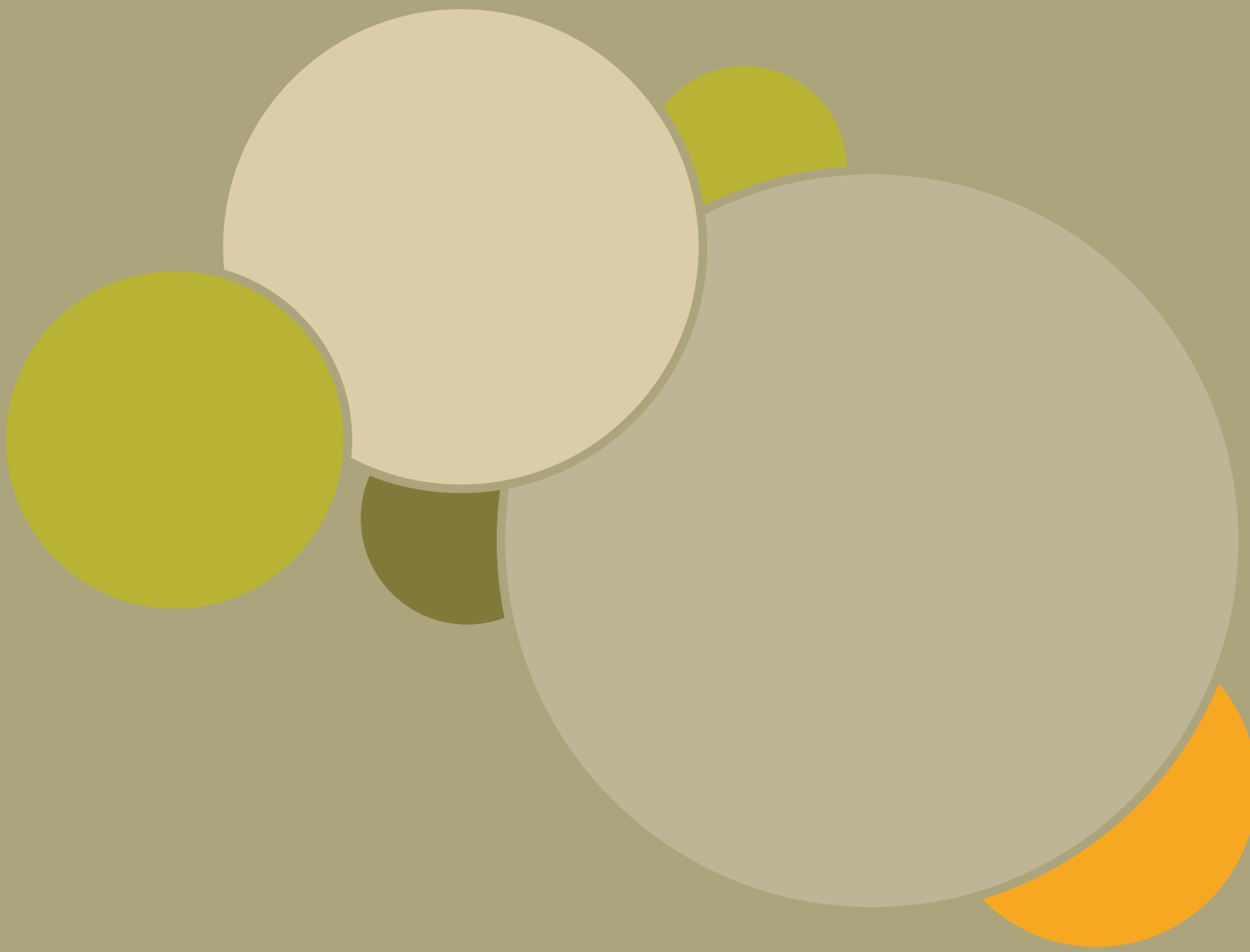
Food and Agriculture Organization
of the United Nations

Guidelines for the Incorporation of a Woodfuel Supplementary Module into Existing Household Surveys in Developing Countries

Publication prepared in the framework of the Global Strategy to improve Agricultural and Rural Statistics

Guidelines for the Incorporation of a Woodfuel Supplementary Module into Existing Household Surveys in Developing Countries

August 2018



Contents

Acronyms iv
Acknowledgements v

CHAPTER 1
INTRODUCTION 1
1.1. Background 2
1.2. Objectives and scope 4

CHAPTER 2
DATA COLLECTION METHODS 7
2.1. The Woodfuel Supplementary Module (WSM) 9
2.2. How to incorporate the WSM into existing survey questionnaires 15
2.3. Sampling strategy 16
2.4. Data collection mode, duration of interview, timing and local adaptations 18

CHAPTER 3
WOODFUEL INDICATORS AND DATA DISSEMINATION 21
3.1. Woodfuel indicators 22
3.2. Data dissemination 24
3.3. Data gaps and steps forward 28

REFERENCES 31

ANNEXES 35
Annex 1. Main outcomes of the previous steps of the project 35
Annex 2. The Woodfuel Supplementary Module (WSM) 41
Annex 3. Manual for Enumerators 51
Annex 4. Glossary 73
Annex 5. Examples of flashcards 79

Acronyms

AFREC	African Energy Commission of the African Union
AFWC	African Forestry and Wildlife Commission
CAPI	Computer-Assisted Personal Interviewing
CFSVA	Comprehensive Food Security and Vulnerability Analysis
DHS	Demographic and Health Surveys
ECV	Encuesta Condiciones de Vida
EGM	Expert Group Meeting
EPICOMAD	Encuesta Piloto Combustibles de Madera
FAO	Food and Agriculture Organization of the United Nations
FAOLS	FAO Lesotho
GACC	Global Alliance for Clean Cookstove
GCV	Gross Calorific Value
GSARS	Global Strategy to improve Agricultural and Rural Statistics
HHV	Higher Heating Value
INEC	Instituto Nacional de Estadística y Censos de Ecuador
IRENA	International Renewable Energy Agency
ITTO	International Tropical Timber Organization
LBOS	Lesotho Bureau of Statistics
LFS	Labour Force Surveys
LHV	Lower Heating Value
LSMS	Living Standard Measurement Study
MICS	Multiple Indicators Cluster Surveys
MJ	Mega Joule
NGO	Non-Governmental Organization
NCV	Net Calorific Value
NSO	National Statistical Office
PAPI	Paper-and-Pencil Interview
SAC	Scientific Advisory Committee
SCM	Solid Cubic Meter
SDG	Sustainable Development Goals
SE4AII	Sustainable Energy for All Initiative
STC	Stacked Cubic Meter
UNECE	United Nations Economic Commission for Europe
UNFCCC	United Nations Framework Convention on Climate Change
UNSD	United Nations Statistics Division
WHO	World Health Organization
WSM	Woodfuel Supplementary Module

Acknowledgments

These Guidelines were prepared by Andrea Borlizzi[1].

The author would like to thank all those who contributed to development of the Guidelines: Christophe Duhamel and Arbab Asfandiyar Khan, of the Global Strategy to improve Agricultural and Rural Statistics (GSARS), and Mats Nordberg and Thais Linhares Juvenal and Zuzhang Xia of FAO (Forestry Department), for their supervision; Yanshu Li, former Forestry Officer at the FAO Forestry Department, for developing the project's concept note and coordinating the initial stages of the research. Special thanks go to Monica Madrid Arroyo, focal point at the Global Strategy, for her precious collaboration and suggestions provided throughout the development of the research project and for coordinating the field test activities; Flavio Bolliger, for his contribution to the development of the methodology and his supervision; and Arvydas Lebedys, for his constant support and contribution to the organization of the expert meeting.

Valuable input and comments were provided at various stages by the members of the Scientific Advisory Committee (SAC) of the Global Strategy,[2] participants in a dedicated expert meeting held at FAO Headquarter in April 2017[3] and the peer reviewers[4] of the present Guidelines.

The Lesotho field test was possible thanks to the collaboration of the Lesotho Bureau of Statistics (LBOS)[5] and FAO Lesotho (FAOLS).[6] The cognitive test and the field test in Ecuador could be implemented thanks to the valuable collaboration of the country's National Institute of Statistics and Censuses (INEC)[7] and FAO Ecuador.[8]

This publication was prepared with the support of the Trust Fund of the Global Strategy, funded by the UK's Department for International Development (DfID) and the Bill & Melinda Gates Foundation.

The FAO Forest Products Statistics team also provided considerable financial support to the research project.

Arianna Martella coordinated the design and communication aspects.

The publication was edited by Sarah Pasetto and formatted by Laura Monopoli.

1 International Consultant – Statistician, GSARS.

2 The membership of the SAC is currently as follows: Vijai Bhatia, Seghir Bouzzafour, Jacques Delincé, Cristiano Ferraz, Eva Laczka, Dalisay Maligalig, Bakary Sacko, Edwin St. Catherine, Michael Steiner and Zhengyuan Zhu.

3 Donee Alexander (GACC), Ilias Animon (FAO), Flavio Bolliger (GSARS), Jeremy Broadhead, Rudi Drigo, Arturo Gianvenuti (FAO), Branko Glovonjic (University of Belgrade), Gajanana Hegde (UNFCCC), Talip Kilic (World Bank), Jessica Lewis (WHO), Monica Madrid Arroyo (GSARS), Mats Nordberg (FAO), Tsoarelo Nelson Nzemene (LBOS), Damiàn Rivadeneira (INEC), Leonardo Souza (UNSD), Florian Steierer (UNECE), Tsepiso Thabane (LBOS), Adrian Whiteman (IRENA), Zuzhang Xia (FAO) and Alberto Zezza (World Bank).

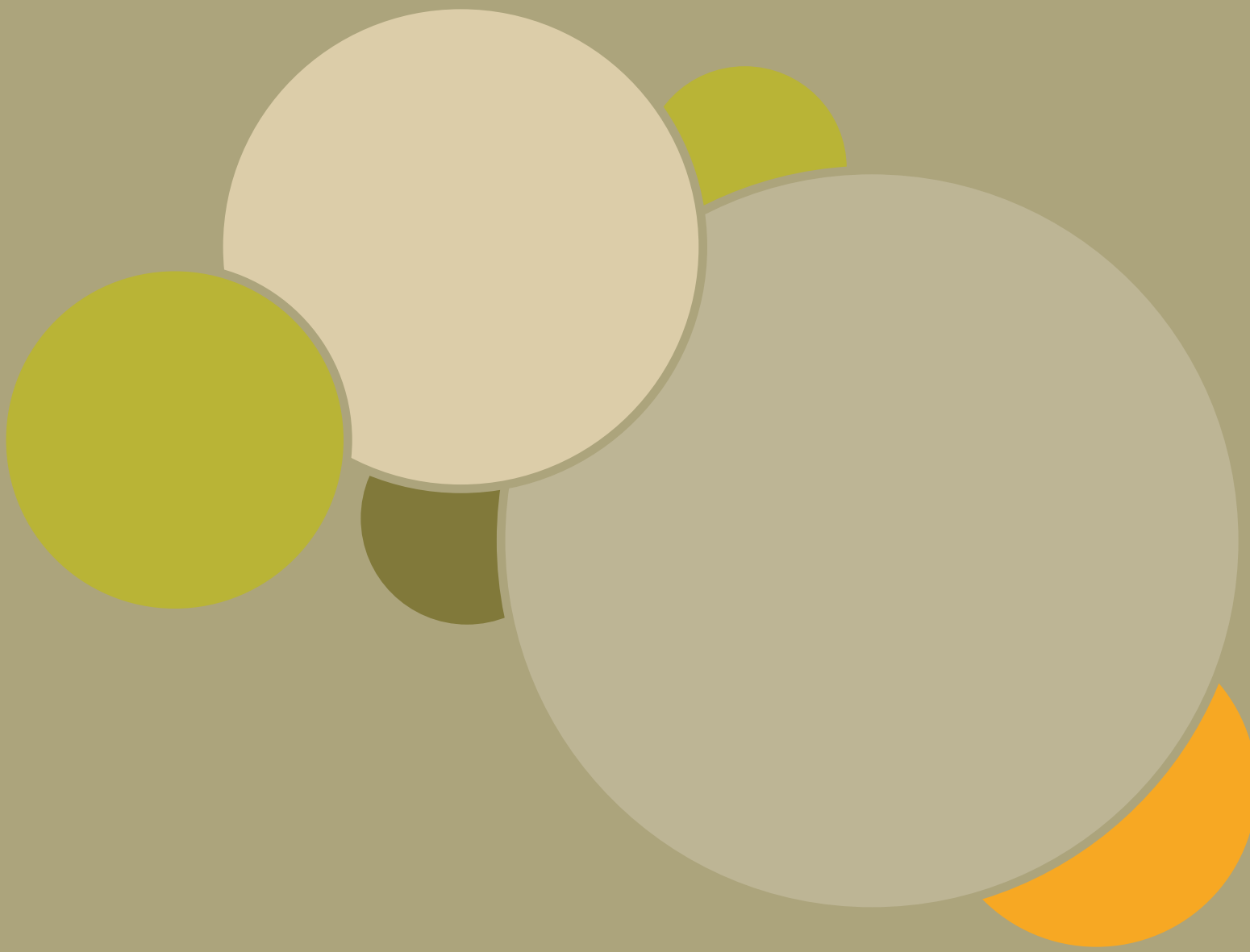
4 Nayo Ankouvi (GSARS), Christophe Duhamel (GSARS), Arturo Gianvenuti (FAO), Shelton Kanyanda (World Bank), Arbab Asfandiyar Khan (GSARS), Arvydas Lebedys (FAO), Jessica Lewis (WHO), Yanshu Li (University of Georgia), Monica Madrid Arroyo (GSARS), Adrian Whiteman (IRENA), Zuzhang Xia (FAO).

5 Sebolelo Moalosi, Celina Molato, Nelson Nzemene, Tsepiso Thabane, and twelve enumerators.

6 Yves Klompenhouwer – FAO Representative in Lesotho – and Mokitinyane Nthimo.

7 Andrés Albán Fernandez, Cármen Artieda Espinosa, Marisol Carrasco Sumba, Irina Marín Luna, Lorena Naranjo, Carlos Obando, Adriana Raza and the enumerators and other human resources provided by INEC.

8 In particular, John Preissing, FAO Representative in Ecuador, Vanessa Cáceres and Ana Belén Herrera.



1

Introduction

KEY MESSAGES

Woodfuel plays a critical role in the economic and social wellbeing of people around the world. Despite its role, many developing countries lack reliable data with which to estimate the patterns and trends of woodfuel consumption and production, leading to insufficient attention being given to wood energy in national policies and to problems in assessing its impact on health and the environment. These Guidelines present a tool, the Woodfuel Supplementary Module, which was designed to collect reliable and comparable data on woodfuel production and consumption across the world.

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_22479