

**2012**

**USAID/GHANA  
FEED THE FUTURE**

**FTF GHANA Population-Based  
Survey in Northern Ghana:  
Baseline Protocol**

[METSS-Ghana]

29/07/2012

## 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 Standard 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<sup>th</sup> 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.

The survey protocols are meant to be a living document with periodic updates to relevant sections made when applicable. As new information arises and details become available, the protocols will be updated per the latest guidance or situation. 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 will focus 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 will 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 will be 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 will be conducted in a representative sample of USAID's FTF ZOI, with field work commencing in June 2012. The sample frame will include districts in the Northern, Upper West, and Upper East Regions and has been expanded to include some areas within Brong Ahafo Region that fall above the 8th parallel.

Data from this survey will 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 will collectively become the ZOI for FTF Ghana. A cluster sample will be randomly selected from this universe of EAs, from which households will be 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 are not available for the areas representative of the USAID Ghana ZOI through any other source. There is thus, the need for USAID/Ghana to mobilize resources to conduct a PBS and generate the required data. USAID/Washington is providing the technical support and guidance for conducting the required PBS globally for its FTF program. The Ghana Mission is, therefore, taking 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 is to determine statistically significant baseline values for FTF required population-based indicators for the ZOI. Baseline data will be compared against mid-term and final evaluation data to capture statistically significant changes in the zone of influence over time. The baseline values can 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.

USAID/Ghana has already engaged some implementing partners (IPs) to execute corresponding activities outlined in Table 1 under its FTF program. A number of additional partners will be added 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-	Prevalence of households with moderate or severe hunger

Indicator Number	Indicator Name
4	
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 USAID/Ghana FTF results framework as depicted in Figure 2 ([www.feedthefuture.gov/progress](http://www.feedthefuture.gov/progress)) assumes that after five years of targeted programming, poverty, hunger and malnutrition within the ZOI in northern Ghana will decrease. This overall program goal is composed of two objectives; improving nutritional status, especially of women and children less than five years of age and assisting with inclusive agricultural sector growth. The overarching goal of the USAID/Ghana FTF results framework reflects the overall FTF results framework (Figure 1) that aims to “sustainably reduce global poverty and hunger.”

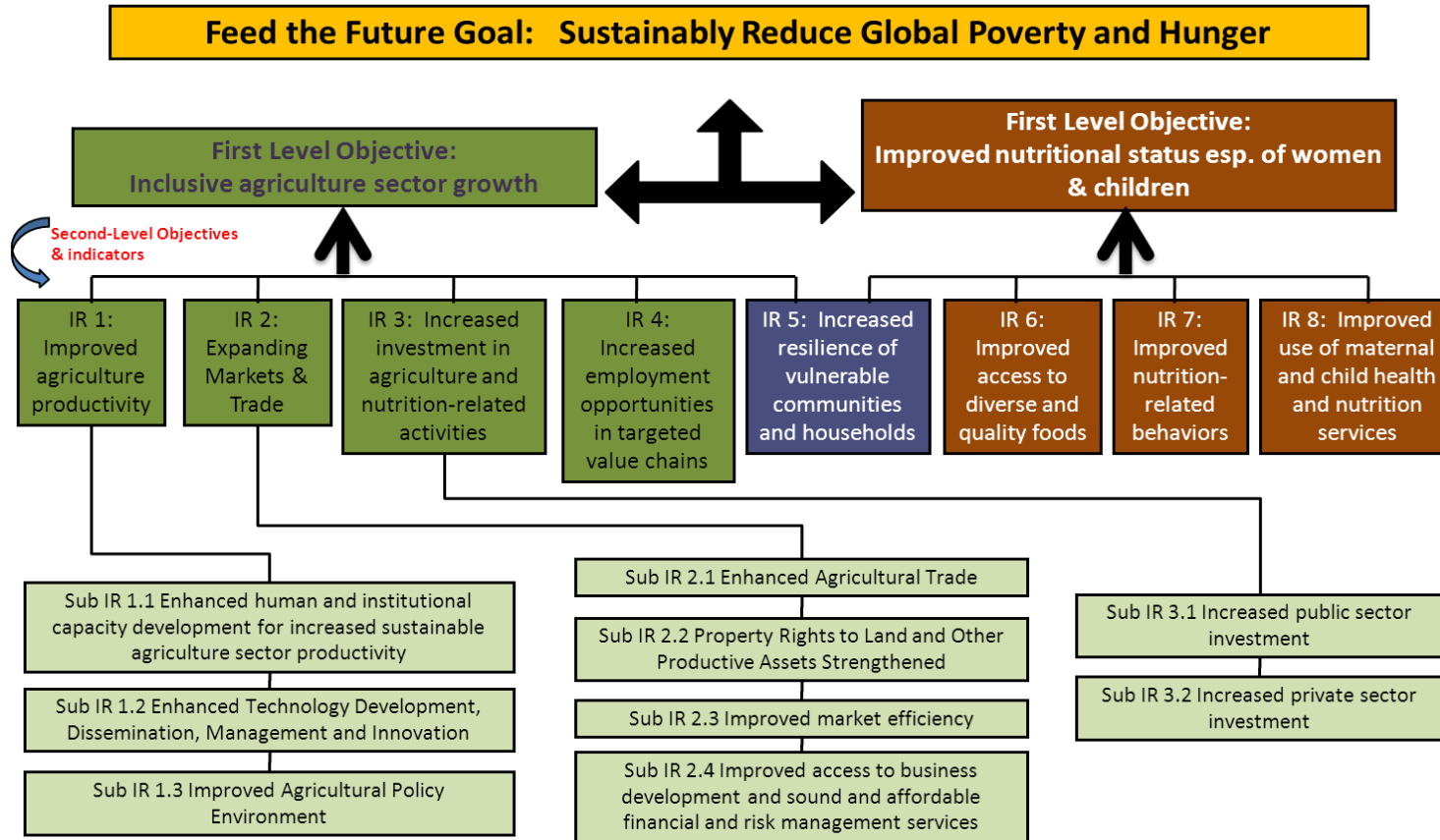


Figure 1: USAID Feed the Future Results Framework<sup>1</sup>

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

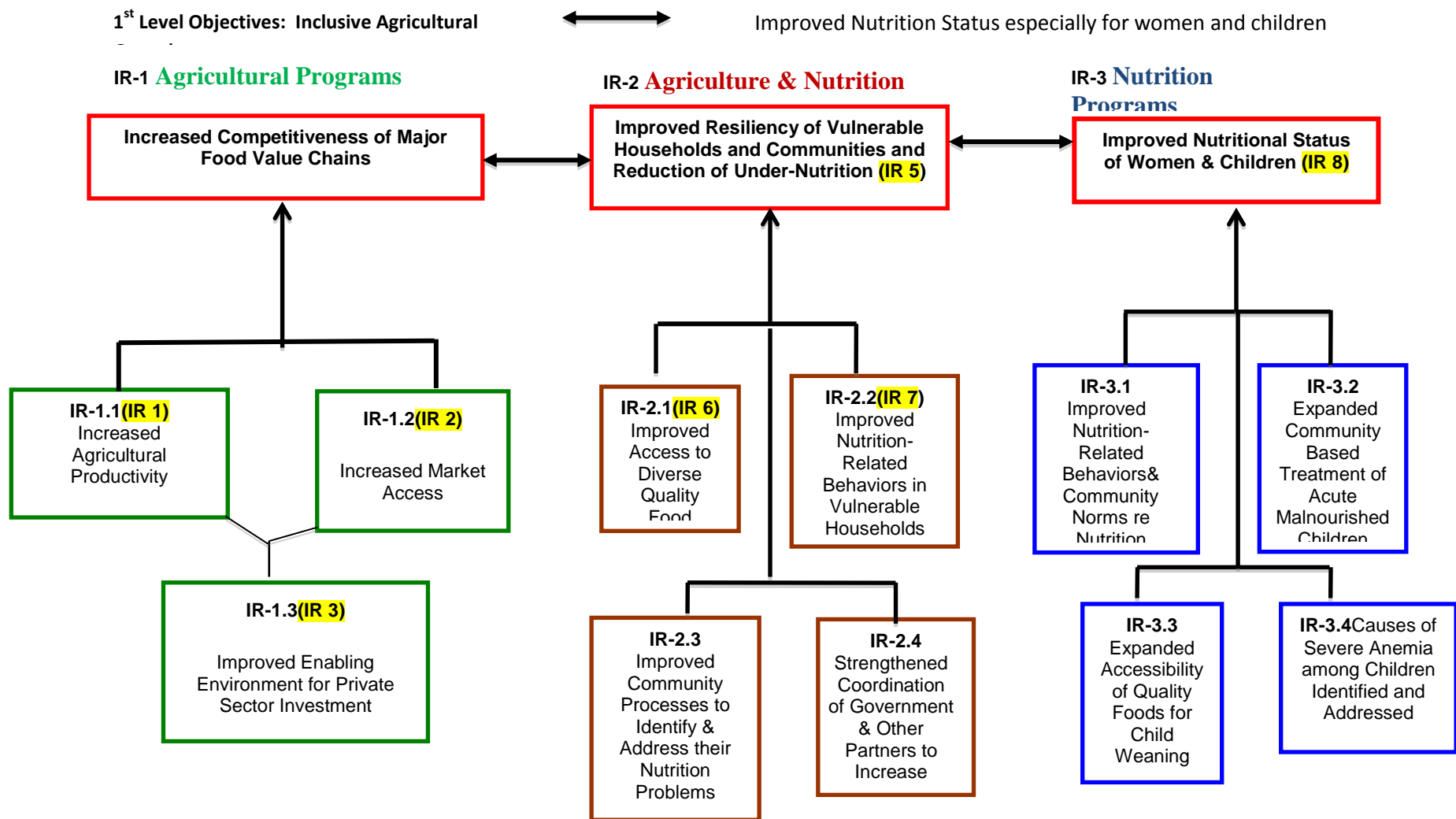


Figure 2: USAID/Ghana Feed The Future Results Framework

The FTF/Ghana 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.

## **4 Resources for Implementing the Survey**

The METSS partnership comprising USDA, KSU and UCC will provide technical leadership by coordinating assigned actions of baseline stakeholders and building the capacity of partner organizations. The primary stakeholders are 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) will be the main partner organization assisting with the implementation of the PBS. GSS will support ISSER in drawing up the sample of the EAs and households as well as providing anthropometric equipment and facilitators who will train enumerators and supervisors in the use of the devices. To draw the second stage sample for the PBS, GSS will be 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. METSS is developing the survey protocol, questionnaire, electronic information collection tools, and data management systems, with ISSER support. GSS collaborated with METSS to develop the sample frame, but ISSER will lead all field operations including logistics planning and management for training and data collection, training for field supervisors and enumerators and manage ethical board reviews.

METSS is procuring equipment particularly laptops for data capture, with assistance of Kansas State University. METSS and ISSER will pair technical experts to facilitate information transfer from enumerator laptops to supervisor field laptops and eventual transfer to servers at METSS and KSU. METSS and ISSER will work together to analyze data and write the final report. ISSER will submit a clean dataset of the survey as well as data dictionary to METSS as part of its deliverables.

**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
Project/Survey Coordinator	ISSER: Dr. Isaac Osei-Akoto
Information Systems Experts	ISSER & METSS: Frank Othhere and James Asafo-Adjei
GIS Expert	METSS
Logistician	ISSER & METSS
Field Supervisor Coordinator and Data Analyst	ISSER: Clement Adamba
Field Coordinator and Data Analyst	ISSER: Frank Othhere
Enumerators	ISSER & METSS
Data Analyst	ISSER & METSS

A total of seventy (70) interviewers and fifteen (15) supervisors will be recruited and trained for the exercise. Sixty out of the 70 trained interviewers will be engaged for the assignment. This practice ensures acceptable level of seriousness on the part of trainees who would want to be selected for the assignment. ISSER’s pool of fieldworkers will comprise mainly of individuals with tertiary level education and are therefore expected to be computer literate to be able to work effectively with the laptops. To ensure this, all prospective fieldworkers would be 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 specifications and suitability of the Dell laptop for the planned survey. Hence, arrangements are underway 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. METSS, through the Baseline Survey Coordinator, facilitated the acquisition efforts from GSS.

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

Description of Item	Units Needed	Notes
Trimble Juno SBs	60	Spatial referencing
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/Microtoise (Height measures)	60	Anthropometry
Pair AA Duracel batteries (for scale)	100 Pairs	Anthropometry
Portable Measuring boards for children (Infantometers)	60	Anthropometry
DELL Laptops (and mouse) for data collection	91	Data Entry for Questionnaire
Generator sets	60	Additional power source for laptops
Power Strip	45	To withstand power surges
Modems	15	Internet Connectivity and data transfer
Flash Drives	15	Data transfer from laptops

Table 4 provides a list of electronic devices planned for use for the survey as a measure for ensuring adequate precision. Enumerators will use laptops, Global Positioning System (GPS) devices (Trimble Juno SBs), Seca digital scales and Seca height measurement tools (microtoise) to administer the household questionnaires. Periphery devices will use cables to connect to the laptops to facilitate data entry and the increased accuracy of data transfer between the two devices.

#### 4.2.1 Ensuring adequate care for the equipment

Looking at the fact that the fieldworkers are going to be entrusted with laptops to work with over the entire period, it is necessary that each fieldworker makes an undertaking for the proper care and use of the equipment and be responsible<sup>2</sup> for any failures arising out of negligence on the part of the fieldworker. This undertaking would define all the necessary procedures for back-up, data transfer and equipment maintenance.

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

<sup>2</sup> 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.

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 is scheduled for the months of June and July 2012. The fieldwork will 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 will occur from August 2012 to October 2012. Table 5 below contains a listing of all the major planned activities milestones and timing of these activities. This matrix will be updated as and when necessary.

**Table 5: Summary of Survey Process**

ACTION	INPUT	OUTPUT	TIMELINES
Define key indicators to be measured	USAID results framework and USAID & IP indicators	List of PBS questions	Feb. 2012
Define targeted geographic areas where FTF investments will be implemented “effective” ZOI	List of ZOI districts or Enumeration Area Base Localities for each type of FTF activity	Sample frame	Feb. 2012
Define type of respondent for each question(see FTF standard instrument)	Targeted population for each type of FTF activity	List of PBS questions delineated by type of respondent	Feb.–Mar. 2012
Recruit and train data collection staff	List of staff needed, job descriptions for each position, list of training topics	ISSER staff contracts, recruited staff, training modules, training logistics	Feb. 2012
Determine sample size	Document sample size calculation and procedure	Sample of households to be covered in PBS determined.	Mar. 2012
Select sampling clusters; obtain this from GSS if possible from 2010 Census; otherwise must do it ourselves	List of all EAs in all districts in ZOI	List of randomly selected EAs	May 2012
Household listing for each cluster of EAs sampled	Questionnaire for household listing, logistics	List of all households in selected EAs	Jun. 2012



ACTION	INPUT	OUTPUT	TIMELINES
Draw second stage random sample of households within sampled EAs.	Trained enumerators, list of all households in selected EAs	List of selected households for inclusion in the survey	Jun. 2012
Enumerate households	Trained enumerators, questionnaire for households, logistics needs for data collection	Completed questionnaires	Jun-Jul 2012
Data from enumerators to field supervisors	Transfer protocols for data from enumerators to field supervisors	Raw data	Jul-Aug 2012
Field supervisors review and conduct in-field data checks. KSU's program runs descriptive analysis of data on a daily basis in order to identify outliers and systematic errors in the field. Reports generated will be shared with team supervisors for correction.	Trained supervisors, completed questionnaires from enumerators,	List of flagged responses for follow-up by enumerators	Jul-Aug 2012
Field supervisors back-up and transfer certified data to METSS and KSU servers.	Back-up devices and transfer protocols for data from field supervisors to headquarters	Database of responses	Jul-Aug 2012
Headquarters reviews data	Review protocols and cleaning process	Cleaned data	Jul-Aug 2012
Populate data tables; some summary statistics created, then data analyzed and placed into tables	Output program for data	Data tables filled in	Aug 2012
Write report	Data tables in report outline	Analyze and discuss data	Sep 2012
Incorporate data tables into report	Standard format for tables in the report	Data tables in report outline	Sep 2012
Oral presentation of findings	Logistics for presentation, power point presentation, equipment & presenters	Presentation	Sep 2012
Document and make copies of dataset.	Clean dataset	Documentation	Sep 2012

## 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 will 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 will represent areas

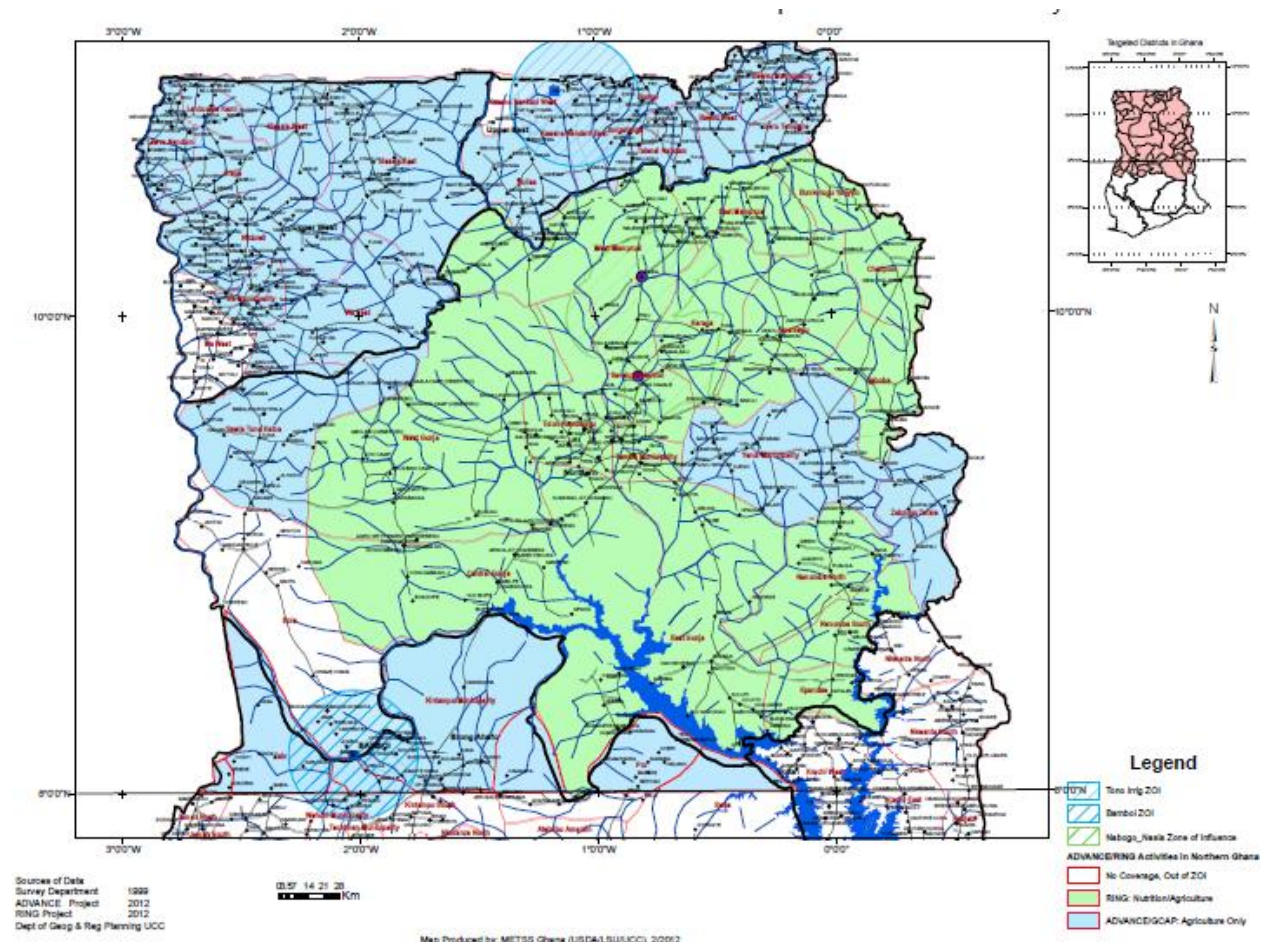
within the ZOI with RING nutrition/agriculture activities, including some ADVANCE agriculture activities, while the other will represent areas with only agricultural activities (no nutrition activities). The broadly defined ZOI for Ghana contains the three northernmost regions: Upper West, Upper East, 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 will be constructed of Enumeration Areas (EAs) in the FTF Ghana “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 will be 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 will be referred to as the “ZOI” for this PBS.

ADVANCE, which uses a nucleus farmer with outgrower farmers model, is in the process of identifying the nucleus farmers and associated outgrowers. Their field staff, working in collaboration with Ministry of Food and Agriculture extensionists, had identified some nucleus farmers. They also had a very good indication of where new outgrowers will 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 there would be some spread effects/indirect benefits in terms of impacts on employment, mainly, but that these spread effects would manifest largely in the same or close by areas.

The projects still in design were quite different in terms of the geography of their intervention areas. RING will 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 are not that well defined geographically, and no centralized source of AC boundaries is available. ACs in a number of districts will be 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 will 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 will 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 of the 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.



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

## 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. There are two strata (“agriculture-nutrition intervention area – Strata I” and “agriculture only intervention area – Strata II”) in the ZOI. Therefore the sample is designed to ensure an adequate number of respondents for these indicators in the two strata. In addition, the sample is designed to meet the following requirements:

Control the overall cost according to available funds; and

Ensure that the survey implementing organization will be able to handle a large sample while maintaining the quality of data.

The sample will 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 is 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 anticipates 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:

$$n = \left\{ \left[ \frac{(p_1q_1) + (p_2q_2)}{(p_2 - p_1)^2} \right] \times (Z_{1-\alpha} + Z_{1-\beta})^2 \right\} \times Deff \quad (1)$$

where

$\alpha$  is 5%, type I error;

$\beta$  is 80%, type II error;

$p_1$  and  $p_2$  are the prevalence of the indicators at start and end of the intervention respectively for each designing indicator ( $q_1 = 1-p_1$ ;  $q_2=1-p_2$ ); 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	$\alpha$	1- $\beta$	Z1- $\alpha$	Z1- $\beta$	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 is determined if the poverty indicator is used, 1254 is established if the stunting indicator is used, and 2358 is derived if the underweight indicator is used. For the purpose of the survey, significant difference in impacts on poverty between the two strata is not being hypothesized. It is anticipated that the ZOI level estimates for the nutritional status indicators will be diluted by the inclusion of areas where no nutrition activities are being implemented. This will not present a good indication of the impact of the nutrition intervention. Thus the stratification of the ZOI as described above is important to provide a true reflection of impact. Since the required sample size for the poverty indicator is the maximum of the three, 4580 will be 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 gives a larger sample size than the stunting indicator, it would be required to obtain a sample size of at least, 2358 within Stratum I and this can 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 is achieved. This sample size is 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 would be interviewed in each EA, giving us a total of 230 EAs across the ZOI. The differential probabilities of selection would be 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 must 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 will 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 is conservative, which results in a larger sample size and provides 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 will employ a two-staged probability sampling methodology. Two hundred and thirty (230) EAs will be selected during stage one from all the EAs within the ZOI based on the Ghana 2010 Census data. The total number of EAs is 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 will be selected using the probability proportional to size (PPS) method.

Ghana has a recent (2010) census, and GSS will draw 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 will conduct on-the-ground mapping and comprehensive listing of households in the EAs that fall into the cluster sample. These efforts will be supported by GSS and will enable ISSER to draw the second stage household sample. ISSER will 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 is usual to expect that the response rate would vary across EAs. As a result, tabulations will use an adjustment factor or a sampling weight to account for differences in selection probability and number of complete interviews in any EA. The required information for computing the weights would be documented at the EA and household selection stage. The response rate would only be known after the survey.

## **5.3 The Survey Instrument**

Copies of the survey instruments for the 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 has been adapted to Ghana's context using Ghana's Living Standard Measurement Survey (GLSS) and Demographic and Health (GDHS) instruments and will be used to collect data for the FTF poverty, expenditure, women's empowerment in agriculture, household hunger, dietary and anthropometric indicators. This is to ensure that FTF ZOI data generated will be comparable to national data.

Since the zone of influence level agricultural data are 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 are 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 are not written and the difficulty to find enumerators who can read some of the languages even if written, the survey instrument will be in English. Standardization will be done in working groups at the enumerator training and pretest of the questionnaires, and thus, additional time has been allocated for the exercise

#### **5.4 Training of Survey Personnel**

The 70 interviewers and 15 supervisors would all undergo the training but only 60 interviewers would end being in the field. However, the entire field team will be trained so that everyone will have adequate knowledge about the project background and objectives and is familiar with the survey instruments. This will ensure potential problems are identified early and dealt with before the fieldwork begins. A 14-day long training session for interviewers and supervisors will be conducted to enable enumerators and supervisors to accomplish their work with the study instruments.

The importance of adequate training before the survey cannot be overemphasized; it is the only means for ensuring that each survey team member correctly and uniformly follows survey procedures. The first three days of the training would be devoted to taking fieldworkers through the paper version of the survey instrument to ensure their understanding. Standardization of translations in working groups will take place during this period. A pre-test of the paper questionnaire would be 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 can be resolved.

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

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

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

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



## **5.6 Reconnaissance Visit to Recruit Enumerators and Supervisors**

A reconnaissance visit to the ZOI areas will be conducted by ISSER in efforts to familiarize with the conditions within communities from sampled communities. ISSER will take 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 would be the primary determinants for selection.

## **6 Implementation of field data collection**

The implementation schedule presented in Table 10 will guide a timely execution and completion of tasks designed for the survey. It is, however, noted that keeping to this schedule depends 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 will be deployed in teams of five (5) members with each comprising of four (4) interviewers working under a supervisor. Each team will have sub-teams of two interviewers interviewing each household for the child anthropometry and Women Empowerment in Agriculture Index modules. Afterwards, the sub-teams will break up and administer the other modules requiring individual respondents. The supervisors shall be 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 will be collected by a team of enumerators, one team per region, using electronic data capture devices. Each team will be managed by the ISSER Statistician assisted by field supervisors. The ISSER survey team will train field enumerators, supervisors, Quality Control team, Data entrants and editors. After identifying willing and available households to interview, data collectors will read and get informed consent from the respondents. A signed copy of the informed consent form will be left with the household with a telephone number they can call with follow-up questions or concerns.

**Table 10: Work Plan**

No.	Task Name	Apr-12				May-12				Jun-12				Jul-12				Aug-12				Sep-12			
		Wk1	Wk2	Wk3	Wk4	Wk1	Wk2	Wk3	Wk4	Wk1	Wk2	Wk3	Wk4	Wk1	Wk2	Wk3	Wk4	Wk1	Wk2	Wk3	Wk4	Wk1	Wk2	Wk3	Wk4
1	Finalization of sampling design (allocation of sample to Regions and Districts, Selection of EAs, Selection of Households from EAs)																								
2	Finalization of instruments in agreement with METSS																								
3	Contribute to Finalization of data capture program for final instrument																								
4	Reconnisainnace visit to ZOI and recruitment of Enumerators																								
5	Preparation of all supplies and equipment (Laptops and Anthropometric equipment).																								
6	Training and Pretest activities.																								
7	Finalization of survey instrument and data capture after training.																								
8	Data collection Period																								
9	Data consolidation, cleaning and analysis																								
10	Draft Report																								
11	Final Report																								

Because of the length of the survey instruments (11 modules in all), modules 1-10 will be initially administered by an enumerator, and follow-up with a second visit during when the same data entry device will be used to administer module 11. During the first visit, all households will respond to the household demographic and consumption patterns questions. Households with women between 15 and 49 years of age will be asked questions about women’s consumption and be measured for height and weight. Where children less than five years old are present, data collectors will take their height and weight measurements. If any children under two years of age reside in the household, the caretakers will be 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 will involve the administration of the first ten modules listed in Table 11.

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.

**Table 11: 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 yrs)	Women’s Anthropometry
Module 8 - HOUSEHOLD CAREGIVERS (children >5)	Children’s Anthropometry

Respondent Type	Questionnaire Section Title
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

The types of respondent required within each household for each module are summarized in Table 11. After the household listing has been completed the names, gender and ages of the household members will be automatically populated in subsequent questions. Enumerators will not need to refer back to already entered data, neither will they have to make decisions on which questions need to be asked of which household members. Enumerators will be asked to confirm data such as the ages of women and children before taking anthropometric measurements.

### 6.1 Proposed Interventions during Data Collection

World Health Organization (WHO) child growth standards will be programmed into the devices. Children will be flagged if their weight-for-height <-3 z-score. They will be referred to the nearest health facility by the enumerator for treatment, because they are the only children who are severely acutely malnourished and at risk of death.

International standards of adult body mass index (BMI) will be programmed into the electronic tablets.

## 7 Strategies for Ensuring Data Quality

The strategy for Data Quality Control for the PBS will involve a two-pronged approach, namely, Ex-Ante and Ex-Post procedures. The Ex-Ante strategy will include logical strings and conditional clauses built into the programmed PBS software that ensures that appropriate responses are captured by enumerators in the field. As a quality control, the software will reject responses that are not appropriate in specific contexts and prompt enumerators to key in the acceptable data. The Ex-Post strategy would include 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 will be a continuous process involving supervisors and their teams throughout the fieldwork phase of the PBS.

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

Field supervisors will not have the opportunity to change any data they review. They will flag the data and enumerators will 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 have been put in place to ensure data are analyzed to support in-field data verification. After each day's enumeration, data will be transferred to servers at KSU and METSS primarily for backup purposes but also to identify outliers and systematic errors in data collected. After data are screened, a report would be generated for remedial action in the field, before each team departs for the next EA. KSU's IT department has developed a program which generates the report after data screening, with identified problematic questions flagged for follow-ups.

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

### **7.1 Follow-up procedure**

A minimum of 10% of all interviews conducted by each interviewer will to be scrutinized by the supervisor. This will involve returning to a respondent who will 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 is unable to gain the cooperation of a selected individual, the case will be referred to the ISSER Survey Team representative who will take steps to convert such cases to completed interviews.

## **7.2 Monitoring of fieldwork**

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

## **8 Data Management**

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

The laptop will not be wireless enabled. Data collectors will not have the ability to send any data over the internet themselves. All files will be kept under password protection for safety. The IT Unit at KSU has 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 are relevant in case of data loss in the field.

## **9 Procedures to Ensure Ethical Considerations**

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

The METSS Program Specialist for Information and Knowledge Management will also password protect the database files. Identifying information of the respondents will not be included in the database available for outside use by IPs or to data analysts.

Overall, METSS will ensure 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 would be required in order to administer the various modules in the PBS tools. Efforts would be expended by enumerators to ensuring that data files are carefully handled and do not fall into the hands of third parties. Laptops used for data collection, as well as pen drives used for data transfer by enumerators would be cleaned of the datasets, when the PBS ends. In instances, where paper questionnaires are used as supplements to the electronic version, such instruments would be destroyed in order to protect the confidentiality of the household and respondents.

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

Buy-in would be obtained from ISSER, ensuring that datasets which contain the specific references to respondents and their households are not disclosed to third parties.

Copies of informed consent forms are contained in Appendix D.

## **Potential Problems and Mitigation Measures**

Based on observations made during earlier studies in parts of the ZOI, the following challenges can be 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 may become an issue. To deal with this independent power sources will be procured, including diesel-run generator sets for recharging batteries. In the case of total power failure, paper survey forms will be used as back-up. Supervisors and enumerators will be trained on powering devices as well as using paper forms in case electronic devices are non-functional due to power outages. Paper forms will ensure that data collection time is not lost if electronic devices cannot be recharged. Data entry clerks will need to be hired to enter data which will prolong the post-enumeration period by some

weeks. Data entry software will also need to be purchased and laptop computers if none are available for use.

Digital equipment will be battery operated and field supervisors will keep spare batteries on hand. Enumerators will be trained to identify a waning battery life for all equipment they will be using.

## **10.2 Potential Internet Outages**

Field supervisors will transmit data using external modems but interruptions to the internet connection due to power failure or waning internet services could hamper data transmission. A copy of all data will be kept on an external hard drive and can also be transferred to a USB thumb drive for portability to Accra. Field supervisors will call the METSS office to alert them of their inability to transmit data and will send it when the internet is functional.

## **Potential Delays in Procurement of Equipment**

Due to delays in the procurement of equipment, shipping problems or customs delays, electronic equipment may not arrive in time for field testing. In the case where these devices are available, they will be purchased in Ghana. Mostly likely suppliers will not have the required numbers of devices on hand so may run into similar importation issues. Should the equipment not be available, paper questionnaires will be used and locally available height and weight measures meeting the specifications of measurement procured.

## **11 Plan for Data Analyses**

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

Each indicator will be analyzed per Ghanaian standards for cross-comparability with other survey results. The team will analyze 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 will be presented as charts and graphs for each individual indicator and will be 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 will also be disaggregated by the sex of the head of the household, to allow for comparisons



between PBS and other survey findings. This is based on the assumption that the head of the household is the primary respondent. All indicators will be 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 would be 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		Gushiegu	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-Tempene	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									
		DaffiamaBussielssa									
	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: Gantt Chart Showing Planned Activities, Milestones and Timing of the PBS**

Please see attachment: Appendix B

## Annex C: Final Sample Frame of 230 Enumeration Areas in the ZOI

SERIAL #	REGION	DISTRICTNAME	2010 EACODE	BASELOCALITY	EABASE
001	BRONG AHAFO	JAMAN NORTH	712100009	ASUOKOR-AKOATA	PRESBY PRIMARY SCHOOL
002	BRONG AHAFO	JAMAN NORTH	712100052	MAYERA	HSE/NO.MAB-SA-001
003	BRONG AHAFO	JAMAN NORTH	712100079	SUMA-AHENKRO	MARKET
004	BRONG AHAFO	JAMAN NORTH	712100103	DUADASO NO.1	HSE/NO.DAG-NE-009
005	BRONG AHAFO	JAMAN NORTH	712100114	SAMPA-SHEKOMLO	POST OFFICE
006	BRONG AHAFO	TAIN	713100049	SEIKWA	SEIKWA
007	BRONG AHAFO	TAIN	713100054	DEGEDEGE	DEGEDEGE
008	BRONG AHAFO	TAIN	713100145	SAASE	SAASE
009	BRONG AHAFO	WENCHI	714200051	WENCHI	EYE ADOM HOUSE (X153/3)
010	BRONG AHAFO	WENCHI	714200078	WENCHI	ALHAJI LIMAN MORO'S HOUSE
011	BRONG AHAFO	WENCHI	714200107	ADOYE (ADWEE)	ADOYE (ADWEE)
012	BRONG AHAFO	SENE	719100020	DODI	CHURCH OF PENTECOST
013	BRONG AHAFO	SENE	719100053	AGUDE AKURA (NARTEH)	AGUDE AKURA (NARTEH)
014	BRONG AHAFO	SENE	719100086	BANTAMA	S.D.A. PRIMARY & J.H.S.
015	BRONG AHAFO	SENE	719100134	BASSA	L/A JHS
016	BRONG AHAFO	SENE	719100167	TODZIEKOPE	TODZIEKOPE
017	BRONG AHAFO	PRU	720100005	PAPASE	PAPASE
018	BRONG AHAFO	PRU	720100053	ABEASE NEW TOWN	HEALTH CENTRE
019	BRONG AHAFO	PRU	720100088	CHEREMBO	SULEMAN'S KWABEN CHEMICAL STORE
020	BRONG AHAFO	PRU	720100122	JAKLAI	JAKLAI
021	BRONG AHAFO	PRU	720100129	YEJI	SECONDARY SCHOOL
022	BRONG AHAFO	PRU	720100159	YEJI	VOLTA LAKE HOTEL
023	BRONG AHAFO	KINTAMPO SOUTH	721100024	NEW PENINAMISA / EWESO	D/A J.H.S
024	BRONG AHAFO	KINTAMPO SOUTH	721100080	APESIKA	CORN MILL
025	BRONG AHAFO	KINTAMPO SOUTH	721100119	BAWA AKURA (OLD)	BAWA AKURA (OLD)
026	BRONG AHAFO	KINTAMPO NORTH	722200037	KINTAMPO	TIJANIYA MOSQUE
027	BRONG AHAFO	KINTAMPO NORTH	722200083	BABATOKUMA	TIJANIYA MOSQUE
028	BRONG AHAFO	KINTAMPO NORTH	722200095	YARA	YARA

029	BRONG AHAFO	KINTAMPO NORTH	722200136	KADELISO	D/A PRIMARY & J.H.S.
030	NORTHERN	BOLE	801100022	SIMPUAYIBI	MARKET
031	NORTHERN	SAWLA / TUNA / KALBA	802100057	YILENTEYIRI KARTEYIRI)	YILENTEYIRI KARTEYIRI)
032	NORTHERN	SAWLA / TUNA / KALBA	802100094	NAFAH	NAFAH
033	NORTHERN	SAWLA / TUNA / KALBA	802100132	DOLINGUO	DOLINGUO
034	NORTHERN	WEST GONJA	803100005	POPOSO KURA	POPOSO
035	NORTHERN	WEST GONJA	803100009	NABORI	NABORI
036	NORTHERN	WEST GONJA	803100030	DAMONGO	ABDULAI AMADU'S HOUSE
037	NORTHERN	WEST GONJA	803100042	JONOKPONTO	JONOKPONTO
038	NORTHERN	WEST GONJA	803100063	MURUGU	CHIEF'S HOUSE
039	NORTHERN	WEST GONJA	803100101	WAWATO	WAWATO
040	NORTHERN	WEST GONJA	803100106	MEMPEASEM	MEMPEASEM
041	NORTHERN	GONJA CENTRAL	804100027	GBIRIGI	ALSUNA MOSQUE
042	NORTHERN	GONJA CENTRAL	804100057	CHISETO (KOKOPE)	CHISETO (KOKOPE)
043	NORTHERN	GONJA CENTRAL	804100062	KABILPE	KABILPE
044	NORTHERN	GONJA CENTRAL	804100115	SAKUMPE (SANKUNYILI)	SAKUMPE (SANKUNYILI)
045	NORTHERN	GONJA CENTRAL	804100116	DAWUNIPE	DAWUNIPE
046	NORTHERN	EAST GONJA	805100006	BUNKURUGU	BUNKURUGU
047	NORTHERN	EAST GONJA	805100016	(GULBI) QUARTERS	(GULBI) QUARTERS
048	NORTHERN	EAST GONJA	805100047	KAFABA NO.2	L/A PRIMARY & JHS
049	NORTHERN	EAST GONJA	805100073	KAFABA NO.3	KAFABA NO.3
050	NORTHERN	EAST GONJA	805100080	GARIN SHANU NO.1	GARIN SHANU NO.1
051	NORTHERN	EAST GONJA	805100113	KIJAU BATTOR	SUSUGBI NWOLEOY'S HOUSE (ADA CHIEF'S HOUSE)
052	NORTHERN	EAST GONJA	805100153	SALAGA	ABISCO FASHION CENTRE BLK.G.S
053	NORTHERN	EAST GONJA	805100176	MASAKA	ABDULAI IBRAHIM'S HOUSE
054	NORTHERN	EAST GONJA	805100209	NYESILA	NYESILA
055	NORTHERN	EAST GONJA	805100217	LIBI	LIBI
056	NORTHERN	EAST GONJA	805100219	BANVIM	BANVIM
057	NORTHERN	KPANDAI	806100026	JAMGBOEJADO (GMABI - DO)	JAMGBOEJADO (GMABI - DO)
058	NORTHERN	KPANDAI	806100030	WIAE CHABOR	WIAE CHABOR
059	NORTHERN	KPANDAI	806100059	KITARE	GROOVY INN SPOT

060	NORTHERN	KPANDAI	806100092	BUMBARE	BUMBARE
061	NORTHERN	KPANDAI	806100112	AGBONJO KURA	AGBONJO KURA
062	NORTHERN	KPANDAI	806100124	BAKAMBA	ROMAN CATHOLIC CHURCH
063	NORTHERN	KPANDAI	806100173	NYIMBORI DO	NYIMBORI DO
064	NORTHERN	NANUMBA SOUTH	807100006	KONJATINDANDO	KONJATINDANDO
065	NORTHERN	NANUMBA SOUTH	807100028	TAMPAYA	MAMANI SAHARA'S HOUSE E.A.
066	NORTHERN	NANUMBA SOUTH	807100045	WULENSI	MAMANI ABDULRAHMAN
067	NORTHERN	NANUMBA SOUTH	807100077	TIKAYEDO	TIKAYEDO
068	NORTHERN	NANUMBA SOUTH	807100119	KABLIYA	KABLIYA
069	NORTHERN	NANUMBA NORTH	808100051	NABAGNANDO	NABAGNANDO
070	NORTHERN	NANUMBA NORTH	808100085	BIMBILLA	ALIDU LATEST FASHION
071	NORTHERN	NANUMBA NORTH	808100125	KPALIGBENI (ZABLAYA)	KPALIGBENI (ZABLAYA)
072	NORTHERN	NANUMBA NORTH	808100163	NAKPA-GBEINI	AREA COUNCIL
073	NORTHERN	NANUMBA NORTH	808100200	MAKANTEDO (MAKANTEYILI)	MAKANTEDO
074	NORTHERN	ZABZUGU TATALI	809100001	BAGMANE (BAGAMANE)	BAGMANE (BAGAMANE)
075	NORTHERN	ZABZUGU TATALI	809100034	KUKUOKPANG I	KUKUOKPANG I
076	NORTHERN	ZABZUGU TATALI	809100066	AJEDUMBO	AJEDUMBO
077	NORTHERN	ZABZUGU TATALI	809100087	ZABZUGU	NEW N.D.C. DISTRICT OFFICE
078	NORTHERN	ZABZUGU TATALI	809100116	NAHUYILI	PRIMARY SCHOOL
079	NORTHERN	YENDI	810200010	KPABIA	MR. GARIBA'S HOUSE
080	NORTHERN	YENDI	810200043	BULI	ABUDU SABNAA'S HOUSE
081	NORTHERN	YENDI	810200076	ADIBO	HEALTH CENTRE
082	NORTHERN	YENDI	810200109	KAYONG	KAYONG
083	NORTHERN	YENDI	810200152	SAMBU	PUBLIC TOILET
084	NORTHERN	YENDI	810200182	YENDI	KUM-WULAN KROYILI
085	NORTHERN	YENDI	810200257	KULKPANGA	KULKPANGA
086	NORTHERN	YENDI	810200290	BUNDUOLI	BUNDUOLI
087	NORTHERN	TAMALE	811301005	DALOGUYILI	DALOGUYILI
088	NORTHERN	TAMALE	811301010	BAGLIGA	BAGLIGA
089	NORTHERN	TAMALE	811301014	JERIGU	JERIGU
090	NORTHERN	TAMALE	811301020	GBABSHE	GBABSHE



091	NORTHERN	TAMALE	811301021	LAHAGU	LAHAGU
092	NORTHERN	TAMALE	811301022	DUNYING	DUNYING
093	NORTHERN	TAMALE	811301027	TUTINGLE	TUTINGLE
094	NORTHERN	TAMALE	811301040	NAKPANZUO	SUNDAY CHEMICAL SHOP
095	NORTHERN	TAMALE	811301077	NYOHINI	MOSQUE
096	NORTHERN	TAMALE	811302019	NYANI-FONG	CHA MALT PHARMACY H/NO. (F.85)
097	NORTHERN	TAMALE	811302053	CHENGLI	NAWARIYA ISLAMIC PRIM. SCH. AND MOSQUE
098	NORTHERN	TAMALE	811302087	GUKPEGU	BUGLAMA YILI
099	NORTHERN	TAMALE	811302121	ABOABO	GHANA TELECOM REGIONAL OFFICE
100	NORTHERN	TAMALE	811302155	TISHIGU	PRECIOUS LADIES BEAUTY SALOON (B.215)
101	NORTHERN	TAMALE	811302189	GUMBIHINI	H/NO. A. BLK V 35
102	NORTHERN	TAMALE	811303019	EDUCATION RIDGE	BUREAU OF GHANA LANGUAGES
103	NORTHERN	TAMALE	811303056	CHOGGU MANAYILI	LARI-NI, WOMEN AGRIC PROCESSING RICE HULER
104	NORTHERN	TAMALE	811303071	DEMANKONYILI	DEMANKONYILI
105	NORTHERN	TAMALE	811303097	JISONAYILI	PUBLIC TOILET
106	NORTHERN	TAMALE	811303133	GUMANI	BRIGHT KIDS ACADEMY
107	NORTHERN	TAMALE	811303167	TISHIGU	ABUBAKARI KPEGU'S HOUSE (K.517)
108	NORTHERN	TAMALE	811303193	GBALAH	GBALAH
109	NORTHERN	TOLON KUMBUGU	812100016	TUNAYILI	COPENY MOSQUE (COMPANY MOSQUE
110	NORTHERN	TOLON KUMBUGU	812100057	KUKUO	KUKUO
111	NORTHERN	TOLON KUMBUGU	812100070	NYANKPALA	SOCHI CHEMICAL STORE
112	NORTHERN	TOLON KUMBUGU	812100074	KPACHI	KPACHI
113	NORTHERN	TOLON KUMBUGU	812100104	WANTUGU	ENGLISH AND ARABIC PRIMARY SCHOOL
114	NORTHERN	TOLON KUMBUGU	812100113	GBAMBAYA	GBAMBAYA
115	NORTHERN	TOLON KUMBUGU	812100137	GUMO	GUMO
116	NORTHERN	TOLON KUMBUGU	812100168	GBARIJOLA (GBANJUGLA)	GBARIJOLA (GBANJUGLA)
117	NORTHERN	TOLON KUMBUGU	812100169	WALA	WALA
118	NORTHERN	TOLON KUMBUGU	812100202	JOAJIRIGU	JOAJIRIGU
119	NORTHERN	TOLON KUMBUGU	812100264	TIBUNG	CENTRAL MOSQUE
120	NORTHERN	SAVELUGU NANTON	813100116	TAMPION	NAYIRI FONGU MOSQUE
121	NORTHERN	SAVELUGU NANTON	813100130	BATANYILI	BATANYILI

122	NORTHERN	SAVELUGU NANTON	813100166	LALIGU	MOHAMMED BILSINAA'S HOUSE
123	NORTHERN	KARAGA	814100002	BILSINGA	BILSINGA
124	NORTHERN	KARAGA	814100025	NYONG - GUMA	NECHINAA YILI HOUSE
125	NORTHERN	KARAGA	814100079	KPATRIBOGU	MOSQUE
126	NORTHERN	KARAGA	814100088	PISHIGU	MALLAM LANDAN'S HOUSE
127	NORTHERN	KARAGA	814100094	GUNAYILI	GUNAYILI
128	NORTHERN	KARAGA	814100124	GULUGU	GULUGU
129	NORTHERN	KARAGA	814100126	KPAKPILIGA	KPAKPILIGA
130	NORTHERN	GUSHIEGU	815100007	GALWEI	MARKET
131	NORTHERN	GUSHIEGU	815100041	ZAMASHEGU	ZAMASHEGU
132	NORTHERN	GUSHIEGU	815100046	KYIDOMYILI	KYIDOMYILI
133	NORTHERN	GUSHIEGU	815100083	GUSHIEGU	SLAUGHTER HOUSE
134	NORTHERN	GUSHIEGU	815100107	NAKPA	NAKPA
135	NORTHERN	GUSHIEGU	815100131	BAMBULI	BAMBULI
136	NORTHERN	GUSHIEGU	815100137	KATANI	KATANI
137	NORTHERN	SABOBA	816100007	TAKPALB	TAKPALB
138	NORTHERN	SABOBA	816100031	KUNKUNZOLI	KUNKUNZOLI
139	NORTHERN	SABOBA	816100042	BUKPAM	BUKPAM
140	NORTHERN	SABOBA	816100082	SANGULI	SANGULI
141	NORTHERN	SABOBA	816100087	KUMUATEEK	KUMUATEEK
142	NORTHERN	CHEREPONI	817100018	TOMBO (TOMBU)	JUNIOR HIGH SCHOOL
143	NORTHERN	CHEREPONI	817100043	CHEREPONI	NEW CHIEF'S PALACE
144	NORTHERN	CHEREPONI	817100069	TUMPONDI	TUMPONDI
145	NORTHERN	BUNKPURUGU YONYO	818100007	BLANGAL (BLANGA)	BLANGAL (BLANGA)
146	NORTHERN	BUNKPURUGU YONYO	818100018	PEBUN	PEBUN
147	NORTHERN	BUNKPURUGU YONYO	818100028	SAGBAN	SAGBAN
148	NORTHERN	BUNKPURUGU YONYO	818100050	TEMAA (JEGORI)	TEMAA (JEGORI)
149	NORTHERN	BUNKPURUGU YONYO	818100058	MANGOR	MANGOR
150	NORTHERN	BUNKPURUGU YONYO	818100083	BUNKPURUGU	CATHOLIC CHURCH
151	NORTHERN	BUNKPURUGU YONYO	818100099	CHINTLUNG NO.2	L/A PRIM. SCHOOL
152	NORTHERN	BUNKPURUGU YONYO	818100132	NAJONG 1	UNITED PRIM A & JHS

153	NORTHERN	BUNKPURUGU YONYO	818100164	PULIN KUAN	PULIN KUAN
154	NORTHERN	MAMPRUSI EAST	819100027	TINDANTUA	TINDANTUA
155	NORTHERN	MAMPRUSI EAST	819100072	ZIGUM	ZIGUM
156	NORTHERN	MAMPRUSI EAST	819100084	TUNA NO.1	TUNA NO.1
157	NORTHERN	MAMPRUSI EAST	819100105	GBANGU	MARKET
158	NORTHERN	MAMPRUSI EAST	819100120	TICHERIGITABA	TICHERIGITABA
159	NORTHERN	MAMPRUSI EAST	819100132	NALERIGU	REST HOUSE
160	NORTHERN	MAMPRUSI EAST	819100168	NEW NAMENBOAKA	NEW NAMENBOAKA
161	NORTHERN	MAMPRUSI WEST	820100040	ALAVANYO	ALAVANYO
162	NORTHERN	MAMPRUSI WEST	820100075	SOO	R/C PRIMARY SCHOOL
163	NORTHERN	MAMPRUSI WEST	820100111	BULBIA	MARKET
164	NORTHERN	MAMPRUSI WEST	820100160	WALEWALE	PAANTAKI DRUG STORE
165	NORTHERN	MAMPRUSI WEST	820100177	ZANGU-VUGA	MOSQUE
166	NORTHERN	MAMPRUSI WEST	820100212	GBIMSI	CENTRAL MOSQUE
167	NORTHERN	MAMPRUSI WEST	820100246	GBEO	GBEO
168	UPPER EAST	BUILSA	901100090	WIAGA-AKISI-YERI	WIAGA-AKISI-YERI
169	UPPER EAST	BUILSA	901100135	SINIENSI-YIKPIEN	SINIENSI-YIKPIEN
170	UPPER EAST	KASENA NANKANA WEST	902100023	GWENIA ADANIA - NORTH	GWENIA ADANIA - NORTH
171	UPPER EAST	KASENA NANKANA WEST	902100050	KAJELO DIIBA	KAJELO DIIBA
172	UPPER EAST	KASENA NANKANA EAST	903100065	NAVRONGO	WAR MEMORIAL HOSPITAL
173	UPPER EAST	KASENA NANKANA EAST	903100076	NAVRONGO	MAYAGA HOTEL
174	UPPER EAST	KASENA NANKANA EAST	903100087	NAVRONGO	AWE SEC. TEC. SCHOOL
175	UPPER EAST	KASENA NANKANA EAST	903100101	KANDIGA ATIBABISA PRIMARY SCH	KANDIGA ATIBABISA PRIMARY SCH
176	UPPER EAST	BOLGATANGA	904001021	BOLGA OLD ZONGO	BOLGA OLD ZONGO
177	UPPER EAST	BOLGATANGA	904001042	BUKERE	BUKERE
178	UPPER EAST	BOLGATANGA	904001062	TINDOMOLOGO	TINDOMOLOGO
179	UPPER EAST	BOLGATANGA	904200015	GAMBIBGO	GAMBIBGO
180	UPPER EAST	BOLGATANGA	904200048	ZUARUNGU DABORO	WORD INTERNATIONAL SCHOOL
181	UPPER EAST	BOLGATANGA	904200216	ZUAGUNGU KATAGA (AGENKOLGO)	PRIMARY SCHOOL
182	UPPER EAST	TALENSI NABDAM	905100033	TONGO	TONGO
183	UPPER EAST	TALENSI NABDAM	905100070	BAAPELUG	BAAPELUG

184	UPPER EAST	TALENSI NABDAM	905100115	TINDONGO TINGRE	TINDONGO PRIMARY SCHOOL
185	UPPER EAST	TALENSI NABDAM	905100151	ZIEMBOUNG	ZIEMBOUNG
186	UPPER EAST	TALENSI NABDAM	905100189	KONGO BASABLIGO	COMMUNITY CENTRE
187	UPPER EAST	BONGO	906100006	SAPOORO	ANABA'S HOUSE
188	UPPER EAST	BONGO	906100077	ZOKO GOO	GOO JHS
189	UPPER EAST	BONGO	906100108	SAMBOLIGU AMANGA DADIMGO	SAMBOLIGU AMANGA DADIMGO
190	UPPER EAST	BAWKU WEST	907100021	NAMOGO	NAMOGO
191	UPPER EAST	BAWKU WEST	907100051	ZUAYANGA NO.2	ZUAYANGA NO.2
192	UPPER EAST	BAWKU WEST	907100082	WIIGA	ANGLICAN CHURCH WIIGA
193	UPPER EAST	GARU TEMPANE	908100024	SONGO	SONGO
194	UPPER EAST	GARU TEMPANE	908100058	POASIAMABAG	POASIAMABAG
195	UPPER EAST	GARU TEMPANE	908100108	GARU	MARKET
196	UPPER EAST	GARU TEMPANE	908100134	NADIGIRI - TOPIAN	NADIGIRI - TOPIAN
197	UPPER EAST	GARU TEMPANE	908100167	KUGASEGO BUGRI NO.2	KUGASEGO BUGRI NO.2
198	UPPER EAST	GARU TEMPANE	908100201	AKUURBU AREN OLD GAGBIRI	AKUURBU AREN OLD GAGBIRI
199	UPPER EAST	BAWKU MUNICIPAL	909200015	DABIA NO. 1	NABA ATANOYRE ARDUK'S HOUSE
200	UPPER EAST	BAWKU MUNICIPAL	909200050	WIDANTENG	WIDANTENG
201	UPPER EAST	BAWKU MUNICIPAL	909200085	KUKUSI	ZABURU R/C CHURCH
202	UPPER EAST	BAWKU MUNICIPAL	909200168	AZUM SAPELLIGA	AZUM SAPELLIGA
203	UPPER EAST	BAWKU MUNICIPAL	909200215	BAWKU SABON ZONGO	NO. PRIMARY/JHS SCHOOL
204	UPPER EAST	BAWKU MUNICIPAL	909200251	BUKARI YAMKAMBE'S HOUSE	BAWKU SAGIBO: BUKARI YAMKAMBEY'S HOUSE
205	UPPER EAST	BAWKU MUNICIPAL	909200287	BAWKU PATILIMI	J200/1
206	UPPER WEST	WA WEST	1001001022	WA	WA
207	UPPER WEST	WA WEST	1001100010	TAWONCHELE NO.2(BAGA)	TAWONCHELE NO.2(BAGA)
208	UPPER WEST	WA WEST	1001100103	DORIMON	HEALTH CARE
209	UPPER WEST	WA MUNICIPAL	1002200005	PIISI	R/C PRIMARY SCHOOL
210	UPPER WEST	WA MUNICIPAL	1002200039	WA	TENDAMA PRIMARY SCHOOL
211	UPPER WEST	WA MUNICIPAL	1002200067	WA	RESIDENTIAL AREA- NAA SIDIKI BOMI II PARK
212	UPPER WEST	WA EAST	1003100020	JEYIRI	JEYIRI
213	UPPER WEST	WA EAST	1003100050	KPALISAGA	KPALISAGA
214	UPPER WEST	WA EAST	1003100081	KUNDUNGU	HEALTH CENTRE

215	UPPER WEST	SISSALA EAST	1004100083	TUMU	REGULAR BAPTIST CHURCH
216	UPPER WEST	NADOWLI	1005100030	OMBO	OMBO
217	UPPER WEST	NADOWLI	1005100065	KYANG	KYANG
218	UPPER WEST	NADOWLI	1005100100	VOGONNI	VOGONNI
219	UPPER WEST	NADOWLI	1005100134	DAFFIAMA	ANTHONY'S BAR
220	UPPER WEST	JIRAPA	1006100049	PING	D.A PRIMARY SCHOOL
221	UPPER WEST	JIRAPA	1006100099	JEFYIRI	CHIEF'S PALACE
222	UPPER WEST	JIRAPA	1006100134	POKORI	POKORI
223	UPPER WEST	SISSALA WEST	1007100005	KUNTULO	KUNTULO
224	UPPER WEST	SISSALA WEST	1007100044	KUSALI	THE MOSQUE
225	UPPER WEST	LAMBUSSIE KARNI	1008100070	DAHILI	CHIEF'S PALACE
226	UPPER WEST	LAWRA	1009100023	TUMO (TUMA)	TUMO (TUMA)
227	UPPER WEST	LAWRA	1009100079	HAYIOUNG	HAYIOUNG
228	UPPER WEST	LAWRA	1009100124	MUNYUPELI	MUNYUPELI
229	UPPER WEST	LAWRA	1009100151	NANDOM	OLD NPP OFFICE (ALHAJI LIMAN SIDIKI HOUSE)
230	UPPER WEST	LAWRA	1009100179	KOKOLIGU GBANTAKURI	KOKOLIGU GBANTAKURI

## Appendix D: Population-Based Survey Instruments

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

Version 05  
29 JULY 2012

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

**1.01 Enumerator Identification Number?**

	<i>Not Listed</i>		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, your team will interview 20 households. Locate and interview the list of households assigned to you by your supervisor. If after two attempts you are unsuccessful in obtaining audience, report the case to your supervisor for the next line of action. Do not complete questions 1.08 and 1.09 until after completing Module II. All applicable questionnaire sections should be asked of all appropriate household members. Pay attention to the skip patterns and follow 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	Enumerator Code	
1.02. Region:		<input type="text"/>	1.13 GPS Coordinates of household	
1.03. District:		<input type="text"/>	Household latitude	Household longitude
1.04 Community/Village Name:			<input type="text"/>	<input type="text"/>
1.05. EA Number		<input type="text"/>	<input type="text"/>	<input type="text"/>
1.06. Household Number		<input type="text"/>	Visit	Date DD / MM
1.08. Name of primary respondent (code from roster in Module 2):		<input type="text"/>	Visit I	Interview start and end time (24HR)
Surname, First Name:.....				START: HH __MM__
1.09. Name of secondary respondent (code from roster in Module 2):		<input type="text"/>	Visit II	END: HH __MM__
Surname, First Name:.....				START: HH __MM__
1.10. Type of household:		<input type="text"/>	Visit III	END: HH __MM__
1.11. Main religion of household (See codes below):		<input type="text"/>	1.18. Name/code of supervisor:	
			<input type="text"/>	
			1.19. Final outcome of interview (enter code)	
			<input type="text"/>	

1.12. Main ethnic group of the household (enter code):	<input type="text"/>		
--	----------------------	--	--

**Codes for questions in table above**

1.02 Region Codes	1.03: Districts Codes for Northern Region		1.03: Districts Codes for Upper East Region	1.03: Districts Codes for Upper West Region
07 – Brong Ahafo	Bole/Bamboi - 01	Nanumba South - 11	Bawku Municipal - 21	Jirapa - 30
08 - Northern Region	Bunkpurugu/Yunyoo - 02	Saboba - 12	Bawku West - 22	Lambussie Karni - 31
09 - Upper East Region	Central Gonja - 03	Savelugu/Nanton - 13	Bolgatanga Municipal - 23	Lawra - 32
10 - Upper West Region	Chereponi - 04	Sawla/Tuna/Kalba - 14	Bongo - 24	Nadowli - 33
	East Gonja - 05	Tamale Metro - 15	Builsa - 25	Sissala East - 34
	East Mamprusi - 06	Tolon/Kumbungu - 16	Garu/Tempane - 26	Sissala West - 35
	Gusheigu - 07	West Gonja - 17	Kassena Nankana - 27	Wa East - 36
	Karaga - 08	West Mamprusi - 18	Kassena Nankana West - 28	Wa Municipal - 37
	Kpandai - 09	Yendi Muni - 19	Talensi Nabdam - 29	Wa West - 38
	Nanumba North - 10	Zabzugu/Tatali - 20		
1.03: Districts Codes for Brong Ahafo Region	1.10: Household Type Code	1.11: Main Religion		A12: Main ethnic Group
Jaman North - 39	1 - Male and Female adult (M&F)	1 - No Religion		Akan -01
Kintampo North Municipal -40	2 - Female adult only (FNM)	2 - Catholic		Ga-Dangme -02
Kintampo South -41	3 - Male adult only (MNF)	3 - Protestant (Anglican, Lutheran, Presbyterian, Methodist etc)		Ewe -03
Pru -42	4 - Child only household (CNA)	4 - Pentecostal/Charismatic		Guan -04
Sene -43		5 - Other Christian		Mole-Dagbani -05
Tain -44		6 - Islam		Grusi -06
Wenchi Municipal -45		7 - Traditionalist		Mande -07
		8 - Other (specify)		Gurma -08
				Other -09
1.19. Final outcome of interview (enter code)				

1 - Completed 2 - No household member or no competent respondent at home during all visits 3 - Entire household absent for extended period of time 4 - Refused 5 - Dwelling destroyed 6 - Dwelling not found 7 - Other (specify) _____	
--	--

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

TO THE ENUMERATOR:

Administer the consent form to each eligible respondent.

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

**Note to Enumerator:** *The primary respondent is ideally the person with the most decision making authority in the household. The secondary respondent is the person of opposite sex to the primary respondent with the most decision making authority in the household. Refer to manual on details of who the secondary and primary respondent could be.*

1. Respondent Number (from HH Listing)	2. Type of Respondent	3. Name of Respondent	4. Status of Participation	5. Signature Mark	6. Cell Phone Number
			1 - Yes (Participate) 2 - No>>End Survey		
	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.*

**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

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Dr. Tim Dalton  
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Phone: 1-785-477-8239  
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 2<sup>nd</sup> 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.

URCO

JUN 15 12

**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:** \_\_\_\_\_

**URCO**



Last revised on May 20, 2004

**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.

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



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

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

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

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

No.	Question	Response Code
3.01	In the last 4 weeks, was there ever no food to eat of any kind in your dwelling because of lack of resources to get food?	1 = Yes 2 = No >>3.03
3.02	How often did this happen in the last 4 weeks?	1 = Rarely (1-2 times) 2 = Sometimes (3-10 times) 3 = Often (more than 10 times)
3.03	In the last 4 weeks, did you or any household member go to sleep at night hungry because there was not enough food?	1 = Yes 2 = No >>3.05
3.04	How often did this happen in the last 4 weeks?	1 = Rarely (1-2 times) 2 = Sometimes (3-10 times) 3 = Often (more than 10 times)
3.05	In the last 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 2 = No >>end of module
3.06	How often did this happen in the last 4 weeks?	1 = Rarely (1-2 times) 2 = Sometimes (3-10 times) 3 = Often (more than 10 times)

### Visit 1- Module 3B: Cultivation of Key Crops

Crop	3b.1 Did household cultivate any of these crops during the immediate past cropping season? Yes – 1 No - 2 >> Next crop	3b.2 What was the approximate size of land cultivated?		3b.3 What was the quantity of crop produced?		3b.4 Income from crop sales <b>NB: Quantity should be in same unit as 3b.3</b>	
		Quantity	Unit . <b>1-Poles 2-Acres 3-Plots 4-Hect. 5-Mtr sqr</b>	Quantity	Unit <b>1-Mxbag, 2-Mnbag 3-Tonnes</b>	Quantity (If no sales >>Next crop)	Income (GH¢)
Maize							
Rice							
Soya							

**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 eligible 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)  <b>4.00A</b>	Respondent Name  <b>4.00B</b>	<b>Enumerator Instruction:</b> Ask this question only if consent has not already been obtained in Module 1  Do you agree to participate in the survey?  1 = Yes → <i>Continue with questions</i> 2 = No → <i>STOP survey for this woman, move to next women, if none END MODULE</i> <b>4.00C</b>	Signature/Thumbprint  <b>4.00D</b>

Respondent (Female 15-49 years) ID Code	In what month and year were you born?		What was your age at your last birthday?	IS THE RESPONDENT BETWEEN THE AGES OF 15 AND 49 YEARS?
	Month (mm)	Year (YYYY)	RECORD AGE IN COMPLETED YEARS	IF THE INFORMATION IN 4.02 / 4.03 AND 4.04 CONFLICTS, DETERMINE WHICH IS MOST ACCURATE  Yes = 1 No = 2 (>> next woman or end module)
4.01	4.02	4.03	4.04	4.05

**Codes for Months**

Jan = 01 Feb = 02 Mar = 03	April = 04 May = 05 June = 06	July = 07 Aug = 08 Sep = 09	Oct = 10 Nov = 11 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 No = 2 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)							
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					
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					
4.27	<b><i>OTHER FOODS: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT INCLUDED IN ANY OF THE FOOD GROUPS ABOVE:</i></b>					

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

**Enumerator Instructions:** Ask of Caregivers of each Child **aged 6-23 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.

1. Mother or Primary Caregiver's ID (from HH Roster)	2. Respondent (CAREGIVER'S) Name	3. Do you agree to participate in the survey? 1 = Yes → <i>Continue with questions</i> 2 = No → <i>STOP survey for this woman, move to next women, if none END MODULE</i>	4. Signature/Thumbprint



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 2 - Female					
5.04	What is <b>(CHILD'S NAME)</b> full date of birth (dd/mm/yyyy)?  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 <b>(CHILD'S NAME)</b> at his/her last birthday? <b>RECORD AGE IN COMPLETED YEARS.</b>	0 - less than 1 year 1 - 1 year 2 - 2 or more years					
5.06	How many months old is <b>(CHILD'S NAME)</b> ? <b>RECORD AGE IN COMPLETED MONTHS.</b>	Months					
5.07	<b>CHECK QUESTIONS 5.04, 5.05 AND 5.06 TO VERIFY CONSISTENCY.</b> 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.						
5.07A	Is the year recorded in <b>5.04</b> consistent with age in years recorded in <b>5.05</b> ?	1 - Yes 2 - No					
5.07B	Are year and month of birth recorded in <b>5.04</b> consistent with age in months recorded in <b>5.06</b> ?	1 - Yes 2 - No					
5.08	Check question <b>5.06</b> . is the child equal to or older than 6 months and less than 24 months?	1 - Yes >> continue with module 2 - No >>next child/ end module 98 - DK/ NA >> next child/end module					

No	Question	Response Code	Response				
			Child I	Child II	Child III	Child IV	Child V
5.09	Has <b><i>(CHILD'S NAME)</i></b> ever been breastfed?	1 - Yes 2 - No >> skip to 5.11 98 - DK/NA >> skip to 5.11					
5.10	Was <b><i>(CHILD'S NAME)</i></b> breastfed yesterday during the day or at night?	1 - Yes >> skip to 5.12 2 - No 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.  Did <b><i>(CHILD'S NAME)</i></b> consume breast milk in any of these ways yesterday during the day or at night?	1 - Yes 2 - No 98 - DK/NR					
5.12	Now I would like to ask you about some medicines and vitamins that are sometimes given to infants. Was <b><i>(CHILD'S NAME)</i></b> given any vitamin drops or other medicines as drops yesterday during the day or at night?	1 - Yes 2 - No 98 - DK/NR					
5.13	Was <b><i>(CHILD'S NAME)</i></b> given <b>ORS</b> yesterday during the day or at night?	1 - Yes 2 - No 98 - DK/NR					

No	Question	Response Code	Response				
			Child I	Child II	Child III	Child IV	Child V
<p><b>Enumerator Ask:</b> 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 <b><u>(CHILD'S NAME)</u></b> may have had yesterday during the day or at night.</p>							
5.14	Plain water?	1 – Yes 2 - No 98 - DK/NR					
5.15	Infant formula such as winning mix or commercially produced infant formula?	1 – Yes 2 - No >> skip to 5.17 98 - DK/NR >> skip to 5.17					
5.16	How many times <b>(number)</b> yesterday during the day or at night did <b><u>(CHILD'S NAME)</u></b> consume any formula?	98 - Don't know					
5.17	Milk such as tinned, powdered, or fresh animal milk?	1 – Yes 2 - No >> skip to 5.19 98 - DK/NR >> skip to 5.19					
5.18	How many times <b>(number)</b> yesterday during the day or at night did <b><u>(CHILD'S NAME)</u></b> consume any milk?	98=- Don't know					
5.19	Juice or juice drinks?	1 – Yes 2 - No 98 - DK/NR					
5.20	Clear broth?						
5.21	Yogurt?	1 – Yes 2 - No >> skip to 5.23 98 - DK/NR >> skip to 5.23					
5.22	How many times <b>(number)</b> yesterday during the day or at night did <b><u>(CHILD'S NAME)</u></b> consume any yogurt?	98=- Don't know					
5.23	Thin porridge?	1 - Yes 2 - No 98 - DK/NR					
5.24	Any other liquids. Specify						

No	Question	Response Code	Response				
			Child I	Child II	Child III	Child IV	Child V
<p>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. <b>Enumerators should probe until respondent says child went to sleep at night.</b></p> <p><b>Consumption Questions:</b>  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.</p> <ol style="list-style-type: none"> <li>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)</li> <li>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:</li> <li>3. What ingredients were in that (MIXED DISH)? PROBE: Anything else? Until respondent says nothing else.</li> </ol> <p>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-</p> <p>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)?</p>							
5.25	Bread, rice, noodles, porridge or other foods made from grains (kenkey, banku, koko, tuo zaafi, akple)	<b>Response Code</b> 1 - Yes 2 - No 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 2 - No 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	<b>OTHER FOODS: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT INCLUDED IN THE FOOD GROUPS LISTED ABOVE:</b>						
	<b>CHECK CATEGORIES 5.25-5.41</b>	If at least one 'YES' or all 'DK/NR' >> 5.44 If all 'NO' >> 5.43					
5.43	Did <b>(CHILD'S NAME)</b> eat any solid, semi-solid, or soft foods yesterday during the day or at night? <b>IF 'YES' PROBE:</b> What kind of solid, semi-solid, or soft foods did <b>(CHILD'S NAME)</b> eat?	Yes = 1 >> go back to 5.25-5.41 and record foods eaten. Then continue with 5.44 No = 2 >> next child/end module DK/NR = 98 >> next child/end module					
5.44	How many times <b>(number)</b> did <b>(CHILD'S NAME)</b> eat solid, semi-solid, or soft foods other than liquids yesterday during the day or at night?	98 - Don't know					

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 2 - Female					
6.04	What is <b>(CHILD'S NAME)</b> full date of birth (dd/mm/yyyy)?  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 <b>(NAME)</b> ? <b>RECORD AGE IN COMPLETED MONTHS</b>	Months					
6.06	<b>CHECK QUESTIONS 6.04 AND 6.05 TO VERIFY CONSISTENCY</b> 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 <b>6.04</b> consistent with age in months recorded in <b>6.05</b> ?	1 - Yes 2 - No					
6.08	check question <b>6.06</b> and <b>6.07</b> : Is the child less than 6 months (i.e. 0-5 months)?	1 - Yes >> continue 2 - No >> next child/ end module 98 - DK >> next child/end module					

No	Question	Response Code	Response				
			Child I	Child II	Child III	Child IV	Child V
6.09	Has <b><u>(CHILD'S NAME)</u></b> ever been breastfed?	1 - Yes 2 - No >> 6.11 98 - DK/NR >> 6.11					
6.10	Was <b><u>(CHILD'S NAME)</u></b> breastfed yesterday during the day or at night?	1 - Yes >> 6.12 2 - No 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.  Did <b><u>(CHILD'S NAME)</u></b> consume breast milk in any of these ways yesterday during the day or at night?	1 - Yes 2 - No 98 - DK/NR					
6.12	Now I would like to ask you about some medicines and vitamins that are sometimes given to infants.  Was <b><u>(CHILD'S NAME)</u></b> given any vitamin drops or other medicines as drops yesterday during the day or at night?	1 - Yes 2 - No 98 - DK/NR					
6.13	Was <b><u>(CHILD'S NAME)</u></b> given <b>ORS</b> yesterday during the day or at night?	98 - DK/NR					

**Consumption Questions:** NOTE TO ENUMERATOR: READ THE QUESTIONS BELOW. READ THE LIST OF LIQUIDS ONE BY ONE AND MARK YES OR NO, ACCORDINGLY.

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 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					
6.20	Thin porridge?	2 - No 98 - DK/NR					
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 SAYS NOTHING 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 SAYS NOTHING 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 SAYS NOTHING 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 <b>(NAME)</b> drink/eat any <b>(FOOD GROUP ITEMS)</b> ?							
No	Question	Response Code	Response				
			Child I	Child II	Child III	Child IV	Child V
6.22	Bread, rice, noodles, porridge or other foods made from grains (kenkey, banku, koko, tuo zaafi, akple)	1 - Yes 2 - No 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, <del>manioe</del> , 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						
6.29	Any meat, such as beef, pork, lamb, goat, chicken, or duck	1 - Yes 2 - No 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 <b>chilies</b> , 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	<b><i>OTHER FOODS: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT IN THE LIST BELOW:</i></b>						
6.40	<b>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</b>						
6.41	Did <b>(CHILD’S NAME)</b> eat any solid, semi-solid, or soft foods yesterday during the day or at night?  <b>IF ‘YES’ PROBE:</b> What kind of solid, semi-solid, or soft foods did <b>(CHILD’S NAME)</b> eat?	1 - Yes >>go back to 6.22-6.38 and record foods eaten then continue with 6.41 2 - No >> end module 98 - DK/NR >> end module					
6.42	How many times did <b>(CHILD’S NAME)</b> eat solid, semi-solid, or soft foods other than liquids yesterday during the day or at night?						
	<b>End of Module</b>						

**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 Roster HH	Name of Woman	Do you agree to be measured? 1 - Yes >> Continue 2 - No >>Next woman, if none end module	WEIGHT IN KILOGRAMS	HEIGHT IN CENTIMETERS	Are you pregnant? 1 - Yes 2 - No 98 - DK
7.1	7.2	7.3	7.4	7.5	7.6
			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
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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?  Yes = 1 No = 2 >> End Module	Child Sex  1 - Male 2 - Female	In what day, month and year was <CHILD'S NAME> born?			Child's Age (in Months)	Child less than 60 months?  1 - Yes 2 - No>> End Module 98 - DK/NR >> End Module	Child's Weight (in Kilograms )	Child Height (in Cm) Children < 24 mons measure lying down; children >= 24 mons measure standing up	Child Edema  Yes = 1 No = 2
			Day (DD)	Month (MM)	Year (YYYY)					

## 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.	<b>ENUMERATOR: OBSERVE (DO NOT ASK)</b> Roof top material (outer covering):		1. Palm leaves/raffia/thatch 2. Wood 3. Corrugated metal sheets 4. Asbestos/slate	5. Roofing tiles 6. Mud bricks/earth 7. Bamboo 8. Other
9.02.	<b>ENUMERATOR: OBSERVE (DO NOT ASK)</b> Floor material:		1. Earth/mud/mud bricks 2. Wood 3. Stone 4. Cement/concrete 5. Burnt bricks	6. Vinyl tiles 7. Ceramic/marble tiles 8. Terrazzo 9. Other
9.03.	<b>ENUMERATOR: OBSERVE (DO NOT ASK)</b> Exterior Walls:		1. Mud/mud bricks 2. Wood/bamboo 3. Metal sheets/slate/asbestos 4. Stones 5. Burnt bricks	6. Cement/sandcrete blocks 7. Thatch 8. Cardboard 9. Other
9.04.	<b>ENUMERATOR: OBSERVE (DO NOT ASK)</b> State of the dwelling:		1. In excellent repair, no sign of wear 2. In good shape, some minor wear-and-tear or damage 3. In moderate condition, some damage and moderate wear-and-tear	4. In poor shape, much damage 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? <b>(Enter 0 if not shared)</b>			
9.06.	This dwelling is [READ OPTIONS]:		1. Rented 2. Owned	3. Borrowed (no payment) 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?		<ol style="list-style-type: none"> <li>1. Flush toilet (WC)</li> <li>2. Pit Latrine</li> <li>3. KVIP</li> <li>4. Pan/bucket</li> </ol>	<ol style="list-style-type: none"> <li>5. Public toilet (flush/bucket/KVIP)</li> <li>6. Toilet in another house</li> <li>7. No toilet facility (bush, beach)</li> <li>8. Other</li> </ol>
9.10.	Is there a water source inside the dwelling?		<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	
9.11.	What is the main source of water for general use for your household		<ol style="list-style-type: none"> <li>1. Piped into dwelling</li> <li>2. Piped into plot/yard</li> <li>3. Public tap (someone else's private tap)</li> <li>4. Tube well/borehole</li> <li>5. Protected dug well</li> <li>6. Protected spring</li> </ol>	<ol style="list-style-type: none"> <li>7. Rain water collection</li> <li>8. Unprotected dug well/springs</li> <li>9. River/ponds/streams/Dam</li> <li>10. Tankers-truck/vendor</li> <li>11. Sachet water &gt;&gt; 9.15</li> <li>12. Bottled water &gt;&gt;9.15</li> <li>13. Other (specify)</li> </ol>
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?		<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No &gt;&gt; 9.15</li> </ol>	
9.14.	What is the process through which you prepare the water used for drinking? (If more than one option is applicable, chose the most effective option)		<ol style="list-style-type: none"> <li>1. Filtered</li> <li>2. Boiled</li> <li>3. Filtered and boiled</li> </ol>	<ol style="list-style-type: none"> <li>4. Iodine or other mineral/natural treatments</li> <li>5. UV treated</li> <li>6. Other</li> </ol>
9.15.	Does this dwelling have access to electricity?		<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	
9.16.	What is the main lighting source for your household?		<ol style="list-style-type: none"> <li>1. Electricity via national grid</li> <li>2. Solar panel</li> <li>3. Piped or liquid propane gas (biogas)</li> <li>4. Private generator</li> </ol>	<ol style="list-style-type: none"> <li>5. Public or shared generator</li> <li>6. Lanterns/candles/paraffin</li> <li>7. Fire lit sticks, grass or pit</li> <li>8. Other</li> </ol>

9.17.	What is the main source of cooking fuel for your household?		<ul style="list-style-type: none"> <li>1. Electricity</li> <li>2. Piped or liquid propane gas (biogas)</li> <li>3. Kerosene</li> <li>4. Charcoal</li> </ul>	<ul style="list-style-type: none"> <li>5. Firewood</li> <li>6. Animal dung</li> <li>7. Agricultural crop residue</li> <li>8. Other</li> </ul>
<b>No</b>	<b>Question</b>	<b>Response</b>	<b>Response Codes</b>	
9.18	Do you cook in an external kitchen or internal kitchen?		<ul style="list-style-type: none"> <li>1. External</li> <li>2. Internal</li> </ul>	
9.19.	What is the main destination of household waste for this household?		<ul style="list-style-type: none"> <li>1. Collected by local authority</li> <li>2. Collected by private firm</li> <li>3. Own garbage pit or heap</li> <li>4. Own burned or buried</li> <li>5. Public garbage</li> </ul>	<ul style="list-style-type: none"> <li>6. Dumped in vacant land/property</li> <li>7. Dumped in river, lake or sea</li> <li>8. Other</li> </ul>

## 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)  Male and female adult .....1 Female adult only.....2	
10.1.02. Name of respondent currently being interviewed (Select from drop down list):  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):  Male .....1 Female .....2		Codes for 10.1.05 Alone .....1 With adult females present.....2 With adult males present .....3 With adults mixed sex present.....4 With children present .....5 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)?  Yes ..... 1 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	<b>10.2.01</b>	<b>10.2.02</b>	<b>10.2.03</b>
<b>A</b>	Food crop farming: crops that are grown primarily for household food consumption			
<b>B</b>	Cash crop farming: crops that are grown primary for sale in the market			
<b>C</b>	Livestock raising			
<b>D</b>	Non-farm economic activities: Small business, self-employment, buy-and-sell			
<b>E</b>	Wage and salary employment: in-kind or monetary work both agriculture and other wage work			
<b>F</b>	Fishing or fishpond culture			
		<u>Codes for 10.2.02 and 10.2.03: Input into decision making</u> No input ..... 1 Input into very few decisions ..... 2 Input into some decisions ..... 3 Input into most decisions..... 4 Input into all decisions ..... 5 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]?  Yes ..... 1 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		<b>10.3.01a</b>	<b>10.3.01b</b>	<b>10.3.02</b>	<b>10.3.03</b>	<b>10.3.04</b>	<b>10.3.05</b>	<b>10.3.06</b>
<b>A</b>	Agricultural land (pieces/plots)							
<b>B</b>	Large livestock (oxen, cattle)							
<b>C</b>	Small livestock (goats, pigs, sheep)							
<b>D</b>	Chickens, Ducks, Turkeys, Pigeons							
<b>E</b>	Fish pond or fishing equipment							
<b>F</b>	Farm equipment (non-mechanized)							
<b>G</b>	Farm equipment (mechanized)							
<b>H</b>	Nonfarm business equipment							
<b>I</b>	House (and other structures)							
<b>J</b>	Large consumer durables (fridge, TV, sofa)							
<b>K</b>	Small consumer durables (radio, cookware)							
<b>L</b>	Cell phone							
<b>M</b>	Other land not used for agricultural purposes (pieces, residential or commercial land)							
<b>N</b>	Means of transportation (bicycle, motorcycle, car)							
<b>Codes for 10.3.02 to 10.3.06: Decision-making and control over productive capital</b>								
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 last 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]?	If more credit had been available from this source, would you have used it?  1 = Yes >> Next lending source  2 = No	Why would you not have borrowed more from [SOURCE]?  Select code then >> Next source	Did you want to borrow or get a loan from [SOURCE] in the last 12 months but did not?  1 = Yes  2 = No >> Next source	Why were you not able to borrow from [SOURCE]?  (Main reason only)
Lending source names		10.3.07	10.3.08	10.3.09	10.3.10A	10.3.10B	10.3.11A	10.3.11B
<b>A</b>	Non-governmental organization (NGO)							
<b>B</b>	Informal lender							
<b>C</b>	Formal lender (bank/financial institution)							
<b>D</b>	Friends or relatives							
<b>E</b>	Group based micro-finance or lending including Village Savings and Loans Associations (VSLAs)/susu etc.							
<b>Codes for 10.3.07 Taken loans</b>		<b>Codes for 10.3.08 &amp; 10.3.09:</b>			<b>Codes for 10.3.10B/10.3.11B: Borrowing</b>			
Yes, cash..... 1		Self.....1			Have enough money.....1			
Yes, in-kind..... 2		Partner/Spouse .....2			Afraid of losing collateral.....2			
Yes, cash and in-kind..... 3		Self and partner/spouse jointly.....3			Do not have enough collateral/did not qualify for the loan.....3			
No ..... 4 >> 10.3.11a		Other household member .....4			Afraid cannot pay back the money.....4			
Don't know.....5 >> 10.3.11a		Self and other household member(s).....5			Interest rate/other costs too high.....5			
		Partner/Spouse and other household member(s).....6			Not allowed to borrow/family dispute in borrowing decision.....6			
		Someone (or group of people) outside the household.....7			Place of lender is too far.....7			
		Self and other outside people.....8			Short time frame for repayment.....8			
		Partner/Spouse and other outside people.....9			Other, specify.....9			
		Self, partner/spouse and other outside people.....10						

**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
10.4.02	Do you feel comfortable speaking up in public to ensure proper payment of wages for public works or other similar programs?		Yes, but with a great deal of difficulty...2
10.4.03	Do you feel comfortable speaking up in public to protest the misbehavior of authorities or elected officials?		Yes, but with a little difficulty.....3
			Yes, fairly comfortable .....4
			Yes, very comfortable.....5

**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? 1 = Yes 2 = No >> next group 3 = DK >> next group	Are you an active member of this [GROUP]? 1 = Yes 2 = No >> <b>10.4.07</b>	How much input do you have in making decisions in this [GROUP]? (>> next group)	Why are you not a member of this [GROUP]?
	Group Categories	<b>10.4.04</b>	<b>10.4.05</b>	<b>10.4.06</b>	<b>10.4.07</b>
<b>A</b>	Agricultural / livestock/ fisheries producer's group (including marketing groups)				
<b>B</b>	Water users' group				
<b>C</b>	Forest users' group				
<b>D</b>	Credit or microfinance group (including Susu/ Village Savings and Loans Associations (VSLAs)				
<b>E</b>	Mutual help or insurance group (including burial societies)				
<b>F</b>	Trade and business association				
<b>G</b>	Civic groups (improving community) or charitable group (helping others)				
<b>H</b>	Local government				
<b>I</b>	Religious group				
<b>J</b>	Other women's group (only if it does not fit into one of the other categories)				
<b>K</b>	Other (specify)				
<b>10.4.06: Input into decisions</b>				<b>10.4.07: Why not member of group</b>	

No input ..... 1	Not interested.....1
Input into very few decisions ..... 2	No time ..... 2
Input into some decisions ..... 3	Unable to raise entrance fees ..... 3
Input into most decisions..... 4	Unable to raise reoccurring fees... 4
Input into all decisions.....5	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)**

<p><b>ENUMERATOR:</b> Ask 10.5.01 for all categories of activities before asking 10.5.02. Do <u>not</u> 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.</p> <p>If household does not engage in that particular activity, enter 98 and proceed to next activity.</p>		<p>When decisions are made regarding the following aspects of household life, who is it that normally takes the decision?</p>	<p>To what extent do you feel you can make your own personal decisions regarding these aspects of household life if you want(ed) to?</p> <p><b>Enumerator:</b> 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.</p>
		<b>10.5.01</b>	<b>10.5.02</b>
<b>A</b>	Agricultural production?		
<b>B</b>	What inputs to buy for agricultural production?		
<b>C</b>	What types of crops to grow for agricultural production?		
<b>D</b>	When or who would take crop produce to the market?		
<b>E</b>	Livestock raising?		
<b>F</b>	Non-farm business activity?		
<b>G</b>	Your own (singular) wage or salary employment?		
<b>H</b>	Major household expenditures? (such as a large appliance for the house like refrigerator)		
<b>I</b>	Minor household expenditures? (such as food for daily consumption or other household needs)		
<p><b>Codes for 10.5.01: Who makes decision</b></p> <p>Main male or husband.....1                  Main female or wife .....2                  Husband and wife jointly .....3                  Someone else in the household.....4                  Jointly with someone else inside the household .....5                  Jointly with someone else outside the household .....6                  Someone outside the household/other .....7                  Household does not engage in activity/Decision not made98</p>		<p><b>Codes for 10.5.02: Extent of participation in decision making</b></p> <p>Not at all .....1                  Small extent.....2                  Medium extent.....3                  To a high extent.....4</p>	

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

<p><b>ENUMERATOR:</b> 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:</p> <p>If household does not engage in that particular activity, enter 98 and proceed to next activity.</p>		<p>My actions in [ASPECT] are determined by the situation. I don't really have an option.</p> <p>[READ OPTIONS]</p>	<p>My actions in [ASPECT] are partly because I will get in trouble with someone if I act differently.</p> <p>[READ OPTIONS]</p>	<p>Regarding [ASPECT] I do what I do so others don't think poorly of me.</p> <p>[READ OPTIONS]</p>	<p>Regarding [ASPECT] I do what I do because I personally think it is the right thing to do.</p> <p>[READ OPTIONS]</p>
		<b>10.5.03</b>	<b>10.5.04</b>	<b>10.5.05</b>	<b>10.5.06</b>
<b>A</b>	Agricultural production				
<b>B</b>	Getting inputs for agricultural production				
<b>C</b>	The types of crops to grow for agricultural production				
<b>D</b>	Taking crop produce to the market (or not)				
<b>E</b>	Livestock raising				
<b>F</b>	Nonfarm business activity				
<b>G</b>	Your own (singular) wage or salary employment				
<b>H</b>	Major household expenditures (such as a large appliance for the house like refrigerator)				
<b>I</b>	Minor household expenditures (such as food for daily consumption or other household needs)				
		<p><b><u>Codes for 10.5.03/10.5.04/10.5.05/10.5.06: Motivation for activity</u></b></p> <p>Never true .....1</p> <p>Not very true .....2</p> <p>Somewhat true.....3</p> <p>Always true.....4</p> <p>Household does not engage in activity /Decision not made.....98</p>			

**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). 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. In the paper based version, enumerators should provide the activity code and indicate the start time and end time before indicating whether it was a primary or a secondary activity.

NO	Activity Code (Use codes on next page)	Start Time	End Time	Status of Activity 1 - Primary 2 - Secondary
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				



### Activity codes

Sleeping and resting -01	Shoping/getting service (including health services) -08	Exercising - 15
Eating and drinking -02	Weaving, sewing, textile care - 09	Social activities and hobbies - 16
Personal Care -03	Cooking - 10	Religious activities - 17
School (also homework) -04	Domestic Work (including fetching wood and water) - 11	Other (specify) _____
Work as employed -05	Care for children/adults/elderly - 12	
Own business - 06	Traveling and commuting - 13	
Farming/livestock/fishing -07	Watching TV/Listening to radio/reading - 14	

### 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?		<p><b>READ:</b> Please give your opinion on a scale of 1 to 10.</p> <p>1 means you are not satisfied and 10 means you are very satisfied. If you are neither satisfied nor dissatisfied this would be in the middle or 5 on the scale.</p>

Enumerator:	Response	Codes
Complete this table after you have finished interviewing the individual for Module 10. Go back to Module 10.1 if this individual is the first (primary or secondary) respondent to Module 10.		
10.1.06. Outcome of interview (module 10 for respondent)		Completed ..... 1 Incomplete..... 2 Absent..... 3 Refused..... 4 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 last 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 **11.1-11.6**.

**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?  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 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?	
			11.1.03a Quantity	11.1.03b Unit	How much came from purchases? (in same unit as 11.1.03b)	(in same unit as 11.1.03b)	(in same unit as 11.1.03b)	
	11.1.01	11.1.02	11.1.03a Quantity	11.1.03b Unit	11.1.04 Quantity	11.1.05 GHS	11.1.06 Quantity	11.1.07 Quantity
<b>Cereals, Grains and Cereal Products</b>		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						
Spaghetti, macaroni, pasta		12						
Breakfast cereal		13						

Over the past one week (7 days), did you or others in your household eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	11.1.01	11.1.02	11.1.03a Quantity	11.1.03b Unit	11.1.04 Quantity	11.1.05 GHS	11.1.06 Quantity	11.1.07 Quantity
Infant feeding cereals		14						
Other (specify)		15						
<b>Roots, Tubers, and Plantains</b>		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						
<b>Nuts and Pulses</b>		30-38						
Bambara beans		30						
Cowpea		31						
Pigeon pea		32						
Groundnut (roasted or raw)		33						
Soyabeans		34						
Other legumes/pulses		35						

Over the past one week (7 days), did you or others in your household eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	11.1.01	11.1.02	11.1.03a Quantity	11.1.03b Unit	11.1.04 Quantity	11.1.05 GHS	11.1.06 Quantity	11.1.07 Quantity
Palm nuts		36						
Coconut		37						
Other Nuts		38						
<b>Vegetables</b>		39-52						
Onions		39						
Tomatoes		40						
Carrots		41						
Cabbage/Lettuce		42						
Okro		43						
Garden eggs/egg plant		44						
Pepper		45						
Nkontomire		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 eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	<b>11.1.01</b>	<b>11.1.02</b>	<b>11.1.03a Quantity</b>	<b>11.1.03b Unit</b>	<b>11.1.04 Quantity</b>	<b>11.1.05 GHS</b>	<b>11.1.06 Quantity</b>	<b>11.1.07 Quantity</b>
<b>Meat, Fish and Animal Products</b>		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						
<b>Fruits</b>		69-79						
Mangoes		69						
Bananas		70						

Over the past one week (7 days), did you or others in your household eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	11.1.01	11.1.02	11.1.03a Quantity	11.1.03b Unit	11.1.04 Quantity	11.1.05 GHS	11.1.06 Quantity	11.1.07 Quantity
Citrus (oranges, tangerine, etc.		71						
Pineapple		72						
Pawpaw		73						
Guava		74						
Avocado Pears		75						
Water Melon		76						
Apple		77						
Wild fruit (shea, dawadawa, etc.)		78						
Other fruits (specify)		79						
<b>Milk and Milk Products</b>		80-86						
Fresh milk		80						
Other milk (Powdered, sourced etc)		81						
Margarine /Butter		82						
Yoghurt		83						
Cheese		84						
Infant feeding formula (for bottle)		85						
Other (specify)		86						
<b>Sugar, Fats, and Oil</b>		87-94						
Sugar		87						

Over the past one week (7 days), did you or others in your household eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	11.1.01	11.1.02	11.1.03a Quantity	11.1.03b Unit	11.1.04 Quantity	11.1.05 GHS	11.1.06 Quantity	11.1.07 Quantity
Sugar Cane		88						
Palm oil		89						
Palm kernel oil		90						
Coconut oil		91						
Groundnut oil		92						
Shea butter		93						
Other cooking oils		94						
<b>Beverages</b>		95-103						
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						
<b>Spices &amp; Miscellaneous</b>		104-110						

Over the past one week (7 days), did you or others in your household eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	11.1.01	11.1.02	11.1.03a Quantity	11.1.03b Unit	11.1.04 Quantity	11.1.05 GHS	11.1.06 Quantity	11.1.07 Quantity
Salt		104						
Spices		105						
Sauces (tomato, soy, Neri etc)		106						
Honey		107						
Jam, jelly		108						
Sweets, candy, chocolates		109						
Other (specify)		110						
<b>Cooked Foods from Vendors</b>		111-124						
Maize - boiled or roasted (vendor)		111						
Chips (vendor)		112						
Cassava fufu		113						
Yam fufu		114						
Yam - boiled (Ampesi)		115						
Plantain - boiled/fried/roasted		116						
Rice based vendor foods		117						
Eggs - boiled (vendor)		118						
Chicken (vendor)		119						
Meat (vendor)		120						
Fish (vendor)		121						



Over the past one week (7 days), did you or others in your household eat any of the following food items?  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?  (in same unit as 11.1.03b)	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?  (in same unit as 11.1.03b)	How much came from gifts and other sources?  (in same unit as 11.1.03b)
	<b>11.1.01</b>	<b>11.1.02</b>	<b>11.1.03a</b> <b>Quantity</b>	<b>11.1.03b</b> <b>Unit</b>	<b>11.1.04</b> <b>Quantity</b>	<b>11.1.05</b> <b>GHS</b>	<b>11.1.06</b> <b>Quantity</b>	<b>11.1.07</b> <b>Quantity</b>
Doughnut (vendor)		122						
Meal eaten at restaurant/chop bar		123						
Other (specify)		124						

<b>UNITS</b>	<b>UNITS - continued</b>	<b>UNITS - continued</b>	<b>UNITS - continued</b>
American tin - 01 Balls - 02 Bar - 03 Barrel - 04 Basket - 05 Beer bottle -06 Bowl -07 Box - 08 Bucket - 09 Bunch - 10 Bundle - 11	Crate - 12 Calabash - 13 Dozen - 14 Fanta /coke bottle - 15 Fingers - 16 Fruits - 17 Gallon - 18 Kilogram -19 Litre - 20 Loaf - 21	Log - 22 Margarine tin -23 Maxi bag -24 Mini bag -25 Meters -26 Nut - 27 Pair - 28 Pieces - 29 Pots - 30 Pounds - 31 Set - 32	Sheet - 33 Singles - 34 Stick - 35 Tonne - 36 Tree - 37 Tubers - 38 Yards - 39

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

<u>ONE WEEK RECALL</u>	Item code	Yes=1 No=2>>Next Item	How much did you pay (how much did they cost) in total?
	<b>11.2.01</b>	<b>11.2.02</b>	<b>11.2.03 GHS</b>
Over the past <u>one week (7 days)</u> , did your household use or buy any of the under listed items?	125-133		
Charcoal/Firewood	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		
<b><u>ONE MONTH RECALL</u></b>			
Over the past <u>one month</u> , did your household use or buy any [...]?	134-154		
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		

<b><u>ONE MONTH RECALL CONTINUED</u></b>	Item code	Yes=1 No=2>>Next Item	How much did you pay (how much did they cost) in total?
	<b>11.2.01</b>	<b>11.2.02</b>	<b>11.2.03 GHS</b>
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 - regular payment to purchase house	148		
Rent	149		
Repairs & maintenance to dwelling	150		
Repairs to household and personal items (radios, watches, etc., excluding battery purchases)	151		
Expenditures on pets	152		
Batteries	153		
Cell/Mobile phones/Phone credit	154		
HEALTH EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts)	155-158		
Anything related to illnesses and injuries, including for medicine, tests, consultation, & in-patient fees	155		
Medical care not related to an illness - preventative health care, pre-natal visits, check-ups, etc.	156		
Non-prescription medicines - Panadol, malaria drug, cough syrup, etc.	157		
Others...	158		

**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?
	<b>11.3.01</b>	<b>11.3.02</b>	<b>11.3.03 GHS</b>
<b>THREE MONTHS</b>	159-194		
Infant clothing	159		
Baby nappies/diapers	160		
Boy's trousers (FOR ALL CLOTHING, EXCLUDE UNIFORMS/SCHOOL CLOTHING)	161		
Boy's shirts	162		
Boy's jackets	163		
Boy's under wears	164		
Boy's other clothing	165		
Men's trousers	166		
Men's shirts	167		
Men's jackets	168		
Men's underwaer	169		
Men's other clothing	170		
Girl's blouse/shirt	171		
Girl's dress/skirt	172		
Girl's underwear	173		
Girl's other clothing	174		

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?
	<b>11.3.01</b>	<b>11.3.02</b>	<b>11.3.03 GHS</b>
Lady's blouse/shirt	175		
Lady's dress/skirt	176		
Lady's underwear	177		
Lady's other clothing	178		
Boy's shoes	179		
Men's shoes	180		
Girl's shoes	181		
Lady's shoes	182		
Cloth, thread, other sewing material	183		
Laundry, dry cleaning, tailoring fees	184		
Bowls, glassware, plates, silverware, etc.	185		
Cooking utensils (cook pots, stirring spoons and whisks, etc.)	186		
Cleaning utensils (brooms, brushes, etc.)	187		
Torch / flashlight	188		
Umbrella	189		
Kerosene lamp/lantern	190		
Stationery items (excluding school related)	191		
Books (excluding school related)	192		
Music or video cassette or CD/DVD	193		
Other	194		

**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?
	<b>11.4.01</b>	<b>11.4.02</b>	<b>11.4.03 GHS</b>
<b>PAST ONE YEAR (12 MONTHS)</b>	195-210		
Carpet, rugs, drapes, curtains	195		
Mat - sleeping or for drying maize flour	196		
Mosquito net	197		
Mattress	198		
Sports & hobby equipment, musical, instruments, toys	199		
Cement	200		
Bricks	201		
Construction timber	202		
Council rates	203		
Insurance – health, auto, home, life	204		
Fines or legal fees	205		
Marriage (bride wealth) costs	206		
Outdooring/ Naming ceremony	207		
Marriage ceremony costs	208		
Funeral costs, household members	209		
Funeral costs, non household members (relatives, neighbors/friends)	210		

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?
	<b>11.4.01</b>	<b>11.4.02</b>	<b>11.4.03 GHS</b>
<b>HEALTH EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts)over last 12 months</b>	211-214		
Hospitalizations or overnight stay in any hospital – total cost for treatment, including food cost	211		
Travel to and from the medical facility for any overnight stay(s) or hospitalization	212		
Over-night(s) stay at a traditional healer's or faith healer's dwelling – total costs for treatment, including food cost	213		
Travel costs to the traditional healer's or faith healer's dwelling for overnight stay(s)	214		
<b>EDUCATION EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts) over last 12 months</b>	215-223		
Tuition, including extra tuition fees	215		
Expenditures on after school programs and tutoring	216		
School books and stationary	217		
School uniform	218		
Boarding fees	219		
Contribution to school building maintenance	220		
Transport to and from school	221		
Parent/Teacher Association and other related fees	222		
Other	223		

NON-FOOD ITEMS THAT MAY NOT HAVE BEEN PURCHASED	Item Code	Yes=1 No=2>>Next Item	What was the estimated total value of [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?  (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)	224-226		Quantity	Unit		
Wood poles, bamboo	224					
Grass for thatching roof or other use	225					
other	226					



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

**Phase II Module 11.5 Household Expenditures Codes**

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

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

	YES=1 NO=2>>Next Item	ITEM CODE	How many [ITEM]s do you own?	What is the age of these [ITEM]s?  IF MORE THAN ONE ITEM, AVERAGE AGE.	If you wanted to sell one of these [ITEM]s today, how much would you receive?  IF MORE THAN ONE, AVERAGE VAUE.	Did you purchase or pay for any of these [ITEM]s in the last 12 months? Yes=1 No=2>> Next item	How much did pay for all these [ITEM] all together (total) in the last 12 months?
	<b>11.6.01</b>	<b>11.6.02</b>	<b>11.6.03 Number</b>	<b>11.6.04 Year(s)</b>	<b>11.6.05 GHS</b>	<b>11.6.06</b>	<b>11.6.07 GHS</b>
Does your household own a [ITEM]?		227-259					
Bed		227					
Table		228					
Chair		229					
Fan		230					
Air conditioner		231					
Radio		232					
Tape or CD/DVD player/VCR		233					
Television		234					
Sewing machine		235					
Kerosene stove		236					
Electric stove; hot plate		237					
Gas stove		238					

	YES=1 NO=2>>Next Item	ITEM CODE	How many [ITEM]s do you own?	What is the age of these [ITEM]s?  IF MORE THAN ONE ITEM, AVERAGE AGE.	If you wanted to sell one of these [ITEM]s today, how much would you receive?  IF MORE THAN ONE, AVERAGE VAUE.	Did you purchase or pay for any of these [ITEM]s in the last 12 months? Yes=1 No=2>> Next item	How much did pay for all these [ITEM] all together (total) in the last 12 months?
	<b>11.6.01</b>	<b>11.6.02</b>	<b>11.6.03 Number</b>	<b>11.6.04 Year</b>	<b>11.6.05 GHS</b>	<b>11.6.06</b>	<b>11.6.07 GHS</b>
Refrigerator		239					
Washing machine		240					
Bicycle		241					
Boat		242					
Moto bike		243					
Car		244					
Mini-bus		245					
Lorry/truck		246					
Donkey cart		247					
Bullock traction equipment		248					
Beer-brewing drum		249					
Upholstered chair, sofa set		250					
Coffee table (for sitting room)		251					
Cupboard, drawers, bureau		252					

	YES=1 NO=2>>Next Item	ITEM CODE	How many [ITEM]s do you own?	What is the age of these [ITEM]s?  IF MORE THAN ONE ITEM, AVERAGE AGE.	If you wanted to sell one of these [ITEM]s today, how much would you receive?  IF MORE THAN ONE, AVERAGE VAUE.	Did you purchase or pay for any of these [ITEM]s in the last 12 months? Yes=1 No=2>> Next item	How much did pay for all these [ITEM] all together (total) in the last 12 months?
	<b>11.6.01</b>	<b>11.6.02</b>	<b>11.6.03 Number</b>	<b>11.6.04 Year</b>	<b>11.6.05 GHS</b>	<b>11.6.06</b>	<b>11.6.07 GHS</b>
Desk		253					
Clock		254					
Iron (for pressing clothes)		255					
Computer equipment & accessories		256					
Satellite dish		257					
Solar panel		258					
Generator		259					