

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 8th 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) 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.”

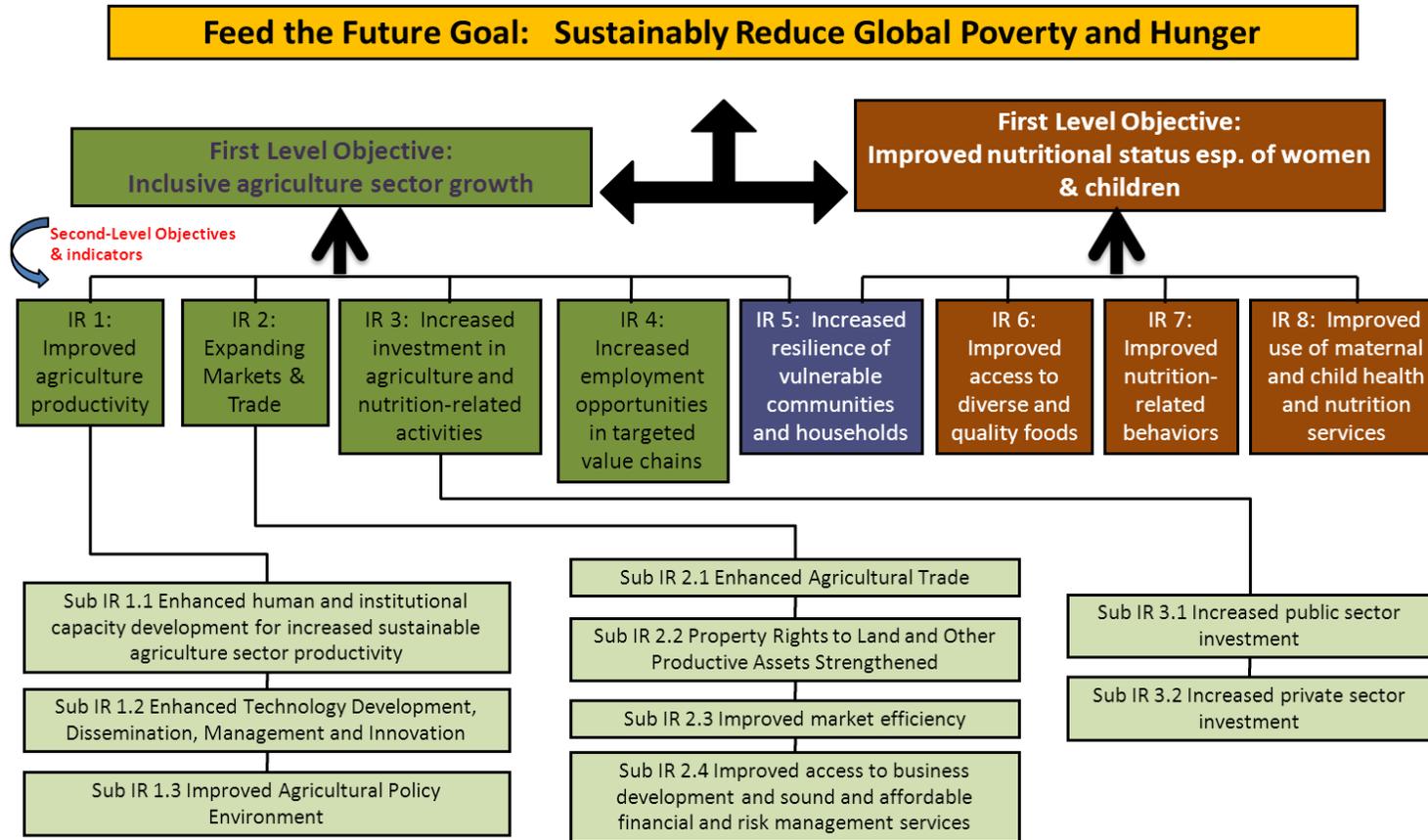


Figure 1: USAID Feed the Future Results Framework¹

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

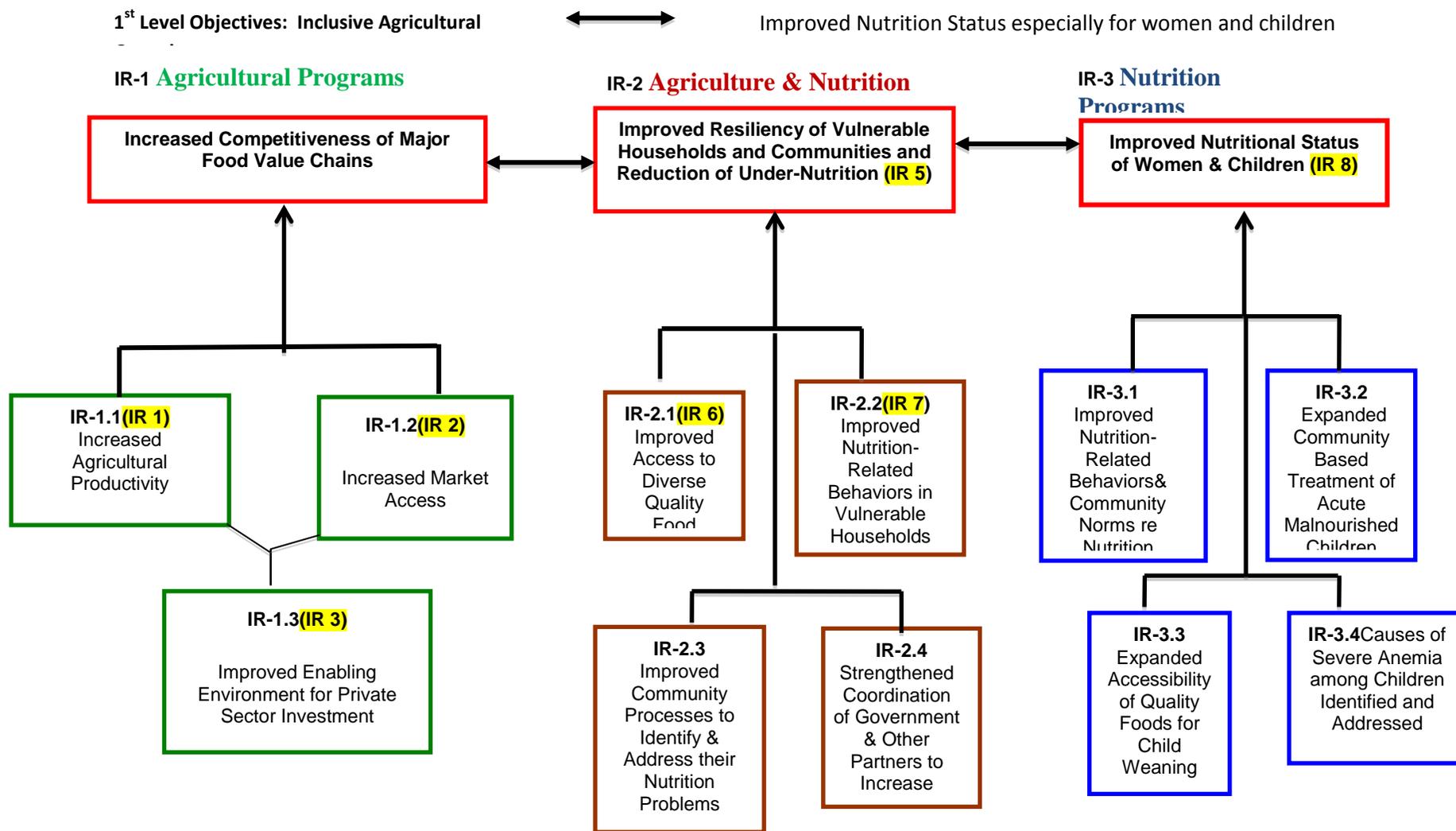


Figure 2: USAID/Ghana Feed The Future Results Framework

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 responsible² 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

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

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.

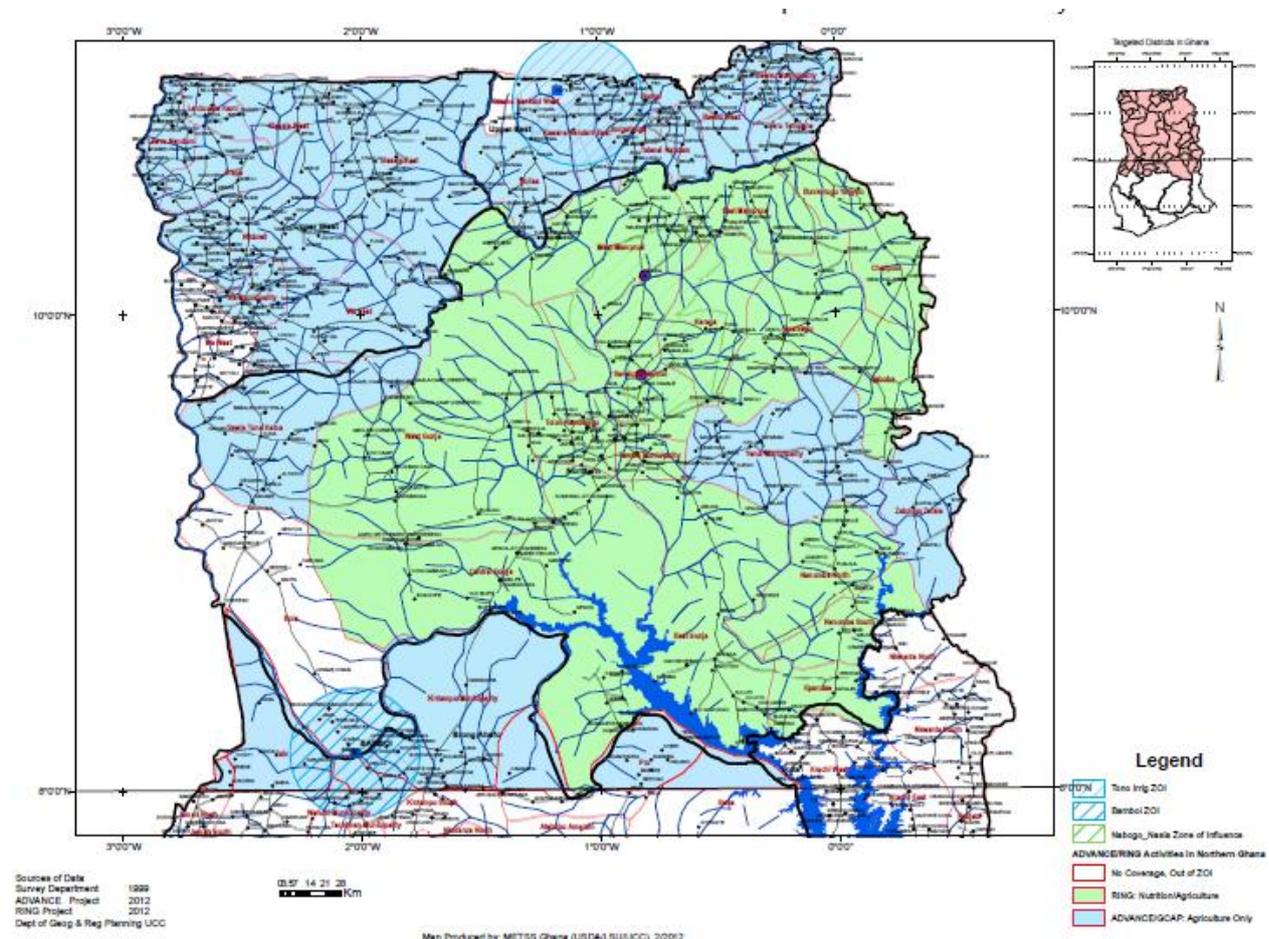


Figure 3: Map of Northern Ghana, Depicting the Zone of Influence by FTF Intervention

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

α is 5%, type I error;

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

From Table 7, three possible sample sizes were derived: 4580 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 |
| 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"/> | |
| 1.05. EA Number | | <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"/> | Interview start and end time (24HR) | |
| Surname, First Name:..... | | | Visit I | START: HH __MM__ END: HH __MM__ |
| 1.09. Name of secondary respondent (code from roster in Module 2): | | <input type="text"/> | Visit II | START: HH __MM__ END: HH __MM__ |
| Surname, First Name:..... | | | Visit III | START: HH __MM__ END: HH __MM__ |
| 1.10. Type of household: | | <input type="text"/> | 1.18. Name/code of supervisor: | |
| 1.11. Main religion of household (See codes below): | | <input type="text"/> | 1.19. Final outcome of interview (enter code) | |

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

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

USA contact –
Dr. Tim Dalton
Department of Agricultural Economics
Kansas State University
342 Waters Hall
Manhattan, KS, 66506, USA
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 2nd visit or if we are interrupted during the first visit and need to schedule completion of the survey at a later date and time. You may still participate in the survey if you do not have a phone or if you do not want to give us your phone information.

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

| 2.03: Relationship to primary respondent | 2.05: Unit | 2.06: Marital/Civil Status | 2.07: Literacy | 2.07a | 2.10: Education level |
|--|------------------------|--|--|---|---|
| 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 NB: Quantity should be in same unit as 3b.3 | |
|-------|--|--|---|--|--|---|--------------|
| | | Quantity | Unit . 1-Poles 2-Acres 3-Plots 4-Hect. 5-Mtr sqr | Quantity | Unit 1-Mxbag, 2-Mnbag 3-Tonnes | 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) 4.00A | Respondent Name 4.00B | Enumerator Instruction: 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> 4.00C | Signature/Thumbprint 4.00D |
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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 | | | | | | | |

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|------|--|--|--|--|--|--|
| 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 | <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> | | | | | |

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 |
|--|----------------------------------|---|-------------------------|
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| No | Question | Response Code | Response | | | | |
|-------|--|--|----------|----------|-----------|----------|---------|
| | | | Child I | Child II | Child III | Child IV | Child V |
| 5.01 | MOTHER/CAREGIVER'S ID CODE FROM THE HH ROSTER | | | | | | |
| 5.02 | CHILD'S ID CODE FROM THE HH ROSTER | | | | | | |
| 5.03 | CHILD'S SEX FROM THE HH ROSTER | 1 - Male 2 - Female | | | | | |
| 5.04 | What is <i>(CHILD'S NAME)</i> 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 <i>(CHILD'S NAME)</i> at his/her last birthday? RECORD AGE IN COMPLETED YEARS. | 0 - less than 1 year 1 - 1 year 2 - 2 or more years | | | | | |
| 5.06 | How many months old is <i>(CHILD'S NAME)</i> ? RECORD AGE IN COMPLETED MONTHS. | Months | | | | | |
| 5.07 | CHECK QUESTIONS 5.04, 5.05 AND 5.06 TO VERIFY CONSISTENCY. 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 5.04 consistent with age in years recorded in 5.05 ? | 1 - Yes 2 - No | | | | | |
| 5.07B | Are year and month of birth recorded in 5.04 consistent with age in months recorded in 5.06 ? | 1 - Yes 2 - No | | | | | |
| 5.08 | Check question 5.06 . is the child equal to or older than 6 months and less than 24 months? | 1 - Yes >> continue with module 2 - No >>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 <i>(CHILD'S NAME)</i> ever been breastfed? | 1 - Yes 2 - No >> skip to 5.11 98 - DK/NA >> skip to 5.11 | | | | | |
| 5.10 | Was <i>(CHILD'S NAME)</i> 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 <i>(CHILD'S NAME)</i> 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 <i>(CHILD'S NAME)</i> 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 <i>(CHILD'S NAME)</i> given ORS 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>Enumerator Ask: Now I would like to ask you about (other) liquids or foods that your child ate yesterday during the day or at night. I am interested in whether they ate the item even if it was combined with other foods. Please describe everything he or she ate yesterday during the day or night, whether at home or outside the home. Next I would like to ask you about some liquids that <u>(CHILD'S NAME)</u> 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 (number) yesterday during the day or at night did <u>(CHILD'S NAME)</u> 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 (number) yesterday during the day or at night did <u>(CHILD'S NAME)</u> 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 (number) yesterday during the day or at night did <u>(CHILD'S NAME)</u> 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. Enumerators should probe until respondent says child went to sleep at night.</p> <p>Consumption Questions: Ask these questions of each caregiver for the children 6 – 23 months old under his or her care. Accurate responses to this question may require probing. Use the probes to elicit a more thorough listing of what the respondent ate yesterday.</p> <ol style="list-style-type: none"> 1. Think about when you first woke up yesterday. Did your child eat anything at that time? If YES: Please tell me everything your child ate at that time. PROBE: Anything else? Until respondent says nothing else. If NO, continue to part 2) 2. What did your child do after that? Did your child eat anything at that time? If YES: Please tell me everything your child ate at that time. PROBE: Anything else? Until respondent says nothing else. Repeat question PART 2 above until respondent says the child went to sleep until the next day. If respondent mentions mixed dishes like a PORRIDGE, sauce or stew, probe: 3. What ingredients were in that (MIXED DISH)? PROBE: Anything else? Until respondent says nothing else. <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) | Response Code 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 | OTHER FOODS: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT INCLUDED IN THE FOOD GROUPS LISTED ABOVE: | | | | | | |
| | CHECK CATEGORIES 5.25-5.41 | If at least one 'YES' or all 'DK/NR' >> 5.44 If all 'NO' >> 5.43 | | | | | |
| 5.43 | Did (CHILD'S NAME) eat any solid, semi-solid, or soft foods yesterday during the day or at night? IF 'YES' PROBE: What kind of solid, semi-solid, or soft foods did (CHILD'S NAME) 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 (number) did (CHILD'S NAME) 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 (CHILD'S NAME) 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 (NAME) ? RECORD AGE IN COMPLETED MONTHS | Months | | | | | |
| 6.06 | CHECK QUESTIONS 6.04 AND 6.05 TO VERIFY CONSISTENCY If the answer to 6.06A or 6.06B is 'NO', resolve any inconsistencies. If the birth date was recorded on a health card, this may be used as the correct data source. | | | | | | |
| 6.07 | Are year and month of birth recorded in 6.04 consistent with age in months recorded in 6.05 ? | 1 - Yes 2 - No | | | | | |
| 6.08 | check question 6.06 and 6.07 : Is the child less than 6 months (i.e. 0-5 months)? | 1 - Yes >> continue 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 (CHILD'S NAME) ever been breastfed? | 1 - Yes 2 - No >> 6.11 98 - DK/NR >> 6.11 | | | | | |
| 6.10 | Was (CHILD'S NAME) 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 (CHILD'S NAME) 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 (CHILD'S NAME) 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 (CHILD'S NAME) given ORS 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 (NAME) drink/eat any (FOOD GROUP ITEMS) ? | | | | | | | |
|--|---|---------------------------------|----------|----------|-----------|----------|---------|
| 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, manioe , 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 chilies , spices, herbs or fish powder | | | | | | |
| 6.37 | Grubs, snails or insects | | | | | | |

| | | | | | | | |
|------|---|---|--|--|--|--|--|
| 6.38 | Foods made with red palm oil, red palm nut, or red palm nut pulp sauce | | | | | | |
| 6.39 | <i>OTHER FOODS: PLEASE WRITE DOWN OTHER FOODS IN THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT IN THE LIST BELOW:</i> | | | | | | |
| 6.40 | Check Questions 6.22–6.38. If all ‘NO’ GO TO 6.41 If at least one ‘YES’ or all ‘DK’ GO TO 6.42 | | | | | | |
| 6.41 | Did (CHILD’S NAME) eat any solid, semi-solid, or soft foods yesterday during the day or at night? IF ‘YES’ PROBE: What kind of solid, semi-solid, or soft foods did (CHILD’S NAME) eat? | 1 - Yes >>go back to 6.22-6.38 and record foods eaten then continue with 6.41 2 - No >> end module 98 - DK/NR >> end module | | | | | |
| 6.42 | How many times did (CHILD’S NAME) eat solid, semi-solid, or soft foods other than liquids yesterday during the day or at night? | | | | | | |
| | End of Module | | | | | | |

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

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

| Woman's ID from 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 |
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| | | | <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"/> | |

Visit 1- Module 9: Dwelling Characteristics (FTF Module D)

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

| No | Question | Response | Response Codes | |
|-------|---|----------|---|--|
| 9.01. | ENUMERATOR: OBSERVE (DO NOT ASK) 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. | ENUMERATOR: OBSERVE (DO NOT ASK) 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. | ENUMERATOR: OBSERVE (DO NOT ASK) 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. | ENUMERATOR: OBSERVE (DO NOT ASK) 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? (Enter 0 if not shared) | | | |
| 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? | | 1. Flush toilet (WC) 2. Pit Latrine 3. KVIP 4. Pan/bucket | 5. Public toilet (flush/bucket/KVIP) 6. Toilet in another house 7. No toilet facility (bush, beach) 8. Other |
| 9.10. | Is there a water source inside the dwelling? | | 1. Yes 2. No | |
| 9.11. | What is the main source of water for general use for your household | | 1. Piped into dwelling 2. Piped into plot/yard 3. Public tap (someone else's private tap) 4. Tube well/borehole 5. Protected dug well 6. Protected spring | 7. Rain water collection 8. Unprotected dug well/springs 9. River/ponds/streams/Dam 10. Tankers-truck/vendor 11. Sachet water >> 9.15 12. Bottled water >>9.15 13. Other (specify) |
| 9.12. | What is the main source of drinking water for your household? | | | |
| 9.13. | Do you use a process to prepare the water used for drinking? | | 1. Yes 2. No >> 9.15 | |
| 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) | | 1. Filtered 2. Boiled 3. Filtered and boiled | 4. Iodine or other mineral/natural treatments 5. UV treated 6. Other |
| 9.15. | Does this dwelling have access to electricity? | | 1. Yes 2. No | |
| 9.16. | What is the main lighting source for your household? | | 1. Electricity via national grid 2. Solar panel 3. Piped or liquid propane gas (biogas) 4. Private generator | 5. Public or shared generator 6. Lanterns/candles/paraffin 7. Fire lit sticks, grass or pit 8. Other |

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

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

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

Visit I - Module 10.1: Household Identification

| Household Identification | Response/Code | Household Identification | Response/Code |
|--|---------------|---|---------------|
| 10.1.01. Household Identification: | | 10.04. Type of household (If possible, auto fill this field after name has been selected from 11.1.02) Male and female adult1 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): Male1 Female2 | | Codes for 10.1.05 Alone1 With adult females present.....2 With adult males present3 With adults mixed sex present.....4 With children present5 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 | 10.2.01 | 10.2.02 | 10.2.03 |
| A | Food crop farming: crops that are grown primarily for household food consumption | | | |
| B | Cash crop farming: crops that are grown primary for sale in the market | | | |
| C | Livestock raising | | | |
| D | Non-farm economic activities: Small business, self-employment, buy-and-sell | | | |
| E | Wage and salary employment: in-kind or monetary work both agriculture and other wage work | | | |
| F | Fishing or fishpond culture | | | |
| | | <p><u>Codes for 10.2.02 and 10.2.03: Input into decision making</u></p> <p>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</p> | | |

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 | | 10.3.01a | 10.3.01b | 10.3.02 | 10.3.03 | 10.3.04 | 10.3.05 | 10.3.06 |
| A | Agricultural land (pieces/plots) | | | | | | | |
| B | Large livestock (oxen, cattle) | | | | | | | |
| C | Small livestock (goats, pigs, sheep) | | | | | | | |
| D | Chickens, Ducks, Turkeys, Pigeons | | | | | | | |
| E | Fish pond or fishing equipment | | | | | | | |
| F | Farm equipment (non-mechanized) | | | | | | | |
| G | Farm equipment (mechanized) | | | | | | | |
| H | Nonfarm business equipment | | | | | | | |
| I | House (and other structures) | | | | | | | |
| J | Large consumer durables (fridge, TV, sofa) | | | | | | | |
| K | Small consumer durables (radio, cookware) | | | | | | | |
| L | Cell phone | | | | | | | |
| M | Other land not used for agricultural purposes (pieces, residential or commercial land) | | | | | | | |
| N | Means of transportation (bicycle, motorcycle, car) | | | | | | | |
| Codes for 10.3.02 to 10.3.06: Decision-making and control over productive capital | | | | | | | | |
| Self 1 | | Self and other household member(s).....5 | | | Self and other outside people.....8 | | | |
| Partner/Spouse..... 2 | | Partner/Spouse and other household member(s).....6 | | | Partner/Spouse and other outside people.....9 | | | |
| Self and partner/spouse jointly 3 | | Someone (or group of people) outside the household...7 | | | Self, partner/spouse and other outside people.....10 | | | |
| Other household member4 | | | | | | | | |

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 |
| A | Non-governmental organization (NGO) | | | | | | | |
| B | Informal lender | | | | | | | |
| C | Formal lender (bank/financial institution) | | | | | | | |
| D | Friends or relatives | | | | | | | |
| E | Group based micro-finance or lending including Village Savings and Loans Associations (VSLAs)/susu etc. | | | | | | | |
| Codes for 10.3.07 Taken loans | | Codes for 10.3.08 & 10.3.09: | | | Codes for 10.3.10B/10.3.11B: Borrowing | | | |
| Yes, cash..... 1 | | Self.....1 | | | Have enough money.....1 | | | |
| Yes, in-kind..... 2 | | Partner/Spouse2 | | | 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 member4 | | | 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 comfortable1 Yes, but with a great deal of difficulty...2 Yes, but with a little difficulty.....3 Yes, fairly comfortable4 Yes, very comfortable.....5 |
| 10.4.02 | Do you feel comfortable speaking up in public to ensure proper payment of wages for public works or other similar programs? | | |
| 10.4.03 | Do you feel comfortable speaking up in public to protest the misbehavior of authorities or elected officials? | | |

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

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

| | |
|---------------------------------------|--|
| 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>ENUMERATOR: 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>Enumerator: Ask only if 10.5.01 is 1 and respondent is female, 10.5.01 is 2 and respondent is male, or 10.5.01 is 3-7.</p> |
| | | 10.5.01 | 10.5.02 |
| A | Agricultural production? | | |
| B | What inputs to buy for agricultural production? | | |
| C | What types of crops to grow for agricultural production? | | |
| D | When or who would take crop produce to the market? | | |
| E | Livestock raising? | | |
| F | Non-farm business activity? | | |
| G | Your own (singular) wage or salary employment? | | |
| H | Major household expenditures? (such as a large appliance for the house like refrigerator) | | |
| I | Minor household expenditures? (such as food for daily consumption or other household needs) | | |
| <p>Codes for 10.5.01: Who makes decision</p> <p>Main male or husband.....1 Main female or wife2 Husband and wife jointly3 Someone else in the household.....4 Jointly with someone else inside the household5 Jointly with someone else outside the household6 Someone outside the household/other7 Household does not engage in activity/Decision not made98</p> | | <p>Codes for 10.5.02: Extent of participation in decision making</p> <p>Not at all1 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>ENUMERATOR: This set of questions is very important. I am going to give you some reasons why you act as you do in the aspects of household life I just mentioned. You might have several reasons for doing what you do and there is no right or wrong answer. Please tell me how true it would be to say:</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> |
| | | 10.5.03 | 10.5.04 | 10.5.05 | 10.5.06 |
| A | Agricultural production | | | | |
| B | Getting inputs for agricultural production | | | | |
| C | The types of crops to grow for agricultural production | | | | |
| D | Taking crop produce to the market (or not) | | | | |
| E | Livestock raising | | | | |
| F | Nonfarm business activity | | | | |
| G | Your own (singular) wage or salary employment | | | | |
| H | Major household expenditures (such as a large appliance for the house like refrigerator) | | | | |
| I | Minor household expenditures (such as food for daily consumption or other household needs) | | | | |
| | | <p><u>Codes for 10.5.03/10.5.04/10.5.05/10.5.06: Motivation for activity</u></p> <p>Never true1</p> <p>Not very true2</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>READ: 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 |
| Cereals, Grains and Cereal Products | | 1-15 | | | | | | |
| Maize normal flour | | 01 | | | | | | |
| Maize dough | | 02 | | | | | | |
| Green maize (fresh maize cob) | | 03 | | | | | | |
| Rice (paddy, grain) | | 04 | | | | | | |
| Sorghum/Guinea corn | | 05 | | | | | | |
| Millet grain | | 06 | | | | | | |
| Millet flour | | 07 | | | | | | |
| Other grains | | 08 | | | | | | |
| Other flours | | 09 | | | | | | |
| Bread | | 10 | | | | | | |
| Biscuits | | 11 | | | | | | |
| 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 | | | | | | |
| Roots, Tubers, and Plantains | | 16-29 | | | | | | |
| Cassava tubers | | 21 | | | | | | |
| Cassava-gari | | 22 | | | | | | |
| Cassava flour | | 23 | | | | | | |
| Cassava (other forms) | | 24 | | | | | | |
| Yam | | 25 | | | | | | |
| Cocoyam | | 26 | | | | | | |
| Plantain | | 27 | | | | | | |
| Potatoes (Sweet & other potato) | | 28 | | | | | | |
| Other (specify) | | 29 | | | | | | |
| Nuts and Pulses | | 30-38 | | | | | | |
| Bambara beans | | 30 | | | | | | |
| Cowpea | | 31 | | | | | | |
| Pigeon pea | | 32 | | | | | | |
| Groundnut (roasted or raw) | | 33 | | | | | | |
| 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 | | | | | | |
| Vegetables | | 39-52 | | | | | | |
| Onions | | 39 | | | | | | |
| Tomatoes | | 40 | | | | | | |
| Carrots | | 41 | | | | | | |
| Cabbage/Lettuce | | 42 | | | | | | |
| Okro | | 43 | | | | | | |
| Garden eggs/egg plant | | 44 | | | | | | |
| Pepper | | 45 | | | | | | |
| Nkontonmire | | 46 | | | | | | |
| Cucumber | | 47 | | | | | | |
| Pumpkin | | 48 | | | | | | |
| Mushroom | | 49 | | | | | | |
| Other cultivated green leafy vegetables | | 50 | | | | | | |
| Gathered wild green leaves | | 51 | | | | | | |
| Other vegetables (specify): | | 52 | | | | | | |

| Over the past one week (7 days), did you or others in your household 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 |
| Meat, Fish and Animal Products | | 53-68 | | | | | | |
| Eggs | | 53 | | | | | | |
| Fresh Fish and Shellfish | | 54 | | | | | | |
| Dried Fish | | 55 | | | | | | |
| Smoked Fish | | 56 | | | | | | |
| Beef | | 57 | | | | | | |
| Goat | | 58 | | | | | | |
| Pork | | 59 | | | | | | |
| Mutton | | 60 | | | | | | |
| Chicken | | 61 | | | | | | |
| Other poultry - guinea fowl, doves | | 62 | | | | | | |
| Small animal- rabbit, squirrels, etc | | 63 | | | | | | |
| Wild game | | 64 | | | | | | |
| Game birds | | 65 | | | | | | |
| Snail | | 66 | | | | | | |
| Tinned meat or fish | | 67 | | | | | | |
| Other (specify) | | 68 | | | | | | |
| Fruits | | 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 | | | | | | |
| Milk and Milk Products | | 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 | | | | | | |
| Sugar, Fats, and Oil | | 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 | | | | | | |
| Beverages | | 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 | | | | | | |
| Spices & Miscellaneous | | 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 | | | | | | |
| Cooked Foods from Vendors | | 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) |
| | 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 |
| Doughnut (vendor) | | 122 | | | | | | |
| Meal eaten at restaurant/chop bar | | 123 | | | | | | |
| Other (specify) | | 124 | | | | | | |

| UNITS | UNITS - continued | UNITS - continued | UNITS - continued |
|--|---|---|--|
| 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? |
|---|----------------|--------------------------|---|
| | 11.2.01 | 11.2.02 | 11.2.03 GHS |
| 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 | | |
| <u>ONE MONTH RECALL</u> | | | |
| 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 | | |

| <u>ONE MONTH RECALL CONTINUED</u> | Item code | Yes=1 No=2>>Next Item | How much did you pay (how much did they cost) in total? |
|--|----------------|--------------------------|---|
| | 11.2.01 | 11.2.02 | 11.2.03 GHS |
| Other personal products (shampoo, razor blades, cosmetics, hair products, etc.) | 141 | | |
| Light bulbs | 142 | | |
| Postal fees (stamps and other postal fees) | 143 | | |
| Donation - to church, charity, beggar, etc. | 144 | | |
| Vehicle Fuel (Petrol or diesel) | 145 | | |
| Motor vehicle (including bicycle) service, repair, or parts | 146 | | |
| Wages paid to servants | 147 | | |
| Mortgage - 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? |
|--|----------------|-----------------------------|---|
| | 11.3.01 | 11.3.02 | 11.3.03 GHS |
| THREE MONTHS | 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? |
|--|----------------|-----------------------------|---|
| | 11.3.01 | 11.3.02 | 11.3.03 GHS |
| 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? |
|--|----------------|--------------------------|---|
| | 11.4.01 | 11.4.02 | 11.4.03 GHS |
| PAST ONE YEAR (12 MONTHS) | 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? |
|--|----------------|--------------------------|---|
| | 11.4.01 | 11.4.02 | 11.4.03 GHS |
| HEALTH EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts)over last 12 months | 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 | | |
| EDUCATION EXPENDITURES (Include Estimated Value of any In-Kind Payments, or borrowed amounts) over last 12 months | 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? | |
| 11.5.01 | 11.5.02 GHS | 11.5.03 YEARS | 11.5.04a GHS | 11.5.04b Unit | 11.5.05a GHS | 11.5.05b Unit |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Phase II Module 11.5 Household Expenditures Codes

| 11.5.01 | 11.5.02/03 | 11.5.04/11.5.05 |
|--|------------------------------------|---|
| OWN. 1>>11.5.02 BEINGPURCHASED 2 >>11.5.02 EMPLOYER PROVIDES. . .3>>11.5.04 FREE, AUTHORIZED4>>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? |
|--------------------------------------|--------------------------|----------------|------------------------------------|---|--|---|--|
| | 11.6.01 | 11.6.02 | 11.6.03 Number | 11.6.04 Year(s) | 11.6.05 GHS | 11.6.06 | 11.6.07 GHS |
| 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? |
|---------------------------------|--------------------------|----------------|------------------------------------|---|--|---|---|
| | 11.6.01 | 11.6.02 | 11.6.03 Number | 11.6.04 Year | 11.6.05 GHS | 11.6.06 | 11.6.07 GHS |
| Refrigerator | | 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? |
|-------------------------------------|--------------------------|----------------|------------------------------------|---|--|---|---|
| | 11.6.01 | 11.6.02 | 11.6.03 Number | 11.6.04 Year | 11.6.05 GHS | 11.6.06 | 11.6.07 GHS |
| Desk | | 253 | | | | | |
| Clock | | 254 | | | | | |
| Iron (for pressing clothes) | | 255 | | | | | |
| Computer equipment & accessories | | 256 | | | | | |
| Satellite dish | | 257 | | | | | |
| Solar panel | | 258 | | | | | |
| Generator | | 259 | | | | | |