

Food and Agriculture Organization of the United Nations

Guidelines to Enhance Small-Scale Fisheries and Aquaculture Statistics through a Household Approach



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Contents

ACRONYMS ACKNOWLEDGEMENTS		v
		vi
EXECUTIVE SUMMARY		
СНАРТІ	ER 1 – INTRODUCTION	9
1.1	Background	9
1.2	The need for enhanced information on small-scale fisheries	11
1.3	The Global Strategy to improve Agricultural and Rural Statistics	12
1.4	Link to the WCA	14
1.5	Traditional approaches to fisheries surveys	15
СНАРТ	ER 2 – SCOPE, STRUCTURE AND BASIC CONCEPTS	17
2.1	Scope of these Guidelines	17
2.2	The Guidelines' structure and general principles	18
СНАРТІ	ER 3 – SURVEY PROSPECTS, TARGET POPULATIONS AND SAMPLING STRATEGIES	21
3.1	Definition of the target population for small-scale fisheries	21
3.2	Approaches to identifying the target population for small-scale fisheries	22
3.3	Screening questions for ascertaining engagement in small-scale fisheries	25
3.4	Key principles to identify the target population for small-scale fisheries	27
3.5	Total enumeration versus a sample-based approach	28
3.6	Sampling approaches of the target population for household surveys	29
CHAPTER 4 – HOUSEHOLD SURVEY (SAMPLE SURVEY)		33
4.1	Variables and data items for household surveys	33
СНАРТІ	ER 5 – DISSEMINATION AND TABULATIONS OF STATISTICS	45
5.1	Scope of data items collected	45
5.2	Data collection and tabulation process	48
5.3	Suggested tabulation for the small-scale fisheries sector	48
СНАРТІ	ER 6 – CONCLUSION	57
6.1	Expected output from community and household surveys	58
6.2	Developing regular data collection on fishing and aquaculture production	59

REFERENCES	61
GLOSSARY	65
APPENDIX I - COMMUNITY-LEVEL SURVEY – DATA ITEMS	73
APPENDIX II - MAPPING WITH THE GLOBAL STRATEGY'S CORE DATA ITEMS	81
APPENDIX III - INDICATIVE EXAMPLES OF SURVEY QUESTIONNAIRES	85
APPENDIX IV - INTERNATIONAL STANDARD INDUSTRIAL CLASSIFICATION OF ALL ECONOMIC ACTIVITIES (ISIC)	101
APPENDIX V - CENTRAL PRODUCT CLASSIFICATIONS (CPC)	111
APPENDIX VI - SEEA	123
APPENDIX VII - INTERNATIONAL STANDARD STATISTICAL CLASSIFICATION ON FISHING GEARS (ISSCFG)	127
APPENDIX VIII - INTERNATIONAL STANDARD STATISTICAL CLASSIFICATION OF AQUATIC ANIMALS AND PLANTS (ISSCAAP) GROUPS	131

Acronyms

AFCAS	African Commission on Agricultural Statistics
APCAS	Asia and Pacific Commission on Agricultural Statistics
CCRF	Code of Conduct for Responsible Fisheries
COFI	Committee on Fisheries
CWP	Coordinating Working Party on Fishery Statistics
CWP-AS	Aquaculture Specialized Group
EAA/F	Ecosystem Approach of Aquaculture/Fisheries management
FAO	Food and Agricultural Organization of the United Nations
GIS	Geographic Information System
ILO	International Labour Organization
ISIC	International Standard Industrial Classification of All Economic Activities
MSF	Master Sampling Frame
ODA	Overseas Development Administration
PPS	probability proportional to size
PSU	Primary Sampling Unit
SDG	Sustainable Development Goal
SEEA	System of Environmental-Economic Accounting
Strategy-STA	Strategy and Outline Plan for Improving Information
	on Status and Trends of Aquaculture
UN	United Nations
UNSD	United Nations Statistics Division
WCA	World Programme for the Census of Agriculture (FAO)

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Executive Summary

Small-scale operators make a fundamental contribution to ensuring local food security, alleviating poverty and providing livelihoods in the field of fisheries and aquaculture. However, it is extremely challenging to monitor their production and thus accurately measure the entity of their contribution. Small-scale and subsistence operators are generally scattered geographically, and engage in fishing and fish-farming activities only partially and/or seasonally as a supplement to other activities (e.g. by fishing and fish-trapping in nearby rivers for a few days each week, or keeping catch in backyard irrigation ponds). In addition, the harvests are often shared, traded and consumed outside the commercial marketing systems on which national statistical data collection is usually based, such that even estimating the overall number of people engaged in fisheries and aquaculture can be a challenging and costly task. As a result, despite its economic and social importance especially for food security and poverty alleviation, the contribution of small-scale capture and aquaculture is poorly represented in national statistics. This may lead to the social and political marginalization of the people and communities that depend on small-scale fisheries and aquaculture.

These Guidelines on Census Survey Stages describe a method that can be employed to accurately capture the actual contribution of small-scale fisheries and aquaculture to rural communities. In principle, the basic structure of these survey stages follows the concepts adopted by the World Programme for the Census of Agriculture (WCA), including the modular approach, to enhance utility and reduce implementation costs.

These Guidelines set out a methodology for the collection of data and information on various aspects of the fisheries and aquaculture sector, especially concerning small-scale operators. The methodology is conceived as a questionnaire survey to be implemented within a census framework, i.e. within agricultural, population, or rural censuses, or specialized community and household surveys. Although using a census framework is costly, it was considered the method that could most effectively and comprehensively illustrate the contribution made by small-scale operations. Once this contribution is ascertained, it can be used to adjust regular (annual/monthly) data collection systems, improve sampling schemes and remove duplications. The data obtained with a census framework also provides a benchmark that helps to bolster the data collected through regular surveys into national statistics, for non-census years.

To ensure the highest level of data complementarity, these Guidelines suggest a hierarchy of census-level questions and survey items for both community and household levels. Countries should design their own census surveys, selecting the modules and questions for each specific category that are appropriate to their policy needs and interests and available resources. In this respect, the Guidelines emphasize that categories can be combined as appropriate:

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