

# Philippines - Quarterly Municipal Fisheries Survey 2016

**Philippine Statistics Authority**

Report generated on: February 16, 2023

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## Overview

### Identification

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ID NUMBER  
PHL-PSA-QMFS-2016-v2

### Version

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VERSION DESCRIPTION  
Version 2 - Edited at the province level, not anonymized, for internal use

PRODUCTION DATE  
2017-04-15

### Overview

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ABSTRACT  
Municipal fisheries is one of the three (3) sectors of fisheries, the others being Commercial fisheries and Aquaculture. Municipal fisheries cover fishing in marine and inland waters.

The Quarterly Municipal Fisheries Survey (Traditional Landing Centers) is a survey on volume and price of fish unloaded at sample municipal fish landing centers by fishing boats with gross tonnage of three (3) tons and less. 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.

Data on marine municipal fisheries are collected in fish landing centers where fishermen unload and trade their catch. There are two (2) types of municipal fish landing centers, namely: the traditional and those managed by Philippine Fish Development Authority (PFDA) and Local Government Units (LGUs).

The two types of survey conducted in traditional municipal fish landing centers are the monthly or probability survey and the quarterly or non-probability survey.

KIND OF DATA  
Sample survey data [ssd]

UNITS OF ANALYSIS  
Municipal fish landing center

### Scope

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NOTES  
The scope of the Quarterly Municipal Fisheries Survey 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/Sectoral/Agriculture, Forestry, Fisheries	Philippine Statistics Authority	

## Coverage

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## GEOGRAPHIC COVERAGE

All provinces except those under the Cordillera Administrative Region (CAR); National coverage

## GEOGRAPHIC UNIT

Province is the lowest level of data disaggregation.

## UNIVERSE

All municipal fish landing centers nationwide

## Producers and Sponsors

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## PRIMARY INVESTIGATOR(S)

Name	Affiliation
Philippine Statistics Authority	National Economic and Development Authority

## FUNDING

Name	Abbreviation	Role
Government of the Philippines	GOP	Full Funding

## Metadata Production

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## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Fisheries Statistics Division	FSD	Philippine Statistics Authority	Documenter

## DATE OF METADATA PRODUCTION

2018-05-04

## DDI DOCUMENT VERSION

Version 1

## DDI DOCUMENT ID

DDI-PHL-PSA-QMFS-2016-V1

## Sampling

### Sampling Procedure

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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 volume of unloading per day 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 840 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

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No deviation from the survey design.

### Response Rate

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Response rates for quarterly municipal fisheries survey is 100%.

### Weighting

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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

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QMFS Form 1 is a one-paged 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-paged questionnaire written in the English language. One form is intended for one landing center and covers one month information.

## Data Collection

### Data Collection Dates

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Start	End	Cycle
2016-03-21	2016-03-25	First Quarter
2016-06-20	2016-06-24	Second Quarter
2016-09-19	2016-09-23	Third Quarter
2016-11-21	2016-11-25	Fourth Quarter

### Time Periods

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Start	End	Cycle
2016-01-01		First Quarter
2016-04-01		Second Quarter
2016-07-01		Third Quarter
2016-10-01		Fourth Quarter

### Data Collection Mode

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Face-to-face [f2f]

### Data Collection Notes

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The Quarterly Municipal Fisheries Survey (QMFS) is one of the regular surveys of the Fisheries Statistics Division. This quarterly survey entails less cost in operation compared to the monthly survey in which SRs are hired to conduct the survey. In place of SRs, the PSO staff conduct the interview of at least five (5) key informants who are knowledgeable in the fishing activities in the sample fish landing center during the third or fourth week of the last month of the reference quarter.

On the average, data collector 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. A pilot survey was done in Batangas before the full implementation of the nationwide survey.

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, 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 and LGU-managed landing centers is conducted on a quarterly basis with three (3) months information. Gathering of data is conducted by the hired SRs.

### Questionnaires

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## Data Collectors

Name	Abbreviation	Affiliation
Philippine Statistics Authority	PSA	National Economic and Development Authority

## 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 (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

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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 questionnaires
- b) Correctness of unit of measurement used
- c) Coding and encoding
- d) Expansion factors used

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

### Other Processing

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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 quarterly survey of municipal fish catch was done through interviews of key informants, validation of responses is needed. Additional information was gathered from interviews of people from government and non-government agencies and offices and other stakeholders in fisheries. Use of auxiliary information was also one way of validating data generated by the survey. Examples of these were the programs for the improvement of catch of fishermen by the Bureau of Fisheries and Aquatic Resources, record of weather disturbances and provinces affected, existing fishery laws, report or study on status of fishing grounds, etc. Comparing current estimates with the time series data was also one way of appraising survey results.