

# Malawi - Third Integrated Household Survey 2010-2011

**National Statistical Office (NSO) - Ministry of Economic Planning and Development  
(MoEPD)**

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# Sampling

## Sampling Procedure

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The IHS3 sampling frame is based on the listing information and cartography from the 2008 Malawi Population and Housing Census (PHC); includes the three major regions of Malawi, namely North, Center and South; and is stratified into rural and urban strata. The urban strata include the four major urban areas: Lilongwe City, Blantyre City, Mzuzu City, and the Municipality of Zomba. All other areas are considered as rural areas, and each of the 27 districts were considered as a separate sub-stratum as part of the main rural stratum. It was decided to exclude the island district of Likoma from the IHS3 sampling frame, since it only represents about 0.1% of the population of Malawi, and the corresponding cost of enumeration would be relatively high. The sampling frame further excludes the population living in institutions, such as hospitals, prisons and military barracks. Hence, the IHS3 strata are composed of 31 districts in Malawi.

A stratified two-stage sample design was used for the IHS3.

Note: Detailed sample design information is presented in the "Third Integrated Household Survey 2010-2011, Basic Information Document" document.

## Weighting

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In order to analyze the data and produce accurate representativeness of the population, the sample variables must be weighted using the household sampling weights provided in each file as hhwght. As noted above, the IHS3 data are representative at the national, urban/rural, regional and district-level.

The basic weight for each sample household is equal to the inverse of its probability of selection (calculated by multiplying the probabilities at each sampling stage). As indicated in the previous section, the IHS3 sample EAs were selected within each district with PPS from the 2008 PHC frame. At the second stage, 16 sample households were selected with equal probability from the listing for 33 each sample EA.

Note: Detailed weighting information is presented in the "Third Integrated Household Survey 2010-2011, Basic Information Document" document.

# Questionnaires

## Overview

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The survey was collected using four questionnaires:

- 1) Household Questionnaire
- 2) Agriculture Questionnaire
- 3) Fishery Questionnaire
- 4) Community Questionnaire

## Data Collection

### Data Collection Dates

Start	End	Cycle
2010-03	2011-03	N/A

### Data Collection Mode

Face-to-face [f2f]

#### DATA COLLECTION NOTES

##### Training of Field Staff

Field staff for the IHS3 was selected through a series of exams held throughout the country. Advertisements were placed in the national newspapers advertising posts for enumerators and data entry clerks. Interested candidates took a test to determine their qualifications. Those who passed the test were invited to the training.

Training instruction was given to the field staff by the IHS3 Management Team with help from World Bank LSMS-ISA team members. The training consisted of classroom instruction on the contents of the questionnaire, concepts and definitions, interview techniques and methods, and field practices in performing actual interviews to ensure that Enumerators fully understood the questionnaire. Training instructions are detailed in the Enumerator and Field Supervisor's Manuals.

At the end of the training session, trainees were assessed based on tests given during the training process and evaluations by the supervisory personnel. The 16 best candidates were selected to be Field Supervisors, and 64 candidates were selected to be Field Enumerators. In addition, 16 Data Entry candidates were selected to join the field based mobile teams to process questionnaires on a rolling basis. In addition to the content training, data entry clerks received additional training in IHS3 data entry applications, protocols and data management and data back-ups.

##### Pre-enumeration Listing

Pre-enumeration listings were initiated before the start of each quarter of field work. Mobile listing teams equipped with printed maps of select EAs were used to record all dwellings and heads of households in select EAs. Household counts per each listed enumeration areas were relayed to NSO IHS3 Management and recorded. Where applicable, listing forms and maps were transferred directly to field teams after the completion of district quarterly listing activities.

##### Field Teams

Fieldwork for the IHS3 began in March 2010 and was administered simultaneously throughout the country until March 2011. 16 field-based mobile teams consisting of 1 supervisor, 4 enumerators, 1 data entry clerk and 1 driver were assigned to cover specific districts.

Each team supervisor received monthly enumeration assignment schedules on a quarterly basis throughout the field work. Monthly enumeration assignments were further accompanied by (1) enumeration area maps, (2) completed listing forms, (3) color coded, adequate set of questionnaire instruments to be administered in accordance with a given EA's cross-sectional vs. Panel A vs. Panel B status, and (4) the list of selected as well as replacement households to be interviewed in each EA.

##### Enumerators

Field based mobile teams consisted of 4 enumerators to field household interviews over the course of the scheduled field work. An Enumerator's major areas of responsibility were to accurately and completely administer the household, agriculture and fishery questionnaires. Enumerators were responsible for: (1) locating selected households, (2) relaying the source and purpose of the survey and obtaining respondent permission to implement the interview, (3) implementing all pertinent questionnaire modules, (4) systematically obtaining anthropometric measures for qualified household members, (5) using GPS technology to mark and record household locations and take agricultural field measurements, and (6) participating in the CAFE review and correction of field entered questionnaires.

### Data Collectors

Name	Abbreviation	Affiliation
National Statistical Office	NSO	Ministry of Economic Planning and Development (MoEPD)

#### SUPERVISION

IHS3 field based supervisors were responsible for managing the daily operations of their respective field based mobile team.

Primary responsibilities included: (1) liaising with IHS3 management on schedules, field operation status, equipment status and needs, and special issues, (2) planning daily field operation schedules including coverage and transportation, (3) liaise with local authorities before commencing interview activities, (4) reviewing incoming questionnaires for completion and accuracy, (5) managing data entry schedule for completed questionnaires, (6) reviewing computer assisted field entry (CAFE) reports for field entered questionnaires, assigning physical questionnaire reviews, and authorizing review/call back completion, (7) administering community questionnaires within each enumeration area, (8) retrieving completed data files from data entry clerks and regularly transmitting data to the NSO central office in Zomba.

# Data Processing

## Data Editing

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### Data Entry Clerks

Each IHS3 field team was assigned 1 data entry clerk to process completed questionnaires at the teams field based residence. Each data entry clerk was issued a laptop with the CSPro based data entry application, a printer to produce error reports on entered questionnaire, and flash disks for transferring files. The field based data entry clerk's primary responsibilities included: (1) receiving the completed questionnaires following the field supervisor's initial screening, (2) organizing and entering completed questionnaire in a timely manner, (3) generating and printing error reports for supervisor review, (4) modifying data after errors were resolved and authorized by the field supervisor, and (5) managing data files and local data back-ups. The data entry clerk was responsible for beginning initial data entry upon receipt of questionnaires from the field and generating error reports as quickly as possible after interviews were complete in the EA. When long distance travel to an enumeration area by the field team was required and the field team was required to spend multiple days away from their field residence the data entry clerk was required to travel with the team in order to maintain data processing schedules.

### Field Based Data Entry and CAFE

To better facilitate higher quality data and increase timely availability of data during the data capture process IHS3 utilized computer assisted field entry (CAFE). First data entry was conducted by field based data entry clerks immediately following completion of the team's daily field activities. Each team was equipped with 1 laptop computer for field based data entry using a CSPro-based application. The range and consistency checks built into the CSPro application was informed by the LSMS-ISA experience in Tanzania and Uganda, and the review of the IHS2 data. Prior programming of the data entry application allowed for a wide variety of range and consistency checks to be conducted and reported and potential issues investigated and corrected before closing the assigned enumeration area. Completed data was frequently relayed to the NSO central office in Zomba via email and tracked and processed upon receipt.

### Double Data Entry

Double data entry was implemented by a team of data entry clerks based at the NSO central office. Electronic data and questionnaires received from the field were cataloged by the Data Manager and electronic data loaded onto a central server to enable data entry verification on networked computers. To increase quality, the Data Entry Manager monitored the data verification staff and conducted quality assessments by randomly selecting processed questionnaires and comparing physical questionnaires to the result of double data entry. Data verification clerks were coached on inconsistencies when required.

### Data Cleaning

The data cleaning process was done in several stages over the course of field work and through preliminary analysis. The first stage of data cleaning was conducted in the field by the field based field teams utilizing error reports produced by the data entry applications. Field supervisors collected reports for each enumeration area and household and in coordination with the enumerators reviewed, investigated, and collected errors. Due to the quick turn-around in error reporting, it was possible to conduct call backs while the team was still operating in the enumeration area when required. Corrections to the data were entered by the field based data entry clerk before transmitting data to the NSO central office.

Upon receipt of the data from the field, module and cross module checks were performed using Stata to identify systematic issues and, where applicable, field teams were asked to investigate, revise and resend data for questionnaires still in their possession. Revised data files were cataloged and then replaced previous version of the data.

After data verification by the headquarters' double data entry team, data from the first data entry and second data entry were compared. Cases that revealed large inconsistencies between the first and second data entry, specifically large amounts of missing case level data in the second data entry relative to the first data entry were completely reentered. Further, variable specific inconsistency reports were generated and investigated and corrected by the double data entry team.

Additional cleaning was performed after the double data entry team cleaning activities where appropriate to resolve systematic errors and organize data modules for consistency and efficient use. Case by case cleaning was also performed during the preliminary analysis specifically pertaining to out of range and outlier variables.

All cleaning activities were conducted in collaboration with the WB staff providing technical assistance to the NSO in the design and implementation of the IHS3.

# Data Appraisal

No content available





## Related Materials

### Questionnaires

#### Third Integrated Household Survey 2010-2011, Household Questionnaire

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Title Third Integrated Household Survey 2010-2011, Household Questionnaire  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Household.Qx.FINAL.pdf

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#### Third Integrated Household Survey 2010-2011, Agriculture Questionnaire

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Title Third Integrated Household Survey 2010-2011, Agriculture Questionnaire  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Agriculture.Questionnaire.FINAL.pdf

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#### Third Integrated Household Survey 2010-2011, Fishery Questionnaire

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Title Third Integrated Household Survey 2010-2011, Fishery Questionnaire  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Fisheries.Qx.FINAL.pdf

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#### Third Integrated Household Survey 2010-2011, Community Questionnaire

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Title Third Integrated Household Survey 2010-2011, Community Questionnaire  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Community.Qx.FINAL.pdf

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#### Third Integrated Household Survey 2010-2011, Tracking Form

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Title Third Integrated Household Survey 2010-2011, Tracking Form  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Panel.Visit.2.Tracking.Questionnaire.FINAL.pdf

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#### Third Integrated Household Survey 2010-2011, Market Questionnaire with Conversion Factors

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Title Third Integrated Household Survey 2010-2011, Market Questionnaire with Conversion Factors

Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename Malawi\_IHS3\_Food\_Item\_Conversion\_Factors.pdf

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## Reports

# Integrated Household Survey 2010-2011, Household Socio-Economic Characteristics Report

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Author(s)	National Statistical Office
Date	2012-09-01
Country	Malawi
Language	English

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## Technical documents

### Third Integrated Household Survey 2010-2011, Basic Information Document

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Date	2012-03-01	
Country	Malawi	
Language	English	
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### Third Integrated Household Survey 2010-2011, Enumerator Manual for the Household Questionnaire

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Title	Third Integrated Household Survey 2010-2011, Enumerator Manual for the Household Questionnaire	
Author(s)	National Statistical Office	
Country	Malawi	
Language	English	

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Filename	IHS3.HH.Qx.Enumerator.Manual.FINAL.pdf	

## Third Integrated Household Survey 2010-2011, Enumeration Manual for the Agriculture and Fishery Questionnaires

Title	Third Integrated Household Survey 2010-2011, Enumeration Manual for the Agriculture and Fishery Questionnaires
Author(s)	National Statistical Office
Country	Malawi
Language	English
Filename	IHS3.Consolidated.Ag.Fishery.Qx.Enumerator.Manual.pdf

## Third Integrated Household Survey 2010-2011, Field Supervisor Manual

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Title	Third Integrated Household Survey 2010-2011, Field Supervisor Manual
Author(s)	National Statistical Office
Country	Malawi
Language	English
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Filename	IHS3.Supervisor.Manual.FINAL.pdf

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## Third Integrated Household Survey 2010-2011, Supplementary Instructions on for the Second Visit to the Panel Households

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Title	Third Integrated Household Survey 2010-2011, Supplementary Instructions on for the Second Visit to the Panel Households
Author(s)	National Statistical Office
Country	Malawi
Language	English
Filename	Supplementary.Instructions.1.pdf

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## Third Integrated Household Survey 2010-2011, Updated Instructions for Visit 2 Panel Questionnaires

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Title	Third Integrated Household Survey 2010-2011, Updated Instructions for Visit 2 Panel Questionnaires
Author(s)	National Statistical Office
Country	Malawi
Language	English
Filename	Supplementary.Instructions.2.pdf

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## Third Integrated Household Survey 2010-2011, Tracking Panel Households for Vist 2

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Title	Third Integrated Household Survey 2010-2011, Tracking Panel Households for Vist 2
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Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Panel.Visit.2.Tracking.Manual.FINAL.pdf

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## Third Integrated Household Survey 2010-2011, Variables Description

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Title Third Integrated Household Survey 2010-2011, Variables Description  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename Geovariables.Description.pdf

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## Third Integrated Household Survey 2010-2011, Photo Aid for Collecting Food Consumption Information

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Title Third Integrated Household Survey 2010-2011, Photo Aid for Collecting Food Consumption Information  
Author(s) National Statistical Office  
Country Malawi  
Language English  
Filename IHS3.Photo.Aid.FINAL.pdf

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