

Philippines - Quarterly Commercial Fisheries Survey 2020

Philippine Statistics Authority (PSA)

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Overview

Identification

ID NUMBER
PHL-PSA-QCFS-2020-v1

Version

VERSION DESCRIPTION
Version 2 - Edited at the Central Office, not 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 fisheries, 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.

Commercial fisheries is one of the fisheries subsectors. It covers fishing operations in marine waters beyond 15 kilometers from the shoreline by fishing boats with more than three (3) gross tons. The QCFS serves as the activity gathers that gathers information on volume and price of species unloaded in the landing center.

Data on commercial fisheries are collected in fish landing centers where fishermen unload and trade their catch. There are four (4) types of fish landing centers, namely: the traditional, private landing centers and those managed by Philippine Fish Development Authority (PFDA) and local government units (LGUs).

For the traditional landing center, data are collected 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. Statistical Researchers (SRs) are hired to conduct the actual interview of fishermen unloading at the sample landing centers.

Administrative data from LGU and privately-managed, and PFDA landing centers are collected by regular staff during the reference quarter.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Commercial fish landing center as the unit of analysis

Scope

NOTES
The scope of the QCFS in traditional fish landing centers include:

- QUARTER and YEAR : reference quarter for the current year
- GENERAL 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

59 provinces in regions, National coverage

UNIVERSE

All commercial fish landing centers nationwide

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

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

OTHER PRODUCER(S)

Name	Affiliation	Role

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

2020-08-25

DDI DOCUMENT VERSION

Version 1.0

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

Sampling

Sampling Procedure

The list of all commercial fish landing centers in the country serves as the sampling frame for the QCFS 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 the 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 234 sample landing centers were covered distributed in 59 provinces.

For the private, 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 QCFS is 95%.

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 commercial fishing boats in the province. This factor varies from one province to another.

Questionnaires

Overview

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

The survey forms were provided as technical documents.

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
2020-11-23	2020-11-26	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 QCFS 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 RSSO and two (2) participants from each province.
3. Third level training was held at the Provincial Statistical Office (PSO) prior to each survey round. The training was intended for the enumerators or the hired SRs and attended also by the PSO supervisors.

The hired SR conducted the interviews with the supervision of the regular staff of the PSA PSO. The SRs conduct the face to face interview of at least five (5) key informants who are knowledgeable in 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. Interview is being conducted in the 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. The SRs are also instructed to record any observations, event, 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, LGU-managed and Private landing centers is conducted on a quarterly basis with three (3) months information. Gathering of data is done by the Provincial Statistical Officer.

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Data Collectors

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

Supervision

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

The Provincial Statistical Officer provided the over-all supervisor in the province. Among the responsibilities of the supervisor is to conduct SR training prior data collection, assign area of coverage, schedule the data collection and ensure accuracy of data collection, completeness of the accomplished survey forms. To ensure the smooth implementation of data collection, the Provincial Statistical Officer conducted spot-checking and back-checking activities and addressed problems encountered by the SRs under his/her supervision. The Statistical Operations and Coordination Division (SOCD) Chief also provided another level of supervision. And sometimes, Central Office personnel became available to provide support and control of the said activities.

Data Processing

Data Editing

Initially, the survey returns were manually edited to ensure completeness and accuracy. During this stage, survey returns were checked for completeness from the list of samples. For each of the survey forms, entries should be complete and numeric entries are in proper unit of measurement and decimals places.

After encoding, the entries were then again inspected and reviewed for completeness, accuracy and consistency with other items.

Other Processing

The Fisheries Data Generation System (DataGen) is an MS Excel based system that facilitates encoding, editing, generation of estimates and data review of quarterly fisheries surveys. The PSO is responsible for the data processing of QCFS returns using the DataGen.

Data Appraisal

Estimates of Sampling Error

Not applicable

Other forms of Data Appraisal

Since 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. Example of these are Bureau of Fisheries and Aquatic Resources (BFAR) moratorium of catching marine species, Western and Central Pacific Fisheries Commission (WCPFC) marine conservation measures, record of weather disturbances and the provinces affected by the calamity and existing fishery laws. Comparing current estimates with the time series of commercial fisheries data was also another way of appraising 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; 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.