only Not paid Don't know Refuse
J14. Who usually decides how the cash he earns will be used?	Yourself Spouse/Partner Yourself and Spouse/Partner Jointly Yourself and Other Jointly (specify) Other (specify) Don't know Refuse

Resilience

Question	Answer
Now I would like to speak with the head of household or another responsible adult member	
head_of_household_R. Please select the name of the head of household or responsible adult	<i>name</i>
confirmation_R. R: [ENUMERATOR: Is this the first time the respondent gave his consent?]	Yes No
<i>Consent</i>	Yes No
Over the last year (12 months) did your household experience... <i>If experienced shock more than once, use the month of the most recent occurrence</i>	
R101a. Excessive rains	Yes No Don't Know Refused
R101b. Flooding	Yes No Don't Know Refused
R101c. Variable rain/drought	Yes No Don't Know Refused
R101d. Too little rain/drought	Yes No Don't Know Refused
R101e. Excessive landslides/erosion	Yes No Don't Know Refused
R101f. Crop disease	Yes No

Question	Answer
	Don't Know
	Refused
R101g. Crop pests (locusts, fall army worm)	Yes
	No
	Don't Know
	Refused
R101h. Weeds (e.g., associated with striga)	Yes
	No
	Don't Know
	Refused
R101i. Livestock disease	Yes
	No
	Don't Know
	Refused
R101j. Human disease outbreaks (from contaminated water)	Yes
	No
	Don't Know
	Refused
R101k. Theft or destruction of assets	Yes
	No
	Don't Know
	Refused
R101l. Theft of livestock (raids)	Yes
	No
	Don't Know
	Refused
R101m. Land conflict	Yes
	No
	Don't Know
	Refused
R101n. Water conflict (in particular, in rice cultivation)	Yes
	No
	Don't Know
	Refused
R101o. Gender based violence	Yes

Question	Answer
R101p. Delay in PSNP food assistance	No Don't Know Refused Yes No Don't Know Refused
R101q. Increasing food prices	Yes No Don't Know Refused
R101r. Increased prices of agricultural or livestock inputs	Yes No Don't Know Refused
R101s. Decreased prices for agricultural or livestock products	Yes No Don't Know Refused
R101t. Loss of land/rental property	Yes No Don't Know Refused
R101u. Death of household member	Yes No Don't Know Refused
R101v. Landlocked area/isolated Fokontany	Yes No Don't Know Refused

Question

In which month did the following shocks start?*If this is not applicable please skip to the next section*

Answer

R102a. Excessive rains

April 2020 or before

May

June

July

August

September

October

November

December

January

February

March

April 2021

Don't know

Refuse

R102b. Flooding

April 2020 or before

May

June

July

August

September

October

November

December

January

February

March

April 2021

Don't know

Refuse

R102c. Variable rain/drought

April 2020 or before

May

June

July

Question	Answer
R102d. Too little rain/drought	August September October November December January Febuary March April 2021 Don't know Refuse April 2020 or before May June July August September October November December January Febuary March April 2021 Don't know Refuse
R102e. Excessive landslides/erosion	April 2020 or before May June July August September October November December January Febuary

Question	Answer
	March
	April 2021
	Don't know
	Refuse
R102f. Crop disease	April 2020 or before
	May
	June
	July
	August
	September
	October
	November
	December
	January
	February
	March
	April 2021
	Don't know
	Refuse
R102g. Crop pests (locusts, fall army worm)	April 2020 or before
	May
	June
	July
	August
	September
	October
	November
	December
	January
	February
	March
	April 2021
	Don't know
	Refuse
R102h. Weeds (e.g., associated with striga)	April 2020 or before
	May
	June

Question	Answer
R102i. Livestock disease	July August September October November December January Febuary March April 2021 Don't know Refuse April 2020 or before May June July August September October November December January Febuary March April 2021 Don't know Refuse
R102j. Human disease outbreaks (from contaminated water)	April 2020 or before May June July August September October November December

Question	Answer
R102k. Theft or destruction of assets	January February March April 2021 Don't know Refuse April 2020 or before May June July August September October November December
R102l. Theft of livestock (raids)	January February March April 2021 Don't know Refuse April 2020 or before May June July August September October November December
R102m. Land conflict	January February March April 2021 Don't know Refuse April 2020 or before

Question	Answer
R102n. Water conflict (in particular, in rice cultivation)	May June July August September October November December January February March April 2021 Don't know Refuse
R102o. Gender based violence	April 2020 or before May June July August September October November December January February March April 2021 Don't know Refuse

Question	Answer
R102p. Delay in PSNP food assistance	October November December January Febuary March April 2021 Don't know Refuse April 2020 or before May June July August September October November December January Febuary March April 2021 Don't know Refuse
R102q. Increasing food prices	April 2020 or before May June July August September October November December January Febuary March April 2021

Question	Answer
R102r. Increased prices of agricultural or livestock inputs	Don't know Refuse April 2020 or before May June July August September October November December January Febuary March April 2021 Don't know Refuse
R102s. Decreased prices for agricultural or livestock products	April 2020 or before May June July August September October November December January Febuary March April 2021 Don't know Refuse
R102t. Loss of land/rental property	April 2020 or before May

Question	Answer
R102u. Death of household member	June July August September October November December January February March April 2021 Don't know Refuse April 2020 or before May June July August September October November December January February March April 2021 Don't know Refuse April 2020 or before May June July August September October November December
R102v. Landlocked area/isolated Fokontany	April 2020 or before May June July August September October November December

Question	Answer
<p>How severe was the impact of ... on your household's income over the last 12 months? <i>If this is not applicable please skip to the next section</i></p>	<p>January February March April 2021 Don't know Refuse</p>
<p>R103a. Excessive rains</p>	<p>No impact Slight decrease Severe increase Worst ever happened Don't know Refuse</p>
<p>R103b. Flooding</p>	<p>No impact Slight decrease Severe increase Worst ever happened Don't know Refuse</p>
<p>R103c. Variable rain/drought</p>	<p>No impact Slight decrease Severe increase Worst ever happened Don't know Refuse</p>
<p>R103d. Too little rain/drought</p>	<p>No impact Slight decrease Severe increase Worst ever happened Don't know Refuse</p>
<p>R103e. Excessive landslides/erosion</p>	<p>No impact Slight decrease</p>

Question	Answer
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103f. Crop disease	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103g. Crop pests (locusts, fall army worm)	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103h. Weeds (e.g., associated with striga)	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103i. Livestock disease	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103j. Human disease outbreaks (from contaminated water)	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103k. Theft or destruction of assets	No impact
	Slight decrease

Question	Answer
R103l. Theft of livestock (raids)	Severe increase Worst ever happened Don't know Refuse
R103m. Land conflict	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R103n. Water conflict (in particular, in rice cultivation)	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R103o. Gender based violence	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R103p. Delay in PSNP food assistance	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R103q. Increasing food prices	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse

Question	Answer
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103r. Increased prices of agricultural or livestock inputs	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103s. Decreased prices for agricultural or livestock products	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103t. Loss of land/rental property	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103u. Death of household member	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R103v. Landlocked area/isolated Fokontany	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse

Question

How severe was the impact of ... on your household's food consumption over the last 12 months?

If this is not applicable please skip to the next section

Answer

R104a. Excessive rains

No impact
Slight decrease
Severe increase
Worst ever happened
Don't know

R104b. Flooding

Refuse
No impact
Slight decrease
Severe increase
Worst ever happened
Don't know

R104c. Variable rain/drought

Refuse
No impact
Slight decrease
Severe increase
Worst ever happened
Don't know

R104d. Too little rain/drought

Refuse
No impact
Slight decrease
Severe increase
Worst ever happened
Don't know

R104e. Excessive landslides/erosion

Refuse
No impact
Slight decrease
Severe increase
Worst ever happened
Don't know

R104f. Crop disease

Refuse
No impact
Slight decrease

Question	Answer
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R104g. Crop pests (locusts, fall army worm)	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R104h. Weeds (e.g., associated with striga)	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R104i. Livestock disease	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R104j. Human disease outbreaks (from contaminated water)	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R104k. Theft or destruction of assets	No impact
	Slight decrease
	Severe increase
	Worst ever happened
	Don't know
	Refuse
R104l. Theft of livestock (raids)	No impact
	Slight decrease

Question	Answer
R104m. Land conflict	Severe increase Worst ever happened Don't know Refuse No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104n. Water conflict (in particular, in rice cultivation)	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104o. Gender based violence	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104p. Delay in PSNP food assistance	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104q. Increasing food prices	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104r. Increased prices of agricultural or livestock inputs	No impact

Question	Answer
	Slight decrease Severe increase Worst ever happened Don't know Refuse
R104s. Decreased prices for agricultural or livestock products	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104t. Loss of land/rental property	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104u. Death of household member	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
R104v. Landlocked area/isolated Fokontany	No impact Slight decrease Severe increase Worst ever happened Don't know Refuse
How has your household coped with... in the past 12 months? <i>If this is not applicable please skip to the next section</i>	
R105a. Excessive rains	Sent livestock in search of pasture Sold livestock

Question

Answer

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money- lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Question

Answer

R105b. Flooding

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Question

Answer

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Question

Answer

R105c. Variable rain/drought

- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)
- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing
- Reduced food consumption (quantity/meal; # of meals/day)
- Reduced non-essential household expenses
- Got food on credit from local merchant

Question

Answer

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g.
radio, bed)

Sold productive assets (e.g.,
plough, water pump)

Took out a loan (with
interest) from a (formal) bank

Took out a loan (with interest) from an MFI or
village savings group

Took out a loan (with interest) from a money-
lender

Took out a loan (no interest) from friends or
relatives within the community
(bonding)

Took out a loan (no interest) from friends or
relatives outside of the community
(bridging)

Unconditional gift of money (not remittances) or
food from family, friends, church or other group
within
community (bonding)

Unconditional gift of money (not remittances) or
food from family, friends, church or other group
outside of community (bridging)

Sent children to work for
money (e.g., domestic service)

Received emergency food
aid from the government or NGO

Received emergency cash transfer from the
government
or NGO

Participated in government or NGO food-for-work
or cash-for-work activities
(conditional)

Used own savings

Question

Answer

R105d. Too little rain/drought

Relied on remittances from a relative that migrated
 Other (specify)
 Did nothing
 Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
 Don't know
 Refuse
 Sent livestock in search of pasture
 Sold livestock
 Slaughtered livestock
 Leased out land
 Household member migrated for work
 Migrate (whole family)
 Sent children or adult to stay with relatives
 Took children out of school
 Moved to less expensive housing
 Reduced food consumption (quantity/meal; # of meals/day)
 Reduced non-essential household expenses
 Got food on credit from local merchant
 Took up new/additional work(casual labor, wage labor)
 Sold household items (e.g. radio, bed)
 Sold productive assets (e.g., plough, water pump)
 Took out a loan (with interest) from a (formal) bank
 Took out a loan (with interest) from an MFI or village savings group

Question

Answer

R105e. Excessive landslides/erosion

- Took out a loan (with interest) from a money- lender
- Took out a loan (no interest) from friends or relatives within the community (bonding)
- Took out a loan (no interest) from friends or relatives outside of the community (bridging)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)
- Sent children to work for money (e.g., domestic service)
- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock

Question

Answer

Slaughtered livestock

Leased out land

Household member migrated
for work

Migrate (whole family)

Sent children or adult to stay
with relatives

Took children out of school

Moved to less expensive
housing

Reduced food consumption
(quantity/meal; # of meals/day)

Reduced non-essential
household expenses

Got food on credit from local
merchant

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g.
radio, bed)

Sold productive assets (e.g.,
plough, water pump)

Took out a loan (with
interest) from a (formal) bank

Took out a loan (with interest) from an MFI or
village savings group

Took out a loan (with interest) from a money-
lender

Took out a loan (no interest) from friends or
relatives within the community
(bonding)

Took out a loan (no interest) from friends or
relatives
outside of the community (bridging)

Question

Answer

R105f. Crop disease

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Question

Answer

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest)

from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Question

Answer

R105g. Crop pests (locusts, fall army worm)

- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts(e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)
- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing
- Reduced food consumption (quantity/meal; # of meals/day)
- Reduced non-essential household expenses
- Got food on credit from local merchant
- Took up new/additional work (casual labor, wage labor)
- Sold household items (e.g. radio, bed)

Question

Answer

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Question

R105h. Weeds (e.g., associated with striga)

Answer

Engaged in spiritual efforts
(e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of
pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated
for work

Migrate (whole family)

Sent children or adult to stay
with relatives

Took children out of school

Moved to less expensive
housing

Reduced food consumption (quantity/meal; # of
meals/day)

Reduced non-essential household expenses

Got food on credit from local
merchant

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g.,
plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or
village savings group

Took out a loan (with interest) from a money-
lender

Took out a loan (no interest) from friends or
relatives within the community
(bonding)

Question

Answer

R105i. Livestock disease

- Took out a loan (no interest) from friends or relatives outside of the community (bridging)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)
- Sent children to work for money (e.g., domestic service)
- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work

Question

Answer

Migrate (whole family)

Sent children or adult to stay with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Question

Answer

R105j. Human disease outbreaks (from contaminated water)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Question

Answer

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Question

Answer

R105k. Theft or destruction of assets

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Question

Answer

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Question

R105I. Theft of livestock (raids)

Answer

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated
for work

Migrate (whole family)

Sent children or adult to stay
with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of
meals/day)

Reduced non-essential
household expenses

Got food on credit from local
merchant

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g.
radio, bed)

Sold productive assets (e.g.,
plough, water pump)

Took out a loan (with
interest) from a (formal) bank

Took out a loan (with interest) from an MFI or
village savings group

Took out a loan (with interest) from a money-
lender

Took out a loan (no interest) from friends or
relatives within the community
(bonding)

Question

Answer

R105m. Land conflict

- Took out a loan (no interest) from friends or relatives outside of the community (bridging)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)
- Sent children to work for money (e.g., domestic service)
- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities(conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land

Question

Answer

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Question

Answer

R105n. Water conflict (in particular, in rice cultivation)

- Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)
- Sent children to work for money (e.g., domestic service)
- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)
- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing

Question

Answer

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Question

Answer

R105o. Gender based violence

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Question

Answer

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Question

R105p. Delay in PSNP food assistance

Answer

- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)
- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing
- Reduced food consumption (quantity/meal; # of meals/day)
- Reduced non-essential household expenses
- Got food on credit from local merchant
- Took up new/additional work (casual labor, wage labor)
- Sold household items (e.g. radio, bed)
- Sold productive assets (e.g., plough, water pump)
- Took out a loan (with interest) from a (formal) bank
- Took out a loan (with interest) from an MFI or village savings group
- Took out a loan (with interest) from a money-lender
- Took out a loan (no interest) from friends or relatives within the community (bonding)

Question

Answer

R105q. Increasing food prices

- Took out a loan (no interest) from friends or relatives outside of the community (bridging)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)
- Sent children to work for money (e.g., domestic service)
- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)

Question

Answer

- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing
- Reduced food consumption (quantity/meal; # of meals/day)
- Reduced non-essential household expenses
- Got food on credit from local merchant
- Took up new/additional work (casual labor, wage labor)
- Sold household items (e.g. radio, bed)
- Sold productive assets (e.g., plough, water pump)
- Took out a loan (with interest) from a (formal) bank
- Took out a loan (with interest) from an MFI or village savings group
- Took out a loan (with interest) from a money-lender
- Took out a loan (no interest) from friends or relatives within the community (bonding)
- Took out a loan (no interest) from friends or relatives outside of the community (bridging)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)
- Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)
- Sent children to work for money (e.g., domestic service)

Question

Answer

R105r. Increased prices of agricultural or livestock inputs

- Received emergency food aid from the government or NGO
- Received emergency cash transfer from the government or NGO
- Participated in government or NGO food-for-work or cash-for-work activities (conditional)
- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)
- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing
- Reduced food consumption (quantity/meal; # of meals/day)
- Reduced non-essential household expenses
- Got food on credit from local merchant

Question

Answer

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g.
radio, bed)

Sold productive assets (e.g.,
plough, water pump)

Took out a loan (with
interest) from a (formal) bank

Took out a loan (with
interest) from an MFI or village savings group

Took out a loan (with
interest) from a money- lender

Took out a loan (no interest) from friends or
relatives

within the community (bonding)

Took out a loan (no interest) from friends or
relatives outside of the community
(bridging)

Unconditional gift of money (not remittances) or
food from family, friends, church or other group
within
community (bonding)

Unconditional gift of money (not remittances) or
food from family, friends, church or other group
outside of
community (bridging)

Sent children to work for money (e.g., domestic
service)

Received emergency food
aid from the government or NGO

Received emergency cash transfer from the
government or NGO

Participated in government or NGO food-for-work
or cash-for-work activities
(conditional)

Used own savings

Question

R105s. Decreased prices for agricultural or livestock products

Answer

- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse
- Sent livestock in search of pasture
- Sold livestock
- Slaughtered livestock
- Leased out land
- Household member migrated for work
- Migrate (whole family)
- Sent children or adult to stay with relatives
- Took children out of school
- Moved to less expensive housing
- Reduced food consumption (quantity/meal; # of meals/day)
- Reduced non-essential household expenses
- Got food on credit from local merchant
- Took up new/additional work (casual labor, wage labor)
- Sold household items (e.g. radio, bed)
- Sold productive assets (e.g., plough, water pump)
- Took out a loan (with interest) from a (formal) bank
- Took out a loan (with interest) from an MFI or village savings group

Question

Answer

R105t. Loss of land/rental property

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency food aid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Question

Answer

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay
with relatives

Took children out of school

Moved to less expensive
housing

Reduced food consumption (quantity/meal; # of
meals/day)

Reduced non-essential
household expenses

Got food on credit from local
merchant

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g.
radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with
interest) from a (formal) bank

Took out a loan (with
interest) from an MFI or village savings group

Took out a loan (with interest) from a money-
lender

Took out a loan (no interest) from friends or
relatives within the community
(bonding)

Took out a loan (no interest) from friends or
relatives outside of the community
(bridging)

Question

Answer

R105u. Death of household member

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Received emergency foodaid from the government or NGO

Received emergency cash transfer from the government or NGO

Participated in government or NGO food-for-work or cash-for-work activities (conditional)

Used own savings

Relied on remittances from a relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated for work

Migrate (whole family)

Sent children or adult to stay with relatives

Question

Answer

Took children out of school

Moved to less expensive housing

Reduced food consumption (quantity/meal; # of meals/day)

Reduced non-essential household expenses

Got food on credit from local merchant

Took up new/additional work (casual labor, wage labor)

Sold household items (e.g. radio, bed)

Sold productive assets (e.g., plough, water pump)

Took out a loan (with interest) from a (formal) bank

Took out a loan (with interest) from an MFI or village savings group

Took out a loan (with interest) from a money-lender

Took out a loan (no interest) from friends or relatives within the community (bonding)

Took out a loan (no interest) from friends or relatives outside of the community (bridging)

Unconditional gift of money (not remittances) or food from family, friends, church or other group within community (bonding)

Unconditional gift of money (not remittances) or food from family, friends, church or other group outside of community (bridging)

Sent children to work for money (e.g., domestic service)

Question

Answer

R105v. Landlocked area/isolated Fokontany

Received emergency food aid from the government
or
NGO

Received emergency cash transfer from the
government
or NGO

Participated in government or NGO food-for-work
or cash-for-work activities
(conditional)

Used own savings

Relied on remittances from a
relative that migrated

Other (specify)

Did nothing

Engaged in spiritual efforts
(e.g., prayed, sacrifices, etc.)

Don't know

Refuse

Sent livestock in search of
pasture

Sold livestock

Slaughtered livestock

Leased out land

Household member migrated
for work

Migrate (whole family)

Sent children or adult to stay
with relatives

Took children out of school

Moved to less expensive
housing

Reduced food consumption (quantity/meal; # of
meals/day)

Reduced non-essential
household expenses

Got food on credit from local
merchant

Question

Answer

Took up new/additional work
(casual labor, wage labor)

Sold household items (e.g.
radio, bed)

Sold productive assets (e.g.,
plough, water pump)

Took out a loan (with
interest) from a (formal) bank

Took out a loan (with interest) from an MFI or
village savings group

Took out a loan (with interest) from a money-
lender

Took out a loan (no interest) from friends or
relatives within the community
(bonding)

Took out a loan (no interest) from friends or
relatives outside of the community
(bridging)

Unconditional gift of money (not remittances) or
food from family, friends, church or other group
within
community (bonding)

Unconditional gift of money (not remittances) or
food from family, friends, church or other group
outside of community (bridging)

Sent children to work for
money (e.g., domestic service)

Received emergency food aid from the government
or
NGO

Received emergency cash transfer from the
government
or NGO

Participated in government or NGO food-for-work
or cash-for-work activities
(conditional)

Question

Answer

To what extent has your household been able to recover from ... you experienced over the last 12 months?

If this is not applicable please skip to the next section

- Used own savings
- Relied on remittances from a relative that migrated
- Other (specify)
- Did nothing
- Engaged in spiritual efforts (e.g., prayed, sacrifices, etc.)
- Don't know
- Refuse

R106a. Excessive rains

- Did not recover
- Fully recovered, same as before shock
- Fully recovered, and better than before the shock
- Partially recovered
- Not affected
- Don't know
- Refuse

R106b. Flooding

- Did not recover
- Fully recovered, same as before shock
- Fully recovered, and better than before the shock
- Partially recovered
- Not affected
- Don't know
- Refuse

R106c. Variable rain/drought

- Did not recover
- Fully recovered, same as before shock

Question	Answer
R106d. Too little rain/drought	<p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p>
R106e. Excessive landslides/erosion	<p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p>
R106f. Crop disease	<p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p>
R106g. Crop pests (locusts, fall army worm)	<p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p>
	<p>Fully recovered, same as before shock</p>

Question	Answer
R106h. Weeds (e.g., associated with striga)	<p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106i. Livestock disease	<p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106j. Human disease outbreaks (from contaminated water)	<p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106k. Theft or destruction of assets	<p>Did not recover</p> <p>Fully recovered, same as before shock</p>

Question	Answer
R106l. Theft of livestock (raids)	<p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p>
R106m. Land conflict	<p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106n. Water conflict (in particular, in rice cultivation)	<p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106o. Gender based violence	<p>Did not recover</p> <p>Fully recovered, same as before shock</p>

Question	Answer
R106p. Delay in PSNP food assistance	<p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p> <p>Fully recovered, same as before shock</p>
R106q. Increasing food prices	<p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106r. Increased prices of agricultural or livestock inputs	<p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106s. Decreased prices for agricultural or livestock products	<p>Did not recover</p> <p>Fully recovered, same as before shock</p>

Question	Answer
R106t. Loss of land/rental property	<p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p>
R106u. Death of household member	<p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p> <p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R106v. Landlocked area/isolated Fokontany	<p>Did not recover</p> <p>Fully recovered, same as before shock</p> <p>Fully recovered, and better than before the shock</p> <p>Partially recovered</p> <p>Not affected</p> <p>Don't know</p> <p>Refuse</p>
R107. To what extent has your ability to meet food needs returned to the level it was before all the shocks and stressors you experienced in the last 12 months?	<p>Ability to meet food needs is the same as before the shock</p>

Question

Answer

R108. In light of the shocks and stressors you faced in the last 12 months, to what extent do you believe you will be able to meet your food needs in the next year?

Ability to meet food needs is better than before the shock

Ability to meet food needs is worse than before the shock

We did not experience a shock in the last 12 months

Don't know

Refuse

Ability to meet food needs is the same as before the shock

Ability to meet food needs is better than before the shock

Ability to meet food needs is worse than before the shock

Don't know

R109. What have you done to protect your household from the impact of shocks in the future?

Nothing

Increased savings

Put aside grains (for household or animals)

Switched to different crop(s)

Switched to different livestock

Added additional agricultural activity

Added additional non-agricultural activity

Diversified into agricultural livelihood

Diversified into non-agricultural activity

Changed from ag to non-ag livelihood

Question**Answer**

How many of each of the following productive assests do you own...

R201a. Plough (oxen-pulled)
Enter -88 for Don't Know Enter -99 for Refused

R201b. Mechanical plough
Enter -88 for Don't Know Enter -99 for Refused

R201c. Sickle/Rather spade
Enter -88 for Don't Know Enter -99 for Refused

R201d. Pick axe
Enter -88 for Don't Know Enter -99 for Refused

R201e. Axe
Enter -88 for Don't Know Enter -99 for Refused

R201f. Pruning/cutting shears/rarely existing
Enter -88 for Don't Know Enter -99 for Refused

R201g. Hoe
Enter -88 for Don't Know Enter -99 for Refused

R201h. Spade or shovel
Enter -88 for Don't Know Enter -99 for Refused

R201i. Water trough
Enter -88 for Don't Know Enter -99 for Refused

R201j. Traditional beehive
Enter -88 for Don't Know Enter -99 for Refused

Changed from non-ag to ag livelihood

Acquired crop insurance

Acquired livestock insurance

Acquired other insurance (e.g. , health)

Relocated temporarily

Relocated permanently

Other

Don't know

Refuse

*integer**integer**integer**integer**integer**integer**integer**integer**integer**integer*

Question	Answer
R201k. Modern beehive	<i>integer</i>
R201l. Knapsack chemical sprayer <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R201m. Mechanical water pump <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R201n. Motorized water pump <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R201o. Stone grain mill	<i>integer</i>
R201p. Motorized grain mill	<i>integer</i>
R201q. Broad bed maker	<i>integer</i>
R201r. Small tractor	<i>integer</i>
R201s. Hand-held motorized tiller	<i>integer</i>
R201t. Individual granary (at homestead) traditional	<i>integer</i>
R201u. Modern Silo	<i>integer</i>
R201v. Grain bag	<i>integer</i>
R201w. Tarpaulin	<i>integer</i>
R201x. Agricultural land (hectares) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R201y. Horse drawn cart	<i>integer</i>
R201z. Harrow	<i>integer</i>
How many of the following livestock assets do you own...	
R203a. Oxen	<i>integer</i>
R203b. Cattle <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R203c. Goats <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R203d. Sheep <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R203f. Poultry <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>

Question	Answer
R203i. Honey Bees <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
How may of the following household assets do you own...	
R205a. Improved charcoal/wood stove <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205e. Wooden bed <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205g. Cellphone <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205h. Radio <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205p. Table <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205r. Bicycle <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205s. Cart (animal drawn) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205u. Motor bike (2 or 3 wheels) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205v. Generator <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205w. Solar lamp <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R205x. Micro-energy (Solar, Hydro, etc.) <i>Enter -88 for Don't Know Enter -99 for Refused</i>	<i>integer</i>
R601. Do you or any other household member regularly save cash?	Yes No Don't Know
R602. Where are the savings primarily held?	At home Microfinance Institution

Question	Answer
R701_note. Did you or anyone in your HH receive any information on	Village savings/credit group Bank NGO Mobile banking Other Don't know Refuse
R701a. Early warning for natural hazards (flooding, hail, landslide) in the last 12 months?	Yes No Don't Know
R701b. long-term changes in weather patterns in the last 12 months?	Yes No Don't Know
R701c. rainfall/ weather prospects for coming growing season in the last 12 months?	Yes No Don't Know
R701d. water prices and availability in local boreholes, wells, etc. in the last 12 months?	Yes No Don't Know
R701e. animal health (e.g., disease, epidemic, prevention) in the last 12 months?	Yes No Don't Know
R701f. crop health (e.g., pest outbreaks, disease, prevention) in the last 12 months?	Yes No Don't Know

Question	Answer
R701g. improved crop production practices/technologies (CA, seeds) in the last 12 months?	Yes No Don't Know
R701h. improved livestock production practices (fodder, husbandry) in the last 12 months?	Yes No Don't Know
R701i. Current market prices for live animals in the area in the last 12 months?	Yes No Don't Know
R701j. market prices for animal products (milk, hides, skins, etc.) in the last 12 months?	Yes No Don't Know
R701k. grazing conditions in nearby areas in the last 12 months?	Yes No Don't Know
R701l. conflict or security issues in the last 12 months?	Yes No Don't Know
R701m. business and investment opportunities in the last 12 months?	Yes No Don't Know
R701n. opportunities for borrowing money in the last 12 months?	Yes No Don't Know
R701o. market prices of the food you buy in the last 12 months?	Yes No

Question	Answer
R701p. child nutrition and health information in the last 12 months?	Don't Know Yes No Don't Know
R701q. equal rights for women and men in the last 12 months?	Yes No Don't Know
R701r. gender-based violence in the last 12 months?	Yes No Don't Know
R701s. natural resource management in the last 12 months?	Yes No Don't Know
What was the main source of your information about ...	
R702a. early warning for natural hazards (flooding, hail, landslide)?	Relatives, friends, neighbors Village leader Village development committee School teachers Group in community (e.g., savings, forest users, farmers) Religious leaders Elders Local market Government, rural development agents, health/agriculture ext. NGOs Newspaper/Radio/TV Internet or SMS

Question

Answer

R702b. long-term changes in weather patterns?

Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse

Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS

R702c. rainfall/ weather prospects for coming growing season?

Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse

Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)

Question

Answer

R702d. Water prices and availability in local boreholes, wells, etc.?

Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse
 Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know

Question

R702e. animal health (e.g., disease, epidemic, prevention)?

Answer

Refuse

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Group in community (e.g., savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Newspaper/Radio/TV

Internet or SMS

Private sector (input supplier, veterinarian, etc.)

Police or security individuals

Community Health Volunteer

Other

Don't know

Refuse

R702f. crop health (e.g., pest outbreaks, disease, prevention)?

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Group in community (e.g., savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Question

R702g. improved crop production practices/technologies (CA, seeds)?

R702h. improved livestock production practices (fodder, husbandry)?

Answer

Newspaper/Radio/TV

Internet or SMS

Private sector (input supplier, veterinarian, etc.)

Police or security individuals

Community Health Volunteer

Other

Don't know

Refuse

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Group in community (e.g., savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Newspaper/Radio/TV

Internet or SMS

Private sector (input supplier, veterinarian, etc.)

Police or security individuals

Community Health Volunteer

Other

Don't know

Refuse

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Question

Answer

R702i. current market prices for live animals in the area?

Group in community (e.g.,savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Newspaper/Radio/TV

Internet or SMS

Private sector (input supplier, veterinarian, etc.)

Police or security individuals

Community Health Volunteer

Other

Don't know

Refuse

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Group in community (e.g., savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Newspaper/Radio/TV

Internet or SMS

Private sector (input supplier, veterinarian, etc.)

Police or security individuals

Community Health Volunteer

Other

Question

R702j. market prices for animal products (milk, hides, skins, etc.?)

Answer

Don't know

Refuse

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Group in community (e.g., savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Newspaper/Radio/TV

Internet or SMS

Private sector (input supplier, veterinarian, etc.)

Police or security individuals

Community Health Volunteer

Other

Don't know

Refuse

R702k. grazing conditions in nearby areas?

Relatives, friends, neighbors

Village leader

Village development committee

School teachers

Group in community (e.g., savings, forest users, farmers)

Religious leaders

Elders

Local market

Government, rural development agents, health/agriculture ext.

NGOs

Question

Answer

R702l. conflict or security issues?

Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse
 Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse

R702m. business and investment opportunities?

Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers

Question

Answer

R702n. opportunities for borrowing money?

Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse
 Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other

Question

Answer

R702o. market prices of the food you buy?

Don't know
 Refuse
 Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse

R702p. child nutrition and health information?

Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV

Question	Answer
R702q. equal rights for women and men?	<p>Internet or SMS</p> <p>Private sector (input supplier, veterinarian, etc.)</p> <p>Police or security individuals</p> <p>Community Health Volunteer</p> <p>Other</p> <p>Don't know</p> <p>Refuse</p> <p>Relatives, friends, neighbors</p> <p>Village leader</p> <p>Village development committee</p> <p>School teachers</p> <p>Group in community (e.g., savings, forest users, farmers)</p> <p>Religious leaders</p> <p>Elders</p> <p>Local market</p> <p>Government, rural development agents, health/agriculture ext. NGOs</p> <p>Newspaper/Radio/TV</p> <p>Internet or SMS</p> <p>Private sector (input supplier, veterinarian, etc.)</p> <p>Police or security individuals</p> <p>Community Health Volunteer</p> <p>Other</p> <p>Don't know</p>
R702r. gender-based violence?	<p>Refuse</p> <p>Relatives, friends, neighbors</p> <p>Village leader</p> <p>Village development committee</p> <p>School teachers</p> <p>Group in community (e.g., savings, forest users, farmers)</p> <p>Religious leaders</p>

Question

Answer

R702s. natural resource management?

Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse
 Relatives, friends, neighbors
 Village leader
 Village development committee
 School teachers
 Group in community (e.g., savings, forest users, farmers)
 Religious leaders
 Elders
 Local market
 Government, rural development agents, health/agriculture ext.
 NGOs
 Newspaper/Radio/TV
 Internet or SMS
 Private sector (input supplier, veterinarian, etc.)
 Police or security individuals
 Community Health Volunteer
 Other
 Don't know
 Refuse

Are any household members active in the following groups?

Question

R802a. Water users' group

Answer

No HH member in group

HH member does not participate in decision-making

Somewhat active

Very active

HH member is a leader

Group does not exist in community

Don't know

Refuse

R802b. Farmers'/cattle rearing cooperative

No HH member in group

HH member does not participate in decision-making

Somewhat active

Very active

HH member is a leader

Group does not exist in community

Don't know

Refuse

R802c. Grazing land users' group

No HH member in group

HH member does not participate in decision-making

Somewhat active

Very active

HH member is a leader

Group does not exist in community

Don't know

Refuse

R802d. Community natural resources group

No HH member in group

HH member does not participate in decision-making

Somewhat active

Very active

HH member is a leader

Question	Answer
R802e. Forest users' group	<p>Group does not exist in community</p> <p>Don't know</p> <p>Refuse</p> <p>No HH member in group</p> <p>HH member does not participate in decision-making</p> <p>Somewhat active</p> <p>Very active</p> <p>HH member is a leader</p>
R802f. Agricultural/livestock/fisheries producer's group (including marketing groups)	<p>Group does not exist in community</p> <p>Don't know</p> <p>Refuse</p> <p>No HH member in group</p> <p>HH member does not participate in decision-making</p> <p>Somewhat active</p> <p>Very active</p> <p>HH member is a leader</p>
R802g. Trade and business association	<p>Group does not exist in community</p> <p>Don't know</p> <p>Refuse</p> <p>No HH member in group</p> <p>HH member does not participate in decision-making</p> <p>Somewhat active</p> <p>Very active</p> <p>HH member is a leader</p> <p>Group does not exist in community</p> <p>Don't know</p> <p>Refuse</p>

Question

R802h. Civic groups (people working together to improve their community) or charitable group (people working together to help people in need)

Answer

No HH member in group
 HH member does not participate in decision-making
 Somewhat active
 Very active
 HH member is a leader
 Group does not exist in community
 Don't know
 Refuse

R802i. Credit or micro-finance group

No HH member in group
 HH member does not participate in decision-making
 Somewhat active
 Very active
 HH member is a leader
 Group does not exist in community
 Don't know
 Refuse

R802j. Savings groups (VSLA, merry-go-round, etc.)

No HH member in group
 HH member does not participate in decision-making
 Somewhat active
 Very active
 HH member is a leader
 Group does not exist in community
 Don't know
 Refuse

R802k. Mutual help group (e.g., ritban, afoosha, ofera/ webera, burial, etc.)

No HH member in group

Question

Answer

	HH member does not participate in decision-making
	Somewhat active
	Very active
	HH member is a leader
	Group does not exist in community
	Don't know
	Refuse
R802m. Religious group	No HH member in group
	HH member does not participate in decision-making
	Somewhat active
	Very active
	HH member is a leader
	Group does not exist in community
	Don't know
	Refuse
R802n. Mothers' group	No HH member in group
	HH member does not participate in decision-making
	Somewhat active
	Very active
	HH member is a leader
	Group does not exist in community
	Don't know
	Refuse
R802o. Women's group	No HH member in group
	HH member does not participate in decision-making
	Somewhat active
	Very active
	HH member is a leader
	Group does not exist in community

Question	Answer
R802p. Youth group	Don't know Refuse No HH member in group HH member does not participate in decision-making Somewhat active Very active HH member is a leader Group does not exist in community Don't know
R802q. Sports group	Refuse No HH member in group HH member does not participate in decision-making Somewhat active Very active HH member is a leader Group does not exist in community Don't know
R802r. Disaster planning group	Refuse No HH member in group HH member does not participate in decision-making Somewhat active Very active HH member is a leader Group does not exist in community Don't know
R803. Does the water user's group manage communal water for livestock in this village?	Refuse Yes No Don't Know

Question

Answer

R804. Does the water user's group manage communal water for irrigation in this village?

Yes
No
Don't Know

R805. Does the group decide who in the village can use communal grazing land and when they can use it?

Yes
No
Don't Know

R806. Does the communal natural resources group decide who in the village can gather firewood and how much?

Yes
No
Don't Know

807a. ENUMERATOR: Was anyone in the household a member of a group or association?

Yes
No

R807. Over the last 12 months, how many times have you or anyone in your household been part of a group that provided labor to someone in the village who needed it?

None, no one needed/asked for help

None, I wasn't part of a group
Once or twice
3-5 times
6 or more times
Don't know
Refuse

R808. Over the last 12 months, how many times have you or anyone in your household been part of a group that provided food to someone in the village who needed it?

None, no one needed/asked for help

None, I wasn't part of a group
Once or twice

Question

Answer

R809. Over the last 12 months, how many times have you or anyone in your household been part of a group that provided some other type of help to someone else in the village?

3-5 times
 6 or more times
 Don't know
 Refuse

None, no one needed/asked for help

None, I wasn't part of a group

Once or twice

3-5 times

6 or more times

Don't know

Refuse

R810. Has the amount of help you or anyone in your household can provide to others in your village changed over the last five years?

No one in HH provided help to anyone in village over the last 5 years

No (stayed the same)

Yes, decreased slightly

Yes, decreased greatly

Yes, increased slightly

Yes, increased greatly

Don't know

Refuse

R1001. What were all the sources of your household's food/income over the last 12 months?...

Own farming/crop

production and sales

Own livestock

production/fattening and sales

Agricultural wage labor (WITHIN THE VILLAGE)

Agricultural wage labor (OUTSIDE THE VILLAGE)

Question

Answer

Non-agricultural wage labor (WITHIN THE VILLAGE)

Non-agricultural wage labor (OUTSIDE THE VILLAGE)

Salaried work

Sale of wild/bush products (including charcoal, firewood)

Honey production and sales

Petty trade (selling other products, e.g., grain, veggies, oil, sugar, etc.)

Petty trade (selling own products, e.g., local beer,sex work)

Other self-employment/own business (agricultural, e.g., buying/reselling chat)

Other self-employment/own business (non-agricultural, e.g., stone cutting, hair braiding, etc.)

Remittances

Gifts/inheritance

Safety net food/cash assistance

Other (specify) 1

Other (specify) 2

Other (specify) 3

Don't know

Refuse

Other

Specify other.

R1001_other1. Other (specify) 1

text

R1001_other2. Other (specify) 2

text

R1001_other3. Other (specify) 3

text

R1300a. During the drought members of my community have helped each other to cope

Strongly disagree

Disagree

Slightly disagree

Slightly agree

Agree

Strongly agree

Don't know

Question	Answer
R1300b. During the drought members from different communities have helped each other to cope	Refuse Strongly disagree Disagree Slightly disagree Slightly agree Agree Strongly agree Don't know Refuse
R1301. Has your household received any kind of formal support from the government or NGO over the past 12 months?	Yes No
R1302. What types of support were received?	Emergency food assistance Emergency cash assistance Food/cash transfers Household materials and non-food items Educational assistance/school feeding Agricultural inputs (seeds, fertiliser, etc.) Livestock inputs (feed, fodder, medicine, etc.) WASH (Water, Sanitation and Hygiene) Disaster planning/response Safety net (FFW/CFW) Child malnutrition/infant feeding Other (specify) Don't know Refuse

Question

R1306. Compared to one year ago has your ability to get help from anyone within or outside of your village:

Answer

Increased
Stayed the same
Decreased
Don't know
Refuse

R1307. Who INSIDE THIS VILLAGE would you help if they needed help urgently (e.g., food, money, labor, transport, etc.)?

Relatives
Non-relatives in my ethnic group/clan
Non-relatives in other ethnic group/clan
No one
Other (specify)
Don't know
Refuse

R1308. Who OUTSIDE THIS VILLAGE would you help if they needed help urgently (e.g., food, money, labor, transport, etc.)?

Relatives
Non-relatives in my ethnic group/clan
Non-relatives in other ethnic group/clan
No one
Other (specify)
Don't know
Refuse

R1309. Do you or does anyone else in your household personally know an elected government official?

Yes
No

R1310. How do you (or other household member) know the government official? Is he or she a....?

Family member or relative
Friend

Question

Answer

R1311. Could you ask the official to help your family or village if help was needed?

Neighbor
 Acquaintance (member of a group, friend of a friend, etc.)
 Other (specify)
 Don't know
 Refuse

R1312. Do you or does anyone else in your household personally know a staff member of an NGO?

Yes
 No

R1313. How do you (or another household member) know the NGO staff member? Is he or she a...?

Yes
 No

R1314. Could you ask the NGO staff member to help your family or community if help was needed?

Family member or relative
 Friend
 Neighbor
 Acquaintance (member of a group, friend of a friend, etc.)
 Other (specify)
 Don't know
 Refuse

R1315. Has your household given assistance to anyone WITHIN THIS VILLAGE in the last 12 months?

Yes
 No

R1316. What types of assistance has your household given to someone WITHIN THIS VILLAGE in the last 12 months?

Labor sharing (weeding, plowing, construction, etc.)
 Donation/gift (cash, animals, materials/ supplies, food, etc.)

Question

Answer

R1317. Who IN THIS VILLAGE have you given assistance to in the last 12 months?

Loans (cash, seeds, animals, etc.)
 Other (specify)
 Don't know
 Refuse
 Relatives
 Non-relatives in my ethnic group/clan
 Non-relatives in other ethnic group/clan
 No one
 Other (specify)
 Don't know
 Refuse

R1318. Within the last 12 months, has your household received assistance from anyone WITHIN THIS VILLAGE?

Yes
 No

R1319. What types of assistance has your household received from someone WITHIN THIS VILLAGE in the last 12 months?

Labor sharing (weeding, plowing, construction, etc.)
 Donation/gift (cash, animals, materials/ supplies, food, etc.)
 Loans (cash, seeds, animals, etc.)
 Other (specify)
 Don't know
 Refuse

R1320. Who WITHIN THIS VILLAGE provided you with assistance over the last 12 months?

Relatives
 Non-relatives in my ethnic group/clan

Question

Answer

R1321. Within the last 12 months, has your household given assistance to anyone OUTSIDE THIS VILLAGE?

Non-relatives in other ethnic group/clan
 No one
 Other (specify)
 Don't know
 Refuse

Yes
 No

R1322. What types of assistance did you give to someone OUTSIDE THIS VILLAGE in the last 12 months?

Labor sharing (weeding, plowing, construction, etc.)
 Donation/gift (cash, animals, materials/ supplies, food,etc.)

Loans (cash, seeds,animals, etc.)
 Other (specify)
 Don't know
 Refuse

R1323. Who OUTSIDE THIS VILLAGE did you give assistance to over the last 12 months?

Relatives
 Non-relatives in my ethnic group/clan
 Non-relatives in other ethnic group/clan
 No one
 Other (specify)
 Don't know
 Refuse

R1324. Within the last 12 months, has your household received assistance from anyone OUTSIDE THIS VILLAGE?

Yes
 No

Question

R1325. What types of assistance did you receive from someone OUTSIDE THIS VILLAGE in the last 12 months?

Answer

Labor sharing (weeding, plowing, construction, etc.)

Donation/gift (cash, animals, materials/ supplies, food, etc.)

Loans (cash, seeds, animals, etc.)

Other (specify)

Don't know

Refuse

R1326. Who OUTSIDE THIS VILLAGE provided you with assistance over the last 12 months?

Relatives

Non-relatives in my ethnic group/clan

Non-relatives in other ethnic group/clan

No one

Other (specify)

Don't know

Refuse

R1327. Have you or anyone in your household ever received any vocational (job) or skill training?

Yes

No

Don't Know

R1328. Have you or anyone in your household ever received any business development training (including financial literacy)?

Yes

No

Don't Know

R1329. Have you or anyone in your household ever received any early warning training?

Yes

No

Question	Answer
R1330. Have you ever or anyone in your household received any natural resource management training?	Don't Know
	Yes
	No
	Don't Know
R1331. Have you or anyone in your household ever received adult education?	Yes
	No
	Don't Know
R1332. Have you or anyone in your household ever received training in how to use your mobile phone to get market information like prices?	Yes
	No
	Don't Know
R1333. Have you or anyone in your household ever received seed packets/starter packets from the government or an NGO?	Yes
	No
	Don't Know
R1334. Can you or any other adult in your household read or write?	Yes
	No
	Don't Know
R1335. Have you or anyone in your household ever received adult education (literacy or numeracy or financial education)?	Yes
	No
	Don't Know
R1337. Have you or anyone in your household ever received training in how to use your mobile phone to get market information like prices?	Yes
	No
	Don't Know

Question

R1401. Please tell me which one of these two views you most agree with.

Answer

“Each person is primarily responsible for his/her success or failure in life”

“One’s success or failure in life is a matter of his/her destiny”

Don't know

Refuse

R1402. Please tell me which one of these two views you most agree with.

"To be successful, above all one needs to work very hard”

“To be successful above all one needs to be lucky”

Don't know

Refuse

R1403. Are you willing to move somewhere else to improve your life?

Yes

No

R1404. Are you hopeful about your children’s future?

Yes

No

R1405. What level of education do you want for your children?

No preference

Any level of primary

Graduated from primary

Graduated from secondary

Post-secondary (college, university)

No children in HH

Don't know

Refuse

R1406. Do you agree that one should always follow the advice of the elders?

Yes

No

R1407. Do you communicate regularly with at least one person outside the village?

Yes

No

Question

Answer

R1408. During the past week, have you engaged in any economic activities with other villages or clans?
For example, farming, trading, employment, borrowing or lending money.

Yes
No

R1409. How many times in the past month have you gotten together with friends, family, neighbors, etc. to discuss issues or share food/drinks, either in someone's home or in a public place?

integer

R1410. How many days in the past month have you attended a church/mosque or other religious service?

integer

R1411. In the last year, how many times have you stayed more than 1 week outside your village?

integer

Below is a series of statements that you may agree or disagree with. Using the scales below indicate your agreement with each item.

integer

R1412. My experience in life has been that what is going to happen will happen.

Strongly disagree
Disagree
Slightly disagree
Slightly agree
Agree
Strongly agree
Don't know
Refuse

R1413. My life is chiefly controlled by other powerful people

Strongly disagree
Disagree
Slightly disagree
Slightly agree
Agree
Strongly agree

Question

Answer

R1414. It is not always wise for me to plan too far ahead because many things turn out to be a matter of good or bad fortune.

Don't know
Refuse

Strongly disagree
Disagree
Slightly disagree
Slightly agree
Agree
Strongly agree
Don't know
Refuse

R1415. I can mostly determine what will happen in my life.

Strongly disagree
Disagree
Slightly disagree
Slightly agree
Agree
Strongly agree
Don't know
Refuse

R1416. When I get what I want, it is usually because I worked hard for it.

Strongly disagree
Disagree
Slightly disagree
Slightly agree
Agree
Strongly agree
Don't know
Refuse

R1417. My life is determined by my own actions.

Strongly disagree
Disagree
Slightly disagree
Slightly agree

Question	Answer
R1418. Most people are basically honest.	Agree Strongly agree Don't know Refuse Strongly disagree Disagree Slightly disagree Slightly agree Agree Strongly agree Don't know
R1419. Most people can be trusted.	Refuse Strongly disagree Disagree Slightly disagree Slightly agree Agree Strongly agree Don't know
R1420. I trust my neighbors to look after my house if I am away.	Refuse Strongly disagree Disagree Slightly disagree Slightly agree Agree Strongly agree Don't know
R1501. Generally, do adult men and women sit and eat together within households?	Refuse Yes, regularly Yes, occasionally No Don't know
R1502. Do you and your spouse sit and eat together within your household?	Refuse Yes, and it is culturally acceptable

Question	Answer
	Yes, but it is not culturally acceptable No, but it is culturally acceptable No, and it is not culturally acceptable Only for special occasions No spouse/spouse absent Don't know Refuse
R1503. Generally, do adult men and women sit together at public meetings?	Yes, and it is culturally acceptable Yes, but it is not culturally acceptable No, but it is culturally acceptable No, and it is not culturally acceptable Only for special occasions No spouse/spouse absent Don't know Refuse
R1505. Generally, do men in the village help with childcare around the household?	Yes, regularly Yes, occasionally No Don't know Refuse
R1506. Who primarily cares for your children?	Yourself Your spouse/partner You help your spouse/partner Your spouse/partner helps you Not applicable Other (specify) Don't know Refuse
R1506_other. specify	<i>text</i>
R1507. Generally, do men in the village help collect firewood or carry water for your household?	Yes, regularly

Question	Answer
R1508. Who primarily collects firewood for your household?	Yes, occasionally No Don't know Refuse Yourself Your spouse/partner You help your spouse/partner Your spouse/partner helps you Not applicable Other (specify) Don't know Refuse
R1508_other. specify	<i>text</i>
R1509. Who primarily fetches water for your household?	Yourself Your spouse/partner You help your spouse/partner Your spouse/partner helps you Not applicable Other (specify) Don't know Refuse
R1509_other. specify	<i>text</i>
R1601. Are there any government or NGO programs in this village?	Yes No Don't Know
R1602. What types of programming do they provide?	Emergency food/cash assistance Food/cash transfers

Question

Answer

	Household materials and non-food items
	Educational assistance
	Agricultural inputs (seeds, fertilizer, etc.)
	Livestock inputs (feed, fodder, medicine, etc.)
	WASH (Water, Sanitation, and Hygiene)
	Disaster planning/response
	Safety net (FFW/CFW)
	Child malnutrition/infant feeding
	Other
	Don't know
	Refuse
R1603. In the last 12 months, did you or your household receive any government or NGO assistance?	Yes
	No
	Don't Know
R1604. What type(s) of assistance did you or your household receive?	Emergency food/cash assistance
	Food/cash transfers
	Household materials and non-food items
	Educational assistance
	Agricultural inputs (seeds, fertilizer, etc.)
	Livestock inputs (feed, fodder, medicine, etc.)
	WASH (Water, Sanitation, and Hygiene)
	Disaster planning/response
	Safety net (FFW/CFW)
	Child malnutrition/infant feeding

Question	Answer
R1604_other. Other	Other Don't know Refuse <i>text</i>
R1605. Is there an emergency plan for livestock offtake if a drought hits your village?	Yes No Don't Know
R1606. Do you have an active Peace Committee in your village?	Yes No Don't Know
R1606a. Do you have an active Area Land Committee in your village?	Yes No Don't Know
R1607. Does this village have a security or police force?	Yes No Don't Know
R1608. Who provides the nearest security/police force?	Subcounty government District government National government Local militia Community members Other (specify): Don't know Refuse
R1608_other. Other	<i>text</i>
R1609. How long does it take for the nearest security/police force to reach this village?	Over one hour About one hour Half an hour Minutes Don't know Refuse

Question	Answer
Anthropometry	
Now can I speak to the caregiver of each child?	
num_children_under5. How many children under the age of 5 are we weighing?	<i>integer</i>
confirmation_anthro_children. [ENUMERATOR: Is this the first time the caregiver is giving consent?]	Yes No
Consent	Yes No
D68. Select name of person who will be weighed	<i>name</i>
D69. SEX	Male Female
D71. CHILD'S BIRTH DATE	<i>date</i>
D70. [anthro_child_calc] is [D70_months] months old	
D72. SOURCE BIRTH DATE	Birth certificate Baptismal/church record Health registration card Home record Parent statement Other (specify) Don't know Refuse
D72_other. Other (specify)	<i>text</i>
D75. WEIGHT	<i>integer</i>
D77. EDEMA	Yes No
survey_complete. ENUMERATOR: Is the survey complete?	Yes No
survey_comments. ENUMERATOR: Please describe any issues you have had with the survey <i>Not mandatory</i>	

