

# Philippines - Quarterly Commercial Fisheries Survey (Traditional Landing Centers) 2009

**Bureau of Agricultural Statistics (BAS)**

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## Overview

### Identification

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#### ID NUMBER

PHL-BAS-QCFS-2009-v1.0

### Version

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#### VERSION DESCRIPTION

Version 1 - Edited at the province level, not anonymized, for internal use

#### PRODUCTION DATE

2010-05-07

### Overview

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#### ABSTRACT

Commercial fisheries is one of the three (3) sectors of fisheries, the others being Municipal fisheries and Aquaculture.

Data on commercial fisheries are collected in fish landing centers where fishermen unload and trade their catch. There are three (3) types of commercial fish landing centers, namely: the traditional, those managed by Philippine Fish Development Authority (PFDA) and Local Government Units (LGUs) and those privately-owned landing centers.

The two types of survey conducted in traditional commercial 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.

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

Data on 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.

#### KIND OF DATA

Sample survey data [ssd]

#### UNITS OF ANALYSIS

Commercial fish landing center

### Scope

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#### NOTES

The scope of the Quarterly Commercial 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 commercial fish landing centers

## Producers and Sponsors

## PRIMARY INVESTIGATOR(S)

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

## FUNDING

Name	Abbreviation	Role
Bureau of Fisheries and Aquatic Resources	BFAR	Donor

## OTHER ACKNOWLEDGEMENTS

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

## Metadata Production

## METADATA PRODUCED BY

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## Sampling

### Sampling Procedure

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The sampling frame used for Quarterly Commercial Fisheries Survey of traditional landing centers is the list of landing centers by province.

The quarterly survey in traditional landing centers uses stratified random sampling with the province as the domain. The volume of unloadings is the variable used in the stratification of the fish landing centers into three (3) groups, namely;

Stratum 1 - the top producing fish landing centers  
 Stratum 2 - the major producing fish landing centers  
 Stratum 3 - all other fish landing centers

The total number of traditional commercial fish landing centers in 2009 was 381. Simple random sampling is used in drawing the sample landing centers from the stratum.

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 was as follows:

Stratum 1 - 100 out of 117  
 Stratum 2 - 73 out of 160  
 Stratum 3 - 27 out of 104

Replacement of sample landing center is allowed for landing centers with unstable peace and order situation and for hard or difficult to reach areas.

### Response Rate

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Response rate for quarterly commercial fisheries survey is 100%.

### Weighting

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A factor derived from the total number of sample fish landing centers over the number of 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

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QCFS Form 1 is a one-page questionnaire in 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 were indicated in the questionnaire. Thirty-one major species were pre-listed with provisions for other species not mentioned in the list. These other or minor species were also included in data processing. However, only the 31 or major species were 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]

### Data Collection Notes

The Quarterly Commercial Fisheries Survey (QCFS) is one of the regular surveys of the Fisheries Statistics Division. This quarterly survey entails less cost in operation compared to 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, a data collector takes 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 is needed to get the desired information. The interview is 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 volume and price of fish unloaded in the landing center.

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### Data Collectors

Name	Abbreviation	Affiliation
Bureau of Agricultural Statistics	BAS	Department of Agriculture

## Supervision

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

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 in this survey.



## Data Processing

### Data Editing

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Manual editing of questionnaires at the provincial level was 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 the output generation of the quarterly survey results, the Commercial Fisheries Data Generation System (Datagen) has been developed. These are MS Excel 2003 worksheets linked together to achieve the purpose of fast generation of output tables. Entries from the collection forms are encoded in landing center worksheets of ComDataGen of the Provincial Data Generation Worksheets. These are compiled and summarized at the Regional Data Generation Worksheets.

## Data Appraisal

### **Other forms of Data Appraisal**

The quarterly survey of commercial fish catch was done through interviews of key informants and results of this process were subjected to validation.

Additional information were 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. Change in production is assessed if it reflects the real commercial fisheries situation in the province.