

Philippines - Quarterly Municipal Fisheries Survey (Traditional Landing Centers), 2009

Bureau of Agricultural Statistics (BAS)

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Overview

Identification

ID NUMBER

PHL-BAS-QMFS-2009-v1.0

Version

VERSION DESCRIPTION

Version 1.0 - Edited at the province level, not anonymized, for internal use

PRODUCTION DATE

2010-05-07

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 three (3) 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, Contractual Data Collectors (CDCs) 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 CDCs, quarterly surveys are conducted by the regular staff in the Provincial Operations Centers (POCs).

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
fisheries		

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
Bureau of Agricultural Statistics (BAS)	Department of Agriculture (DA)

OTHER PRODUCER(S)

Name	Affiliation	Role

FUNDING

Name	Abbreviation	Role
Bureau of Fisheries and Aquatic Resources	BFAR	donor

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
National Statistical Coordination Board (NSCB)		Survey Clearance

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
De Ocampo, Estela C.	E C O	Bureau of Agricultural Statistics	Documenter
Adriano, Reinelda P.	R P A	Bureau of Agricultural Statistics	Documenter

DATE OF METADATA PRODUCTION
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DDI DOCUMENT VERSION
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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 or the major landing centers

Stratum 2 - consists of the minor 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.

Allocation of number of sample fish landing centers is based on the distribution of volume of unloadings in the province.

Number of samples by stratum in 2009 was as follows:

Stratum 1 - 232

Stratum 2 - 183

Stratum 3 - 127

The total number of sample municipal fish landing centers in 2009 was 542. The number of samples is highly dependent on the funds available for the conduct of the survey.

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
2009-03-20	2009-03-31	First Quarter
2009-06-20	2009-06-30	Second Quarter
2009-09-20	2009-09-30	Third Quarter
2009-12-15	2009-12-20	Fourth Quarter

Time Periods

Start	End	Cycle
2009-01-01		First Quarter
2009-04-01		Second Quarter
2009-07-01		Third Quarter
2009-10-01		Fourth Quarter

Data Collection Mode

Face-to-face [f2f]/focus group

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 CDCs are hired to conduct the survey. In place of CDCs, the POC staff conduct the interview of at least three (3) 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.

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Data Collectors

Name	Abbreviation	Affiliation
Bureau of Agricultural Statistics	BAS	Department of Agriculture

Supervision

The Regional Agricultural Statistics Officer (RASO) is responsible for the regional level monitoring and supervision of the survey operations of the Provincial Operations Centers.

The Provincial Agricultural Statistical Officer (PASO) is the over-all supervisor in the province. As field supervisor, the PASO should ensure accuracy of data collection, completeness of the accomplished survey forms. As part of the PASO's tasks is the conduct of spot-checking and back-checking on the work of POC 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

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.