Philippines - Quarterly Inland Fisheries Survey 2020

Philippine Statistics Authority (PSA)

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Overview

Identification

ID NUMBER
PHL-PSA-QIFS-2020-v1

Version

VERSION DESCRIPTION
Version 1.0: Edited at Central Offiice for preliminary computation, anonymized

PRODUCTION DATE
2020-08-18

NOTES
Reflects modification on the new sampling frame used as it adopted the results of the Census of Agriculture and Fisheries (CAF) activity conducted in 2012 which replaced the Listing of Inland Fishing Households.

Overview

ABSTRACT
The Quarterly Inland Fisheries Survey (QIFS) is a survey on volume and price of fish, by species caught by households engaged in inland fishing. The general objective of QIFS is to generate information on quarterly volume and value of fish catch by species at the provincial, regional and national levels.

Inland municipal fishing include the catching of fish, crustaceans, molluscs and all other aquatic animals and plants in inland waters like lakes, rivers, dams, marshes, swamps, irrigation canals, creeks, etc. using simple gears and fishing boats. Some of which are non-motorized with a capacity of three (3) gross tons or less, or fishing not requiring the use of fishing boats.

Data on monthly volume and value of catch by species by households for the quarter are gathered during the survey using QIFS Form 1. The survey is implemented by the staff of the Provincial Statistical Office (PSOs) of the PSA. Respondents are any member of the household who are involved in inland fishing, may either be full-time or part-time fishermen.

Despite the meager contribution of inland fisheries to the total fisheries output, fisheries statistics would not be complete without the estimates from this sub-sector. The number of households dependent on fish catch from inland bodies of water could not be ignored. Some of the fish catch of inland fishing households is usually intended for home consumption.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Inland fishing household

Scope

NOTES
The scope of the Quarterly Inland Fisheries Survey include:

- GEOGRAPHICAL INFORMATION: Region, province, municipality, barangay

- FISHING HOUSEHOLD HEAD: Complete name of the household head

- RESPONDENT: Complete name of respondent and relationship to the household head

- FISHING GROUND/S: Source/s of fish catch of the household

- SPECIES: Local and English names of species caught by the household

- QUANTITY of FISH CATCH: Monthly fish catch of the household by species for the reference quarter

- PRICE: Prevailing price per kilogram of fish catch by species for the reference quarter

- FISHING GEAR/S USED: Name/s of fishing gears used by the household

- REMARKS: Any observations, issues, concerns, etc. relevant to inland fishing

TOPICS

Topic	Vocabulary	URI
Economic Statistics/Sectoral/Fishery	Philippine Statistics Authority	

KEYWORDS
Inland Household

Coverage

GEOGRAPHIC COVERAGE
Provinces in regions, National coverage.

GEOGRAPHIC UNIT
The province is the lowest level of disaggregation

UNIVERSE
All households engaged in inland fishing nationwide

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Philippine Statistics Authority (PSA)	National Economic Development Authority (NEDA)

FUNDING

Name	Abbreviation	Role
Government of the Philippines	GOP	Full Funding

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Fisheries Statistics Division	FSD	Philippine Statistics Authority (PSA)	Documenter of the study

DATE OF METADATA PRODUCTION
2020-09-05

DDI DOCUMENT VERSION
Version 1.0 (2020)

DDI DOCUMENT ID
DDI-PHL-PSA-QIFS-2020-v1

Sampling

Sampling Procedure

As part of improvement in the generation fisheries statistics, the FSD-ESSS adopted the new survey designs for its fisheries surveys. The redesigned QIFS implements a new sampling design using the 2012 Census of Agriculture and Fisheries (CAF) as the sampling frame which replaced the old Listing of Inland Fishing Households. This frame was used to draw sample inland fishing households for the survey.

The redesigned QIFS uses a two-stage sampling design with barangay serving as the primary sampling unit (PSU) and inland fishing household as the secondary sampling unit (SSU).

Sample barangays (PSUs) are selected using probability proportional to size (PPS) with sampling rate of 10 percent. The number of inland fishing households is used as the size measure. While sample inland fishing households (SSUs) are selected using simple random sampling (SRS) for each sample barangay. The inland fishing household size is 10 per barangay. For a sample barangay which has less than 10 inland fishing households, all households are taken as samples.

For 2020, a total of 1,365 households were sampled out of 82,755 inland fishing households listed nationwide.

Response Rate

Response rate for quarterly survey of inland fisheries is 100%.

Weighting

A factor derived from the number of total households over the sample households is used to estimate monthly production of inland fisheries in the province . This factor varies from one province to another.

Questionnaires

Overview

QIFS Form 1 is a one-page English language questionnaire used in gathering information on the monthly quantity and price per kilogram by species of fish catch of the sample households during the reference quarter.

One questionnaire per sample household is used in the conduct of the interview. Names of household head and respondent, as well as the relationship of the respondent to the household head are included in the survey form. The same questionnaire is used every quarter. The same data structure is required in every quarter.

The survey form was provided as a technical document.

Data Collection

Data Collection Dates

Start	End	Cycle
2020-03-23	2020-03-26	First Quarter
2020-06-22	2020-06-25	Second Quarter
2020-09-21	2020-09-24	Third Quarter
2020-11-22	2020-11-26	Fourth Quarter

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

Sample households are visited during the third week of the last month of the reference quarter. Hired Statistical Researcher (SR) is responsible for the data collection on monthly quantity and price of species caught by the members of the household for the given quarter.

The household head is the name listed in the frame, but any member of the household could be a respondent provided he/she is knowledgeable of the fishing activities of the sample household.

Data on monthly catch and price of species for the quarter are given by the respondent through recall. It is important that data collector reminds the respondent that volume of catch refers not only to the fish sold but includes even those used for domestic home consumption.

Households listed in the frame are not stratified by fishing ground. Nevertheless, this is included in the questionnaire to have information on source/s of catch of the household. Respondents are also asked on the fishing gears used by the sample household.

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Data Collectors

Name	Abbreviation	Affiliation
Philippine Statistics Authority	PSA	National Economic Development Authority (NEDA)

Supervision

The Regional Director (RD) is responsible for the regional level monitoring and supervision of the survey operations of the Provincial Statistical Offices (PSOs).

The Provincial Statistics Officer (PSO) is the over-all supervisor in the province. As field supervisor, the PSO should ensure

accuracy of data collection, completeness of the accomplished survey forms. As part of the PSO's tasks is the conduct of spot-checking and back-checking on the work of SRs who act as data collectors for this activity.

Data Processing

Data Editing

Manual editing of questionnaires at the provincial level is needed before the electronic data processing of survey returns.

Steps in data editing include the following:
a) Completeness of data items in the questionnaire
b) Correctness of unit of measurement used
c) Coding and encoding
d) Expansion factor used

Before the results are summarized, another series of consistency and completeness check is made during electronic data processing.

Other Processing

A Census and Survey Processing System (CSPro) based data processing system developed by SDD will be used to facilitate data entry, completeness check, consistency check and generation of estimates and reports of the quarterly fisheries surveys.

The PSO is responsible for the data processing of QIFS returns using the system.

Data Appraisal

Estimates of Sampling Error

Not applicable

Other forms of Data Appraisal

The accomplished QIFS forms serve as inputs for internal checks of the survey data. Units of measurement used for volume and price are reviewed. Levels of estimates are compared with those of the same quarter last year. Change in production is assessed if it reflects the real inland fisheries situation in the province. Some parameters used in the validation of inland fisheries are the number of households, productivity of sources of catch, fingerlings dispersal program of the BFAR.

To ensure the quality of data, the generated outputs had to undergo data review and validation. Data review involves internal checks of the data collected, consistency and completeness check of data items and detection and correction of identified errors. Data validation, on the other hand, ensures that the estimates generated are truly reflective of the current fisheries situation. It involves thorough analysis of the generated estimates with auxiliary information.

Data review was undertaken in three (3) levels: provincial, regional and national levels which are identified as Provincial Data Review (PDR), Regional Data Review (RDR) and National Data Review (NDR), respectively.