

Philippines - Quarterly Municipal Fisheries Survey 2020

Philippine Statistics Authority (PSA)

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Overview

Identification

ID NUMBER
PHL-PSA-QMFS-2020-v1

Version

VERSION DESCRIPTION
V2: edited at Central Office, anonymized

PRODUCTION DATE
2021-10-01

Overview

ABSTRACT

The PSA through the FSD under the Economic Sector Statistics Service (ESSS) is responsible for the conduct of periodic surveys related to fisheries. The fisheries sector is composed of three (3) subsectors, namely; commercial, municipal fisheries and aquaculture. There are four (4) quarterly surveys that generate volume and value of production by species at the national, regional and provincial level. The statistics primarily serve as input to the compilation of performance of agriculture and national accounts. The data sets are also used for policy making and program implementation on fisheries.

Municipal fisheries is one of the three (3) sectors of fisheries, the others being commercial fisheries and aquaculture. Municipal fisheries cover fishing in marine waters.

The Quarterly Municipal Fisheries Survey (QMFS) is a survey on volume and price of fish unloaded in municipal traditional fish landing centers by fishing boats with gross tonnage of three (3) tons and less. Data are collected by hired Statistical Researchers (SRs) through personal interview of at least five (5) key informants knowledgeable on the fishing activities at the sample fish landing center. Key informants may be a fisherman, fishing boat operator, fish trader, fish broker, or barangay officials. Monthly volume and price of fish unloaded at the landing centers are gathered on the last week of the last month of the reference quarter.

Administrative data from Philippine Fish Development Authority (PFDA) and local government units (LGUs) are collected by the regular staff or hired SR.

The general objective of the survey is to generate information on the quarterly volume and value of marine municipal fisheries production by species at the provincial, regional and national levels.

During its quarterly conduct, data collection, supervision, field editing, and data processing are done in the field offices. Three levels of data review are undertaken which are the provincial, regional and national. As a final point, the FSD is responsible for the release of the estimates and the preparation of reports.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Municipal fish landing center

Scope

NOTES

The scope of the Quarterly Municipal Fisheries Survey in traditional fish landing centers include:

- QUARTER and YEAR: reference quarter for the current year
- GEOGRAPHIC INFORMATION: region, province
- LANDING CENTER: complete name and stratum or classification of the sample fish landing center
- RESPONDENTS: complete name and type of key informant
- SPECIES UNLOADED: monthly volume of fish unloaded by species during the reference quarter
- PRICE: monthly price per kilogram of species unloaded in the landing center during the reference quarter
- REASONS FOR CHANGE IN VOLUME OF UNLOADINGS

TOPICS

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

Coverage

GEOGRAPHIC COVERAGE

Provinces in regions, National coverage

GEOGRAPHIC UNIT

Province is the lowest level of data disaggregation.

UNIVERSE

All municipal fish landing centers nationwide

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Philippine Statistics Authority (PSA)	National Economic and 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

2021-10-01

DDI DOCUMENT VERSION

Version 1

DDI DOCUMENT ID
DDI-PHL-PSA-QMFS-2020-V1

Sampling

Sampling Procedure

The list of all municipal fish landing centers in the country serves as the sampling frame for the Quarterly Municipal Fisheries Survey (QMFS) of traditional fish landing centers.

Stratified sampling by province is employed with average daily unloading as stratification variable. The landing center serves as the primary sampling unit. The landing centers are grouped into the following strata:

Stratum 1 - consists of the top producing fish landing centers

Stratum 2 - consists of the major producing fish landing centers

Stratum 3 - consists of all other landing centers

Simple random sampling is used in drawing the sample landing centers from each stratum. Replacement of sample landing center is allowed for landing centers with unstable peace and order situation and for hard or difficult to reach areas.

A total of 847 sample landing centers were covered nationwide.

For the PFDA-managed fish ports and LGU-managed landing centers, all are completely covered (complete enumeration).

Deviations from Sample Design

No deviation from the survey design.

Response Rate

Response rates for QMFS is 100%.

Weighting

A factor derived from the number of total fish landing centers over the sample fish landing centers by stratum is used to estimate the total volume of fish landed by municipal fishing boats in the province. This factor varies from one province to another.

Questionnaires

Overview

QMFS Form 1 is a one-page questionnaire in the English language used in gathering information on the monthly volume and average price per kilogram by species of fish unloaded in traditional municipal fish landing centers during the reference quarter.

Name and classification of sample landing center are indicated in the questionnaire. Thirty-one major species are pre-listed with provisions for other species not mentioned in the list. These others or minor species are also included in data processing. However, only the 31 or major species are highlighted in all fisheries publications.

One questionnaire per respondent is used in the conduct of the interview. Name and type of key informant are also included in the questionnaire.

The same questionnaire is used every quarter. The same data structure is required in every quarter.

On the other hand, QMFS Form 2 is used in gathering administrative data on the monthly volume and average price per kilogram of fish unloaded from PFDA and LGU-managed Landing Centers during the reference quarter. It is also a one-page questionnaire written in the English language. One form is intended for one landing center and covers one month information.

The survey forms were provided as technical documents.

Data Collection

Data Collection Dates

Start	End	Cycle
2020-03-22	2020-03-26	First Quarter
2020-06-21	2020-06-25	Second Quarter
2020-09-20	2020-09-24	Third Quarter
2020-11-22	2020-11-26	Fourth Quarter

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

The QMFS is one of the regular surveys of FSD. Statistical Researchers (SRs) are hired on a quarterly basis to conduct the survey. The SRs conduct face-to-face interview of at least five (5) key informants who are knowledgeable of the fishing activities in the sample fish landing center during the third week of the last month of the reference quarter.

On the average, data collection time could take an hour to accomplish one questionnaire. Since key informants are required to recall the monthly volume and selling price of species unloaded at the landing center during the quarter, more time are needed to get the desired information. The interview is being conducted in the local dialect used in the province or in the national language.

Looking for the right and qualified respondents in the sample fish landing center affects the accuracy of data collected. Data collectors are also instructed to record any observations, events, circumstances, occurrences in the fish landing center that contribute to the changes in production.

Seasonality of species and weather conditions are the major contributory factors that affect the volume and price of fish unloaded at the landing center.

Data collection period for the administrative records from the PFDA and LGU-managed landing centers is conducted on a quarterly basis with information in each month. Gathering of data is conducted by the Provincial Statistical Officer (PSO).

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Data Collectors

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

Supervision

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

The Provincial Statistical Officer is the over-all supervisor in the province. As field supervisor, the Provincial Statistical Officer 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.

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

Other Processing

To facilitate data processing, summarization and generation of output tables for data review, the Fisheries Data Generation System in MS Excel format is prepared. For municipal fisheries sub-sector, MunDatagen is used to generate provincial and regional municipal fisheries production and value estimates by species. Data collected in QMFS Form 1 are encoded in landing center worksheets of MunDatagen. These landing center worksheets serve as inputs to Provincial Data Generation Worksheet. The provincial worksheets are finally compiled and summarized at the regional worksheets.

Data Appraisal

Estimates of Sampling Error

Not applicable.

Other forms of Data Appraisal

Since a quarterly survey was done through interviews of key informants, validation of responses was needed. Additional information was gathered from interviews of people from government and non-government agencies and offices and other stakeholders in fisheries. The use of auxiliary information was also one way of validating data generated by the survey. Examples of these are the Bureau of Fisheries and Aquatic Resources (BFAR) moratorium of catching marine species, and the record of weather disturbances and the provinces affected by the calamity and existing fishery laws. Comparing current estimates with the time series of municipal fisheries data was also another way of validating survey results.

To ensure the quality of data, the generated output had to undergo data review and validation. Data review involves internal checks of the data collected; consistency and completeness check of the 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 a 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.