

Deriving Food Security Information from National Household Budget Surveys

Experiences, Achievements, Challenges



DERIVING FOOD SECURITY INFORMATION FROM NATIONAL HOUSEHOLD BUDGET SURVEYS

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This publication was prepared in the context of the EC-FAO Food Security Information for Action Programme which is funded by the European Union and implemented by the Food and Agriculture Organization of the United Nations.

ISBN 978-92-5-106110-7

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Acronyms

ARMM Autonomous Region in Muslim Mindanao ASEAN Association of South East Asian Nations

CART Classification and Regression Tree
CIS Commonwealth of Independent States
CMSI Centre of Medical Statistics and Information

COICOP Classification of Individual Consumption by Purpose

CPI Consumer Price Index

CSES Cambodia Socio-Economic Survey

CV Coefficient of Variation

DEC Dietary Energy Consumption
DHS Demographic and Health Survey

DS Department of Statistics

EWS Early Warning System

FANTA Food and Nutrition Technical Assistance Project

FBS Food Balance Sheet FCT Food Composition Table

FIES Family Income and Expenditure Survey

FIVIMS Food Insecurity and Vulnerability Information and Mapping Systems

FNRI Food and Nutrition Research Institute

FSO Food Security Observatory
FSSM Food Security Statistics Module

GDI Gender-related Development Index

GDP Gross Domestic Product

HBS Household Budget Survey
HDI Human Development Index

HIES Household Income and Expenditure SurveyHSP FAO Household Survey Programme

ICAS International Conference on Agriculture Statistics

IDC International Demonstration Centre

IDRF Cape Verde Household Income and Expenditure Survey

(Ínquérito Ás Despesase e Receitas Familiares)

IFPRI International Food Policy Research Institute

IHS Integrated Household Survey

ILCS Integrated Living Conditions SurveyILO International Labour OrganizationINE National Statistics Institute of Cape Verde

(Instituto Nacional de Estatistica)

ISS International Scientific Symposium

KIHBS Kenya Integrated Household Budget Survey

KNBS Kenya National Bureau of Statistics

Lao PDR Lao People's Democratic Republic

LECS Lao Expenditure and Consumption Survey

LFS Labour Force Survey
LSIS Lao Social Indicator Survey

MDER Minimum Dietary Energy Requirement

MDG Millennium Development Goals
MICS Multi-Indicator Cluster Survey
MTDP Medium-Term Development Plan

NBS National Bureau of Statistics of the Republic of Moldova

NCDC National Centre for Disease Control
NDC National Demonstration Centre
NGO Non-Governmental Organization
NHS National Household Survey
NNS National Nutrition Survey

NS Nutrition Survey

NSC National Statistics Centre NSO National Statistics Office

NSS National Statistical Service of Armenia

OPT Occupied Palestinian Territories

PA Palestinian Authority

PCBS Palestine Central Bureau of Statistics

PECS Palestinian Expenditure and Consumption Survey
PIP Palestinian Emergency and Public Investment Program

PPS Probability Proportional to Size
PPPS Palestinian Public Perception Survey

RAP FAO Regional Office for Asia and the Pacific

SCS State Committee of Statistics

SD1 Standard deviation of energy consumption due to income SD2 Standard deviation of energy acquisition due to income

SEM Structural Equation Model

SESP Socio-Economic Stabilization Plan

UNDP United Nations Development Programme

UNIFPA United Nations Population Fund UNICEF United Nations Children's Fund

UNRWA United Nations Relief and Works Agency for Palestine Refugees in the

Near East

UNU United Nations University

USAID United States Agency for International Development

USDA United States Department of Agriculture

UXO Unexploded Ordinances

WBGS West Bank and Gaza Strip
WFP World Food Programme
WFS World Food Summit
WHO World Health Organization

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Foreword

In the 1996 World Food Summit and later in 2000 in the Millennium Declaration, countries committed themselves to decreasing by half the number and the proportion of people suffering from hunger by 2015. Hungry people are defined as not having physical, social and economic access to sufficient, safe and nutritious food for meeting their dietary energy needs and food preferences for an active and healthy life.

FAO was given the mandate to monitor hunger reduction efforts by providing estimates on people with food deprivation (hunger) in terms of proportion and numbers. The bench-mark period for both World Food Summit and Development Goals targets is 1990-92. The State of Food Insecurity in the World published by FAO in 2006, indicates that more than 820 million people in the developing world were undernourished in 2001-03.

FAO has been monitoring food deprivation at country, regional and global levels using food consumption data as estimated by food balance sheets based on country data. Several national statistics offices have assessed food insecurity at national and sub-national levels using food consumption and income (or total expenditure as proxy) data collected in national household surveys. National statistics offices have analyzed household survey data using the Food Security Statistic Module (FSSM) developed by the Statistics Division. The FSSM is a set of procedures implemented by national statistics offices in countries to produce a suite of standard indicators on food security at national and subnational levels that are consistent and comparable over time and among countries.

This document is a compilation of papers authored by national officers with the collaboration of FAO professionals involved in food security using food security statistics from 11 countries in Asia, Africa and Eastern Europe. The document also includes papers reporting on methodological issues related to the estimation of food deprivation in countries in terms of experiences and achievements. It points out challenges for future work in using food consumption and other pertinent data collected in national household surveys to assess the situation of food insecurity.

The aim of this document is to facilitate a better understanding of food security indicators in terms of their production and use for food policy analysis as well as their limitations. It highlights issues for further development to improve information on food security so that food policy measures can be better informed and monitored over time and be adjusted accordingly. Improving food data collection will allow practitioners and stakeholders on food security to better target food deprived people with more effective actions against hunger.

I wish to thank all authors from national statistical offices and institutions involved in food security, for sharing their experiences. I am also grateful to national teams of participant countries and FAO colleagues involved in the EC-FAO Food Security Information for Action Programme, in particularly the Household Survey Programme in the Statistics Division, Food Insecurity and Vulnerability Information and Mapping Systems (FIVIMS) in the Agricultural Development Economics Division, the Gender, Equity and Rural Employment Division which are part of the Economic and Social Development Department. Finally, I express my gratitude to the European Union for the financial support to participant countries and to the EC-FAO Food Security Information for Action Programme.

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Preface

The International Scientific Symposium (ISS) on Measurement and Assessment of Food Deprivation and Undernutrition, held in FAO in 2002, brought together scientists dealing with methods and their applications for measuring hunger. The aim of the ISS was to enhance FAO's mandate of measuring and monitoring progress towards World Food Summit and Millennium Development Goals targets on halving the number and the proportion of hungry people by the year 2015.

After the ISS several methodological proposals have been made for measuring hunger. In 2006 Kakwani and Son proposed for the 2001 global estimates, to use as a measure of hunger, the proportion of people not having enough income to meet basic food needs, using as cut-off point, in the income distribution, the cost of average energy requirements priced in 1993 PPP dollars with no indication of nutrient quality of food consumed¹. This methodology has been applied by countries using national food poverty lines and it is known as extreme poverty or as food poverty.

In 2007 Smith and Subandoro² proposed a non-parametric approach for estimating the percentage of people that are food energy deficient using household survey data. Energy deficiency occurs when individuals consume less than the average energy requirement for light physical activity. The percentage of food energy deficient people for a given energy consumption level has been over-estimated, compared to FAO estimate, because of two main reasons: first, the value of the cut-off point is higher than the FAO's cut-off point, reflecting average energy needs for average body size of people compared to minimum acceptable body size used by FAO (light physical activity level is common to both approaches); and second, the implicit higher inequality measure in food consumption due to sources of variation other than income and biological factors.

FAO uses a parametric approach for global estimates of the prevalence of food deprivation using national food production and trade data to prepare national food balances. After the ISS, FAO extended the use of this approach to household survey data. The three parameters are: the mean and the variance of energy consumption under the assumption of a lognormal distribution and the cut-off point as described in the previous paragraph. The variance is derived taking into consideration only the income and biological factors, ignoring other factors usually related to sampling design and measurement errors.

The food security statistics, in particular the prevalence of food deprivation at national and sub-national levels, presented in the various papers of this document are based on the FAO approach, using household survey data on private food consumption. Food consumption from household survey data refers to food consumed by household members while food consumption in national food account data refers to food consumed by people in public establishments (hospitals, hotels, prisons, military compounds, etc.) and by household members (private consumption); hence the prevalence of food deprivation differs due to different target populations.

The idea of compiling various papers on food security statistics in one document aims to share country experience in recent years using the FAO approach to available data on food consumption collected in national household surveys. These papers

New Global Poverty Counts, UNDP - International Poverty Centre Working Paper #29, Brasilia, Brazil, 2006.

Measuring Food Security Using Household Expenditure Surveys: Food Security in Practice, IFPRI, Washington DC, USA, 2007

have been disseminated in international conferences such as the Fourth International Conference in Agriculture Statistics (ICAS-4) held in Beijing, China, 22-24 October 2007 and the 20th Session of the African Commission on Agricultural Statistics (AFCAS-20) in Algiers, Algeria, 10 - 13 December 2007.

The introductory paper in Part 1 summarizes the efforts and lessons learned from experiences in participating countries to improve food security statistics. Part 2 deals with food security estimates performed at national and sub-national levels in four countries. The papers of Cambodia and the Philippines are examples of food security statistics with gender analysis, while the Lao PDR and Mozambique papers are examples of sub-national analysis. Part 3 addresses measurement approaches of food acquisition and food consumption for the purpose of estimating food security statistics. The examples of Armenia, Cape Verde and Kenya depict detailed effects of how food data are collected on estimates of food security statistics in different settings. Part 4 reviews the policy implications of food security statistics on agriculture in Palestine and food security statistics trends in Moldova. Part 5 shows examples of enhanced analyses using panel data on food consumption in Tajikistan while linking child nutritional status with food security statistics in Georgia. Part 6 proposes methodological approaches for improving food security statistics for policy analysis; the first paper discusses household resilience to food insecurity using Palestinian data, while the last paper describes the linkage between critical food poverty and food deprivation. Finally, Part 7 provides a glossary of selected terminology related to food security statistics.