

Philippines - Quarterly Municipal Fisheries Survey 2015

Philippine Statistics Authority - National Economic and Development Authority

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Overview

Identification

ID NUMBER
PHL-PSA-QMFS-2015-v2

Version

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

PRODUCTION DATE
2016-12

Overview

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.

For monthly surveys, Statistical Researchers (SRs) are hired to do the actual interview of fishermen unloading at the sample fish landing centers. In the absence of adequate funds intended for the payment of wages for SRs, quarterly surveys are conducted by the regular staff in the Provincial Statistics Offices (PSOs).

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

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Municipal fish landing centers

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
- 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/fisheries	CountrySTAT Metadata	http://countrystat.psa.gov.ph/?cont=2

KEYWORDS

Fishing boat, Municipal fishing, Municipal waters, Value of fishery production, Volume of fisheries production, Landing Center, Fishing Ground

Coverage

GEOGRAPHIC COVERAGE

All provinces; National coverage

GEOGRAPHIC UNIT

Province is the lowest level of data disaggregation.

UNIVERSE

All traditional municipal fish landing centers

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Philippine Statistics Authority	National Economic and Development Authority

OTHER PRODUCER(S)

Name	Affiliation	Role

FUNDING

Name	Abbreviation	Role
Government of the Philippines	GOP	Full Funding

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
FISHERIES STATISTICS DIVISION	FSD	Philippine Statistics Authority	Documenter

DATE OF METADATA PRODUCTION
2017-06-19

DDI DOCUMENT VERSION
Version 1

DDI DOCUMENT ID
DDI-PHL-PSA-QMFS-2015-v2

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 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.

Deviations from Sample Design

No deviation from the survey design.

Response Rate

Response rate for quarterly municipal fisheries survey 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.

Data Collection

Data Collection Dates

Start	End	Cycle
2015-03-16	2015-03-20	First Quarter
2015-06-15	2015-06-19	Second Quarter
2015-09-14	2015-09-18	Third Quarter
2015-11-23	2015-11-27	Fourth Quarter

Time Periods

Start	End	Cycle
2015-01-01		First Quarter
2015-04-01		Second Quarter
2015-07-01		Third Quarter
2015-10-01		Fourth Quarter

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

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.

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 PSO staff 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 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

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 computed"

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.

File Description

Variable List

QMFS

Content	The dataset contains variables used in the estimation of quarterly volume and value of unloadings in a particular landing center. Monthly volume and price by species unloaded by municipal fishing boats during the reference quarter based on information given by five (5) respondents are found in the dataset.
Cases	32
Variable(s)	13
Structure	Type: Keys: ()
Version	
Producer	Philippine Statistics Authority
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V346	year	Year	discrete	numeric	
V347	qtr	Quarter	discrete	numeric	quarter
V348	rgn	Region	discrete	numeric	
V349	prov	Province	discrete	numeric	province
V350	lc_code	Landing Center	discrete	numeric	name of landing center
V351	st	Landing Center Stratum	discrete	numeric	
V352	bigLC	Total LC in a stratum	discrete	numeric	
V353	smLC	Sample LC in a stratum	discrete	numeric	
V354	spec_code	Species Code	contin	numeric	
V385	monthcode	Month Code	discrete	numeric	
V386	respcode	Respondent Code	discrete	numeric	
V355	volume	Volume of Production	contin	numeric	Actual volume of fish unloadings at the fish landing center by species during the first month of the reference quarter by the first respondent.
V356	price	Price per kilogram	contin	numeric	Actual volume of fish unloadings at the fish landing center by species during the second month of the reference quarter by the first respondent.

Year (year)

File: QMFS

Overview

Type: Discrete
 Format: numeric
 Range: 2015-2015

Valid cases: 0
 Invalid: 32

Description

Reference year

Quarter (qtr)

File: QMFS

Overview

Type: Discrete
 Format: numeric
 Range: 1-4

Valid cases: 0
 Invalid: 32

Literal question

quarter

Interviewer instructions

Write the reference quarter.

Region (rgn)

File: QMFS

Overview

Type: Discrete
 Format: numeric
 Range: 3-3

Valid cases: 0
 Invalid: 32

Province (prov)

File: QMFS

Overview

Type: Discrete
 Format: numeric

Valid cases: 0
 Invalid: 32

Literal question

province

Interviewer instructions

Indicate the name of the province. Enter the geographic code of the province in the boxes found opposite the name of the province.

Landing Center (lc_code)

File: QMFS

Overview

Type: Discrete
 Format: numeric

Valid cases: 0
 Invalid: 32

Description

Landing center is the place where fish catch and other aquatic products are unloaded and traded by fishermen.

Landing Center (lc_code)

File: QMFS

Literal question

name of landing center

Interviewer instructions

Write the name of the fish landing center in the space provided for.

Landing Center Stratum (st)

File: QMFS

Overview

Type: Discrete
 Format: numeric
 Range: 1-1

Valid cases: 0
 Invalid: 32

Description

Stratum of the sample landing center

Total LC in a stratum (bigLC)

File: QMFS

Overview

Type: Discrete
 Format: numeric
 Range: 1-1

Valid cases: 0
 Invalid: 32

Description

total number of landing centers in a stratum

Sample LC in a stratum (smlLC)

File: QMFS

Overview

Type: Discrete
 Format: numeric
 Range: 1-1

Valid cases: 0
 Invalid: 32

Description

Number of sample landing centers in a stratum

Species Code (spec_code)

File: QMFS

Overview

Type: Continuous
 Format: numeric
 Range: 43304-45701

Valid cases: 0
 Invalid: 32

Month Code (monthcode)

File: QMFS

Month Code (monthcode)

File: QMFS

Overview

Type: Discrete
Format: numeric
Range: 1-3

Valid cases: 0
Invalid: 32

Respondent Code (respcode)

File: QMFS

Overview

Type: Discrete
Format: numeric
Range: 1-5

Valid cases: 0
Invalid: 32

Volume of Production (volume)

File: QMFS

Overview

Type: Continuous
Format: numeric
Range: 0-99999.99

Valid cases: 0
Invalid: 32

Description

The total quantity in kilograms of species unloaded at the entire landing center for the three months of the reference quarter.

Literal question

Actual volume of fish unloadings at the fish landing center by species during the first month of the reference quarter by the first respondent.

Interviewer instructions

Indicate the months within the reference quarter.

Report volume of unloadings by species in kilograms.

Report reasons for any change in volume of unloadings.

Do not compute for the total volume of fish unloadings at the fish landing center for the quarter. These are derived in the processing system.

Price per kilogram (price)

File: QMFS

Overview

Type: Continuous
Format: numeric
Range: 0-99999.99

Valid cases: 0
Invalid: 32

Description

The average price in pesos per kilogram of species unloaded at the entire landing center during the reference quarter.

Literal question

Actual volume of fish unloadings at the fish landing center by species during the second month of the reference quarter by the first respondent.

Interviewer instructions

Price per kilogram (price)

File: QMFS

Indicate the months within the reference quarter.

Report volume of unloadings by species in kilograms.

Report reasons for any change in volume of unloadings.

Do not compute for the total volume of fish unloadings at the fish landing center for the quarter. These are derived in the processing system.

Documentation

Questionnaires

Quarterly Municipal Fisheries Survey (Traditional Landing Centers) Form, 2015

Title	Quarterly Municipal Fisheries Survey (Traditional Landing Centers) Form, 2015
subtitle	QMFS Form 1
Author(s)	Philippine Statistics Authority
Date	2015-02-09
Country	Philippines
Language	English
Publisher(s)	Philippine Statistics Authority
	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.
Description	<p>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.</p> <p>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 format of questionnaire is used every quarter.</p>
Filename	QMFSForm 1.pdf

Quarterly Municipal Fisheries Survey (PFDA and LGU-Managed Landing Centers) Form, 2015

Title	Quarterly Municipal Fisheries Survey (PFDA and LGU-Managed Landing Centers) Form, 2015
subtitle	QMFS Form 2
Author(s)	Philippine Statistics Authority
Date	2015-02-02
Country	Philippines
Language	English
Publisher(s)	Philippine Statistics Authority
Filename	QMFSForm 2.pdf

Reports

Fisheries Situationer, 2015

Title	Fisheries Situationer, 2015
Author(s)	Philippine Statistics Authority
Date	2015-06-11
Country	Philippines
Language	English
Publisher(s)	Philippine Statistics Authority

Description This resource contains the Fisheries Situationer for January to March 2015.

Filename FSR_janmar2015.pdf

Technical documents

Manual of Instructions on How to Accomplish Quarterly Municipal Fisheries Survey

Title Manual of Instructions on How to Accomplish Quarterly Municipal Fisheries Survey

Author(s) Philippine Statistics Authority

Date 2015-03-24

Country Philippines

Language English

Publisher(s) Philippine Statistics Authority

Description This resource contains the Manual of Instruction for the Quarterly Municipal Fisheries Survey.

Filename QMFS Manops 15.pdf
