

Philippines - Quarterly Inland Fisheries Survey 2021

Philippine Statistics Authority (PSA)

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Overview

Identification

ID NUMBER

PHL-PSA-QIFS-2021-v1

Version

VERSION DESCRIPTION

Version 1.0: Edited at Central Office for preliminary computation, anonymized

PRODUCTION DATE

2022-01-13

Overview

ABSTRACT

The Quarterly Inland Fisheries Survey (QIFS) is a survey on volume and price of fish, by species caught by the households engaged in inland fishing. The general objective of QIFS is to generate information on quarterly volume and value of inland 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 Offices (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: Sex of the household head
- RESPONDENT: Relationship to the household head
- FISHING GROUND/S: Source/s of fish catch of the household

- SPECIES: English and local name equivalent of species caught by the household
- VOLUME of CATCH: Monthly catch of the household by species for the reference quarter
- PRICE: Monthly prevailing price per kilogram of catch by species for the reference quarter
- REMARKS: Any observations, issues, concerns, etc. relevant to production in inland fishing in the locality

TOPICS

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

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 - Economic Sector Statistics Service	FSD - ESSS	Philippine Statistics Authority (PSA)	Documentation of the survey

DATE OF METADATA PRODUCTION

2022-11-30

DDI DOCUMENT VERSION

Version 1.0 First Metadata Documentation for the redesigned 2021 QIFS

DDI DOCUMENT ID

DDI-PHL-PSA-QIFS-2021-V1.0

Sampling

Sampling Procedure

As part of improvement in the generation fisheries statistics, FSD 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 inland survey 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.

Out of the 144,155 inland fishing households listed nationwide, 7,433 were sampled for 2021.

Response Rate

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

Weighting

Base weights were computed for each sample inland fishing household (HH) in a sample barangay. To take into account cases of non-response samples, base weights were adjusted. Further, adjustment was made to come up with the final weighted estimates.

The formula and descriptions of the variables of the weights used in QIFS estimation are described in pages 7 to 9 of QIFS Manual of Operations which was attached as a external resource.

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 inland fishing households during the reference quarter. Fishing ground was included in the questionnaire to provide information on source/s of catch of the household.

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
2021-03-15	2021-03-19	First Quarter
2021-06-14	2021-06-18	Second Quarter
2021-09-20	2021-09-24	Third Quarter
2021-11-15	2021-11-19	Fourth Quarter

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

Prior to data collection, there were three (3) levels of training on field operations for QIFS being conducted as follows:

1. Operational training on fisheries surveys served as the first level training conducted annually. The FSD staff act as resource persons. The participants included two (2) representatives per region.
2. Second level training was conducted in the Regional Statistical Service Office (RSSO) immediately after the first level training. Participants to the second level training were representatives from the RSSO and two (2) participants from each province.
3. Third level training was held at the PSO prior to each survey round. This training was intended for the enumerators or the hired Statistical Researchers (SRs) and attended also by the PSO supervisors.

Sample households were visited during the third week of the last month of the reference quarter. Hired SR was 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 was 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 were 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 were not stratified by fishing ground. Nevertheless, this data item was included in the questionnaire to have information on source/s of catch of the household.

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Data Collectors

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

Supervision

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

The Provincial Statistical Officer (PSO) is the over-all supervisor in the province. As field supervisor, the PSO should ensure accuracy of data collection and 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.

Data editing includes the following:

- a) Checking completeness of data items in the questionnaire
- b) Review of correctness of unit of measurement used and decimal positions
- c) Coding and encoding
- d) Checking expansion factors 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 (CSPPro) based data processing system developed by the Systems Development Division (SDD) will be used to facilitate data entry, completeness check, consistency check and generation of estimates and reports of the quarterly inland fisheries survey.

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

Data Appraisal

Estimates of Sampling Error

One sampling error being committed in the survey was the non-response error when eligible respondents were unable to be contacted or refused to respond at the time of interview. Details for computing the sample error is provided on page 8 of the QIFS Manual of Operations which was attached as an external resource.

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.