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# FTF GHANA POPULATION - BASED SURVEY IN NORTHERN GHANA:

# PROTOCOL FOR BASELINE SURVEY

**BY METSS GHANA**

**ACCRA**

**FEBRUARY 2013**

## ACRONYMS

| | |
|---|---|
| ADB | Agricultural Development Bank |
| AEAs | Agriculture Extension Agents |
| AESD | Agriculture Engineering Services Directorate |
| AgDPL | Agriculture Development Policy lending |
| AgSSIP | Agricultural Service Sub-sector Investment Program |
| APD | Animal Production Directorate |
| APR | Annual Progress Report |
| BMI | Body Mass Index |
| CAADP | Comprehensive Africa Agriculture Development Programme |
| CEPA | Center for Policy Analysis |
| CIDA | Canadian International Development Agency |
| CSIR | Council for Scientific and Industrial Research |
| CSO | Civil Society Organization |
| DADU | District Agriculture Development Unit |
| DAES | Directorate of Agricultural Extension Services |
| DCS | Directorate of Crops Services |
| DDA | District Director of Agriculture |
| DDO | District Development Officer |
| DMISO | District Management Information Systems officer |
| DOF | Directorate of Fisheries |
| DP | Development Partner |
| DPCU | District Planning Coordination Unit |
| EA | Enumeration Area |
| EG | Economic Growth |
| EU | European Union |
| EWB | Engineers without Borders |
| FABS | Food and Agricultural Budgetary Support |
| FAO | Food and Agriculture Organization of the United Nations |
| FASDEP | Food and Agriculture Sector Development Policy |
| FBO | Farmer Based Organization |
| FTF | Feed The Future |
| GAPS | Ghana Agriculture Production Survey |
| GDHS | Ghana Demographic and Health Survey |
| GDP | Gross Domestic Product |
| GHS | Ghana Health Service |
| GIDA | Ghana Irrigation Development Authority |
| GIS | Geographic Information Systems |
| GLDB | Grains and Legumes Development Board |
| GLSS | Ghana Living Standards Survey |
| GPS | Global Positioning System |
| GoG | Government of Ghana |
| GPRS | Growth and Poverty Reduction Strategy |
| GSS | Ghana Statistical Service |
| GSSP | Ghana Strategy Support Program |

| | |
|---|---|
| IFPRI | International Food Policy Research Institute |
| IPs | Implementing Partners |
| ISSER | Institute of Statistical, Social and Economic Research |
| LEAP | Livelihood Empowerment Against Poverty |
| LPIU | Livestock Planning and Information Unit |
| MCA | Millennium Challenge Account |
| MCC | Millennium Challenge Corporation |
| MiDA | Millennium Development Authority |
| MDBS | Multi Donor Budget Support |
| MDGs | Millennium Development Goals |
| MEC | Monitoring, Evaluation and Coordination |
| METASIP | Medium Term Agricultural Sector Investment Plan |
| METSS | Monitoring, Evaluation and Technical Support Services |
| MLGRD | Ministry of Local Government and Rural Development |
| M&E | Monitoring and Evaluation |
| MICS | Multiple Indicator Cluster Survey |
| MoFA | Ministry of Food and Agriculture |
| MTEF | Medium Term Expenditure Framework |
| MRACLS | Multi-Round Annual Crop and Livestock Survey |
| NDI | Northern Development Initiative |
| NDPC | National Development Planning Commission |
| PASA | Participating Agency Service Agreement |
| PBS | Population Based Survey |
| PDF | Portable Document Format |
| PPMED | Policy Planning Monitoring and Evaluation Directorate |
| PPRSD | Plant Protection and Regulatory Service Directorate |
| PPP | Policies, Programs, Projects |
| PSI | President Special Initiatives |
| PSIA | Poverty and Social Impact Assessment |
| RADU | Regional Agriculture Development Unit |
| RBME | Results-Based Monitoring and Evaluation System |
| RDA | Regional Director of Agriculture |
| ReSAKSS | Regional Strategic Analysis and Knowledge Support System |
| RING | Resiliency in Northern Ghana |
| SADA | Savannah Accelerated Development Agency |
| SAPR | Sector Annual Progress Report |
| SD | Standard Deviation |
| SMTDP | Sector Medium-Term Development Plan |
| SPSS | Statistical Package for the Social Sciences |
| SRID | Statistics Research and Information Directorate |
| SWAP | Sector Wide Approach |
| VSD | Veterinary Services Directorate |
| WIAD | Women in Agricultural Development |
| WB | World Bank |
| ZOI | Zone of Influence |

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# 1 Introduction

This protocol is designed to provide guidance to stakeholders and outline the procedures involved in the initiation, planning, implementation and reporting of the U.S. Agency for International Development (USAID)-funded Population-Based Survey in the Feed the Future (FTF) Ghana Zone of Influence (ZOI). The survey which is to be rolled out in districts in the three northern regions of Ghana as well as areas above the 8$^{th}$ Parallel in the Brong-Ahafo Region has a six-month activity timeline.

The survey will be implemented through the collaborative efforts of the Monitoring Evaluation and Technical Support Services (METSS) program, the Institute of Statistical, Social and Economic Research (ISSER) of the University of Ghana and the Ghana Statistical Service (GSS). The US Department of Agriculture (USDA) and USAID will provide technical support.

As a living document, relevant sections of the survey protocols were updated periodically when applicable. The remaining sections of the document provide background on: USAID and FTF; survey purpose, objectives, and study areas; survey personnel and resources; survey design and implementation plans; data quality, data management, and problem mitigation procedures; and expectations regarding data analysis and report generation.

## 1.1 Background

### 1.1.1 Monitoring, Evaluation and Technical Support Services (METSS)

METSS is a USAID/Ghana program administered through a Participating Agency Service Agreement (PASA) with USDA. Under this PASA, USDA has, in turn, engaged the Kansas State University and the University of Cape Coast to provide technical and management support for monitoring and reporting on the performance of USAID/Ghana's Economic Growth (EG) office's functions. The program also provides technical services relating to program design and evaluation as well as analyses to support informed policy and regulatory reforms for increased agricultural growth and food security in Ghana. Thus the two Universities work with the USDA to contribute to the achievement of the Strategic Objective of the EG Program of the USAID/Ghana Mission.

### 1.1.2 USAID and Feed the Future (FTF) in Ghana

Ghana has been designated as a priority country for the USG's FTF initiative. The initiative supports growth of the agricultural sector and promotes good nutrition to attain its key goal, "to sustainably reduce global hunger and poverty by tackling their root causes and employing proven strategies for achieving large scale and lasting impact." The prevalence of poverty and proportion of underweight children are the key indicators chosen to measure success towards reaching the FTF goal. FTF activities for Ghana began in mid-2011 and are aligned with national strategies and development plans.

Currently incorporated into FTF in Ghana, the objectives of the Global Hunger and Food Security Initiative (GHFSI) were to: increase agricultural growth, expand staple food supplies, and support the Government of Ghana (GoG)'s vision of leading Ghana into a middle income economy. This is to be realized by the adoption of prudent policies, better policy coordination and better management of the national economy. USAID/Ghana's FTF strategy is to build on its long-standing involvement in agriculture and concentrate on commercialization of staple crops through key value chain focus areas of rice, maize, and soybeans. The approach focuses on closing the yield gaps of the country's major staples. Increased productivity rather than land expansion has to be the main source of agricultural growth. Closing the yield gaps would require substantial investments in roads and irrigation, marketing, extension, processing and agricultural research and development.

USAID/Ghana's EG Team has requested METSS to develop a comprehensive system that tracks activities collecting and analyzing reliable and valid data within EG's project portfolio in relationship to the USG's FTF goals and objectives. These are harmonized with goals of GoG initiatives, particularly the Comprehensive Africa Agriculture Development Program (CAADP) and the Medium Term Agricultural Sector Investment Plan (METASIP), the Savannah Accelerated Development Agency (SADA), the Livelihood Empowerment Against Poverty (LEAP) program and possibly the Northern Development Initiative (NDI).

### 1.1.3 The Population-Based Survey (PBS) in northern Ghana

USAID/Ghana's FTF program requires a population-based survey (PBS), focused on a selection of required FTF impact and outcome indicators, for their Zone of Influence (ZOI) within northern Ghana. The Ghana FTF PBS responds to the FTF population-based survey requirements.

The survey was conducted by the METSS Team including USDA/UCC/KSU and the Accra-based staff in partnership with the Institute of Statistical, Social and Economic Research (ISSER) of the University of Ghana as well as the Ghana Statistical Service.

The ZOI PBS was conducted in a representative sample of USAID's FTF ZOI, with field work commencing in June 2012. The sample frame included districts in the Northern, Upper West, and Upper East Regions and had been expanded to include some areas within Brong-Ahafo Region that fall above the 8th parallel.

Data from this survey is intended to provide a means of looking at population level change within the ZOI between baseline and final in FTF indicators of poverty, per capita expenditures, nutritional status, women's empowerment, household hunger, dietary diversity and infant and young child feeding behaviors over the coming five years. This will be accomplished through future midterm (possible) and a final end of program ZOI PBS. The 2010 census Enumeration Areas for ZOI areas were collectively identified to be the ZOI for

FTF Ghana. A cluster sample was randomly selected from this universe of EAs, from which households were randomly sampled to respond to the survey instrument.

### 1.2 Problem Statement and Motivation

The FTF program needs comparative data to evaluate progress and monitor the impact of FTF-supported activities in its ZOI within northern Ghana (Northern, Upper East and Upper West Regions) and selected districts above the 8th Parallel in the Brong-Ahafo Region. Data for the required FTF indicators were not available for the areas representative of the USAID Ghana ZOI through any other source. There was thus, the need for USAID/Ghana to mobilize resources to conduct a PBS and generate the required data. USAID/Washington was also providing the technical support and guidance for conducting the required PBS globally for its FTF program. The Ghana Mission, therefore, took advantage of this opportunity to address its need for reliable data in meeting its monitoring and evaluation mandate.

### 1.3 Objectives of the Survey

The main objective of the PBS was to determine statistically significant baseline values for FTF required population-based indicators for the ZOI. Baseline data would be compared against mid-term and final evaluation data to capture statistically significant changes in the zone of influence over time. The baseline values could also be used as points of reference for special studies as determined by USAID and IPs.

## 2 A Summary of USAID/Ghana FTF Program

Feed the Future seeks to bring about positive changes in the economic, food security and nutritional status of Ghanaian households. USAID/Ghana's ZOI is principally focused within the three northernmost regions of Ghana namely: Upper West, Upper East, and Northern Region and in selected areas above the 8th degree parallel in Brong Ahafo Region. By focusing activities in northern Ghana where incidence of poverty, malnutrition, and stunting among children under-five years of age are higher, USAID hopes to bring about greater change than could be anticipated in the case where activities were less concentrated throughout the country.

The USAID/Ghana's FtF program will create inclusive agricultural sector growth by improving agricultural productivity and expanding markets and trade through a value chain approach – with specific focus on rice, maize, and soybeans. It will increase the nutritional status of women and children by improving access to diverse and quality foods, improving nutrition-related behaviors, and improving utilization of maternal and child health and nutrition services. Increasing investment in agricultural and nutrition-related activities, improving the enabling policy environment for agriculture and nutrition, and increasing the resilience of vulnerable communities and households activities will contribute towards meeting both

objectives. All projects will be sensitive to women's issues and be guided and managed by strong monitoring and evaluation systems, processes and analyses.

USAID/Ghana had already engaged some implementing partners (IPs) to execute corresponding activities outlined in Table 1 under its FTF program. A number of additional partners would be engaged to implement other activities planned for FTF intervention. These projects will measure achievements and progress based on a set of standard FTF indicators and with custom indicators specific to their intervention approaches. In addition to project monitoring, FTF is requiring that a population-based baseline survey be conducted for the ZOI - in its entirety - for their high level indicators per Table 2.

**Table 1: EG Implementing Partners and Activity Summary**

| Implementing Partner | Project Title | Project Timeline | Activity Summary |
|---|---|---|---|
| ACDI/VOCA | ADVANCE | 2009-13 | Integration of small-holder agriculture into supply chain of agro-processing and export markets. |
| Engineering, Environmental Science & Economics (Danish/EU/USAID) | BUSAC II | 2011-14 | Increasing capacity of business association, trade unions, business media to research and advocate change. |
| 1. Technical Assistance Provider To Be Determined 2. District Assemblies in 15 RING regions. | RING | 2012-17 | Focus on rural agricultural households with women of reproductive age and children under 2; increase consumption of diverse quality foods, especially among women and children, improving behaviors related to nutrition of women and young children, strengthening local support networks of vulnerable households. |
| MoFA (World Bank, USAID) | GCAP | 2012-17 | Increased access to land, private sector finance, input-and output markets by smallholder farmers from private-public partnerships in commercial agriculture |

**Table 2: List of High Level Performance Indicators**

| Indicator Number | Indicator Name |
|---|---|
| 3.1.9-16 | Prevalence of underweight children under five years of age |
| 3.1.9-11 | Prevalence of stunted children under five years of age |
| 3.1.9-12 | Prevalence of wasted children under five years of age |
| 3.1.9-13 | Prevalence of underweight women |
| 3.1.9.1-1 /4.7-4 | Prevalence of households with moderate or severe hunger |
| 4-16 | Prevalence of Poverty: Percent of people living on less than $1.25 per day |
| 3.1.9.1-1 | Prevalence of children 6-23 months receiving a minimum acceptable diet |
| 3.1.9-4/ 3.1.9.1-4 | Prevalence of exclusive breastfeeding of children under six months of age |
| 3.1.9.1-2 | Women's dietary diversity |
| 4.5-9 | Per capita expenditures |
| 4.5-X | Women's Empowerment in Agriculture Index |

### 2.1 Programs of Key Organizations in Northern Ghana

Information on the locations of activities supported by development partners in agriculture was considered important by USAID/Ghana in determining where FTF activities would be based, and complement GoG activities and priorities as well. The column in Appendix A showing where METSS/PBS will be taking place does include all of the EAs within most of the districts listed, though not in all (e.g. Bole).

## 3 Conceptual Framework

The Feed the Future (FtF) Initiative aims to sustainably reduce hunger and poverty through investments along two primary objectives: 1) accelerating inclusive agricultural sector growth; and 2) improving nutritional status. FtF is being implemented in 20 focus countries around the world, including Ghana, and supports countries' agriculture and other

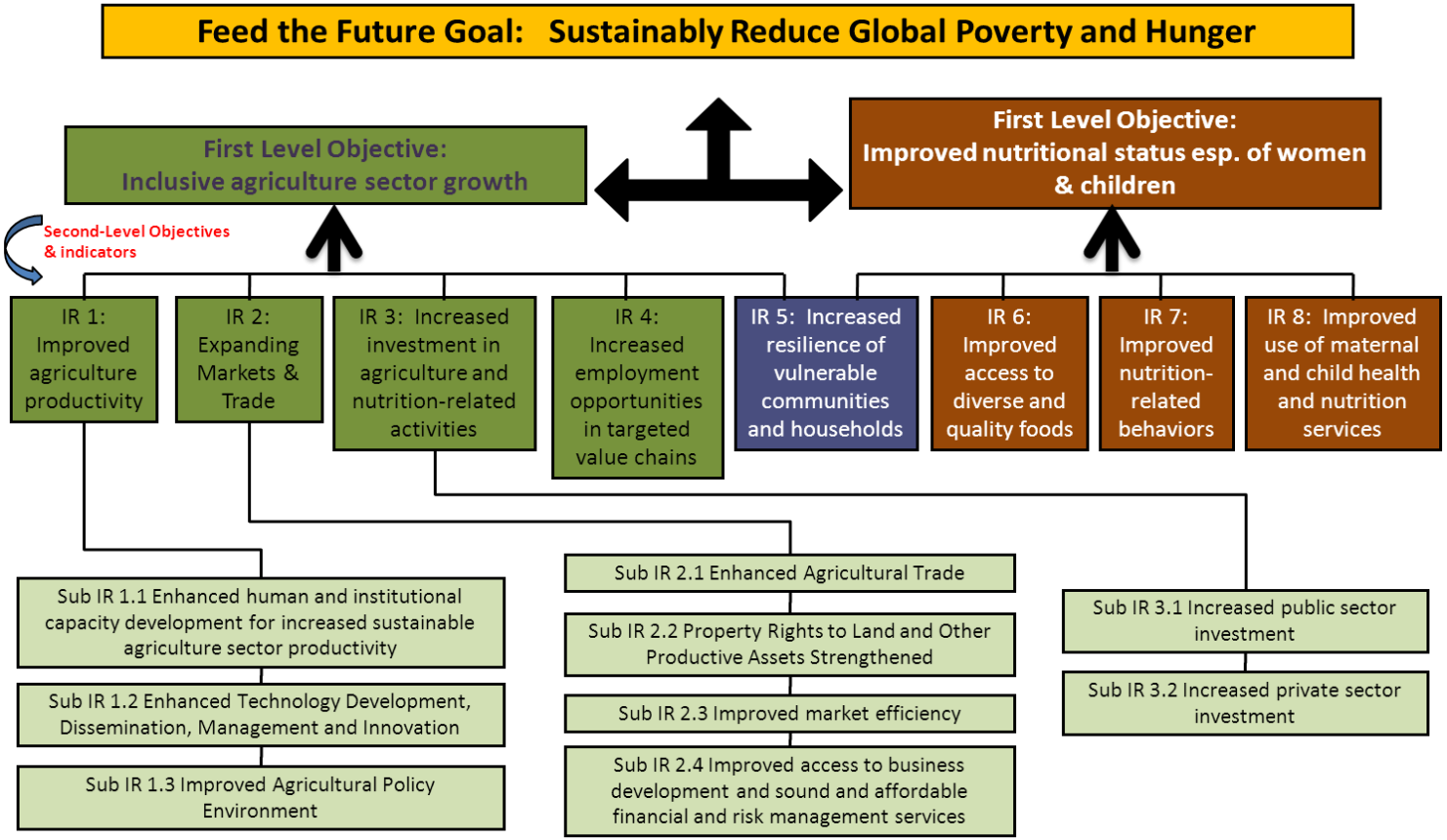



**Figure 1: USAID Feed the Future Results Framework**[1]

[1] Source: FTF Volume 1, Feed the Future Monitoring & Evaluation Overview; http://www.feedthefuture.gov/progress

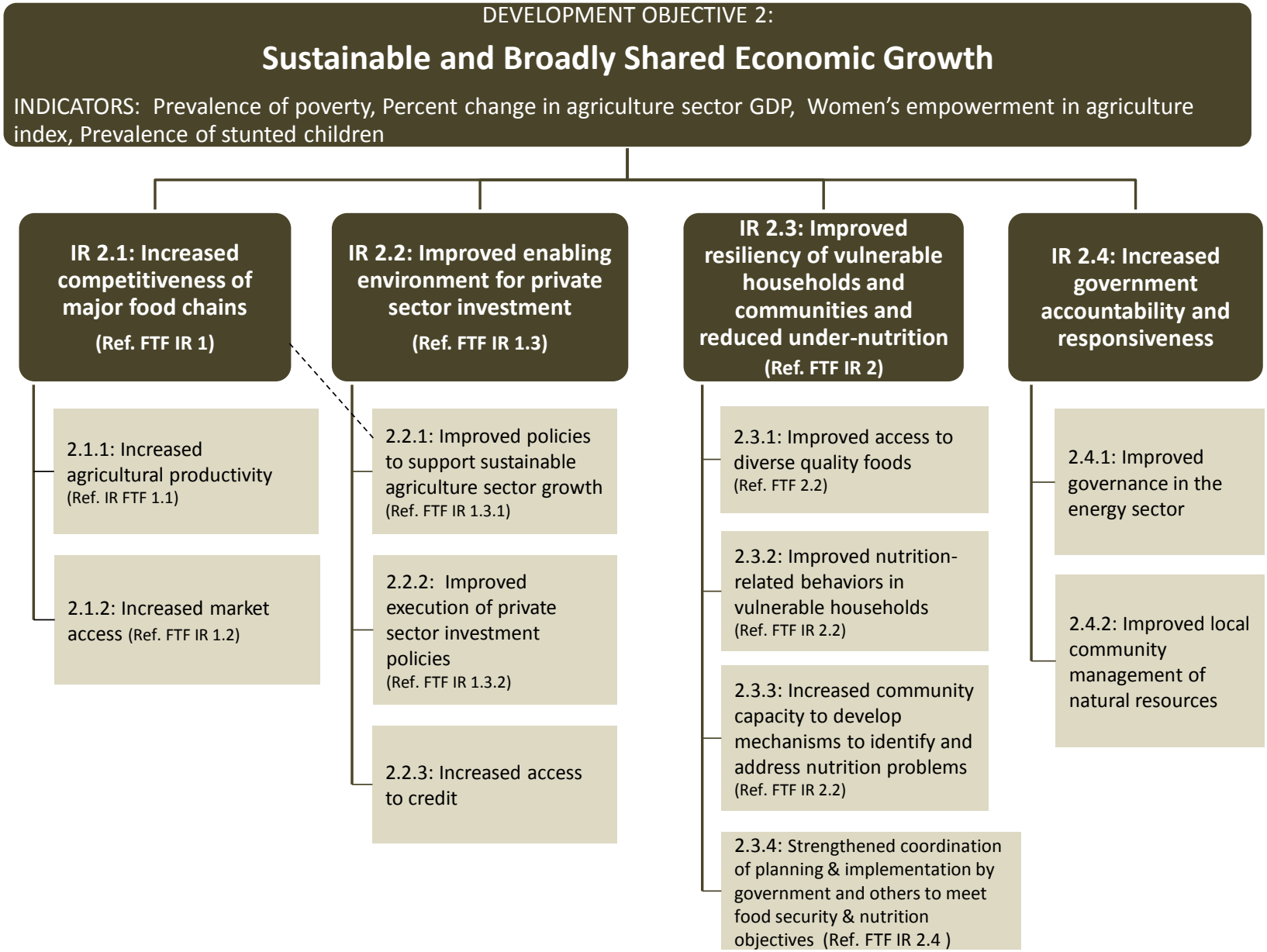



**Figure 2: USAID/Ghana EG Office Development Objective (DO 2) Results Framework**

development related priorities and strategies. The expected results from these investments are depicted in the framework presented in Figure 1.

The majority of USAID/Ghana's Development Objective 2 (DO2) activities support Mission's Feed the Future (FTF) Strategy. Eighty (80) percent of agriculture resources are targeted in the three Northern Regions of Ghana and the parts of Brong-Ahafo Region above the 8th parallel, focusing on rice, maize, and soya. FTF also focuses on the coastal zone to improve management and governance of marine fisheries.

The hypothesis for DO 2 is that, if agricultural productivity and nutrition practices are improved, and if environmental services are maintained, reliable electricity supply is improved, local governance of resources is ensured, and the business policy environment is enhanced, then local populations will be more food secure, with improved nutrition, and play a larger role in an expanding economy. DO2 is associated with four integrated Intermediate results which are presented in Figure 2. Among other FTF performance indicators adopted for reporting DO2 result, eleven of the indicators required population-based data. The PBS was, thus, designed and implemented to obtained baseline data for the eleven performance indicators, requiring population-based data.

## 4 Resources for Implementing the Survey

The METSS partnership comprising USDA, KSU and UCC provided technical leadership by coordinating assigned actions of baseline stakeholders and building the capacity of partner organizations. The primary stakeholders included USAID/Ghana, the Government of Ghana, through the University of Ghana and the Ghana Statistical Service (GSS), and FTF implementing partners (IPs). The University of Ghana's Institute of Statistical, Social and Economic Research (ISSER) was the main partner organization assisting with the implementation of the PBS. GSS supported ISSER in drawing up the sample of the EAs and households as well as providing anthropometric equipment and facilitators who trained enumerators and supervisors in the use of the devices. To draw the second stage sample for the PBS, GSS was supported by METSS to conduct household listing in 230 EAs in the ZOI.

### 4.1 Personnel Arrangements

A matrix of personnel required to complete the survey is presented in Table 3 below. The METSS-Ghana staff produced the survey protocol, modified the original FtF baseline questionnaire to suit Ghanaian conditions, designed electronic information collection tools, and data management systems, with some support from ISSER. METSS also managed the processes for addressing ethical concerns, including reviews by the KSU Ethics Board. GSS collaborated with METSS to develop the sample frame while ISSER led all field operations which included the management of logistic, training of field supervisors and enumerators and data collection.

METSS procured all equipment used for capturing data, through the effort of Kansas State University. METSS and ISSER paired technical experts to facilitate information transfer from enumerator laptops to supervisor field laptops and eventual transfer to servers at METSS-Ghana and KSU. ISSER was mandated to submit a clean dataset of the survey as well as data dictionary to METSS as part of its deliverables. METSS and ISSER worked together on the initial description of data.

**Table 3: Population-Based Survey Personnel**

| Personnel | Source |
|---|---|
| Project Overall Baseline Survey Coordinator | METSS: Patrick Fosu- Siaw |
| ISSER Project Director and Technical Head | ISSER: Professor Clement Ahiadeke |
| Sampling Expert | ISSER: Dr. Isaac Osei-Akoto |
| Technical Advisor | BFS: Anne Swindale |
| Project/Survey Coordinator | ISSER: Dr. Isaac Osei-Akoto |
| Information Systems Experts | ISSER & METSS: Frank Octhere and James Asafo-Adjei |
| Questionnaire Production | METSS: Saaka Adams |
| GIS Expert | METSS: Jenifer Asiedu-Dartey |
| Management of Logistician | ISSER & METSS |
| Field Supervisor Coordinator and Data Analyst | ISSER: Clement Adamba |
| Field Coordinator and Data Analyst | ISSER: Frank Octhere |
| Recruitment of Enumerators | ISSER & METSS |
| Data Analyst | ISSER & METSS (KSU) |

A total of seventy (70) interviewers and fifteen (15) supervisors were recruited and trained for the exercise. Sixty out of the 70 trained interviewers were engaged for the assignment. This practice ensured acceptable level of seriousness on the part of trainees who would want to be selected for the assignment. ISSER's pool of fieldworkers comprised mainly of individuals with tertiary level education who were computer literate and able to work effectively with the laptops. This notwithstanding, all prospective fieldworkers were examined for computer literacy and competence.

## 4.2 Equipment

To ensure the suitability of the laptop for its data capturing purposes, a sample Dell laptop was purchased by KSU through a standing procurement arrangement with Dell. The sample laptop was test-ran by the IT Unit of KSU and forwarded to METSS and ISSER for similar assessments. After successful test-runs by ISSER, its Director signed a statement to confirm the acceptance of the specifications and suitability of the Dell laptop for the planned survey. Hence, arrangements were made to purchase the bulk of 90 laptops earmarked for the PBS.

Anthropometric equipment including digital standing scales for children and adult, portable stadiometer (height measures) for children and adult as well as portable measuring boards for children were acquired from the Ghana Statistical Service. The acting Government Statistician responded to a formal request from the USAID/Ghana Mission Director asking for the devices to be used for the PBS on loan.

**Table 4: List of Items Earmarked for Survey**

| Description of Item | Units Needed | Notes |
|---|---|---|
| Trimble Juno SBs | 60 | Spatial referencing |
| Second External Spare Batteries | 60 | Power |
| Trimble Battery Charger | 50 | Power |
| External Storage device: Buffalo LinkStation Pro Quad 12TB RAID NAS Network Hard Drive | 2 | Data transfer/storage/back up |
| Digital Standing Scale - Child & Adult (Seca 876)(weight measures) | 60 | Anthropometry |
| Adult portable Stadiometer (Height measures) | 60 | Anthropometry |
| Pair AA Duracel batteries (for scale) | 100 Pairs | Anthropometry |
| Portable Measuring boards for children | 60 | Anthropometry |
| DELL Laptops (and mouse) for data collection | 90 | Data Entry for Questionnaire |
| Spare batteries for DELL Laptops | 60 | Additional power source |
| Power Strip | 45 | To withstand power surges |
| External CD Rom for installation of software on laptop | 2 | Data collection |
| Field Audio recorder | 2 | Documentation' |
| Microsoft Project Software - Management of entire PBS activities | 1 | Administrative Copy |

Table 4 provides a list of electronic devices used for the survey as a measure for ensuring adequate precision. Enumerators used laptops, Global Positioning System (GPS) devices (Trimble Juno SBs), Seca digital scales and Shorr height measurement tools to administer the household questionnaires.

#### 4.2.1 Ensuring adequate care for the equipment

Each fieldworker was made to sign a statement of commitment for the proper use and care of the equipment and be responsible[2] for any failures arising out of negligence on the part of the fieldworker. This statement of commitment defined all the necessary procedures for backing-up and transferring data, as well as providing guidance for proper maintenance of the equipment.

In addition to this, all slots on the laptop that allow for the use of personal CDs, flash drives and internet access were blocked to avoid unauthorized use of the laptops that may introduce viruses into the system. The introduction of viruses could contaminate data to be collected from the field.

# 5 Survey Design

Table 5 provides a summary of actions required for the successful completion of the proposed survey. Their corresponding inputs and expected outputs are also listed in the table. Some of these actions are discussed in this section of the protocol while others are covered in subsequent sections. The collection of data was scheduled for June and July 2012. The fieldwork was planned to be undertaken by experienced supervisors and enumerators with vast experience in conducting national surveys using all the key languages of the regions under study.

Data processing, analysis and report writing were originally planned to start from August 2012 through October 2012 as noted in Table 5 below which is a listing of all the major planned activities milestones and timing of these activities. However, delays in the field and in data processing resulted in late submission of the various reports.

## 5.1 The Sample Frame

This study addresses part of USAID/Washington's reporting requirements on a subset of key FTF indicators and relates to the objective of the PBS. The collected data would represent the effective ZOI as a whole and the two strata being considered within the zone for the key FTF indicators corresponding to the results in Figure 2 above. One stratum represents areas within the ZOI with RING nutrition/agriculture activities, including some ADVANCE agriculture activities, while the other represents areas with only agricultural activities (no nutrition activities). The broadly defined ZOI for Ghana contains the three northernmost regions: Upper West, Upper East, and Northern Regions, plus a number of areas in the Brong-Ahafo Region which are above the 8th degree parallel. For purposes of the baseline PBS, a sample frame was constructed of Enumeration Areas (EAs) in the FTF Ghana

[2] If it is established that any irreparable damage caused to equipment is deliberate, the cost of equipment will be deduced from the allowances of the field enumerator.

"effective" zone of influence (i.e. including areas within the broadly defined ZOI where FTF is implementing activities and where there is a reasonable expectation of impacts and excluding ZOI areas where FTF is not investing and where impacts are unlikely), and a random sample is taken from those EAs. The PBS data will be compared with mid-term (possibly) and final survey data to monitor progress of FTF Ghana's population-based outcome and impact indicators. This sample frame of EAs is referred to as the "ZOI" for this PBS.

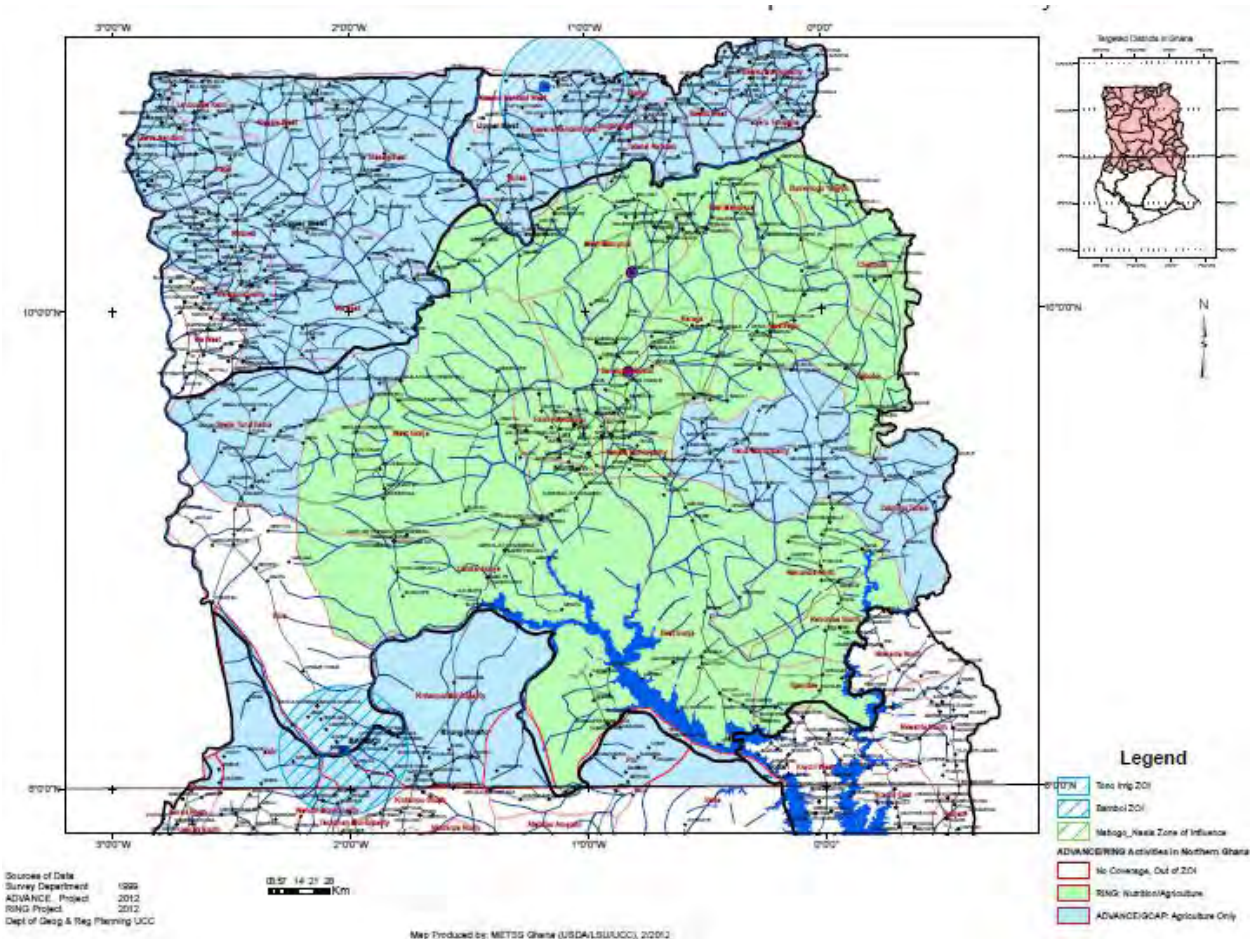
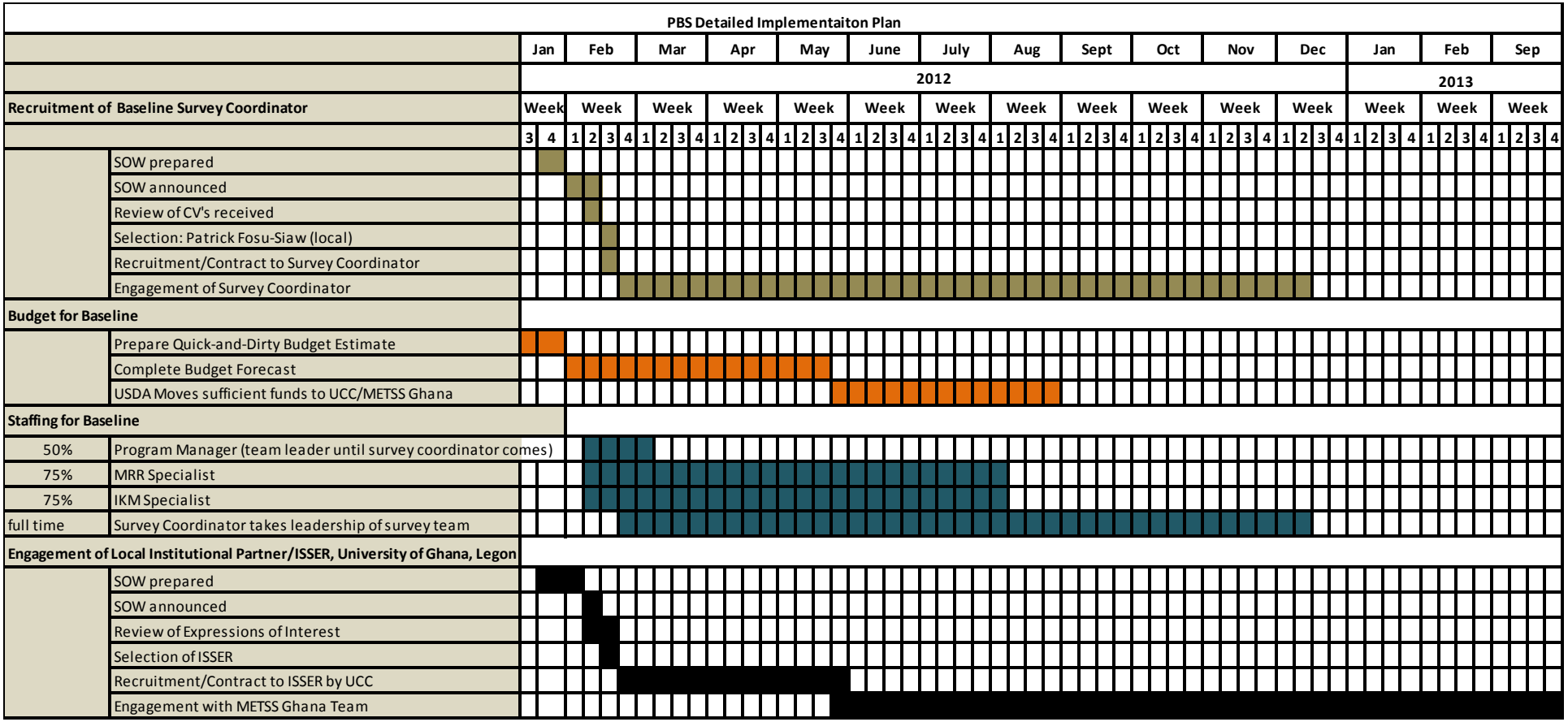
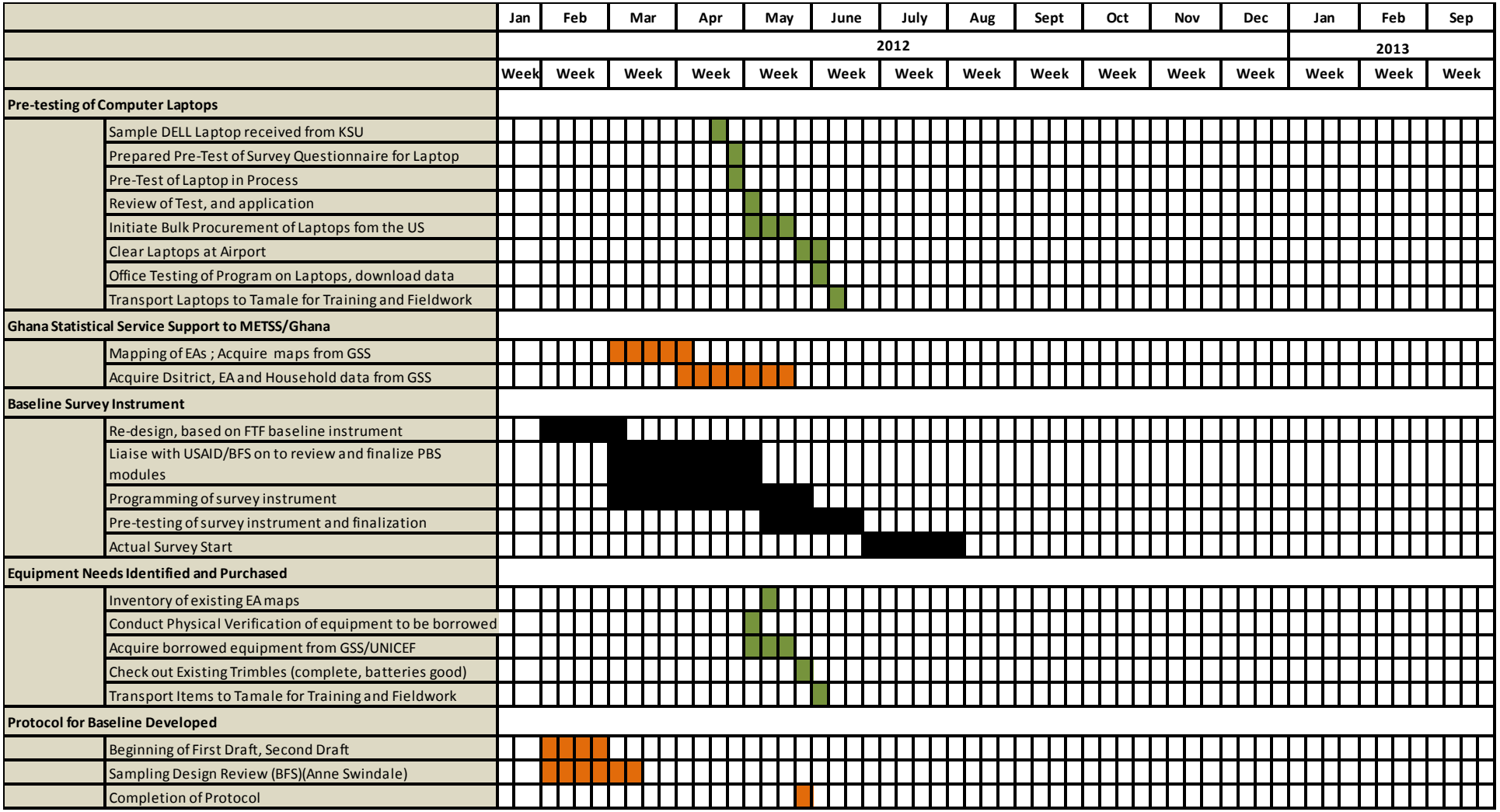
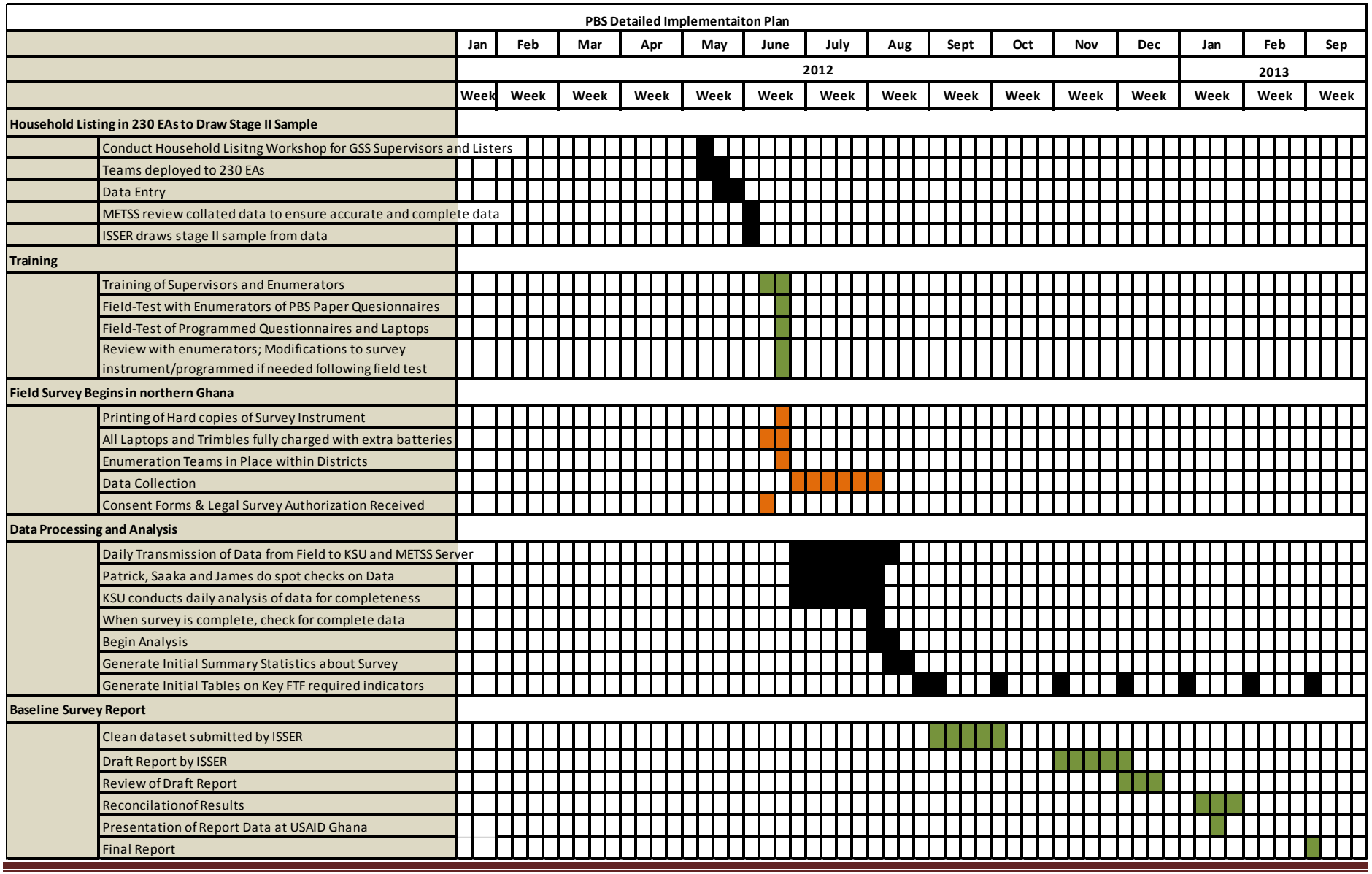



**Figure 3: Map of Northern Ghana, Depicting the Zone of Influence by FTF Intervention**

## Table 5: Summary of Survey Processes




Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
Jan
Feb
Sep
2012
2013
Week
Pre-testing of Computer Laptops
Sample DELL Laptop received from KSU
Prepared Pre-Test of Survey Questionnaire for Laptop
Pre-Test of Laptop in Process
Review of Test, and application
Initiate Bulk Procurement of Laptops fom the US
Clear Laptops at Airport
Office Testing of Program on Laptops, download data
Transport Laptops to Tamale for Training and Fieldwork
Ghana Statistical Service Support to METSS/Ghana
Mapping of EAs ; Acquire maps from GSS
Acquire Dsitrict, EA and Household data from GSS
Baseline Survey Instrument
Re-design, based on FTF baseline instrument
Liaise with USAID/BFS on to review and finalize PBS modules
Programming of survey instrument
Pre-testing of survey instrument and finalization
Actual Survey Start
Equipment Needs Identified and Purchased
Inventory of existing EA maps
Conduct Physical Verification of equipment to be borrowed
Acquire borrowed equipment from GSS/UNICEF
Check out Existing Trimbles (complete, batteries good)
Transport Items to Tamale for Training and Fieldwork
Protocol for Baseline Developed
Beginning of First Draft, Second Draft
Sampling Design Review (BFS)(Anne Swindale)
Completion of Protocol


PBS Detailed Implementaiton Plan
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
Jan
Feb
Sep
2012
2013
Week
Household Listing in 230 EAs to Draw Stage II Sample
Conduct Household Lisitng Workshop for GSS Supervisors and Listers
Teams deployed to 230 EAs
Data Entry
METSS review collated data to ensure accurate and complete data
ISSER draws stage II sample from data
Training
Training of Supervisors and Enumerators
Field-Test with Enumerators of PBS Paper Quesionnaires
Field-Test of Programmed Questionnaires and Laptops
Review with enumerators; Modifications to survey instrument/programmed if needed following field test
Field Survey Begins in northern Ghana
Printing of Hard copies of Survey Instrument
All Laptops and Trimbles fully charged with extra batteries
Enumeration Teams in Place within Districts
Data Collection
Consent Forms & Legal Survey Authorization Received
Data Processing and Analysis
Daily Transmission of Data from Field to KSU and METSS Server
Patrick, Saaka and James do spot checks on Data
KSU conducts daily analysis of data for completeness
When survey is complete, check for complete data
Begin Analysis
Generate Initial Summary Statistics about Survey
Generate Initial Tables on Key FTF required indicators
Baseline Survey Report
Clean dataset submitted by ISSER
Draft Report by ISSER
Review of Draft Report
Reconcilationof Results
Presentation of Report Data at USAID Ghana
Final Report

ADVANCE, which uses a nucleus farmer with outgrower farmers' model, had a very good indication of where new outgrowers would be located, and a pretty good idea of surrounding communities where the outgrower farmers would likely be located. To identify the ZOI for ADVANCE, the implementing partner took the list of census EA base localities (EABLs) in non-RING districts (because RING districts were included in their entirety as described in the next paragraph), and linked communities of their beneficiaries to the corresponding EABLs, then included in the sample frame all of the EAs associated with each EABL. All associated EAs were taken because it was assumed that there would be some spread effects/indirect benefits in terms of impacts on employment, mainly, and that these spread effects would manifest largely in the same or close by areas.

The RING projects which were still being designed were quite different in terms of the geography of their intervention areas. RING had been planned to work with District Assemblies, and, within districts, in sub-district areas called Area Councils (ACs), in a fairly large proportion of ACs within many of the districts. The ACs were not that well defined geographically, and no centralized source of AC boundaries was available. ACs in a number of districts were randomized into treatment and control arms for the impact evaluation. Given these facts, all 15 targeted districts, in their entirety, were included in the sample frame.

G-CAP was intended to support private sector investors in large commercial agricultural schemes, building or improving irrigation and market infrastructure and supporting large nucleus and outgrower farmer schemes. The project intervention areas would be determined by the proposals they receive from potential investors and which ones they decide to fund. At the time the effective ZOI was being determined, the program managers had a good idea of where the first two investments schemes might take place because they were motivated by findings from feasibility studies conducted earlier by an investment group. There was also a list of high potential valleys for GCAP intervention. USAID staff mapped the likely area of influence/catchment areas of the two investment schemes and the two highest potential valleys, which was then overlaid on a GIS map of EABLs. All the EAs associated with those EABLs were included as part of the ZOI. Finally, it was assumed that future value-chain technical assistance and finance projects would continue to work in ADVANCE project areas.

## 5.2 Sampling

A critical component of the 2012 PBS is the measurement of poverty prevalence, and stunting and underweight for children less than five years in the effective ZOI in northern Ghana. Two strata were identified ("agriculture-nutrition intervention area – Strata I" and "agriculture only intervention area – Strata II") in the ZOI. Therefore the sample was designed to ensure an

adequate number of respondents for these indicators in the two strata. In addition, the sample was designed to meet the following requirements:

1. Control the overall cost according to available funds; and
2. Ensure that the survey implementing organization will be able to handle a large sample while maintaining the quality of data.

The sample would provide nutritional indicators among women aged 15-49 and children under five years of age in the entire ZOI and further disaggregate for the two strata as defined by the project.

### 5.2.1 Estimation of the Sample Size

The sample size calculation was designed to measure changes between the baseline and end-line results of the designing indicators (prevalence of poverty, stunting and underweight) with sufficient significance and power. The design anticipated a one percentage point reduction per year in the prevalence of poverty (or a 5 percentage point drop in poverty at the end of 5 years of the FTF program) and a 1.32 percentage point reduction per year for the ZOI for the child under five stunting rates (or a 6.6 percentage point drop in stunting after 5 years of the FTF program). The equivalent percentage point reduction for underweight is 0.86 per year or 4.3 for 5 years. Table 6 shows the current estimates of the design indicators and the expected figures at the end-line after the program implementation.

**Table 6: Current Estimates and Expected End-Line Figures for Design**

| Indicator Definition | Poverty | Stunting | Underweight |
|---|---|---|---|
| Proportion at baseline | 56.7 % | 32.2% | 21.9% |
| Proportion at end-line | 51.7% | 25.6 % | 17.6% |

The appropriate computational formula used in determining the required sample size is given by:

$$n = \left\{ \left[ \frac{(p_1 q_1) + (p_2 q_2)}{(p_2 - p_1)^2} \right] \times \left( Z_{1-\alpha} + Z_{1-\beta} \right)^2 \right\} \times Deff \qquad (1)$$

where

α is 5%, type I error;

β is 80%, type II error;

p1 and p2 are the prevalence of the indicators at start and end of the intervention respectively for each designing indicator (q1 = 1-p1; q2=1-p2); and

*Deff* is the design effect for the selected sampling design.

Using the data from the Ghana Living Standards Surveys, Rounds 3 through 5, and the Ghana Demographic and Health Survey of 2008 (GHDS, 2008), figures presented in Table 7 were derived as inputs for the formula (Equation 1) for the three designing indicators. The estimated nominal sample sizes and the effective sample sizes after adjusting for non-response and/or inflation for the absence of children in the household are also provided in the table.

**Table 7: Sample Size Computation based on the Three Design Indicators**

| Design indicators | p1 | p2 | α | 1-β | Z1-α | Z1-β | DEFF | n | Inflated for no child in HH (n') | Inflated for non-response (10% of n') | Effective n |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Prevalence of poverty (based on GLSS3,4&5) | 0.567 | 0.517 | 0.050 | 0.800 | 1.645 | 0.842 | 3.40 | 4164 | 0 | 416 | 4580 |
| Prevalence of stunting (GDHS 2008) | 0.322 | 0.256 | 0.050 | 0.800 | 1.645 | 0.842 | 1.21 | 702 | 1140 | 114 | 1254 |
| Prevalence of underweight (GDHS 2008) | 0.219 | 0.176 | 0.050 | 0.800 | 1.645 | 0.842 | 1.25 | 1321 | 2144 | 214 | 2358 |

From Table 7, three possible sample sizes were derived: 4580 was determined if the poverty indicator is used, 1254 was established if the stunting indicator is used, and 2358 was derived if the underweight indicator was used. For the purpose of the survey, significant difference in impacts on poverty between the two strata was not being hypothesized. It was anticipated that the ZOI level estimates for the nutritional status indicators would be diluted by the inclusion of areas where no nutrition activities would be implemented. This would not present a good indication of the impact of the nutrition intervention. Thus the stratification of the ZOI as described above was important to provide a true reflection of impact. Since the required sample size for the poverty indicator was the maximum of the three, 4580 was taken as the appropriate sample size for the entire ZOI and this would be sufficient for estimating the poverty indicator across the two strata. Furthermore, since the underweight indicator gave a larger sample size than the stunting indicator, it was prudent to obtain a sample size of at least, 2358 within Stratum I and this could cater for the estimation of the stunting indicator with sufficient power (0.8) and significance (0.05).

Based on the foregoing, an effective sample size of 4580 is considered; this is rounded up to 4600 to give further cushion for the likelihood of non-response, or to further boost the power if the sample size was achieved. This sample size was allocated to the two strata as shown in Table 8.

The usual practice for living standards and general household surveys in Ghana is a selection of either 15 or 20 households per enumeration area (EA). EAs in Ghana tend to be very

homogeneous with respect to many key characteristics and therefore taking a larger sample within an EA would not add much information. Selection of 15 households per EA tends to be more expensive as one has to cover many geographical areas. Therefore, based on cost considerations 20 households were interviewed in each EA, giving a total of 230 EAs across the ZOI. The differential probabilities of selection were accounted for at the analysis stage through appropriate weighting.

**Table 8: Allocation of Sample to Strata**

| Strata | Allocated households | Required EAs |
|---|---|---|
| Strata I | 2360 | 118 |
| Strata II | 2240 | 112 |
| Total (ZOI) | 4600 | 230 |

Discussions between ISSER and USAID/Washington PBS support team confirmed that the DEFF design effect had to be used in the sample size formula provided in the FTF PBS guidance, not the smaller DEFT (squared root of DEFF).

The DEFF estimates for the poverty indicator were calculated from the Ghana Living Standards Survey Round 5 (GLSS V) data. Table 9 shows the computed DEFF figures for each of the three regions. The DEFF figures range from 3.4047 for the Upper West Region to 15.9190 for the Northern region. These DEFF figures indicated that using a DEFF of 2 as would be suggested by rule of thumb was an underestimate. At the same time, a DEFF of 5.2604 or 15.9190 was going to lead to extremely large sample sizes beyond financial and practical considerations. Therefore, the decision was to choose a DEFF of 3.40 for the estimation of the sample size for the poverty indicator.

In addition to cost and logistical considerations, justification for not using NR DEFF was premised on USAID's plans to conduct impact evaluation in the RING districts of the Northern Region, which would result in more rigorous data and provide an opportunity for showing changes in poverty in the NR. Additionally, based on historical trends of poverty reduction in northern Ghana, the targeted change of one percentage point per year used in sample calculation was conservative, resulting in a larger sample size and provided an additional margin of safety.

**Table 9: Computation of DEFF Figures for Poverty Indicator**

| Region | Proportion poor | DEFF |
|---|---|---|
| Northern | 0.5847 | 15.9190 |
| Upper East | 0.7373 | 5.2604 |

| | | |
|---|---|---|
| Upper West | 0.9052 | 3.4047 |

### 5.2.2 Selection of survey sample

The 2012 PBS employed a two-staged probability sampling methodology. Two hundred and thirty (230) EAs were selected during stage one from all the EAs within the ZOI based on the Ghana 2010 Census data. The total number of EAs was premised on the sample size determined for this survey, which is 4,600 households and the decision to conduct interviews in 20 households from each EA in accordance with ISSER's practice. The EAs were selected using the probability proportional to size (PPS) method.

Ghana had a recent (2010) census, and GSS drew the first stage PPS cluster sample, based on accurate data from the current population in each EA in the sample frame. Due to the inability of GSS to provide METSS with lists of households in each EA, with location and household head name, METSS conducted on-the-ground mapping and comprehensive listing of households in the EAs that fell into the cluster sample. These efforts were supported by GSS and enabled ISSER to draw the second stage household sample. ISSER systematically select households from among those listed in each selected EA.

### 5.2.3 Sampling weights and data analyses

The sampling design described above is not self-weighting since households would invariably be selected with unequal probabilities in the second stage of sampling. Additionally, it was usual to expect that the response rate would vary across EAs. As a result, tabulations involving an adjustment factor or a sampling weight were employed to account for differences in selection probability and number of complete interviews in any EA. The required information for computing the weights was documented at the EA and household selection stage. The response rate was to be determined after the survey.

## 5.3 The Survey Instrument

Copies of the survey instruments for a proposed two phases of interviews are presented in Appendix D. The instruments are structured into two time regimes, namely Visit I and Visit II. Visit I is composed of 10 thematic sections including Module 1: Household Identification Data, while Visit II is made up of Module 11: Household Consumption Expenditure.

The FTF standard instrument was adapted to Ghana's context using Ghana's Living Standard Measurement Survey (GLSS) and Demographic and Health (GDHS) instruments and was used to collect data for the FTF poverty, expenditure, women's empowerment in agriculture, household

hunger, dietary and anthropometric indicators This was to ensure that FTF ZOI data generated would be comparable to national data.

Since the zone of influence level agricultural data were not required for any FTF required indicator (all FTF farm-level agriculture indicators are reported by implementing partners for direct beneficiaries only), a decision was made with support from USAID to not collect yield data in the scheduled PBS. This decision was based on the fact that collection of production and, especially, area data would complicate the survey and significantly decrease the number of households that could be interviewed per enumerator per day, because all maize, rice, and soybean fields would need to be physically measured. This would either lengthen the time in the field, or greatly increase the number of enumerators required, with negative consequences for supervision and data quality. Moreover, there were other potential sources of yield data.

Given the challenges involved in standardizing translation of the final instrument into the multiple languages used in the north, some of which were not written and the difficulty to find enumerators who could read some of the languages even if written, the survey instrument was written in English. Standardization was done in working groups at the enumerator training and pretest of the questionnaires which led to an increase in the time originally allocated for the exercise.

### 5.4 Training of Survey Personnel

The 70 interviewers and 15 supervisors underwent the training but only 60 interviewers ended up in the field. However, the entire field team was trained so that they would all have adequate knowledge about the project background and objectives and be familiar with the survey instruments. This ensured that potential problems were identified early and dealt with before the fieldwork began. A 10-day long training session for interviewers and supervisors was conducted to enable enumerators and supervisors successfully accomplish their work with the survey instrument.

The importance of adequate training before the survey could not be overemphasized; it was the only means for ensuring that each survey team member correctly and uniformly followed survey procedures. The first three days of the training was devoted to taking fieldworkers through the paper version of the survey instrument to ensure their understanding. Standardization of translations in working groups took place during this period. A pre-test of the paper questionnaire was conducted on the fourth day to be followed by a de-briefing and discussion section on the fifth day to ensure that all outstanding issues with the questionnaire could be resolved.

The fieldworkers then switched to the use of the computer-based instrument on the sixth and seventh days of the training after which a computer-based pre-test was conducted on the eighth day. The ninth day was used for debriefing on the computer based pre-test and the tenth day was used for the finalization of teams, allocation of tasks and departure. A detailed training programme was developed once the questionnaires were finalized.

The training offered the opportunity for the supervisors, enumerators and the ISSER survey team to review the questions and agree on how best questions could be expressed to eliminate any ambiguity.

### 5.5 Pre-Testing and Pilot Testing Questionnaire, Tools and Processes

METSS and ISSER pre-tested the survey instruments and data collection processes in May 2012. METSS worked with ISSER to adapt the electronic and paper versions of the survey instruments based on findings from the pre-test. The pre-test was conducted by ISSER, with an oversight role from METSS. Pilot test was conducted by enumerators during training, supervised by ISSER staff in order to test all field instruments and logistics.

### 5.6 Reconnaissance Visit and Recruitment of Enumerators and Supervisors

A reconnaissance visit to the ZOI areas was conducted by ISSER in efforts to familiarize with the conditions within communities from sampled communities. ISSER took advantage of the visit to identify and recruit qualified enumerators and supervisors for the PBS. Demonstrated skills in computer literacy, seasoned experience in conducting fieldwork and proficiency in the main languages spoken in the ZOI were the primary determinants for selection.

## 6 Implementation of field data collection

The implementation schedule which is incorporated into Table 5 guided a timely execution and completion of tasks designed for the survey. It is, however, noted that keeping to this schedule depended on mutual cooperation between METSS and ISSER, and timely delivery of input of all the relevant stakeholders who have a role to play in the assignment. In particular, the schedule is predicated on the effective date of the contract signed by ISSER.

The fieldworks were implemented in teams of five (5) members with each comprising of four (4) interviewers working under a supervisor. Each team had sub-teams of two interviewers interviewing each household for the child anthropometry and Women Empowerment in Agriculture Index modules. Afterwards, the sub-teams would break up and administer the other modules requiring individual respondents. The supervisors was responsible for coordination of the activities of their team, including the assignment of households to the interviewers,

reviewing of completed household data files, doing call-backs on some selected households and compiling and sending of completed data files for their domains of work.

Data was collected by a team of enumerators, one team per region, using electronic data capture devices. Each team was managed by the ISSER Statistician assisted by field supervisors. The ISSER survey team trained field enumerators, supervisors, Quality Control team, Data entry clerks and editors. After identifying willing and available households to interview, data collectors read and obtained informed consent from the respondents. A signed copy of the informed consent form was left with the household with a telephone number they could call with follow-up questions or concerns.

Because of the length of the survey instruments (11 modules in all), modules 1-10 was initially administered by an enumerator, and follow-up with a second visit during when the same data entry device was used to administer module 11. During the first visit, all households responded to the household demographic and consumption patterns questions. Households with women between 15 and 49 years of age were asked questions about women's consumption and measured for height and weight. Where children less than five years old were present, data collectors took their height and weight measurements. If any children under two years of age reside in the household, the caretakers were asked questions about their children's consumption patterns (minimum adequate diet for children 6-23 months and exclusive breastfeeding for children 0-5 months). Visit 1 involved the administration of the first ten modules listed in Table 10.

During the second visit, household consumption expenditure data will be collected. This is a long interview, and is expected to take much time. The administration of the Module 11 (Household Consumption Patterns) instrument is to engender easy and accurate recall by respondents of expenditures on food and other household items. Lengthy and detailed solicitation of responses has been evidenced to result in respondent fatigue, eventually affecting accurate data recall.

The types of respondent required within each household for each module are summarized in Table 10. After the household listing had been completed, the names, gender and ages of the household members will be automatically populated in subsequent questions. Enumerators would not need to refer back to already entered data, neither were they required to make decisions on which questions needed to be asked of which household members. Enumerators were asked to confirm data such as the ages of women and children before taking anthropometric measurements.

**Table 100: Targeted Respondents for the Various Modules of the PBS Instruments**

| Respondent Type | Questionnaire Section Title |
|---|---|
| Module 1 – PRIMARY RESPONDENT | Household Identification Data and Preliminary Qualifications |
| Module 1B – PRIMARY RESPONDENT AND ALL OTHER RESPONDENTS | Informed Consent |
| Module 2 – PRIMARY RESPONDENT | Household Demographic Information |
| Module 3 – FOOD PREPARER | Food Security (HH Hunger Scale) |
| Module 4 – WOMEN 15-49 | Women's Dietary Diversity |
| Modules 5 & 6 – WOMEN 15-49 AND CHILDREN under 2 | Breastfeeding and Minimum adequate diet |
| Module 7 – HOUSEHOLD WOMEN (15-49 years) | Women's Anthropometry |
| Module 8 - HOUSEHOLD CAREGIVERS (children >5) | Children's Anthropometry |
| Module 9-P – PRIMARY/SECONDARY RESPONDENT | Dwelling Characteristics |
| Module 10 – PRIMARY FEMALE ADULT DECISION MAKER AND PRIMARY MALE ADULT DECISION MAKER | Women's Empowerment in Agriculture Index (WEIA) |
| Module 11 – FOOD PREPARER | Consumption expenditure |

### 6.1 Proposed Interventions during Data Collection

World Health Organization (WHO) child growth standards were programmed into the devices. Children were flagged if their weight-for-height <-3 z-score. They were referred to the nearest health facility by the enumerator for treatment, because they are the only children who were severely acutely malnourished and at risk of death. International standards of adult body mass index (BMI) were programmed into the electronic data collection device.

## 7 Strategies for Ensuring Data Quality

The strategy for Data Quality Control for the PBS involved a two-pronged approach, namely, Ex-Ante and Ex-Post procedures. The Ex-Ante strategy included logical strings and conditional clauses built into the programmed PBS software that ensured that appropriate responses were

captured by enumerators in the field. As a quality control measure, the software rejected responses that were not appropriate in specific contexts and prompt enumerators to key in the acceptable data. The Ex-Post strategy included broad discussions across teams, focusing on issues that emerged in the first days of fieldwork and coming up with concerted and well communicated solutions to the teams. This strategy was a continuous process involving supervisors and their teams throughout the fieldwork phase of the PBS.

Training field supervisors and enumerators were the first quality control measure. All PBS personnel were expected to learn and practice standard household selection, interviewing, data entry, measurement techniques. Secondly, field supervisors accompanied enumerators to households to ensure that they engaged respondents appropriately and recording data accurately. Among the field supervisors were METSS Monitoring and Evaluation (M&E) staff who had a stronger historical understanding of the FTF program data needs and were readily available to respond to issues as they arose. METSS and ISSER senior staff conducted spot checks of enumerators and field supervisors to ensure that data were properly collected, recorded and stored.

Field supervisors did not have the opportunity to change any data they review. They would flag the data and enumerators would need to update them per their recollection (e.g. transposed numbers for age of a child) or through a follow-up household visit.

In support of the above, procedures were put in place to ensure data are analyzed to support in-field data verification. After each day's enumeration, data was transferred to servers at KSU and METSS primarily for backup purposes but also to identify outliers and systematic errors in data collected. After data was screened, a report was generated for remedial action in the field, before each team departs for the next EA. KSU's IT department developed a program which generated the report after data screening, with identified problematic questions flagged for follow-ups.

To complement the data quality procedures aforementioned, ISSER ensured that at the start of the actual field work, the first five (5) interviews completed by each field worker was thoroughly reviewed by a supervisor. This was subsequently reviewed by the Field Coordinator and the ISSER team. In addition to this, there was constant and random back-checking to make sure that the quality of the data was not compromised in any way.

### 7.1 Follow-up procedure

A minimum of 10% of all interviews conducted by each interviewer was scrutinized by the supervisor. This involved returning to a respondent who would have been interviewed in order to re-interview and verify key points of the questionnaires, and to check that the selection techniques had been correctly applied. If the supervisor was unable to gain the cooperation of a

selected individual, the case was referred to the ISSER Survey Team representative who would take steps to convert such cases to completed interviews.

### 7.2 Monitoring of fieldwork

Interviewers were informed during training that their work would be monitored. Throughout the data collection period there was monitoring of the interviewers' work by the interviewer supervisors. During the actual field days the work of both interviewers and supervisors were carefully scrutinized by the survey team.

## 8 Data Management

At the end of each day, field supervisors would download entries made by enumerators on their laptop computers to a database. Field supervisors created a back-up copy of the data on an external drive. On a daily basis, team supervisors would ensure that questionnaires were complete and accurate, meeting basic data quality standards. They would also review a portable document format (PDF) of the questionnaire where they could mark any discrepancies found and discuss their findings with enumerators before sending the data to the head field supervisor. The head field supervisor would send the verified database, daily using an encrypted email attachment, to the METSS offices in Accra and KSU. METSS cleaned the data as they were presented to them and flag any discrepancies not caught by the field supervisors for follow-up. A clean database was expected to be available for analysis approximately one week after the end of each data collection period.

The laptops were not wireless enabled. Data collectors did not have the ability to send any data over the internet themselves. All files were kept under password protection for safety. The IT Unit at KSU had developed a patch to the data entry software that ensures that backups of daily entries are made on to virtual servers located at KSU. The backups were relevant in case of data loss in the field.

## 9 Procedures to Ensure Ethical Considerations

Ethical approval for the conduct of the PBS was provided by KSU. Field supervisors and enumerators were trained on ethical considerations. All respondent households were read and receive a copy of the informed consent forms for the general household questionnaire and before gathering height and weight data. Data files were password protected and shared only between the enumerators and their field supervisors. Data passing over the internet as email attachments were encrypted.

The METSS Program Specialist for Information and Knowledge Management provided a password for protecting the database files. The identifying of the respondents was not included in the database available for outside use by IPs or to data analysts.

Overall, METSS ensured protection of the confidentiality of the household and respondents from the data collection phase through data analysis to report writing. At the data collection phase, household member names and geo-location were obtained in order to administer the various modules in the PBS tools. Efforts were expended by enumerators to ensuring that data files were carefully handled and did not fall into the hands of third parties. Laptops used for data collection, as well as pen drives used for data transfer by enumerators were cleaned of the datasets, when the PBS ended. In instances, where paper questionnaires were used as supplements to the electronic version, such instruments were destroyed in order to protect the confidentiality of the household and respondents.

Before data was analyzed and reported to meet the objectives of the PBS, the names of respondents and all socio-demographic references were delinked from the rest of the data. Records from the field could only be referenced through unique IDs. These IDs could not be traced to specific respondents and households.

Agreement with ISSER ensured that datasets which contain the specific references to respondents and their households were disclosed to third parties. See Appendix C for a sample of the Consent Form.

# 10 Potential Problems and Mitigation Measures

Based on observations made during earlier studies in parts of the ZOI, the following challenges were anticipated:

✓ Inadequate power for electronic devices

✓ Internet outages

✓ Electronic data capture tools might not arrive in time for a timely testing, training and data collection

## 10.1 Inadequate Power for Electronic Devices

Recharging electronic survey capture devices were expected to become an issue. To deal with this there was an initial plan to procured independent power sources, including a solar backpack for recharging batteries. In the case of total power failure, paper survey forms would be used as back-up. Supervisors and enumerators were trained on the use of powering devices

as well as using paper forms in case electronic devices are non-functional due to power outages. Paper forms would ensure that data collection time was not lost if electronic devices could not be recharged. Plans were underway to recruit Data entry clerks to enter data from paper-based questionnaire but this would have prolonged the post-enumeration period by some weeks.

Digital equipment used was battery operated and field supervisors kept spare batteries on hand. Thus, enumerators were trained to identify a waning battery life for all equipment they used.

### 10.2 Potential Internet Outages

Field supervisors transmitted data using external modems but interruptions to the internet connection due to power failure or waning internet services were expected to adversely affect data transmission. A copy of all data obtained by each enumerator was kept on an external hard drive and could also be transferred to a USB thumb drive for later transfer to Accra. Field supervisors called the METSS office to alert them of their inability to transmit data and would send it when the internet was functional.

### 10.3 Potential Delays in Procurement of Equipment

Due to delays in the procurement of equipment, shipping problems or customs delays, electronic equipment some delays were anticipated to affect the time frame for field testing of the survey instrument. Thus, in the cases where these devices were available, they were purchased in Ghana. There were however concerns about suppliers not have the required quantities of devices on hand and having to deal with similar importation issues. Should the equipment not be available, paper questionnaires were planned for used and locally available height and weight measures meeting the specifications of measurement would have been procured.

## 11 Plan for Data Analyses

Upon the completion of the fieldwork, all data files were assembled and consolidated for consistency and completeness checks. A data dictionary was to be created for the data exported into SPSS and STATA formats for final cleaning and analysis. Weights were computed at this stage and incorporated in all data files.

Each indicator was analyzed per Ghanaian/International standards for cross-comparability with other survey results. The team analyzed anthropometric indicators per World Health Organization guidance, income indicators by the World Bank's Living Standards Measurement

Survey protocols, and food consumption indicators as stated by the Food and Nutrition Technical Assistance documentations.

Data was presented as charts and graphs for each individual indicator and were disaggregated according to the FTF Indicator Handbook (Oct 2011) by sex, gendered household type, pregnancy status, and urban and rural households. In addition, where appropriate, data was also disaggregated by the sex of the head of the household, to allow for comparisons between PBS and other survey findings. This was based on the assumption that the head of the household was the primary respondent. All indicators were disaggregated by the two strata as well, namely "agriculture-nutrition intervention area – Stratum I" and "agriculture only intervention area – Stratum II". Statistical test for significant difference were performed for all disaggregates.

## 12 Outline of Report

**A. Cover Page**
Survey title, participating organization logos, authors and date of publication.

**B. Acknowledgements**
Acknowledge contributors to the survey.

**C. Table of Contents**
Listing of report chapters and page numbers.

**D. Acronyms, Abbreviations and Glossary**
Catalog of acronyms and their definitions.

**E. Executive Summary**
Overview of survey, approach, findings and conclusions.

**F. Introduction**
Opening remarks on FTF, FTF/Ghana and reasons for the study.

**G. Survey Design and Execution**
Will provide descriptions of the survey methods, including sampling framework, quality control measures and ethical issues in this chapter. The chapter will also cover training, data collection and data management.

**H. Challenges**
The Chapter will discuss challenges confronted in the design and implementation of the survey as well as actions taken to minimize the impact of those challenges.

**I. Survey Results**

Tables and graphs of findings for each indicator, and descriptive narrative explaining findings will be discussed.

**J. Conclusion**

Implications of findings on FTF programmed activities.

**K. Appendices**

## Appendix A: Key Organizations Working in Northern Ghana

| | | | | | USAID FTF Targeted Districts | | 15 - Risk Assmnt, 12-RING, 10 first yr, 8-IE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **NORTHERN** | Districts | Capital | METSS/PBS | GSSP/IFPRI/MoFA | ADVANCE current | RING | GCAP Potential | MoFA Breadbasket Areas | SADA Growth Poles | MCC |
| 1 | | Bole | Bole | n | | | | n | n | n | |
| 2 | | Bunkpurugu-Yunyoo | Bunkpurugu | n | | n | n | | | | |
| 3 | | Central Gonja | Buipe | n | | n | n | | n | n | |
| 4 | | East Gonja | Salaga | n | | n | n | | | n | |
| 5 | | East Mamprusi | Gambaga | n | | n | n | | | n | |
| 6 | | Gushegu | Gushiegu | n | n | n | n | | n | | |
| 7 | | Karaga | Karaga | n | | n | n | | n | n | n |
| 8 | | Kpandai | Kpandai | | | | n | | n | n | |
| 9 | | Nanumba North | Bimbilla | n | | n | n | | n | n | |
| 10 | | Nanumba South | Wulensi | n | | | n | | n | | |
| 11 | | Saboba | Saboba | n | | n | n | | | | |
| 12 | | Savelugu-Nanton | Savelugu | n | | n | | n | n | n | n |
| 13 | | Sawla-Tuna-Kalba | Sawla | | | | | | | | |
| 14 | | Tamale Metropolitan | Tamale | n | | n | n | | | | n |
| 15 | | Tolon-Kumbungu | Tolon | n | | n | n | | n | | n |
| 16 | | West Gonja | Damongo | n | | n | n | | n | | |
| 17 | | West Mamprusi | Walewale | n | | n | n | n | n | n | n |
| 18 | | Yendi Municipal | Yendi | n | n | n | | | n | | |
| 19 | | Zabzugu/Tatale | Zabzugu | n | | n | | | n | | |
| 20 | | Chereponi | Chereponi | n | | n | n | | | | |

| | | | | | USAID FTF Targeted Districts | | 15 - Risk Assmnt, 12-RING, 10 first yr, 8-IE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **NORTHERN** | Districts | Capital | METSS/PBS | GSSP/IFPRI/MoFA | ADVANCE current | RING | GCAP Potential | MoFA Breadbasket Areas | SADA Growth Poles | MCC |
| | NEW DISTRICT NAMES IF ..... | **North Gonja** | | | | | | | | | |
| | | **Mion** | | | | | | | | | |
| | | **Sagnerigu** | | | | | | | | | |
| | | **TataleSanguli** | | | | | | | | | |
| | | **Kumbungu** | | | | | | | | | |
| | | **MampruguMoagduri** | | | | | | | | | |
| | | | | | | | | | | | |
| | **UPPER EAST** | | | | | | | | | | |
| 1 | | Bawku Municipal | Bawku | n | | n | | | | | |
| 2 | | Bawku West | Zebilla | n | | n | | | | | |
| 3 | | Bolgatanga-Municipal | Bolgatanga | n | | n | | | | | |
| 4 | | Bongo | Bongo | n | | n | | | | | |
| 5 | | Builsa | Sandema | n | | n | | | | | |
| 6 | | Garu-Tempane | Garu | n | | n | | | | | |
| 7 | | Kassena-Nankana | Navrongo | n | | n | | n | | | |
| 8 | | Kassena-Nankana West | Paga | | | | | | | | |
| 9 | | Talensi-Nabdam | Tongo | n | | n | | | | | |
| | NEW DISTRICTS IF... | **Pusiga** | | | | | | | | | |
| | | **Binduri** | | | | | | | | | |
| | | **Builsa** | | | | | | | | | |
| | | **Nabdam** | | | | | | | | | |
| | | | | | | | | | | | |
| | **UPPER WEST** | | | | | | | | | | |
| 1 | | Jirapa | Jirapa | n | | n | | | | | |

| | | | | | USAID FTF Targeted Districts | | 15 - Risk Assmnt, 12-RING, 10 first yr, 8-IE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **NORTHERN** | Districts | Capital | METSS/PBS | GSSP/IFPRI/MoFA | ADVANCE current | RING | GCAP Potential | MoFA Breadbasket Areas | SADA Growth Poles | MCC |
| 2 | | Lawra | Lawra | n | | n | | | | | |
| 3 | | LambussieKarni | Lambussie | | | | | | | | |
| 4 | | Nadowli | Nadowli | n | | n | | | | | |
| 5 | | Sissala East | Tumu | n | | n | | | | | |
| 6 | | Sissala West | Gwollu | n | | n | | | | | |
| 7 | | Wa East | Funsi | n | | n | | | | | |
| 8 | | Wa Municipal | Wa | n | | n | | | | | |
| 9 | | Wa West | Wechiau | n | | n | | | | | |
| | NEW DISTRICTS IF ..... | **Nandom** | | | | | | | | | |
| | | **DaffiamaBussieIssa** | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | **BRONG AHAFO** | | | | | | | | | | |
| 1 | | Jaman North | Sampa | | | | | | | | |
| 2 | | Kintampo North Municipal | Kintampo | | | | | | | | |
| 3 | | Kintampo South | Jema | | | | | | | | |
| 4 | | Pru | Yeji | | | | | | | | |
| 5 | | Sene | Kwame Danso | | | | | | | | |
| 6 | | Tain | Nsawkaw | | | | | | | | |
| 7 | | Wenchi Municipal | Wenchi | | | | | | | | |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **Serial #** | **2010EACode** | **U/R** | **Base Locality** | **Enumeration Area Base** | **2010 PHC Est. Field** |
| **001** | 0712100079 | Urban | SUMA-AHENKRO | MARKET | 479 |
| **002** | 0712100114 | Urban | SAMPA-SHEKOMLO | POST OFFICE | 736 |
| **003** | 0712100009 | Rural | ASUOKOR-AKOATA | PRESBY PRIMARY SCHOOL | 439 |
| **004** | 0712100052 | Rural | MAYERA | HSE/NO.MAB-SA-001 | 411 |
| **005** | 0712100103 | Rural | DUADASO NO.1 | HSE/NO.DAG-NE-009 | 660 |
| **006** | 0713100049 | Urban | SEIKWA | NKORANMAN S.H.S. | 650 |
| **007** | 0713100054 | Rural | DEGEDEGE | DEGEDEGE | 930 |
| **008** | 0713100104 | Rural | DABONIKROM (EHIAMANKYENE) | DABONIKROM (EHIAMANKYENE) | 562 |
| **009** | 0713100145 | Rural | SAASE | SAASE | 670 |
| **010** | 0714200051 | Urban | WENCHI | EYE ADOM HOUSE (X153/3) | 560 |
| **011** | 0714200078 | Urban | WENCHI | ALHAJI LIMAN MORO'S HOUSE | 605 |
| **012** | 0714200020 | Rural | BOWOHOMODEN NO.2 | BOWOHOMODEN NO.2 | 607 |
| **013** | 0714200107 | Rural | ADOYE (ADWEE) | ADOYE (ADWEE) | 517 |
| **014** | 0719100020 | Rural | DODI | CHURCH OF PENTECOST | 610 |
| **015** | 0719100053 | Rural | AGUDE AKURA (NARTEH) | AGUDE AKURA (NARTEH) | 626 |
| **016** | 0719100086 | Rural | BANTAMA | S.D.A. PRIMARY & J.H.S. | 648 |
| **017** | 0719100134 | Rural | BASSA | L/A JHS | 770 |
| **018** | 0719100167 | Rural | TODZIEKOPE | TODZIEKOPE | 423 |
| **019** | 0719100200 | Rural | KIDOKOPE | KIDOKOPE | 360 |
| **020** | 0720100129 | Urban | YEJI | SECONDARY SCHOOL | 560 |
| **021** | 0720100159 | Urban | YEJI | VOLTA LAKE HOTEL | 685 |
| **022** | 0720100005 | Rural | PAPASE | PAPASE | 460 |
| **023** | 0720100053 | Rural | ABEASE NEW TOWN | HEALTH CENTRE | 550 |
| **024** | 0720100088 | Rural | CHEREMBO | SULEMAN'S KWABEN CHEMICAL STORE | 680 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **025** | 0720100122 | Rural | JAKLAI | JAKLAI | 785 |
| **026** | 0721100055 | Urban | JEMA | ENGLISH & ARABIC PRIM. SCH. | 645 |
| **027** | 0721100024 | Rural | NEW PENINAMISA / EWESO | D/A J.H.S | 705 |
| **028** | 0721100080 | Rural | APESIKA | CORN MILL | 515 |
| **029** | 0721100119 | Rural | BAWA AKURA (OLD) | BAWA AKURA (OLD) | 873 |
| **030** | 0722200037 | Urban | KINTAMPO | TIJANIYA MOSQUE | 675 |
| **031** | 0722200083 | Urban | BABATOKUMA | TIJANIYA MOSQUE | 549 |
| **032** | 0722200095 | Rural | YARA | YARA | 680 |
| **033** | 0722200136 | Rural | KADELSO | D/A PRIMARY & J.H.S. | 611 |
| **034** | 0801100022 | Rural | SIMPUAYIBI | MARKET | 554 |
| **035** | 0802100007 | Rural | DIGZE | DIGZE | 301 |
| **036** | 0802100057 | Rural | YILENTEYIRI KARTEYIRI) | YILENTEYIRI KARTEYIRI) | 729 |
| **037** | 0802100094 | Rural | NAFAH | NAFAH | 506 |
| **038** | 0802100132 | Rural | DOLINGUO | DOLINGUO | 692 |
| **039** | 0803100030 | Urban | DAMONGO | ABDULAI AMADU'S HOUSE | 522 |
| **040** | 0803100005 | Rural | POPOSO KURA | POPOSO | 598 |
| **041** | 0803100063 | Rural | MURUGU | CHIEF'S HOUSE | 689 |
| **042** | 0803100101 | Rural | WAWATO | WAWATO | 391 |
| **043** | 0804100027 | Rural | GBIRIGI | ALSUNA MOSQUE | 628 |
| **044** | 0804100057 | Rural | CHISETO (KOKOPE) | CHISETO (KOKOPE) | 562 |
| **045** | 0804100087 | Rural | GBANSA NO.1 | GBANSA NO.1 | 281 |
| **046** | 0804100116 | Rural | DAWUNIPE | DAWUNIPE | 503 |
| **047** | 0805100153 | Urban | SALAGA | ABISCO FASHION CENTRE BLK.G.S | 550 |
| **048** | 0805100006 | Rural | BUNKURUGU | BUNKURUGU | 505 |
| **049** | 0805100047 | Rural | KAFABA NO.2 | L/A PRIMARY & JHS | 680 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **050** | 0805100080 | Rural | GARIN SHANU NO.1 | GARIN SHANU NO.1 | 754 |
| **051** | 0805100113 | Rural | KIJAU BATTOR | SUSUGBI NWOLEOY'S HOUSE (ADA CHIEF'S HOUSE) | 710 |
| **052** | 0805100176 | Rural | MASAKA | ABDULAI IBRAHIM'S HOUSE | 670 |
| **053** | 0805100209 | Rural | NYESILA | NYESILA | 533 |
| **054** | 0806100026 | Rural | JAMGBOEJADO (GMABI - DO) | JAMGBOEJADO (GMABI - DO) | 678 |
| **055** | 0806100059 | Rural | KITARE | GROOVY INN SPOT | 620 |
| **056** | 0806100092 | Rural | BUMBARE | BUMBARE | 599 |
| **057** | 0806100124 | Rural | BAKAMBA | ROMAN CATHOLIC CHURCH | 675 |
| **058** | 0806100173 | Rural | NYIMBORI DO | NYIMBORI DO | 722 |
| **059** | 0807100045 | Urban | WULENSI | MAMANI ABDULRAHMAN | 755 |
| **060** | 0807100028 | Rural | TAMPAYA | MAMANI SAHARA'S HOUSE E.A. | 613 |
| **061** | 0807100077 | Rural | TIKAYEDO | TIKAYEDO | 638 |
| **062** | 0807100119 | Rural | KABLIYA | KABLIYA | 714 |
| **063** | 0808100026 | Urban | CHAMBA | EVANGELICAL CHURCH | 762 |
| **064** | 0808100085 | Urban | BIMBILLA | ALIDU LATEST FASHION | 770 |
| **065** | 0808100051 | Rural | NABAGNANDO | NABAGNANDO | 766 |
| **066** | 0808100125 | Rural | KPALIGBENI (ZABLAYA) | KPALIGBENI (ZABLAYA) | 783 |
| **067** | 0808100163 | Rural | NAKPA-GBEINI | AREA COUNCIL | 828 |
| **068** | 0808100200 | Rural | MAKANTEDO (MAKANTEYILI) | MAKANTEDO | 451 |
| **069** | 0809100087 | Urban | ZABZUGU | NEW N.D.C. DISTRICT OFFICE | 750 |
| **070** | 0809100001 | Rural | BAGMANE (BAGAMANE) | BAGMANE (BAGAMANE) | 600 |
| **071** | 0809100034 | Rural | KUKUOKPANG I | KUKUOKPANG I | 778 |
| **072** | 0809100066 | Rural | AJEDUMBO | AJEDUMBO | 603 |
| **073** | 0809100116 | Rural | NAHUYILI | PRIMARY SCHOOL | 850 |
| **074** | 0810200182 | Urban | YENDI | KUM-WULAN KROYILI | 820 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **075** | 0810200224 | Urban | YENDI | A.M. ABUKARI'S HOUSE (B317/2) | 660 |
| **076** | 0810200010 | Rural | KPABIA | MR. GARIBA'S HOUSE | 698 |
| **077** | 0810200043 | Rural | BULI | ABUDU SABNAA'S HOUSE | 850 |
| **078** | 0810200076 | Rural | ADIBO | HEALTH CENTRE | 750 |
| **079** | 0810200109 | Rural | KAYONG | KAYONG | 670 |
| **080** | 0810200152 | Rural | SAMBU | PUBLIC TOILET | 750 |
| **081** | 0810200257 | Rural | KULKPANGA | KULKPANGA | 707 |
| **082** | 0810200290 | Rural | BUNDUOLI | BUNDUOLI | 362 |
| **083** | 0811301032 | Urban | KAKPAYILI | MOSQUE | 900 |
| **084** | 0811301077 | Urban | NYOHINI | MOSQUE | 650 |
| **085** | 0811302019 | Urban | NYANI-FONG | CHA MALT PHARMACY H/NO. (F.85) | 550 |
| **086** | 0811302053 | Urban | CHENGLI | NAWARIYA ISLAMIC PRIM. SCH. AND MOSQUE | 750 |
| **087** | 0811302087 | Urban | GUKPEGU | BUGLAMA YILI | 750 |
| **088** | 0811302121 | Urban | ABOABO | GHANA TELECOM REGIONAL OFFICE | 800 |
| **089** | 0811302155 | Urban | TISHIGU | PRECIOUS LADIES BEAUTY SALOON (B.215) | 550 |
| **090** | 0811302189 | Urban | GUMBIHINI | H/NO. A. BLK V 35 | 650 |
| **091** | 0811303019 | Urban | EDUCATION RIDGE | BUREAU OF GHANA LANGUAGES | 850 |
| **092** | 0811303056 | Urban | CHOGGU MANAYILI | LARI-NI, WOMEN AGRIC PROCESSING RICE HULER | 750 |
| **093** | 0811303097 | Urban | JISONAYILI | PUBLIC TOILET | 780 |
| **094** | 0811303133 | Urban | GUMANI | BRIGHT KIDS ACADEMY | 753 |
| **095** | 0811303167 | Urban | TISHIGU | ABUBAKARI KPEGU'S HOUSE (K.517) | 550 |
| **096** | 0811301040 | Rural | NAKPANZUO | SUNDAY CHEMICAL SHOP | 700 |
| **097** | 0811303193 | Rural | GBALAHI | GBALAHI | 650 |
| **098** | 0812100070 | Urban | NYANKPALA | SOCHI CHEMICAL STORE | 786 |
| **099** | 0812100250 | Urban | DALUN | R/C PRIMARY/JHS | 887 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **100** | 0812100016 | Rural | TUNAYILI | COPENY MOSQUE (COMPANY MOSQUE | 718 |
| **101** | 0812100057 | Rural | KUKUO | KUKUO | 791 |
| **102** | 0812100104 | Rural | WANTUGU | ENGLISH AND ARABIC PRIMARY SCHOOL | 793 |
| **103** | 0812100137 | Rural | GUMO | GUMO | 865 |
| **104** | 0812100169 | Rural | WALA | WALA | 758 |
| **105** | 0812100202 | Rural | JOAJIRIGU | JOAJIRIGU | 643 |
| **106** | 0812100264 | Rural | TIBUNG | CENTRAL MOSQUE | 612 |
| **107** | 0813100063 | Urban | SAVELUGU | COMMUNITY CENTRE/COURT | 794 |
| **108** | 0813100116 | Urban | TAMPION | NAYIRI FONGU MOSQUE | 614 |
| **109** | 0813100032 | Rural | LIBGA | LIBGA | 646 |
| **110** | 0813100130 | Rural | BATANYILI | BATANYILI | 584 |
| **111** | 0813100166 | Rural | LALIGU | MOHAMMED BILSINAA'S HOUSE | 646 |
| **112** | 0813100215 | Rural | PIGU | PIGU | 788 |
| **113** | 0814100088 | Urban | PISHIGU | MALLAM LANDAN'S HOUSE | 600 |
| **114** | 0814100025 | Rural | NYONG - GUMA | NECHINAA YILI HOUSE | 500 |
| **115** | 0814100079 | Rural | KPATRIBOGU | MOSQUE | 512 |
| **116** | 0814100124 | Rural | GULUGU | GULUGU | 515 |
| **117** | 0815100083 | Urban | GUSHIEGU | SLAUGHTER HOUSE | 700 |
| **118** | 0815100007 | Rural | GALWEI | MARKET | 510 |
| **119** | 0815100046 | Rural | KYIDOMYILI | KYIDOMYILI | 657 |
| **120** | 0815100107 | Rural | NAKPA | NAKPA | 454 |
| **121** | 0815100137 | Rural | KATANI | KATANI | 555 |
| **122** | 0816100007 | Rural | TAKPALB | TAKPALB | 756 |
| **123** | 0816100042 | Rural | BUKPAM | BUKPAM | 572 |
| **124** | 0816100087 | Rural | KUMUATEEK | KUMUATEEK | 568 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **125** | 0817100043 | Urban | CHEREPONI | NEW CHIEF'S PALACE | 740 |
| **126** | 0817100018 | Rural | TOMBO (TOMBU) | JUNIOR HIGH SCHOOL | 450 |
| **127** | 0817100069 | Rural | TUMPONDI | TUMPONDI | 1055 |
| **128** | 0818100083 | Urban | BUNKPURUGU | CATHOLIC CHURCH | 500 |
| **129** | 0818100018 | Rural | PEBUN | PEBUN | 780 |
| **130** | 0818100050 | Rural | TEMAA (JEGORI) | TEMAA (JEGORI) | 850 |
| **131** | 0818100099 | Rural | CHINTLUNG NO.2 | L/A PRIM. SCHOOL | 550 |
| **132** | 0818100132 | Rural | NAJONG 1 | UNITED PRIM A & JHS | 650 |
| **133** | 0818100164 | Rural | PULIN KUAN | PULIN KUAN | 525 |
| **134** | 0819100132 | Urban | NALERIGU | REST HOUSE | 806 |
| **135** | 0819100027 | Rural | TINDANTUA | TINDANTUA | 586 |
| **136** | 0819100072 | Rural | ZIGUM | ZIGUM | 506 |
| **137** | 0819100105 | Rural | GBANGU | MARKET | 896 |
| **138** | 0819100168 | Rural | NEW NAMENBOAKA | NEW NAMENBOAKA | 620 |
| **139** | 0820100160 | Urban | WALEWALE | PAANTAKI DRUG STORE | 764 |
| **140** | 0820100040 | Rural | ALAVANYO | ALAVANYO | 371 |
| **141** | 0820100075 | Rural | SOO | R/C PRIMARY SCHOOL | 667 |
| **142** | 0820100111 | Rural | BULBIA | MARKET | 588 |
| **143** | 0820100177 | Rural | ZANGU-VUGA | MOSQUE | 601 |
| **144** | 0820100212 | Rural | GBIMSI | CENTRAL MOSQUE | 812 |
| **145** | 0820100246 | Rural | GBEO | GBEO | 523 |
| **146** | 0901100017 | Rural | FUMBISI LUSIA | FUMBISI LUSIA | 485 |
| **147** | 0901100054 | Rural | KANJARGA NYADEM | KANJARGA NYADEM | 515 |
| **148** | 0901100090 | Rural | WIAGA-AKISI-YERI | WIAGA-AKISI-YERI | 405 |
| **149** | 0901100135 | Rural | SINIENSI-YIKPIEN | SINIENSI-YIKPIEN | 476 |
| **150** | 0902100053 | Urban | PAGA | PRIMARY /NURSURY SCH | 533 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **151** | 0902100060 | Urban | PAGA | ZENGA CROCODLE DAM | 610 |
| **152** | 0902100023 | Rural | GWENIA ADANIA - NORTH | GWENIA ADENIA - NORTH | 403 |
| **153** | 0902100050 | Rural | KAJELO DIIBA | KAJELO DIIBA | 810 |
| **154** | 0902100092 | Rural | MANYORO | MARKET | 483 |
| **155** | 0903100065 | Urban | NAVRONGO | WAR MEMORIAL HOSPITAL | 675 |
| **156** | 0903100076 | Urban | NAVRONGO | MAYAGA HOTEL | 700 |
| **157** | 0903100087 | Urban | NAVRONGO | AWE SEC. TEC. SCHOOL | 888 |
| **158** | 0903100022 | Rural | BIU | HEALTH CENTRE | 438 |
| **159** | 0903100132 | Rural | PUNGU - CENTRAL | PRIMARY SCHOOL | 610 |
| **160** | 0904200062 | Urban | BOLGA TINDONMOLIGA | MUSEUM QUARTERS | 562 |
| **161** | 0904200098 | Urban | BOLGA- OLD ZONGO | GOIL FILLING STATION | 502 |
| **162** | 0904200134 | Urban | BOLGA-BUKERE | CATERING REST HOUSE | 406 |
| **163** | 0904200018 | Rural | GAMBIGU AZUABISI | GAMBIGU JHS | 503 |
| **164** | 0904200048 | Rural | ZUARUNGU DABORO | WORD INTERNATIONAL SCHOOL | 533 |
| **165** | 0904200186 | Rural | SUMBRUNGU KULBIA GYENGA | SUMBRUNGU KULBIA GYENGA | 538 |
| **166** | 0904200216 | Rural | ZUAGUNGU KATAGA (AGENKOLGO) | PRIMARY SCHOOL | 461 |
| **167** | 0905100033 | Rural | TONGO | POLICE STATION | 828 |
| **168** | 0905100070 | Rural | BAAPELUG | BAAPELUG | 320 |
| **169** | 0905100115 | Rural | TINDONGO TINGRE | TINDONGO PRIMARY SCHOOL | 420 |
| **170** | 0905100151 | Rural | ZIEMBOUNG | ZIEMBOUG | 680 |
| **171** | 0905100189 | Rural | KONGO BASABLIGO | COMMUNITY CENTRE | 703 |
| **172** | 0906100006 | Rural | SAPOORO | ANABA'S HOUSE | 520 |
| **173** | 0906100037 | Rural | BOGOROGO | MOSQUE | 523 |
| **174** | 0906100077 | Rural | ZOKO GOO | GOO JHS | 731 |
| **175** | 0906100108 | Rural | SAMBOLIGU AMANGA DADIMGO | SAMBOLIGO AMANGA DADIMGO | 628 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **176** | 0907100021 | Rural | NAMOGO | NAMOGO | 625 |
| **177** | 0907100051 | Rural | ZUAYANGA NO.2 | ZUAYANGA NO.2 | 437 |
| **178** | 0907100082 | Rural | WIIGA | ANGLICAN CHURCH WIIGA | 520 |
| **179** | 0907100125 | Rural | ANKPALIGA NO.2 | AYAABA ASAMAN'S HOUSE | 624 |
| **180** | 0907100156 | Rural | GOZONGO NATINGA | CHIEF'S HOUSE | 770 |
| **181** | 0908100108 | Urban | GARU | MARKET | 780 |
| **182** | 0908100024 | Rural | SONGO | SONGO | 642 |
| **183** | 0908100058 | Rural | POASIAMABAG | POASIAMABAG | 532 |
| **184** | 0908100091 | Rural | ZISERI NO.1 | ZISERI NO.1 | 780 |
| **185** | 0908100134 | Rural | NADIGIRI - TOPIAN | NADIGIRI - TOPIAN | 480 |
| **186** | 0908100167 | Rural | KUGASEGO BUGRI NO.2 | KUGASEGO BUGRI NO.2 | 600 |
| **187** | 0908100201 | Rural | AKUURBU AREN OLD GAGBIRI | AKUURBU AREN OLD GAGBIRI | 617 |
| **188** | 0909200215 | Urban | BAWKU SABON ZONGO | NO. PRIMARY/JHS SCHOOL | 726 |
| **189** | 0909200251 | Urban | BUKARI YAMKAMBE'S HOUSE | BAWKU SAGIBO: BUKARI YAMKAMBEY'S HOUSE | 789 |
| **190** | 0909200287 | Urban | BAWKU PATILIMI | J200/1 | 730 |
| **191** | 0909200015 | Rural | DABIA NO. 1 | NABA ATANOYRE ARDUK'S HOUSE | 501 |
| **192** | 0909200050 | Rural | WIDANTENG | WIDANTENG | 596 |
| **193** | 0909200085 | Rural | KUKUSI | ZABURU R/C CHURCH | 458 |
| **194** | 0909200133 | Rural | DEEGA | SEIDU ALHASI'S HOUSE | 788 |
| **195** | 0909200168 | Rural | AZUM SAPELLIGA | AZUM SAPELLIGA | 649 |
| **196** | 0909200203 | Rural | BANSI TENDANTENGAA | BANSI TENDANTENGA | 314 |
| **197** | 0909200333 | Rural | GEATEGA (GENTIGA) | GEATEGA GENTIGA | 848 |
| **198** | 1001100010 | Rural | TAWONCHELE NO.2(BAGA) | TAWONCHELE NO.2(BAGA) | 552 |
| **199** | 1001100041 | Rural | BAKPORATENG(BAKPOR AYIRI) | BAKPORATENG(BAKPORAYIRI ) | 421 |
| **200** | 1001100072 | Rural | LADAYIRI | LADAYIRI | 545 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **201** | 1001100103 | Rural | DORIMON | HEALTH CARE | 705 |
| **202** | 1002200039 | Urban | WA | TENDAMA PRIMARY SCHOOL | 500 |
| **203** | 1002200067 | Urban | WA | RESIDENTIAL AREA- NAA SIDIKI BOMI II PARK | 688 |
| **204** | 1002200095 | Urban | WA : WAPANI | JOY SPOT | 816 |
| **205** | 1002200005 | Rural | PIISI | R/C PRIMARY SCHOOL | 602 |
| **206** | 1003100020 | Rural | JEYIRI | JEYIRI | 879 |
| **207** | 1003100050 | Rural | KPALISAGA | KPALISAGA | 720 |
| **208** | 1003100081 | Rural | KUNDUNGU | HEALTH CENTRE | 750 |
| **209** | 1004100083 | Urban | TUMU | REGULAR BAPTIST CHURCH | 525 |
| **210** | 1004100004 | Rural | GWOSI SIPAREBOI (UPPER) | GWOSI SIPAREBOI (UPPER) | 620 |
| **211** | 1004100040 | Rural | NABUGUBELE | MOSQUE | 450 |
| **212** | 1005100030 | Rural | OMBO | OMBO | 534 |
| **213** | 1005100065 | Rural | KYANG | KYANG | 741 |
| **214** | 1005100100 | Rural | VOGONNI | VOGONNI | 505 |
| **215** | 1005100134 | Rural | DAFFIAMA | ANTHONY'S BAR | 560 |
| **216** | 1005100171 | Rural | GOZIRI | GOZIRI | 212 |
| **217** | 1006100015 | Rural | TAMPALA | R.C J.H.S | 478 |
| **218** | 1006100049 | Rural | PING | D.A PRIMARY SCHOOL | 720 |
| **219** | 1006100099 | Rural | JEFIYIRI | CHIEF'S PALACE | 620 |
| **220** | 1006100134 | Rural | POKORI | POKORI | 583 |
| **221** | 1007100005 | Rural | KUNTULO | KUNTULO | 645 |
| **222** | 1007100044 | Rural | KUSALI | THE MOSQUE | 551 |
| **223** | 1008100071 | Urban | HAMILE | METHODIST CHURCH | 451 |
| **224** | 1008100031 | Rural | LAMBUSSIE | RURAL WOMEN'S GROUP OFFICE | 549 |
| **225** | 1008100070 | Rural | DAHILI | CHIEF'S PALACE | 520 |

| Appendix B: Final Sample Frame of 230 Enumeration Areas in the ZOI | | | | | |
|---|---|---|---|---|---|
| **226** | 1009100151 | Urban | NANDOM | OLD NPP OFFICE (ALHAJI LIMAN SIDIKI HOUSE) | 728 |
| **227** | 1009100023 | Rural | TUMO (TUMA) | TUMO (TUMA) | 480 |
| **228** | 1009100079 | Rural | HAYIOUNG | HAYIOUNG | 613 |
| **229** | 1009100124 | Rural | MUNYUPELI | MUNYUPELI | 804 |
| **230** | 1009100179 | Rural | KOKOLIGU GBANTAKURI | KOKOLIGU GBANTAKURI | 509 |

# MONITORING, EVALUATION TECHNICAL SUPPORT SERVICES (METSS)
# GHANA FEED THE FUTURE ZONE OF INFLUENCE SURVEY
# BASELINE SURVEY QUESTIONNAIRE
# VIST I

Version 04
27 February 2012

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## Visit 1- Module 1: Household Identification Data (FTF Module A)

**1.01** Enumerator Identification Number?

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | *Not Listed* | | *019* | | *038* | | *057* | | *076* |
| | *001* | | *020* | | *039* | | *058* | | *077* |
| | *002* | | *021* | | *040* | | *059* | | *078* |
| | *003* | | *022* | | *041* | | *060* | | *079* |
| | *004* | | *023* | | *042* | | *061* | | *080* |
| | *005* | | *024* | | *043* | | *062* | | *081* |
| | *006* | | *025* | | *044* | | *063* | | *082* |
| | *007* | | *026* | | *045* | | *064* | | *083* |
| | *008* | | *027* | | *046* | | *065* | | *084* |
| | *009* | | *028* | | *047* | | *066* | | *085* |
| | *010* | | *029* | | *058* | | *067* | | *086* |
| | *011* | | *030* | | *049* | | *068* | | *087* |
| | *012* | | *031* | | *050* | | *069* | | *088* |
| | *013* | | *032* | | *051* | | *070* | | *089* |
| | *014* | | *033* | | *052* | | *071* | | *090* |
| | *015* | | *034* | | *053* | | *072* | | *091* |
| | *016* | | *035* | | *054* | | *073* | | *092* |
| | *017* | | *036* | | *055* | | *074* | | *093* |
| | *018* | | *037* | | *056* | | *075* | | *094* |

*Name of enumerator not listed (write in name)*

| |
|---|
| |

**NOTE TO ENUMERATOR**: Within each Enumeration Area, you will interview 20 households. Locate and interview the list of 20 household given you. If after two attempts you are unsuccessful in obtaining audience, replace that household with one of the households in the reserve 7 household list. All applicable questionnaire sections should be asked of all appropriate household members. Follow the skip/prompt functions of the electronic data collection device through each question appropriately. Do not fill out questions 1.08 and 1.09, it will be auto-filled after you have completed module 2. Fill out the consent form on the next page. If the household agrees to continue with the survey, continue to complete the questionnaire until any respondent refuses to continue, then stop or move to another respondent/modules as appropriate.

| **Household Identification** | **Code** |
|---|---|
| **1.02**. Region: | |
| **1.03**.District: | |
| **1.04** Community/Village: | |
| **1.05**. Enumeration Area Number | |
| **1.06**. Household Number | |
| **1.07**. Household Identification: | |
| **1.08**. Name of primary respondent (code from roster in Module 2):<br>**Surname, First Name:.....** | |
| **1.09**. Name of secondary respondent (code from roster in Module 2):<br>**Surname, First Name:.....** | |
| **1.10.** Type of household: | |
| **1.11**.Main religion of household (See codes below ): | |
| **1.12**. Main ethnic group of the household (enter code): | |

| **Interview details** | **Code** |
|---|---|
| **1.13** GPS Coordinates of household<br>X Household latitude ___ ___ ___ . ___ ___ ___ ___ ___ ___<br>Y Household longitude ___ ___ ___ . ___ ___ ___ ___ ___ ___ | |
| **1.14**. Survey start time (hh:mm) | ___ ___ : ___ ___ |
| **1.15.** Survey end time (hh:mm) | ___ ___ : ___ ___ |
| **1.16** Date of first visit (dd/mm/yyyy): | ___ ___ / ___ ___ / ___ |
| **1.17**. Date of second visit (dd/mm/yyyy): | ___ ___ / ___ ___ / ___ |
| **1.18**. Name/code of supervisor: | |
| **1.19.** Final outcome of interview (enter code) | |

**Codes for questions in table above**

| 1.02 Region Codes | 1.03: Districts Codes in Northern Region | | 1.03: Districts Codes Upper East Region | 1.03: Districts Codes Upper West Region |
|---|---|---|---|---|
| 08 - Northern Region<br>09 - Upper East Region<br>10 - Upper West Region | Bole/Bamboi - 01<br>Bunkpurugu/Yunyoo - 02<br>Central Gonja - 03<br>Chereponi - 04<br>East Gonja - 05<br>East Mamprusi - 06<br>Gusheigu - 07<br>Karaga - 08<br>Kpandai - 09<br>Nanumba North - 10 | Nanumba South - 11<br>Saboba - 12<br>Savelugu/Nanton - 13<br>Sawla/Tuna/Kalba - 14<br>Tamale Metro - 15<br>Tolon/Kumbungu - 16<br>West Gonja - 17<br>West Mamprusi - 18<br>Yendi Muni - 19<br>Zabzugu/Tatali - 20 | Bawku Municipal - 01<br>Bawku West - 02<br>Bolgatanga Municipal - 03<br>Bongo - 04<br>Builsa - 05<br>Garu/Tempane - 06<br>Kassena Nankana - 07<br>Kassena Nankana West - 08<br>Talensi Nabdam - 09 | Jirapa - 01<br>Lambussie Karni - 02<br>Lawra - 03<br>Nadowli - 04<br>Sissala East - 05<br>Sissala West -06<br>Wa East - 07<br>Wa Municipal - 08<br>Wa West - 09 |

| 1.05: Enumeration Area Code | 1.10: Household Type Code | 1.11: Main Religion | A12: Main ethnic Group |
|---|---|---|---|
| | 1 - Male and Female adult **(M&F)**<br>2 - Female adult only **(FNM)**<br>3 - Male adult only **(MNF)**<br>4 - Child only household **(CNA)** | 1 - No Religion<br>2 - Catholic<br>3 - Protestant (Anglican, Lutheran, Presbyterian, Methodist, etc)<br>4 - Pentecostal/Charismatic<br>5 - Other Christian<br>6 - Islam<br>7 - Ahmadi<br>8 - Traditionalist<br>9 - Other (specify) | |

| **1.20. Final outcome of interview (enter code)** | | |
|---|---|---|
| 1 - Completed<br>2 - Incomplete<br>3 - Absent<br>4 - Refused<br>5 - Could not locate | | |

## Appendix C: Population-Based Survey Instruments

Household Identification: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

# KANSAS STATE UNIVERSITY

## INFORMED CONSENT FORM

**PROJECT TITLE:** FTF Ghana Population-Based Survey in Northern Ghana: Baseline

**APPROVAL DATE OF PROJECT:** 6/2012 **EXPIRATION DATE OF PROJECT:** 6/2013

**PRINCIPAL INVESTIGATOR: CO-INVESTIGATOR(S):**
Dr. Tim Dalton, Kansas State University (KSU), USA
Dr. Vincent Amanor-Boadu, KSU, USA
Dr. Nina Lilja, KSU, USA

**CONTACT AND PHONE FOR ANY PROBLEMS/ QUESTIONS:**

**Ghanaian Contacts –**
Patrick Fosu-siaw (Project Coordinator) or Dr. Adeline Ofori-Bah (Chief of Party)
METSS-Ghana
(Monitoring, Evaluation, and Technical Support Services-Ghana, is an extension of the USAID/Ghana Economic Growth Office, Accra, GH)
P.O. Box OS 188
Osu-Accra, Ghana
Phone: 0244 422 805 (Mr. Fosu-Siaw) or 0249 049 875 (Dr. Ofori-Bah)
E-mail: pfosusiaw@metssghana.org or aoforibah@metssghana.org

**USA contact –**
Dr. Tim Dalton
Department of Agricultural Economics
Kansas State University
342 Waters Hall
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Email: tdalton@ksu.edu

**IRB CHAIR CONTACT/ PHONE INFORMATION:**
Rich Schiedt, Chair, Committee on Research Involving Human Subjects, 203 Fairchild Hall, Kansas State University, Manhattan, KS 66506, USA, 1-785-532-3224

**SPONSOR OF PROJECT:**
United States Department of Agriculture (USDA) through Participating Agency Service Agreement (PASA) with the United States Agency for International Development (USAID)

**PURPOSE OF THE RESEARCH:**
This is a research project designed to collect information on your household's economic activities, agricultural activities, food choices and eating practices, nutrition, and women and men's roles in household activities. The information collected in this survey will help determine the effectiveness of public assistance programs designed to reduce poverty, reduce hunger, and improve nutrition for people in your region of Ghana.

**PROCEDURES OR METHODS TO BE USED:**
Surveyors from the Institute of Statistical, Social, and Economic Research (ISSER) will ask you questions and record your answers in a laptop computer. Surveyors will come visit your household at least twice and they will ask questions from you and various other family members. Each survey visit will take approximately 40 min. – 2 hrs. to complete. With your permission, surveyors will also take height and weight measurements of you and your family members.

During our initial visit, we will ask for phone contact information in case we need to contact you to make arrangements for our 2nd visit or if we are interrupted during the first visit and need to schedule completion of the survey at a later date and time. You may still participate in the survey if you do not have a phone or if you do not want to give us your phone information.

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**ALTERNATIVE PROCEDURES OR TREATMENTS, IF ANY, THAT MIGHT BE ADVANTAGEOUS TO SUBJECT:**
none

**LENGTH OF STUDY:** The field work portion of this project is expected to take about six weeks.

**RISKS ANTICIPATED:** There are no known risks associated with your participation in this project. We appreciate that this is a busy farming season for you and understand that your participation in the survey may cause you to miss approximately 40 min. to 2 hrs. of field work because of each visit. If you need to take a break for rest or to take care of something, please inform your interviewers and they will stop when you wish.

**BENEFITS ANTICIPATED:** The project benefits society as a whole in that the collection of this information meets with United States aid funding requirements and, when these requirements are met, United States funded aid programs are allowed to operate in the region. Hopefully these programs will improve people's quality of life.

**EXTENT OF CONFIDENTIALITY:** If you wish, you may participate in the survey without providing your name or phone number to the surveyor. If you do provide your name and/or contact information, all of your responses to this questionnaire will remain completely confidential and nothing will ever be published/reported/ presented, etc. that associates your names, phone numbers, and/or residential location with your responses to the survey questions. The only reason you would be contacted again in the future about this survey is if we are interrupted and need to make arrangements to complete the survey at a later date and time.

In all distributed datasets and reports that result from this survey, all household responses like yours will be associated with a unique household identification number that can never be linked to you. The only people that will ever have access to survey information containing identifiers of your household are the surveyors and project researchers and all have signed agreements promising to keep your data confidential.

**IS COMPENSATION OR MEDICAL TREATMENT AVAILABLE IF INJURY OCCURS:** Not applicable since this project poses no more than minimal risk to participants.

**PARENTAL APPROVAL FOR MINORS:** _____

(No parental consent is required for minors under 18 that have no parent present in the household. See parental consent waiver justification on approved IRB application.)

**TERMS OF PARTICIPATION:** I understand this project is research, and that my participation is completely voluntary. I also understand that if I decide to participate in this study, I may withdraw my consent at any time, and stop participating at any time without explanation, penalty, or loss of benefits to which I may otherwise be entitled.

I verify that my signature below indicates that I have read and understand this consent form (or that this consent form as been read to me), and willingly agree to participate in this study under the terms described, and that my signature acknowledges that I have received a signed and dated copy of this consent form.

**Participant Name:** _____

**Participant Signature:** _____ **Date:** _____

**Witness to Signature: (project staff)** _____ **Date:** _____

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Last revised on May 20, 2004

**Visit 1- Module 1 Continued: Informed Consent (FTF Module B)**

**1.24**. Do you [NAME] agree to participate in the study?

**Note to Enumerator:** *A secondary respondent is the female with most decision making authority in the household, assuming that the male with most decision making authority is primary respondent.*

| **Respondent Number *(from HH Listing)*** | **Type of Respondent** | **Name of Respondent** | **Status of Participation**<br>1 - Yes (Participate)<br>2 - No>>End Survey | **Signature Mark** | **Cell Phone Number** |
|---|---|---|---|---|---|
| | Primary Respondent | | | | |
| | Secondary Respondent | | | | |
| | Other Respondent 1 | | | | |
| | Other Respondent 2 | | | | |
| | Other Respondent 3 | | | | |

*I _____, the enumerator responsible for the interview taking place on _____, 2012 certify that I have read the above statement to the participant(s) and they have consented to the interview. I pledge to conduct this interview as indicated on instructions and inform my supervisor of any problems encountered during the interview process.*

**Visit 1- Module 2: Household Demographics (FTF Module C)**

**Instruction to Enumerators:** Ask these questions about all household members. Ask the primary or secondary respondent, whoever is most knowledgeable about the age, completed education, and other characteristics of household members.

## Appendix C: Population-Based Survey Instruments

Household Identification: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

**Enumerator Reads:** First, we would like to ask you about each member of your household. Please list the names of everyone considered to be a member of this household, starting with you (the primary respondent), followed by the secondary respondent and all other person:

| ID Code | Name of household member?<br><br>[start with primary respondent, continue with the secondary respondent, if applicable, and other members] | What is [NAME's] sex?<br><br>1 = M<br>2 = F | What is [NAME's] relationship to the primary respondent? | What is [NAME's] age?<br><br>**If < 2 yrs. enter # of months**<br>**If <3 yrs. , skip 2.07-2.10** | | What is [NAME's] civil or marital status? | Can [NAME] read and write? | Is [NAME] currently attending school?<br><br>1 = Yes >>2.10<br>2 = No | Has [NAME] ever attended school?<br>1= Yes<br>2= No>>next member | What is the highest grade of education completed by [NAME]? |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | **Number** | **Unit** | | | | | |
| | **2.01** | **2.02** | **2.03** | **2.04** | **2.05** | **2.06** | **2.07** | **2.08** | **2.09** | **2.10** |
| 01 | | | | | | | | | | |
| 02 | | | | | | | | | | |
| 03 | | | | | | | | | | |
| 04 | | | | | | | | | | |
| 05 | | | | | | | | | | |
| 06 | | | | | | | | | | |
| 07 | | | | | | | | | | |
| 08 | | | | | | | | | | |
| 09 | | | | | | | | | | |
| 10 | | | | | | | | | | |

## Visit 1- Module 2: Household Demographics (FTF Module C) Continued

| ID Code | Name of household member?<br><br>[start with primary respondent, continue with the secondary respondent, if applicable, and other members] | What is [NAME's] sex?<br><br>1 = M<br>2 = F | What is [NAME's] relationship to the primary respondent? | What is [NAME's] age?<br><br>**If < 2 yrs enter # of months**<br>**If <3 yrs. , skip 2.07-2.10** | | What is [NAME's] civil or marital status? | Can [NAME] read and write? | Is [NAME] currently attending school?<br><br>1 = Yes >>2.10<br>2 = No | Has [NAME] ever attended school?<br>1= Yes<br>2= No>>next member | What is the highest grade of education completed by [NAME]? |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | **Number** | **Unit** | | | | | |
| | **2.01** | **2.02** | **2.03** | **2.04** | **2.05** | **2.06** | **2.07** | **2.08** | **2.09** | **2.10** |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |

**Codes for Questions in Phase 1- Module 2: Household Demographics**

| 2.03: Relationship to primary respondent | 2.05: Unit | 2.06: Civil Status | 2.07: Literacy | 2.10: Education level |
|---|---|---|---|---|
| 1 - Primary respondent<br>2 - Spouse (Wife/Husband)<br>3 - Child (Son/daughter)<br>4 - Parent/Parent in-law<br>5 - Son/Daughter in-law<br>6 - Grandchild<br>7 - Brother/Sister<br>8 - Step child<br>9 - Foster child<br>10 - Other relative<br>11 - Non-relative | 1 - Months<br>2 - Year | 1 - Never married/Single<br>2 - Informal/consensual union/living together<br>3 - Married<br>4 - Separated<br>5 - Divorced<br>6 - Widowed | 1 - Cannot read and write<br>2 - Can sign (write) only<br>3 - Can read only<br>4 - Can read and write | 99 - Under age 3<br>1 - None<br>2 - MLSC<br>3 - BECE<br>4 - Voc/Comm<br>5 - Teacher Tra. A<br>6 - Teacher Post Sec<br>7 - GCE O Level<br>8 - SSCE<br>9 - GCE A Level<br>10 - Tech/Prof Cert<br>11 - Tech/Prof Dip<br>12 - HND<br>13 - Bachelors<br>14 - Masters<br>15 - Doctorate<br>16 - Other |

## Visit 1- Module 3: Household Hunger Scale (FTF Module H.)

Enumerator: Ask of the person responsible for Household Food Preparation.

| No. | Question | Response Code |
|---|---|---|
| **3.01** | In the past 4 weeks was there ever no food to eat of any kind in your house because of lack of resources to get food? | 1 = Yes<br>2 = No >>3.03 |
| **3.02** | How often did this happen in the past 4 weeks? | 1 = Rarely (1-2 times)<br>2 = Sometimes (3-10 times)<br>3 = Often (more than 10 times |
| **3.03** | In the past 4 weeks did you or any household member go to sleep at night hungry because there was not enough food? | 1 = Yes<br>2 = No>>3.05 |
| **3.04** | How often did this happen in the past 4 weeks? | 1 = Rarely (1-2 times)<br>2 = Sometimes (3-10 times)<br>3 = Often (more than10 times |
| **3.05** | In the past 4 weeks did you or any household member go a whole day and night without eating anything at all because there was not enough food? | 1 = Yes<br>2 = No >>end of module |
| **3.06** | How often did this happen in the past 4 weeks? | 1 = Rarely (1-2 times)<br>2 = Sometimes (3-10 times)<br>3 = Often (more than 10 times) |
| | **End of Module 3** | |

**Visit 1- Module 4: Women's Dietary Diversity (FTF Module J.)**

Enumerator Instructions: Ask these questions of each woman of reproductive age (15-49 years) in the household. Check to see if consent to be interviewed has already been given on the cover sheet, if it has not, you must obtain permission from EACH woman

**Enumerator reads to respondent**: We would like to ask you permission to ask questions about your diet. Your participation is voluntary and you may stop at any time. Your responses will be kept confidential.

| Respondent ID (from HH Roster)<br><br>**(Auto-fill from Module 2 if 2.04 is between 15-49 years)**<br><br>**4.00A** | Respondent Name<br>**(Auto-fill from Module 2 if 2.04 is between 15-49 years)**<br><br>**4.00B** | **Enumerator Instruction:** Ask this question only if consent has not already been obtained in Module 1<br><br>Do you agree to participate in the survey?<br><br>1 = Yes → *Continue with questions*<br>2 = No → *STOP survey for this woman, move to next women, if none END MODULE*<br>**4.00C** | Signature/Thumbprint<br><br>**4.00D** |
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| Respondent (Female 15-49 years) ID Code<br><br>**(Auto-fill from Module 2 if 2.04 is between 15-49 years and also 4.00C in Module 4 is Yes)** | In what month and year were you born? | | What was your age at your last birthday?<br><br>**RECORD AGE IN COMPLETED YEARS** | IS THE RESPONDENT BETWEEN THE AGES OF 15 AND 49 YEARS?<br><br>**IF THE INFORMATION IN 4.02 / 4.03 AND 4.04 CONFLICTS, DETERMINE WHICH IS MOST ACCURATE**<br><br>Yes = 1<br>No = 2 (>> next woman or end module) |
|---|---|---|---|---|
| | Month (mm) | Year (YYYY) | | |
| **4.01** | **4.02** | **4.03** | **4.04** | **4.05** |
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**Codes for Months**

| | | | |
|---|---|---|---|
| Jan = 01<br>Feb = 02<br>Mar = 03 | April = 04<br>May = 05<br>June = 06 | July = 07<br>Aug = 08<br>Sep = 09 | Oct = 10<br>Nov = 11<br>Dec = 12 |

**Enumerator Instruction**: Ask these questions of each woman of reproductive age (15-49 years). Accurate responses to this question may require probing. Use the probes below to elicit a more thorough listing of what the respondent ate yesterday.

**Enumerator Ask**: Now I will like to ask you about (other) liquids or foods that you ate yesterday, during the day or night. I [Enumerator] am interested in whether you ate the item even if it was combined with other foods. Please describe everything that you ate yesterday during the day or night, whether at home or outside the home.

1. Think about when you first woke up yesterday. Did you eat anything at that time? If YES: Please tell me everything you ate at that time. PROBE: Anything else? Until respondent says nothing else. If NO, continue to next question
2. What did you do after that? Did you eat anything at that time? If YES: Please tell me everything you ate at that time. PROBE: Anything else? Until respondent says nothing else. Repeat question b) above until respondent says she went to sleep until the next day. If respondent mentions mixed dishes like a porridge sauce or stew, probe:
3. What ingredients were in that (MIXED DISH)? PROBE: Anything else? Until respondent says nothing else

**Enumerator Instruction**: As the respondent recalls foods, tick the corresponding food and enter '1' in the column next to the food group for the particular woman interviewed. If the food is not listed in any of the food groups below, write the food in 4.27 labeled 'other foods'. If foods are used in small amounts for seasoning or as a condiment, they should be included in 4.24 Condiments.

Once the respondent finishes recalling foods eaten, read each food group where '1' was not circled, ask the following question and enter '1' if respondent says yes, '2' if no and '98' if don't know: Yesterday during the day or night, did you drink/eat any (FOOD GROUP ITEMS)?

| No. | Questions | Codes | | Woman I | Woman II | Woman III | Woman IV | Woman V |
|---|---|---|---|---|---|---|---|---|
| | | Yes = 1<br>No = 2<br>DK/NR = 98 | HH ID from Roster → | | | | | |
| 4.6 | Milk such as tinned, powdered, or fresh animal milk, | | | | | | | |
| 4.7 | Tea or coffee | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4.8 | Any other liquids (juice, cocoa) | | | | | | | |
| 4.10 | Bread, rice, noodles, or other foods made from grains (kenkey, banku, koko, tuo zaafi, akple, weanimix) | | | | | | | |
| No. | Questions | Codes | | Woman I | Woman II | Woman III | Woman IV | Woman V |
| | | Yes = 1<br>No = 2<br>DK/NR = 98 | HH ID from Roster → | | | | | |
| 4.11 | Pumpkin, red or yellow yams, carrots, sweet potatoes that are yellow or orange inside | | | | | | | |
| 4.12 | White potatoes, white yams, manioc, cassava, cocoyam, fufu or any other foods made from roots, tubers or plantain | | | | | | | |
| 4.13 | Any dark green, leafy vegetables (kontomire, aleefu, ayoyo, kale, cassava leaves) | | | | | | | |
| 4.14 | Ripe mangoes, pawpaw | | | | | | | |
| 4.15 | Any other fruits or vegetables [ e.g. bananas, avocados, tomatoes, oranges, apples] | | | | | | | |
| 4.16 | Liver, kidney, heart or other organ meats | | | | | | | |
| 4.17 | Any meat, such as beef, pork, lamb, goat, chicken, or duck | | | | | | | |
| 4.18 | Eggs | | | | | | | |
| 4.19 | Fresh or dried fish or shellfish [e.g. prawn, lobster] | | | | | | | |
| 4.20 | Any foods made from beans, peas, lentils, nuts, or seeds | | | | | | | |
| 4.21 | Yogurt, cheese, or other milk products | | | | | | | |
| 4.22 | Any oil, fats, or butter, or foods made with any of these | | | | | | | |
| 4.23 | Any sugary foods such as chocolates, sweets, candies, pastries, cakes, or biscuits | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| 4.24 | Condiments for flavor, such as chilies, spices, herbs or fish powder | | | | | | | |
| 4.25 | Grubs, snails or insects | | | | | | | |
| 4.26 | Foods made with red palm oil, red palm nut, or red palm nut pulp sauce | | | | | | | |
| No. | Questions | Codes | | Woman I | Woman II | Woman III | Woman IV | Woman V |
| | | Yes = 1<br>No = 2<br>DK/NR = 98 | HH ID from Roster → | | | | | |
| 4.27 | ***<u>OTHER FOODS</u>: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT INCLUDED IN ANY OF THE FOOD GROUPS ABOVE:*** | | | | | | | |
| | **End of Module** | | | | | | | |

Visit 1- Module 5: Children's Minimum Acceptable Diet (FTF Module L)

**Enumerator Instructions:** Ask of Caregivers of each Child **aged 0-23 Months** in Household. Check to see if consent to be interviewed has already been given on the cover sheet, if it has not, you must obtain permission from EACH woman/caregiver of the child. Ensure that the consent covers for children 0-5 months to enable for data collection for module 6 below.

**Enumerator read to respondent**: We would like to ask you permission to ask questions about your children and their diet. Your participation is voluntary and you may stop at any time. Your responses will be kept confidential.

| Mother or Primary Caregiver's ID (from HH Roster) | Respondent (CAREGIVER'S) Name | Do you agree to participate in the survey?<br><br>1 = Yes → *Continue with questions*<br>2 = No → *STOP survey for this woman, move to next women, if none END MODULE* | Signature/Thumbprint |
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| No | Question | Response Code | Response | | | | |
|---|---|---|---|---|---|---|---|
| | | | Child I | Child II | Child III | Child IV | Child V |
| 5.01 | MOTHER/CAREGIVER'S ID CODE FROM THE HH ROSTER | | | | | | |
| 5.02 | CHILD'S ID CODE FROM THE HH ROSTER | | | | | | |
| 5.03 | CHILD'S SEX FROM THE HH ROSTER | 1 - Male<br>2 - Female | | | | | |
| 5.04 | What is ***(CHILD'S NAME)*** full date of birth (dd/mm/yyyy)?<br><br>If the respondent does not know the exact birth date, ask for (Child's Name) health/vaccination card and record the correct birth date. | DD | | | | | |
| | | MM | | | | | |
| | | YYYY | | | | | |
| 5.05 | How old was ***(CHILD'S NAME)*** at his/her last birthday?<br><br>***RECORD AGE IN COMPLETED YEARS.*** | 0 - less than 1 year<br>1 - 1 year<br>2 - 2 or more years | | | | | |
| 5.06 | How many months old is ***(CHILD'S NAME)***?<br>***RECORD AGE IN COMPLETED MONTHS.*** | Months | | | | | |
| 5.07 | ***CHECK QUESTIONS 5.04, 5.05 AND 5.06 TO VERIFY CONSISTENCY.***<br><br>If the answer is 'NO', resolve any inconsistencies. If the birth date was recorded on a health card, this may be used as the correct data source. | 1 - Yes<br>2 - No | | | | | |
| 5.07A | Is the year recorded in **5.04** consistent with age in years recorded in **5.05**? | 1 - Yes<br>2 - No | | | | | |
| 5.07B | Are year and month of birth recorded **in 5.04** consistent with age in months recorded in **5.06**? | 1 - Yes<br>2 - No | | | | | |
| 5.08 | check question **5.06**. is the child equal to or older than 6 months and less than 24 months? | 1 - Yes >> continue with module | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 2 - No >> end module<br>98 - DK/ NA >> end module | | | | | |
| **No** | **Question** | **Response Code** | **Response** | | | | |
| | | | **Child I** | **Child II** | **Child III** | **Child IV** | **Child V** |
| 5.09 | Has ***(CHILD'S NAME)*** ever been breastfed? | 1 - Yes<br>2 - No >> skip to 5.11<br>98 - DK/NA >> skip to 5.11 | | | | | |
| 5.10 | Was ***(CHILD'S NAME)*** breastfed yesterday during the day or at night? | 1 - Yes >> skip to 5.12<br>2 - No<br>98 - DK/NA | | | | | |
| 5.11 | 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 or bottle or some other way. This can happen if a mother cannot breastfeed her own baby.<br><br>Did ***(CHILD'S NAME)*** consume breast milk in any of these ways yesterday during the day or at night? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 5.12 | Now I would like to ask you about some medicines and vitamins that are sometimes given to infants.<br><br>Was ***(CHILD'S NAME)*** given any vitamin drops or other medicines as drops yesterday during the day or at night? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5.13 | Was ***(CHILD'S NAME)*** given **ORS** yesterday during the day or at night? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| **No** | **Question** | **Response Code** | **Response** | | | | |
| | | | **Child I** | **Child II** | **Child III** | **Child IV** | **Child V** |
| **Enumerator Ask:** Now I would like to ask you about (other) liquids or foods that your child ate yesterday during the day or at night. I am interested in whether they ate the item even if it was combined with other foods. Please describe everything he or she ate yesterday during the day or night, whether at home or outside the home. Next I would like to ask you about some liquids that ***(CHILD'S NAME)*** may have had yesterday during the day or at night. | | | | | | | |
| 5.14 | Plain water? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 5.15 | Infant formula such as winning mix or commercially produced infant formula? | 1 - Yes<br>2 - No >> skip to 5.16<br>98 - DK/NR >> skip to 5.16 | | | | | |
| 5.16 | How many times **(*number*)** yesterday during the day or at night did ***(CHILD'S NAME)*** consume any formula? | 98 - Don't know | | | | | |
| 5.17 | Milk such as tinned, powdered, or fresh animal milk? | 1 - Yes<br>2 - No >> skip to 5.18<br>98 - DK/NR >> skip to 5.18 | | | | | |
| 5.18 | How many times **(*number*)** yesterday during the day or at night did ***(CHILD'S NAME)*** consume any milk? | 98-= Don't know | | | | | |
| 5.19 | Juice or juice drinks? | 1 - Yes | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5.20 | Clear broth? | 2 - No<br>98 - DK/NR | | | | | |
| 5.21 | Yogurt? | 1 - Yes<br>2 - No >> skip to 5.22<br>98 - DK/NR >> skip to 5.22 | | | | | |
| 5.22 | How many times **(*number*)** yesterday during the day or at night did ***(CHILD'S NAME)*** consume any yogurt? | 98-= Don't know | | | | | |
| 5.23 | Thin porridge? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 5.24 | Any other liquids**.** Specify | | | | | | |
| **No** | **Question** | **Response Code** | **Response** | | | | |
| | | | **Child I** | **Child II** | **Child III** | **Child IV** | **Child V** |

Now I would like to ask you about (other) liquids or foods that your child ate yesterday during the day or at night. I am interested in whether they ate the item even if it was combined with other foods. Please describe everything he or she ate yesterday during the day of night, whether at home or outside the home. **Enumerators should probe until respondent says child went to sleep at night.**

**Consumption Questions:**

Ask these questions of each caregiver for the children 6 – 23 months old under his or her care. Accurate responses to this question may require probing. Use the probes to elicit a more thorough listing of what the respondent ate yesterday.

1. Think about when you first woke up yesterday. Did your child eat anything at that time? If YES: Please tell me everything your child ate at that time. PROBE: Anything else? Until respondent says nothing else. If NO, continue to part 2)
2. What did your child do after that? Did your child eat anything at that time? If YES: Please tell me everything your child ate at that time. PROBE: Anything else? Until respondent says nothing else. Repeat question PART 2 above until respondent says the child went to sleep until the next day.
   If respondent mentions mixed dishes like a PORRIDGE, sauce or stew, probe:
3. What ingredients were in that (MIXED DISH)? PROBE: Anything else? Until respondent says nothing else.

As the respondent recalls foods, tick the corresponding food and enter '1' in the column next to the food group for the child being interviewed. If the food is not listed in any of the food groups below, write the food in 5.42 the box labeled 'other foods'. If foods are used in small amounts for seasoning or as a condiment, count them under 5.39 Condiments.

Once the respondent finishes recalling foods eaten, read each food group where '1' was not indicated, ask the following question and enter '1' if respondent says yes, '2' if no and '98' if don't know: Yesterday during the day or night, did your child drink/eat any (FOOD GROUP ITEMS)?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5.25 | Bread, rice, noodles, porridge or other foods | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | made from grains (kenkey, banku, koko, tuo zaafi, akple) | **Response Code**<br>1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 5.26 | Pumpkin, red or yellow yams, carrots, sweet potatoes that are yellow or orange inside | | | | | | |
| 5.27 | White potatoes, white yams, manioc, cassava, cocoyam, fufu or any other foods made from roots, tubers or plantain | | | | | | |
| 5.28 | Any dark green, leafy vegetables (kontomire, aleefu, ayoyo, kale, cassava leaves) | | | | | | |
| 5.29 | Ripe mangoes, pawpaw | | | | | | |
| 5.30 | Any other fruits or vegetables [ e.g. bananas, avocados, tomatoes, oranges, apples] | | | | | | |
| 5.32 | Any meat, such as beef, pork, lamb, goat, chicken, or duck | | | | | | |
| **No** | **Question** | **Response Code** | **Response** | | | | |
| | | | **Child I** | **Child II** | **Child III** | **Child IV** | **Child V** |
| 5.33 | Eggs | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 5.34 | Fresh or dried fish or shellfish [e.g. prawn, lobster] | | | | | | |
| 5.35 | Any foods made from beans, peas, lentils, nuts, or seeds | | | | | | |
| 5.36 | yogurt, cheese, or other milk products | | | | | | |
| 5.37 | Any oil, fats, or butter, or foods made with any of these | | | | | | |
| 5.38 | Any sugary foods such as chocolates, sweets, candies, pastries, cakes, or biscuits | | | | | | |
| 5.39 | Condiments for flavor, such as peppers, spices, herbs or fish powder | | | | | | |
| 5.40 | Grubs, snails or insects | | | | | | |
| 5.41 | Foods made with red palm oil, red palm nut, or red palm nut pulp sauce | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5.42 | **<u>OTHER FOODS</u>: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT INCLUDED IN THE FOOD GROUPS LISTED ABOVE:** | | | | | | |
| | ***CHECK CATEGORIES 5.23-5.41*** | If at least one 'YES' or all 'DK/NR'>>L44<br>If all 'NO'>>L43 | | | | | |
| 5.43 | Did ***(<u>CHILD'S</u> NAME)*** eat any solid, semi-solid, or soft foods yesterday during the day or at night?<br>***IF 'YES' PROBE*:** What kind of solid, semi-solid, or soft foods did ***(<u>CHILD'S</u> NAME)*** eat? | Yes = 1 >> go back to 5.23-5.40 and record foods eaten. Then continue with 5.44<br>No = 2 >> end module<br>DK/NR = 98 >> end module | | | | | |
| 5.44 | How many times **(number)** did ***<u>(CHILD'S NAME)</u>*** eat solid, semi-solid, or soft foods other than liquids yesterday during the day or at night? | 98 - Don't know | | | | | |
| 5.45 | **End of Module** | | | | | | |

**Visit 1- Module 6: Exclusive Breastfeeding (FTF Module K)**

**Enumerator**: Ask of Caregivers of each child aged 0-5 months (up to end of five months old, less than six months) in Household.

| No | Question | Response Code | Response | | | | |
|---|---|---|---|---|---|---|---|
| | | | Child I | Child II | Child III | Child IV | Child V |
| 6.01 | MOTHER/CAREGIVER ID CODE FROM THE HH ROSTER | | | | | | |
| 6.02 | CHILD'S ID CODE FROM THE HH ROSTER | | | | | | |
| 6.03 | CHILD'S SEX FROM THE HH ROSTER | 1 - Male<br>2 - Female | | | | | |
| 6.04 | What is ***(CHILD'S NAME)*** full date of birth (dd/mm/yyyy)?<br><br>If the respondent does not know the exact birth date, ask for (Child's Name) health/vaccination card and record the correct birth date. If day is not known, record "98" for Day | DD | | | | | |
| | | MM | | | | | |
| | | YYY | | | | | |
| 6.05 | How many months old is ***(NAME)***?<br>***RECORD AGE IN COMPLETED MONTHS*** | Months | | | | | |
| 6.06 | ***CHECK QUESTIONS 6.04 AND 6.05 TO VERIFY CONSISTENCY***<br><br>If the answer to 6.06A or 6.06B is 'NO', resolve any inconsistencies. If the birth date was recorded on a health card, this may be used as the correct data source. | | | | | | |
| 6.07 | Are year and month of birth recorded **in 6.04** consistent with age in months recorded in 6**.05**? | 1 - Yes<br>2 - No | | | | | |
| 6.08 | check question **6.06** and **6.07** is the child less than 6 months (i.e. 0-5 months? | 1 - Yes >> continue<br>2 - No >> end module<br>98 - DK >> end module | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6.09 | Has ***(CHILD'S NAME)*** ever been breastfed? | 1 - Yes<br>2 - No >> skip to 6.11<br>98 - DK/NR >> skip to 6.11 | | | | | |
| No | Question | Response Code | Response | | | | |
| | | | Child I | Child II | Child III | Child IV | Child V |
| 6.10 | Was ***(CHILD'S NAME)*** breastfed yesterday during the day or at night? | 1 - Yes >> skip to 6.12<br>2 - No<br>98 - DK/NR | | | | | |
| 6.11 | 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 or bottle or some other way. This can happen if a mother cannot breastfeed her own baby.<br><br>Did ***(CHILD'S NAME)*** consume breast milk in any of these ways yesterday during the day or at night? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 6.12 | Now I would like to ask you about some medicines and vitamins that are sometimes given to infants.<br><br>Was ***(CHILD'S NAME)*** given any vitamin drops or other medicines as drops yesterday during the day or at night? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 6.13 | Was ***(CHILD'S NAME)*** given **ORS** yesterday during the day or at night? | | | | | | |
| **Consumption Questions:** **NOTE TO ENUMERATOR**: ***READ THE QUESTIONS BELOW. READ THE LIST OF LIQUIDS ONE BY ONE AND MARK YES OR NO, ACCORDINGLY.***<br><br>Next I would like to ask you about some liquids that ***(CHILD'S NAME)*** may have had yesterday during the day or at night. Did ***(CHILD'S NAME)*** have any (***ITEM FROM LIST***)?: ***READ THE LIST OF LIQUIDS STARTING WITH 'PLAIN WATER'*** | | | | | | | |
| 6.14 | Plain water? | 1 - Yes | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6.15 | Infant formula such as winning mix or commercially produced infant formula? | 2 - No<br>98 - DK/NR | | | | | |
| 6.16 | Milk such as tinned, powdered, or fresh animal milk? | | | | | | |
| 6.17 | Juice or juice drinks? | | | | | | |
| 6.18 | Clear broth? | | | | | | |
| No | Question | Response Code | Response | | | | |
| | | | Child I | Child II | Child III | Child IV | Child V |
| 6.19 | Yogurt? | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 6.20 | Thin porridge? | | | | | | |
| 6.21 | Any other liquids? Specify: | | | | | | |

**ENUMERATOR:**
Please describe everything that ***(CHILD'S NAME)*** ate yesterday during the day or night, whether at home or outside the home.

1. Think about when ***(CHILD'S NAME)*** first woke up yesterday. Did ***(CHILD'S NAME)***eat anything at that time? ***IF YES****:* Please tell me everything***(CHILD'S NAME)*** ate at that time. ***PROBE***: Anything else? ***UNTIL RESPONDENT SAYSNOTHING ELSE.IF NO, CONTINUE TO PART b)***
2. What did ***(CHILD'S NAME)*** do after that? Did ***(CHILD'S NAME)*** eat anything at that time? ***IF YES****:* Please tell me everything ***(CHILD'S NAME)*** ate at that time. ***PROBE***: Anything else? ***UNTIL RESPONDENT SAYSNOTHING ELSE.***

***REPEAT QUESTION 2) ABOVE UNTIL RESPONDENT SAYS THE CHILD WENT TO SLEEP UNTIL THE NEXT DAY.IF RESPONDENT MENTIONS MIXED DISHES LIKE A PORRIDGE, SAUCE OR STEW,PROBE:***

3. What ingredients were in that (***MIXED DISH***)? ***PROBE***: Anything else? ***UNTIL RESPONDENT SAYSNOTHING ELSE.***

***AS THE RESPONDENT RECALLS FOODS, UNDERLINE THE CORRESPONDING FOOD AND ENTER 1 IN THE RESPONSE BOX IN THE COLUMN NEXT TO THE FOOD GROUP. IF THE FOOD IS NOT LISTED IN ANY OF THE FOOD GROUPS BELOW, WRITE THE FOOD IN THE BOX LABELED 'OTHER FOODS'. IF FOODS ARE USED IN SMALL AMOUNTS FOR SEASONING OR AS A CONDIMENT, INCLUDE THEM UNDER THE CONDIMENTS FOOD GROUP.***
***ONCE THE RESPONDENT FINISHES RECALLING FOODS EATEN, READ EACH FOOD GROUP WHERE '1' WAS NOT ENTERED IN THE RESPONSE BOX, ASK THE FOLLOWING QUESTION AND ENTER '1' IF RESPONDENT SAYS YES, '0' IF NO AND '9' IF DON'T KNOW:***

Enumerator Ask: Yesterday during the day or night, did ***(NAME)*** drink/eat any (***FOOD GROUP ITEMS***)?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6.22 | Bread, rice, noodles, porridge or other foods made from grains (kenkey, banku, koko, tuo zaafi, akple) | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 6.23 | Pumpkin, red or yellow yams, carrots, sweet potatoes that are yellow or orange inside? | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6.24 | White potatoes, white yams, ~~manioc~~, cassava, cocoyam, fufu or any other foods made from roots, tubers or plantain | | | | | | |
| 6.25 | Any dark green, leafy vegetables (kontomire, aleefu, ayoyo, kale, cassava leaves) | | | | | | |
| 6.26 | Ripe mangoes, pawpaw | | | | | | |
| 6.27 | Any other fruits or vegetables [ e.g. bananas, avocados, tomatoes, oranges, apples] | | | | | | |
| 6.28 | Liver, kidney, heart or other organ meats | | | | | | |
| No | Question | Response Code | Response | | | | |
| | | | Child I | Child II | Child III | Child IV | Child V |
| 6.29 | Any meat, such as beef, pork, lamb, goat, chicken, or duck | 1 - Yes<br>2 - No<br>98 - DK/NR | | | | | |
| 6.30 | Eggs | | | | | | |
| 6.31 | Fresh or dried fish or shellfish [e.g. prawn, lobster] | | | | | | |
| 6.32 | Any foods made from beans, peas, lentils, nuts, or seeds | | | | | | |
| 6.33 | Cheese or other milk products | | | | | | |
| 6.34 | Any oil, fats, or butter, or foods made with any of these | | | | | | |
| 6.35 | Any sugary foods such as chocolates, sweets, candies, pastries, cakes, or biscuits | | | | | | |
| 6.36 | Condiments for flavor, such as chilies, spices, herbs or fish powder | | | | | | |
| 6.37 | Grubs, snails or insects | | | | | | |
| 6.38 | Foods made with red palm oil, red palm nut, or red palm nut pulp sauce | | | | | | |
| 6.39 | ***OTHER FOODS*: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT IN THE LIST BELOW:** | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6.40 | **Check Questions 6.22–6.38. If all 'NO' GO TO 6.41 If at least one 'YES' or all 'DK' GO TO 6.42** | | | | | | |
| 6.41 | Did **(CHILD'S NAME)** eat any solid, semi-solid, or soft foods yesterday during the day or at night?<br><br>**IF 'YES' PROBE:** What kind of solid, semi-solid, or soft foods did **(CHILD'S NAME)** eat? | 1 - Yes >>go back to 6.22-6.38 and record foods eaten then continue with 6.41<br>2 - No >> end module<br>98 - DK/NR >> end module | | | | | |
| 6.42 | How many times did ***(CHILD'S NAME)*** eat solid, semi-solid, or soft foods other than liquids yesterday during the day or at night? | | | | | | |
| | **End of Module** | | | | | | |

## Visit 1- Module 7: Anthropometry for women (FTF Module M.)

Enumerator: Apply this module to each women of reproductive age (15-49 years) in the Household.

| Woman's ID from HH Roster | Name of Woman | Do you agree to be measured?<br><br>1 - Yes >> Continue<br>2 - No >>Next woman, if none end module | **WEIGHT IN KILOGRAMS** | **HEIGHT IN CENTIMETERS** | Are you pregnant?<br><br>1 - Yes<br>2 - No<br>98 - DK |
|---|---|---|---|---|---|
| **7.1** | **7.2** | **7.3** | **7.4** | **7.5** | **7.6** |
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**Visit 1- Module 8: Anthropometry for children (FTF Module N.)**

Enumerator: Apply to each child aged 0 – 59 months in the Household.

| **Child's ID #** (from roster) | **Parent Agree to weigh and Measure child**?<br><br>Yes = 1<br>No = 2 >> End Module | **Child Sex**<br><br>1 - Male<br>2 - Female | In what day, month and year was <**CHILD'S NAME**> born? | | | **Child's Age** (in Months) | **Child less than 60 months**?<br><br>1 - Yes<br>2 - No>> End Module<br>98 - DK/NR >> End Module | **Child's Weight** (in Kilograms ) | **Child Height** (in Cm) Children < 24 months measure lying down; children >= 24 months measure standing up | **Child Edema**<br><br>Yes = 1<br>No = 2 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Day<br><br>(DD) | Month<br><br>(MM) | Year<br><br>(YYYY) | | | | | |
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## Visit 1- Module 9: Dwelling Characteristics (FTF Module D)

***Enumerator: Ask these questions about all household members.*** *Ask the primary or secondary respondent, whoever is most knowledgeable about the household dwelling characteristics.*

| No | Question | Response | Response Codes | |
|---|---|---|---|---|
| **9.01.** | **ENUMERATOR: OBSERVE (DO NOT ASK)**<br><br>Roof top material (outer covering): | | 1. Palm leaves/raffia/thatch<br>2. Wood<br>3. Corrugated metal sheets<br>4. Asbestos/slate | 5. Roofing tiles<br>6. Mud bricks/earth<br>7. Bamboo<br>8. Other |
| **9.02.** | **ENUMERATOR: OBSERVE (DO NOT ASK)**<br><br>Floor material: | | 1. Earth/mud/mud bricks<br>2. Wood<br>3. Stone<br>4. Cement/concrete<br>5. Burnt bricks | 6. Vinyl tiles<br>7. Ceramic/marble tiles<br>8. Terrazzo<br>9. Other |
| **9.03.** | **ENUMERATOR: OBSERVE (DO NOT ASK)**<br><br>Exterior Walls: | | 1. Mud/mud bricks<br>2. Wood/bamboo<br>3. Metal sheets/slate/asbestos<br>4. Stones<br>5. Burnt bricks | 6. Cement/sandcrete blocks<br>7. Thatch<br>8. Cardboard<br>9. Other |
| **9.04.** | **ENUMERATOR: OBSERVE (DO NOT ASK)** State of the dwelling: | | 1. In excellent repair, no sign of wear<br>2. In good shape, some minor wear-and-tear or damage<br>3. In moderate condition, some damage and moderate wear-and-tear | 4. In poor shape, much damage<br>5. In very bad shape |
| **9.05.** | IF THE HOUSEHOLD SHARES THE SPACE WITH OTHER HOUSEHOLDS: How many other households live in this | | | |

| | | | | |
|---|---|---|---|---|
| | same house or apartment? **(Enter 0 if not shared)** | | | |
| **9.06.** | This dwelling is [READ OPTIONS]: | | 1. Rented<br>2. Owned | 3. Borrowed (no payment)<br>4. Other |
| **9.07.** | How many rooms are there in this dwelling? (Do not count bathrooms, hallways, garage, toilet, cellar, kitchen) | | | |
| **No** | **Question** | **Response** | **Response Codes** | |
| **9.08.** | How many rooms are used exclusively for sleeping? | | | |
| **9.09.** | What is the main type of toilets your household uses? | | 1. Flush toilet (WC)<br>2. Pit Latrine<br>3. KVIP<br>4. Pan/bucket<br>5. Public toilet (flush/bucket/KVIP) | 6. Toilet in another house<br>7. No toilet facility (bush, beach)<br>8. Other |
| **9.10.** | Is there a water source inside the dwelling? | | 1. Yes<br>2. No | |
| **9.11.** | What is the main source of water for general use for your household | | 1. Piped into dwelling<br>2. Piped into plot/yard<br>3. Public tap (someone else's private tap)<br>4. Tube well/borehole<br>5. Protected dug well<br>6. Protected spring | 7. Rain water collection<br>8. Unprotected dug well/springs<br>9. River/ponds/streams<br>10. Tankers-truck/vendor<br>11. Bottled water **>>9.15**<br>12. Other (specify) |
| **9.12.** | What is the main source of drinking water for your household? | | | |
| **9.13.** | Do you use a process to prepare the water used for drinking? | | 1. Yes<br>2. No **>> go to 9.15** | |
| **9.14.** | What is the process through which you prepare the water used for drinking? | | 1. Filtered<br>2. Boiled<br>3. Filtered and boiled | 4. Iodine or other mineral/natural treatments<br>5. UV treated<br>6. Other |
| **9.15.** | Does this dwelling have access to electricity? | | 1. Yes<br>2. No | |

| | | | | |
|---|---|---|---|---|
| **9.16.** | What is the main lighting source for your household? | | 1. Electricity via national grid<br>2. Solar panel<br>3. Piped or liquid propane gas (biogas)<br>4. Private generator | 5. Public or shared generator<br>6. Lanterns/candles/paraffin<br>7. Fire lit sticks, grass or pit<br>8. Other |
| **9.17.** | What is the main source of cooking fuel for your household? | | 1. Electricity<br>2. Piped or liquid propane gas (biogas)<br>3. Kerosene<br>4. Charcoal | 5. Firewood<br>6. Animal dung<br>7. Agricultural crop residue<br>8. Other |
| **No** | **Question** | **Response** | **Response Codes** | |
| **9.18** | Do you cook in an external kitchen or internal kitchen? | | 1. External<br>2. Internal | |
| **9.19.** | What is the main destination of household waste for this household? | | 1. Collected by local authority<br>2. Collected by private firm<br>3. Own garbage pit or heap<br>4. Own burned or buried<br>5. Public garbage | 6. Dumped in vacant land/property<br>7. Dumped in river, lake or sea<br>8. Other |

**Visit I - Module 10: Women's Empowerment in Agriculture Index (FtF Module H)**

**Enumerator Note**: This questionnaire should be administered separately to the primary and secondary respondents. Complete the consent form if consent has not been taken earlier in Module 1 above. Ask to conduct the interview for this module in private or where other members of the household cannot overhear or contribute answers. Do not attempt to make responses between the primary and secondary respondent the same—it is ok for them to be different. Ensure that you code the outcome of the interview at the end of interview for each target respondent under this module.

**Visit I - Module 10.1: Household Identification**

| Household Identification | Response/Code | | Household Identification | Response/Code |
|---|---|---|---|---|
| **10.1.01**. Household Identification: | | | **10.04.** Type of household (If possible, auto fill this field after name has been selected from 11.1.02)<br><br>Male and female adult ……..1<br>Female adult only……2 | |
| **10.1.02.** Name of respondent currently being interviewed (Select from drop down list):<br><br>**Surname, First name:** | | | **10.1.05.** Ability to be interviewed alone: | |
| **10.1.03.** Sex of respondent (Auto fill as soon as name is selected from 11.1.02)**:**<br><br>Male ……..1<br>Female ……2 | | | **Codes for 10.1.05**<br>Alone ……1<br>With adult females present……2<br>With adult males present……3<br>With adults mixed sex present…… ……4<br>With children present …… ……5<br>With adults mixed sex and children present…..6 | |

**Visit I - Module 10.2: Role in Household Decision-making around production and income generation (FtF Module H2).**

| Activity | | Did you (singular) participate in [ACTIVITY] in the past 12 months (that is during the last [one/two] cropping seasons)?<br><br>Yes ..... 1<br>No ..... 2 >> next activity | How much input did you have in making decisions about [ACTIVITY]? | How much input did you have in decisions on the use of income generated from [ACTIVITY] |
|---|---|---|---|---|
| Activity Code | Activity Description | **10.2.01** | **10.2.02** | **10.2.03** |
| **A** | Food crop farming: crops that are grown primarily for household food consumption | | | |
| **B** | Cash crop farming: crops that are grown primary for sale in the market | | | |
| **C** | Livestock raising | | | |
| **D** | Non-farm economic activities: Small business, self-employment, buy-and-sell | | | |
| **E** | Wage and salary employment: in-kind or monetary work both agriculture and other wage work | | | |
| **F** | Fishing or fishpond culture | | | |
| | | **Codes for 10.2.02 and 10.2.03: Input into decision making**<br>No input ..... 1<br>Input into very few decisions ..... 2<br>Input into some decisions ..... 3<br>Input into most decisions ..... 4<br>Input into all decisions ..... 5<br>No decision made..... 6 | | |

## Visit I - Module 10.3: Access to Productive Capital (FtF Module H3)

| | Productive Capital | Does anyone in your household currently have any [ITEM]?<br><br>Yes ..... 1<br>No..... 2 >> next item | How many of [ITEM] does your household currently have? | Who would you say owns most of the [ITEM]? | Who would you say can decide whether to sell [ITEM] most of the time? | Who would you say can decide whether to give away [ITEM] most of the time? | Who would you say can decide to mortgage or rent out [ITEM] most of the time? | Who contributes most to decisions regarding a new purchase of [ITEM]? |
|---|---|---|---|---|---|---|---|---|
| | Productive Capital | **10.3.01a** | **10.3.01b** | **10.3.02** | **10.3.03** | **10.3.04** | **10.3.05** | **10.3.06** |
| **A** | Agricultural land (pieces) | | | | | | | |
| **B** | Large livestock (oxen, cattle) | | | | | | | |
| **C** | Small livestock (goats, pigs, sheep) | | | | | | | |
| **D** | Chickens, Ducks, Turkeys, Pigeons | | | | | | | |
| **E** | Fish pond or fishing equipment | | | | | | | |
| **F** | Farm equipment (non-mechanized) | | | | | | | |
| **G** | Farm equipment (mechanized) | | | | | | | |
| **H** | Nonfarm business equipment | | | | | | | |
| **I** | House (and other structures) | | | | | | | |
| **J** | Large consumer durables (fridge, TV, sofa) | | | | | | | |
| **K** | Small consumer durables (radio, cookware) | | | | | | | |
| **L** | Cell phone | | | | | | | |
| **M** | Other land not used for agricultural purposes (pieces, residential or commercial land) | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **N** | Means of transportation (bicycle, motorcycle, car) | | | | | | | |

| Codes for 10.3.02 to 10.3.06: Decision-making and control over productive capital | | |
|---|---|---|
| Self ..... ...1 | Self and other household member(s).....5 | Self and other outside people.....8 |
| Partner/Spouse..... ...2 | Partner/Spouse and other household member(s).....6 | Partner/Spouse and other outside people.....9 |
| Self and partner/spouse jointly .... ...3 | Someone (or group of people) outside the household...7 | Self, partner/spouse and other outside people.....10 |
| Other household member .....4 | | |

## Visit I - Module 10.3 Continued: Access to Credit (FtF Module H3)

| **Lending sources** | | Has anyone in your household taken any loans or borrowed cash/in-kind from [SOURCE] in the past 12 months? | Who made the decision to borrow from [SOURCE]? | Who makes the decision about what to do with the money/ item borrowed from [SOURCE]?<br><br>>> Next source | If more credit had been available from this source, would you have used it?<br><br>1 = Yes >> Next lending source<br><br>2 = No | Why would you not have borrowed more from [SOURCE]?<br><br>Select code then >> Next source | Did you want to borrow or get a loan from [SOURCE] in the last 12 months but did not?<br><br>1 = Yes<br><br>2 = No >> Next source | Why were you not able to borrow from [SOURCE]? |
|---|---|---|---|---|---|---|---|---|
| Lending source names | | **10.3.07** | **10.3.08** | **10.3.09** | **10.3.10A** | **10.3.10B** | **10.3.11A** | **10.3.11B** |
| **A** | Non-governmental organization (NGO) | | | | | | | |
| **B** | Informal lender | | | | | | | |
| **C** | Formal lender (bank/financial institution) | | | | | | | |
| **D** | Friends or relatives | | | | | | | |
| **E** | Group based micro-finance or lending including Village Sercies and Loan Associations/ VSLAs/Susu etc. | | | | | | | |

| Codes for 10.3.07 Taken loans | Codes for 10.3.08 & 10.3.09: | Codes for 10.3.10B/10.311B: Borrowing |
|---|---|---|
| Yes, cash..... 1<br>Yes, in-kind..... 2<br>Yes, cash and in-kind..... 3<br>No ..... 4 >> 12.3.11<br>Don't know.....5 >> 12.3.11 | Self.....1<br>Partner/Spouse .....2<br>Self and partner/spouse jointly.....3<br>Other household member.....4<br>Self and other household member(s).....5<br>Partner/Spouse and other household member(s).....6<br>Someone (or group of people) outside the household.....7<br>Self and other outside people.....8<br>Partner/Spouse and other outside people.....9<br>Self, partner/spouse and other outside people.....10 | Have enough money.....1<br>Afraid of losing collateral.....2<br>Do not have enough collateral/did not qualify for the loan.....3<br>Afraid cannot pay back the money.....4<br>Interest rate/other costs too high.....5<br>Not allowed to borrow/family dispute in borrowing decision.....6<br>Place of lender is too far.....7<br>Other, specify.....8 |

## Visit I - Module 10.4: Individual leadership and influence in the community (FtF Module H4)

| Q.No. | Question | Response | Response options/Instructions |
|---|---|---|---|
| **10.4.01** | Do you feel comfortable speaking up in public to help decide on infrastructure (like small wells, roads, water supplies) to be built in your community? | | No, not at all comfortable .....1<br>Yes, but with a great deal of difficulty...2<br>Yes, but with a little difficulty.....3<br>Yes, fairly comfortable .....4<br>Yes, very comfortable.....5 |
| **10.4.02** | Do you feel comfortable speaking up in public to ensure proper payment of wages for public works or other similar programs? | | |
| **10.4.03** | Do you feel comfortable speaking up in public to protest the misbehavior of authorities or elected officials? | | |

## Visit I - Module 10.4 continued: Group membership and influence in the group (FtF Module H4)

| Group membership | | Is there a [GROUP] in your community?<br><br>1 = Yes<br>2 = No >> next group | Are you an active member of this [GROUP]?<br>1 = Yes<br>2 = No >> **12.4.07** | How much input do you have in making decisions in this [GROUP]?<br><br>(>> next group) | Why are you not a member of this [GROUP]? |
|---|---|---|---|---|---|
| | Group Categories | **10.4.04** | **10.4.05** | **10.4.06** | **10.4.07** |
| **A** | Agricultural / livestock/ fisheries producer's group (including marketing groups) | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **B** | Water users' group | | | | |
| **C** | Forest users' group | | | | |
| **D** | Credit or microfinance group (including Susu/ VSLAs) | | | | |
| **E** | Mutual help or insurance group (including burial societies) | | | | |
| **F** | Trade and business association | | | | |
| **G** | Civic groups (improving community) or charitable group (helping others) | | | | |
| **H** | Local government | | | | |
| **I** | Religious group | | | | |
| **J** | Other women's group (only if it does not fit into one of the other categories) | | | | |
| **K** | Other (specify) | | | | |

**10.4.06: Input into decisions**

No input ..... 1
Input into very few decisions ..... 2
Input into some decisions ..... 3
Input into most decisions..... 4
Input into all decisions.....5

**10.4.07: Why not member of group**

Not interested.....1
No time ..... ...2
Unable to raise entrance fees..... ...3
Unable to raise reoccurring fees... ...4
Group meeting location not convenient. 5
Family dispute/unable to join..... ...6
Not allowed because of sex ..... ...7
Not allowed because of other reason ...8
Other, specify.....9

## Visit I - Module 10.5: Decision Making (FtF Module H5)

| | | When decisions are made regarding the following aspects of household life, who is it that normally takes the decision? | To what extent do you feel you can make your own personal decisions regarding these aspects of household life if you want(ed) to?<br><br>**Enumerator**: Ask only if 10.5.01 is 1 and respondent is female, 10.5.01 is 2 and respondent is male, or 10.5.01 is 3-7. |
|---|---|---|---|
| **ENUMERATOR**: Ask 10.5.01 for all categories of activities before asking 10.5.02. Do not ask 10.5.02 if 10.5.01 response is 1 and respondent is male OR 10.5.01 response is 2 and respondent is female.<br><br>If household does not engage in that particular activity, enter 98 and proceed to next activity. | | | |
| | | **10.5.01** | **10.5.02** |
| **A** | Agricultural production? | | |
| **B** | What inputs to buy for agricultural production? | | |
| **C** | What types of crops to grow for agricultural production? | | |
| **D** | When or who would take crops to the market? | | |
| **E** | Livestock raising? | | |
| **F** | Non-farm business activity? | | |
| **G** | Your own (singular) wage or salary employment? | | |
| **H** | Major household expenditures? (such as a large appliance for the house like refrigerator) | | |
| **I** | Minor household expenditures? (such food for daily consumption or other household needs) | | |

| **Codes for 10.5.01: Who makes decision** | **Codes for 10.5.02: Extent of participation in decision making** |
|---|---|
| Main male or husband…… ..... ……..1<br>Main female or wife ..... ……..2<br>Husband and wife jointly ..... ……3<br>Someone else in the household..... ……4<br>Jointly with someone else inside the household ……5<br>Jointly with someone else outside the household ……6<br>Someone outside the household/other ..... ……7<br>Household does not engage in activity/Decision not made98 | Not at all ……1<br>Small extent……..2<br>Medium extent……..3<br>To a high extent……4 |

## Visit I - Module 10.5 continued: Motivation for Decision Making (FtF Module H5)

| **ENUMERATOR**: This set of questions is very important. I am going to give you some reasons why you act as you do in the aspects of household life I just mentioned. You might have several reasons for doing what you do and there is no right or wrong answer. Please tell me how true it would be to say:<br><br>If household does not engage in that particular activity, enter 98 and proceed to next activity. | | My actions in [ASPECT] are determined by the situation. I don't really have an option.<br><br>[READ OPTIONS] | My actions in [ASPECT] are partly because I will get in trouble with someone if I act differently.<br><br>[READ OPTIONS] | Regarding [ASPECT] I do what I do so others don't think poorly of me.<br><br>[READ OPTIONS] | Regarding [ASPECT] I do what I do because I personally think it is the right thing to do.<br><br>.<br>[READ OPTIONS] |
|---|---|---|---|---|---|
| | | **10.5.03** | **10.5.04** | **10.5.05** | **10.5.06** |
| **A** | Agricultural production | | | | |
| **B** | Getting inputs for agricultural production | | | | |
| **C** | The types of crops to grow for agricultural production | | | | |
| **D** | Taking crops to the market (or not) | | | | |
| **E** | Livestock raising | | | | |
| **F** | Nonfarm business activity | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **G** | Your own (singular) wage or salary employment | | | | |
| **H** | Major household expenditures (such as a large appliance for the house like refrigerator) | | | | |
| **I** | Minor household expenditures (such food for daily consumption or other household needs) | | | | |
| | | **Codes for 10.5.03/10.5.04/10.5.05/10.5.06: Motivation for activity**<br><br>Never true .....1<br>Not very true .....2<br>Somewhat true.....3<br>Always true.....4<br>Household does not engage in activity Decision not made.....98 | | | |

## Visit I - Module 10.6: Time Allocation (FtF Module H6)

**Enumerator**: Please record a log of the activities for the individual in the last complete 24 hours (starting yesterday morning at 4 am, finishing 3 am of the current day). The time intervals are marked in 15 minutes intervals. One to two activities can be marked for each time period by selecting the corresponding time period from the drop down menu. If two activities are marked, select from the activity status drop down list which of the two activities is primary and or secondary. Please administer using the protocol in the enumeration manual.

| | Activity<br>DD | Start Time<br>DD | End Time<br>DD | Status of Activity<br>DD |
|---|---|---|---|---|
| **A** | Sleeping and resting | | | |
| **B** | Eating and drinking | | | |
| **C** | Personal care | | | |
| **D** | School (also homework) | | | |
| **E** | Work as employed | | | |
| **F** | Own business | | | |
| **G** | Farming/livestock/fishing | | | |
| **H** | Shopping/getting service (including health services) | | | |

| | | | | |
|---|---|---|---|---|
| **I** | Weaving, sewing, textile care | | | |
| **J** | cooking | | | |
| **K** | Domestic work (including fetching wood and water) | | | |
| **L** | Care for children/adults/elderly | | | |
| **M** | Traveling and commuting | | | |
| **N** | Watching TV/listening to radio/reading | | | |
| **O** | Exercising | | | |
| **P** | Social activities and hobbies | | | |
| **Q** | Religious activities | | | |
| **R** | Others Specify…… | | | |
| | | 4:00am<br>4:16am<br>-<br>-<br>3:00am<br>3:16am<br>3:31am | 4:15am<br>4:30am<br>-<br>-<br>3:15am<br>3:30am<br>3:45am | 1 - Primary<br>2 - Secondary |

## Visit I - Module 10.6 Continued: Satisfaction with Time Allocation (FtF Module H6)

| Q. No. | Question | Response | Response options/Instructions |
|---|---|---|---|
| **10.6.02** | How satisfied are you with your available time for leisure activities like visiting neighbors, watching TV, listening to the radio, seeing movies or doing sports? | | **READ:** Please give your opinion on a scale of 1 to 10.<br><br>1 means you are not satisfied and 10 means you are very satisfied. If you are neither satisfied or dissatisfied this would be in the middle or 5 on the scale. |

| **Enumerator:**<br><br>Complete this table after you have finished interview the individual for module 12. Go back Module 12.1 if this individual is the first (primary or secondary) respondent to module 12**.** | **Response** | **Codes** |
|---|---|---|
| **10.1.06.** Outcome of interview (module 10 for respondent) | | Completed .....1<br>Incomplete .....2<br>Absent .....3<br>Refused.....4<br>Could not locate.....5 |

## Visit II - Module 11: Household Consumption Expenditure (FTF Module G.)

**Enumerator: Ask these questions about all household members.** Ask the primary or secondary respondent, whoever is most knowledgeable about the food the household members have eaten in the past week, as well as any non-food items that household members have bought. As much as possible, look for the household member who has adequate information on household food consumption and purchases over the past week. The same respondent(s) should be asked questions in **11.1-10.6.**

## Visit II - Module 11.1: Food Consumption Over Past 7 Days (FTF Module G1.)

| Over the past one week (7 days), did you or others in your household eat any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2 >>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week? (if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| **Cereals, Grains and Cereal Products** | | 1-15 | | | | | | | | | |
| Maize normal flour | | 01 | | | | | | | | | |
| Maize dough | | 02 | | | | | | | | | |
| Green maize (fresh maize cob) | | 03 | | | | | | | | | |
| Rice (paddy, grain) | | 04 | | | | | | | | | |
| Sorghum/Guinea corn | | 05 | | | | | | | | | |
| Millet grain | | 06 | | | | | | | | | |
| Millet flour | | 07 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Other grains | | 08 | | | | | | | | | |
| Other flours | | 09 | | | | | | | | | |
| Bread | | 10 | | | | | | | | | |
| Biscuits | | 11 | | | | | | | | | |
| Over the past one week (7 days), did you or others in your household eaten any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2>>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week?<br>(if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| Spaghetti, macaroni, pasta | | 12 | | | | | | | | | |
| Breakfast cereal | | 13 | | | | | | | | | |
| Infant feeding cereals | | 14 | | | | | | | | | |
| Other (specify) | | 15 | | | | | | | | | |
| **Roots, Tubers, and Plantains** | | 16-29 | | | | | | | | | |
| Cassava tubers | | 21 | | | | | | | | | |
| Cassava-gari | | 22 | | | | | | | | | |
| Cassava flour | | 23 | | | | | | | | | |
| Cassava (other forms) | | 24 | | | | | | | | | |
| Yam | | 25 | | | | | | | | | |
| Cocoyam | | 26 | | | | | | | | | |
| Plantain | | 27 | | | | | | | | | |
| Potatoes (Sweet & other potato) | | 28 | | | | | | | | | |
| Other (specify) | | 29 | | | | | | | | | |
| **Nuts and Pulses** | | 30-38 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bambara beans | | 30 | | | | | | | | | |
| Cowpea | | 31 | | | | | | | | | |
| Pigeon pea | | 32 | | | | | | | | | |
| Groundnut (roasted or raw) | | 33 | | | | | | | | | |
| Soya beans | | 34 | | | | | | | | | |
| Other legumes/pulses | | 35 | | | | | | | | | |
| Over the past one week (7 days), did you or others in your household eaten any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2>>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week?<br>(if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| Palm nuts | | 36 | | | | | | | | | |
| Coconut | | 37 | | | | | | | | | |
| Other Nuts | | 38 | | | | | | | | | |
| **Vegetables** | | 39-52 | | | | | | | | | |
| Onions | | 39 | | | | | | | | | |
| Tomatoes | | 40 | | | | | | | | | |
| Carrots | | 41 | | | | | | | | | |
| Cabbage/Lettuce | | 42 | | | | | | | | | |
| Okro | | 43 | | | | | | | | | |
| Garden eggs/egg plant | | 44 | | | | | | | | | |
| Pepper | | 45 | | | | | | | | | |
| Nkontonmire | | 46 | | | | | | | | | |
| Cucumber | | 47 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pumpkin | | 48 | | | | | | | | | |
| Mushroom | | 49 | | | | | | | | | |
| Other cultivated green leafy vegetables | | 50 | | | | | | | | | |
| Gathered wild green leaves | | 51 | | | | | | | | | |
| Other vegetables (specify: _____) | | 52 | | | | | | | | | |
| Over the past one week (7 days), did you or others in your household eaten any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2>>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week?<br>(if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| **Meat, Fish and Animal products** | | 53-68 | | | | | | | | | |
| Eggs | | 53 | | | | | | | | | |
| Fresh Fish and Shellfish | | 54 | | | | | | | | | |
| Dried Fish | | 55 | | | | | | | | | |
| Smoked Fish | | 56 | | | | | | | | | |
| Beef | | 57 | | | | | | | | | |
| Goat | | 58 | | | | | | | | | |
| Pork | | 59 | | | | | | | | | |
| Mutton | | 60 | | | | | | | | | |
| Chicken | | 61 | | | | | | | | | |
| Other poultry - guinea fowl, doves | | 62 | | | | | | | | | |
| Small animal- rabbit, squirrels, etc | | 63 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Wild game | | 64 | | | | | | | | | |
| Game birds | | 65 | | | | | | | | | |
| Snail | | 66 | | | | | | | | | |
| Tinned meat or fish | | 67 | | | | | | | | | |
| Other (specify) | | 68 | | | | | | | | | |
| **Fruits** | | 68-79 | | | | | | | | | |
| Mangoes | | 69 | | | | | | | | | |
| Bananas | | 70 | | | | | | | | | |
| Citrus (oranges, tangerine, etc. | | 71 | | | | | | | | | |
| Pineapple | | 72 | | | | | | | | | |
| Over the past one week (7 days), did you or others in your household eaten any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2>>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week?<br>(if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| Pawpaw | | 73 | | | | | | | | | |
| Guava | | 74 | | | | | | | | | |
| Avocado Pears | | 75 | | | | | | | | | |
| Water Melon | | 76 | | | | | | | | | |
| Apple | | 77 | | | | | | | | | |
| Wild fruit (shea, dawadawa, etc.) | | 78 | | | | | | | | | |
| Other fruits (specify) | | 79 | | | | | | | | | |
| **Milk and Milk Products** | | 79-86 | | | | | | | | | |
| Fresh milk | | 80 | | | | | | | | | |
| Other milk (Powdered, sourced | | 81 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| etc) | | | | | | | | | | | |
| Margarine /Butter | | 82 | | | | | | | | | |
| Yoghurt | | 83 | | | | | | | | | |
| Cheese | | 84 | | | | | | | | | |
| Infant feeding formula (for bottle) | | 85 | | | | | | | | | |
| Other (specify) | | 86 | | | | | | | | | |
| **Sugar, Fats, and Oil** | | 86-94 | | | | | | | | | |
| Sugar | | 87 | | | | | | | | | |
| Sugar Cane | | 88 | | | | | | | | | |
| Palm oil | | 89 | | | | | | | | | |
| Palm kernel oil | | 90 | | | | | | | | | |
| Over the past one week (7 days), Over the past one week (7 days), did you or others in your household eaten any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2>>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week?<br>(if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| Coconut oil | | 91 | | | | | | | | | |
| Groundnut oil | | 92 | | | | | | | | | |
| Shea butter | | 93 | | | | | | | | | |
| Other cooking oils | | 94 | | | | | | | | | |
| **Beverages** | | 94-103 | | | | | | | | | |
| Tea | | 95 | | | | | | | | | |
| Coffee | | 96 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cocoa, Milo, chocolim etc | | 97 | | | | | | | | | |
| Fruit juice | | 98 | | | | | | | | | |
| Freezes (flavoured ice) | | 99 | | | | | | | | | |
| Non-Alcoholic beverages | | 100 | | | | | | | | | |
| Alcoholic beverages | | 101 | | | | | | | | | |
| Bottled water | | 102 | | | | | | | | | |
| Other (specify) | | 103 | | | | | | | | | |
| **Spices & Miscellaneous** | | 103-110 | | | | | | | | | |
| Salt | | 104 | | | | | | | | | |
| Spices | | 105 | | | | | | | | | |
| Sauces (tomato, soy, Neri etc) | | 106 | | | | | | | | | |
| Honey | | 107 | | | | | | | | | |
| Over the past one week (7 days), Over the past one week (7 days), did you or others in your household eaten any of the following food items?<br><br>INCLUDE FOOD BOTH EATEN COMMUNALLY IN THE HOUSEHOLD AND THAT EATEN SEPARATELY BY INDIVIDUAL HOUSEHOLD MEMBERS, BOTH INSIDE AND OUTSIDE THE HOME | Yes=1, No=2>>Next item | Item Code | How much in total did your household eat in the past week? | | How much came from purchases? | | How much did you spend on what was eaten last week?<br>(if family ate part but not all of something they purchased, estimate only cost of what was consumed ) | How much came from own-production? | | How much came from gifts and other sources? | |
| | **11.1.01** | **11.1.02** | **11.1.03a Quantity** | **11.1.03b Unit** | **11.1.04a Quantity** | **11.1.04b Unit** | **11.1.05 GHS** | **11.1.06a Quantity** | **11.1.06b Unit** | **11.1.07 Quantity** | **11.1.07b Unit** |
| Jam, jelly | | 108 | | | | | | | | | |
| Sweets, candy, chocolates | | 109 | | | | | | | | | |
| Other (specify) | | 110 | | | | | | | | | |
| **Cooked Foods from Vendors** | | 110-124 | | | | | | | | | |
| Maize - boiled or roasted (vendor) | | 111 | | | | | | | | | |
| Chips (vendor) | | 112 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cassava fufu | | 113 | | | | | | | | | |
| Yam fufu | | 114 | | | | | | | | | |
| Yam - boiled (Ampesi) | | 115 | | | | | | | | | |
| Plantain - boiled/friend/roasted | | 116 | | | | | | | | | |
| Rice based vendor foods | | 117 | | | | | | | | | |
| Eggs - boiled (vendor) | | 118 | | | | | | | | | |
| Chicken (vendor) | | 119 | | | | | | | | | |
| Meat (vendor) | | 120 | | | | | | | | | |
| Fish (vendor) | | 121 | | | | | | | | | |
| Doughnut (vendor) | | 122 | | | | | | | | | |
| Meal eaten at restaurant/chop bar | | 123 | | | | | | | | | |
| Other (specify) | | 124 | | | | | | | | | |

| **11.1.03b/11.1.04b/11.1.06b/11.1.07b -- UNITS** | **UNITS - continued** |
|---|---|
| KILOGRAMME . . . .1<br>50 KG. BAG . . . .2<br>90 KG. BAG . . . .3<br>Container (SMALL) . . .4<br>Container (LARGE) . . .5<br>No. 10 PLATE . . .6<br>No. 12 PLATE . . .7<br>BUNCH. . . . . .8<br>PIECE. . . . . .9<br>HEAP . . . . . 10<br>BALE . . . . . 11<br>BASKET (*DENGU*)<br>(SHELLED). . . 12<br>BASKET (*DENGU*)<br>(UNSHELLED) . . 13 | OX-CART<br>(UNSHELLED) . . 14<br>LITRE. . . . . 15<br>CUP. . . . . 16<br>TIN. . . . . 17<br>GRAM . . . . . 18<br>MILLILITRE . . . 19<br>TEASPOON. . . . .20<br>BASIN. . . . . 21<br>SATCHET/TUBE. . .22<br>TOTAL …23<br>OTHER (SPECIFY). 24<br><br>Note: Any unit listed <u>must</u> be able to be converted a standardized unit, and that this conversion will happen during data analysis, not done by enumerator |

## Visit II - Module 11.2: Non-food Expenditures - Over Past One Week and One Month (FTF Module G2.)

| **ONE WEEK RECALL** | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
|---|---|---|---|
| | **11.2.01** | **11.2.02** | **11.2.03 GHS** |
| Over the past one week (7 days), did your household use or buy any of the under listed items? | 125-133 | | |
| Charcoal | 125 | | |
| kerosene | 126 | | |
| Cigarettes or other tobacco | 127 | | |
| Candles | 128 | | |
| Matches | 129 | | |
| Newspapers or magazines | 130 | | |
| Public transport - Taxi/ trotro etc | 131 | | |
| Public transport - Bus/Minibus | 132 | | |
| Others Public transport (Specify) | 133 | | |
| **ONE MONTH RECALL** | | | |
| Over the past one month, did your household use or buy any [...]? | 134-153 | | |
| Milling fees for grains (not including cost of grain itself), grain | 134 | | |
| Bar soap (body soap or clothes soap) | 135 | | |
| Clothes soap (powder, paste) | 136 | | |
| Bathing soap (Tablets, liquid etc) | 137 | | |
| Toothpaste, toothbrush | 138 | | |
| Toilet paper | 139 | | |

| | | | |
|---|---|---|---|
| Glycerin, Vaseline, skin creams | 140 | | |
| **ONE MONTH RECALL CONTINUED** | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
| | **11.2.01** | **11.2.02** | **11.2.03 GHS** |
| Other personal products (shampoo, razor blades, cosmetics, hair products, etc.) | 141 | | |
| Light bulbs | 142 | | |
| Postal fees (stamps and other postal fees) | 143 | | |
| Donation - to church, charity, beggar, etc. | 144 | | |
| Vehicle Fuel (Petrol or diesel) | 145 | | |
| Motor vehicle (including bicycle) service, repair, or parts | 146 | | |
| Wages paid to servants | 147 | | |
| Mortgage/rent - regular payment to purchase house | 148 | | |
| Repairs & maintenance to dwelling | 149 | | |
| Repairs to household and personal items (radios, watches, etc., excluding battery purchases) | 150 | | |
| Expenditures on pets | 151 | | |
| Batteries | 152 | | |
| Cell/Mobile phones | 153 | | |
| HEALTH EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts) | 153-155 | | |
| Anything related to illnesses and injuries, including for medicine, tests, consultation, & in-patient fees | 154 | | |
| Medical care not related to an illness - preventative health care, pre-natal visits, check-ups, etc. | 155 | | |

| | | | |
|---|---|---|---|
| Non-prescription medicines - Panadol, malaria drug, cough syrup, etc. | 156 | | |
| Others… | 157 | | |

**Visit II - Module 11.3: Non-Food Expenditures Over Past Three Months (FTF MODULE G3).**

| Over the past three months, did your household use or buy any of the under listed items? | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
|---|---|---|---|
| | **11.3.01** | **11.3.02** | **11.3.03** **GHS** |
| **THREE MONTHS** | 158-193 | | |
| Infant clothing | 158 | | |
| Baby nappies/diapers | 159 | | |
| Boy's trousers (FOR ALL CLOTHING, EXCLUDE UNIFORMS/SCHOOL CLOTHING) | 160 | | |
| Boy's shirts | 161 | | |
| Boy's jackets | 162 | | |
| Boy's under wears | 163 | | |
| Boy's other clothing | 164 | | |
| Men's trousers | 165 | | |
| Men's shirts | 166 | | |
| Men's jackets | 167 | | |
| Men's underwear | 168 | | |
| Men's other clothing | 169 | | |

| | | | |
|---|---|---|---|
| Girl's blouse/shirt | 170 | | |
| Girl's dress/skirt | 171 | | |
| Girl's underwear | 172 | | |
| Girl's other clothing | 173 | | |
| Over the past three months, did your household use or buy any of the under listed items? | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
| | **11.3.01** | **11.3.02** | **11.3.03 GHS** |
| Lady's blouse/shirt | 174 | | |
| Lady's dress/skirt | 175 | | |
| Lady's underwear | 176 | | |
| Lady's other clothing | 177 | | |
| Boy's shoes | 178 | | |
| Men's shoes | 179 | | |
| Girl's shoes | 180 | | |
| Lady's shoes | 181 | | |
| Cloth, thread, other sewing material | 182 | | |
| Laundry, dry cleaning, tailoring fees | 183 | | |
| Bowls, glassware, plates, silverware, etc. | 184 | | |
| Cooking utensils (cook pots, stirring spoons and whisks, etc.) | 185 | | |
| Cleaning utensils (brooms, brushes, etc.) | 186 | | |
| Torch / flashlight | 187 | | |
| Umbrella | 188 | | |
| Kerosene lamp/lantern | 189 | | |

| | | | |
|---|---|---|---|
| Stationery items (excluding school related) | 190 | | |
| Books (excluding school related) | 191 | | |
| Music or video cassette or CD/DVD | 192 | | |
| Other | 193 | | |

**Visit II - Module 11.4: Non-Food Expenditures over Past 12 Months (FTF Module G4)**

| Over the past one year (twelve months), did your household use or buy any of the under listed items? | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
|---|---|---|---|
| | **11.4.01** | **11.4.02** | **11.4.03 GHS** |
| **PAST ONE YEAR (12 MONTHS)** | 194-208 | | |
| Carpet, rugs, drapes, curtains | 194 | | |
| Mat - sleeping or for drying maize flour | 195 | | |
| Mosquito net | 196 | | |
| Mattress | 197 | | |
| Sports & hobby equipment, musical instruments, toys | 198 | | |
| Cement | 199 | | |
| Bricks | 200 | | |
| Construction timber | 201 | | |
| Council rates | 202 | | |
| Insurance - health (MASM, etc.), auto, home, life | 203 | | |

| | | | |
|---|---|---|---|
| Fines or legal fees | 204 | | |
| Marriage (bride wealth) costs | 205 | | |
| Marriage ceremony costs | 206 | | |
| Funeral costs, household members | 207 | | |
| Funeral costs, non-household members (relatives, neighbors/friends) | 208 | | |
| | | | |
| Over the past one year (twelve months), did your household use or buy any of the under listed items? | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
| | **11.4.01** | **11.4.02** | **11.4.03 GHS** |
| **HEALTH EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts)over last 12 months** | 209-212 | | |
| Hospitalizations or overnight stay in any hospital – total cost for treatment, including food cost | 209 | | |
| Travel to and from the medical facility for any overnight stay(s) or hospitalization | 210 | | |
| Over-night(s) stay at a traditional healer's or faith healer's dwelling – total costs for treatment, including food cost | 211 | | |
| Travel costs to the traditional healer's or faith healer's dwelling for overnight stay(s) | 212 | | |
| **EDUCATION EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts) over last 12 months** | 213-221 | | |
| Tuition, including extra tuition fees | 213 | | |
| Expenditures on after school programs and tutoring | 214 | | |
| School books and stationary | 215 | | |
| School uniform | 216 | | |

| | | | |
|---|---|---|---|
| Boarding fees | 217 | | |
| Contribution to school building maintenance | 218 | | |
| Transport to and from school | 219 | | |
| Parent/Teacher Association and other related fees | 220 | | |
| Other | 221 | | |
| | | | |

| NON-FOOD ITEMS THAT MAY NOT HAVE BEEN PURCHASED | Item Code | Yes=1<br>No=2>>Next Item | What was the estimated total value of<br>[ITEM] used? | | What was the total estimated value of [ITEM] that you used (for items that were gathered)? GHS | How much did you spend total on [ITEM] (for items that were bought) GHS |
|---|---|---|---|---|---|---|
| | **11.4.01** | **11.4.02** | **11.4.03a Quantity** | | **11.4.03b Unit** | **11.4.04 GHS** |
| Over the past one year (12 months) did your household gather, use or buy any of the under listed items?<br><br>(note that the value of these items should be entered <u>only</u> if they were purchased or used for the house, not any investments) | 220-220 | | Quantity | Unit | | |
| Wood poles, bamboo | 222 | | | | | |
| Grass for thatching roof or other use | 223 | | | | | |
| other | 224 | | | | | |

**Visit II - Module 11.5: Housing Expenditures (FTF Module G5)**

| 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? | If you sold this dwelling today, how much would you receive for it? | How many years ago was this house built? How old is it? | If you rented this dwelling today, how much rent would you receive? | | How much do you pay to rent this dwelling? | |
|---|---|---|---|---|---|---|
| **11.5.01** | **11.5.02** GHS | **11.5.03 YEARS** | **11.5.04a** GHS | **11.5.04 Unit** | **11.5.05a** GHS | **11.5.05b Unit** |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Phase II Module11.5 Household Expenditures Codes**

| **11.5.01** | **11.5.02/03** | **11.5.04/11.5.05** |
|---|---|---|
| OWN. . …… . 1>>11.5.02<br>BEINGPURCHASED …… 2 >>11.5.02<br>EMPLOYER PROVIDES. . ..3**>>11.5.04**<br>FREE, AUTHORIZED …..4**>>11.5.04**<br>FREE, NOT AUTHORIZED. ….5**>>11.5.04**<br>RENTED. . . ..6**>>11.5.05**<br>Don't know/non-response/NA……..98. | Don't know/non-response/NA……..98. | DAY....1<br>WEEK...2<br>MONTH..3<br>YEAR...4<br>Don't know/non-response/NA….98 |

## Visit II - Module 11.6: Durable Goods Expenditures (FTF Module G6)

| | YES=1<br>NO=2>>Next Item | ITEM CODE | How many [ITEM]s do you own? | What is the age of these [ITEM]s?<br><br>IF MORE THAN ONE ITEM, AVERAGE AGE. | If you wanted to sell one of these [ITEM]s today, how much would you receive?<br><br>IF MORE THAN ONE, AVERAGE VAUE. | Did you purchase or pay for any of these [ITEM]s in the last 12 months?<br>Yes=1<br>No=2>>Next item | How much did pay for all these [ITEM] all together (total) in the last 12 months? |
|---|---|---|---|---|---|---|---|
| | **11.6.01** | **11.6.02** | **11.6.03 Number** | **11.6.04 Year** | **11.6.05** GHS | **11.6.06** | **11.6.07** GHS |
| Does your household own a [ITEM]? | | 225-255 | | | | | |
| Bed/table/chair | | 225 | | | | | |
| Fan | | 226 | | | | | |
| Air conditioner | | 227 | | | | | |
| Radio | | 228 | | | | | |
| Tape or CD/DVD player/VCR | | 229 | | | | | |
| Television | | 230 | | | | | |
| Sewing machine | | 231 | | | | | |
| Kerosene stove | | 232 | | | | | |
| Electric stove; hot plate | | 233 | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Gas stove | | 234 | | | | | |
| | YES=1<br>NO=2>>Next Item | ITEM CODE | How many [ITEM]s do you own? | What is the age of these [ITEM]s?<br><br>IF MORE THAN ONE ITEM, AVERAGE AGE. | If you wanted to sell one of these [ITEM]s today, how much would you receive?<br><br>IF MORE THAN ONE, AVERAGE VAUE. | Did you purchase or pay for any of these [ITEM]s in the last 12 months?<br>Yes=1<br>No=2>><br>Next item | How much did pay for all these [ITEM] all together (total) in the last 12 months? |
| | **11.6.01** | **11.6.02** | **11.6.03 Number** | **11.6.04 Year** | **11.6.05** GHS | **11.6.06** | **11.6.07** GHS |
| Refrigerator | | 235 | | | | | |
| Washing machine | | 236 | | | | | |
| Bicycle | | 237 | | | | | |
| Boat | | 238 | | | | | |
| Moto bike | | 239 | | | | | |
| Car | | 240 | | | | | |
| Mini-bus | | 241 | | | | | |
| Lorry/truck | | 242 | | | | | |
| Donkey cart | | 243 | | | | | |
| Bullock traction equipment | | 244 | | | | | |
| Beer-brewing drum | | 245 | | | | | |
| Upholstered chair, sofa set | | 246 | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Coffee table (for sitting room) | | 247 | | | | | |
| Cupboard, drawers, bureau | | 248 | | | | | |
| | YES=1<br>NO=2>>Next Item | ITEM CODE | How many [ITEM]s do you own? | What is the age of these [ITEM]s?<br><br>IF MORE THAN ONE ITEM, AVERAGE AGE. | If you wanted to sell one of these [ITEM]s today, how much would you receive?<br><br>IF MORE THAN ONE, AVERAGE VAUE. | Did you purchase or pay for any of these [ITEM]s in the last 12 months?<br>Yes=1<br>No=2>>Next item | How much did pay for all these [ITEM] all together (total) in the last 12 months? |
| | **11.6.01** | **11.6.02** | **11.6.03 Number** | **11.6.04 Year** | **11.6.05** GHS | **11.6.06** | **11.6.07** GHS |
| Desk | | 249 | | | | | |
| Clock | | 250 | | | | | |
| Iron (for pressing clothes) | | 251 | | | | | |
| Computer equipment & accessories | | 252 | | | | | |
| Satellite dish | | 253 | | | | | |
| Solar panel | | 254 | | | | | |
| Generator | | 255 | | | | | |
| **END OF MODULE** | | | | | | | |