

# Philippines - Monthly Commercial Fisheries Survey 2009

**Bureau of Agricultural Statistics**

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## Overview

### Identification

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#### ID NUMBER

PHL\_2009\_MCFS\_v01\_EN\_M\_v01\_A\_OCS

### Overview

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#### ABSTRACT

Commercial fishing is defined as the catching of fish with the use of fishing boats with a capacity of more than three (3) gross tons for trade, business or profit beyond subsistence or sport fishing. The Monthly Commercial Fisheries Survey is a statistical inquiry on commercial fishing that is conducted on an every-other-day frequency. Contractual Data Collectors (CDCs) are hired to conduct the survey of fishing boats unloading at the sample fish landing center. Data are gathered through actual interviews of respondents during peak unloading time using a structured questionnaire prepared at the Central Office of BAS. The target respondents are the fisherman, fishing boat operator, captain or any knowledgeable crew of the fishing boat.

The general objective of the activity is to generate information on the monthly volume of fish catch by fishing ground, tonnage class, fishing gear and species at the provincial, regional and national levels of disaggregation. Collection of commercial fisheries data is a probability survey done in places called fish landing centers where fishing boats of more than three (3) gross tonnage unload and trade their catch. Monthly commercial fisheries survey differs from quarterly commercial fisheries survey in terms of number of variables covered by the survey. Also, actual observations of fish unloading's by data collectors are required in the monthly survey whereas in the quarterly survey, monthly volume of fish unloading's for the reference quarter are gathered through recall of key informants.

There are three (3) types of landing centers, the traditional, those managed by the Philippine Fisheries Development Authority (PFDA) and Local Government Units (LGUs), and those owned by private individuals or corporations.

#### KIND OF DATA

Sample survey data [ssd]

#### UNITS OF ANALYSIS

Enterprises

## Scope

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#### NOTES

The Monthly Commercial Fisheries Survey has the following scope as presented in the questionnaire:

1. General information: region, province, date of data collection (month, day, year).
2. Landing center: complete name, stratum classification, unloading time.
3. Boat information: boat number; name of fishing boat; type of boat; if carrier, name of catcher boat/s served; tonnage class; type of fishing gear used.
4. Fishing effort: number of crew, number of days for searching fish, total number of hauls (for net gears only).
5. Fishing unloading information: name of fishing ground, species and code, quantity in local unit, name of local unit, weight of one local unit, price per local unit, raising factor, total unloadings
6. Summary of unloadings for the day by gear type.

#### TOPICS

Topic	Vocabulary	URI
Fisheries		

## Coverage

### GEOGRAPHIC COVERAGE

National Coverage.

### UNIVERSE

All commercial fishing boats unloading in traditional fish landing centers.

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
Bureau of Agricultural Statistics	Department of Agriculture

### FUNDING

Name	Abbreviation	Role
Bureau of Fisheries and Aquatic Resources	BFAR	Donor

## Metadata Production

### METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of the Chief Statistician	OCS	Food and Agriculture Organization	Metadata adapted for FAM
de Ocampo, Estela C.	ECO	Bureau of Agricultural Statistics	Documentation of the study
Adriano, Reinelda P.	RPA	Bureau of Agricultural Statistics	Documentation of the study
Evangelista, Maria Clarinda M.	MCME	Bureau of Agricultural Statistics	Documentation of the study

### DDI DOCUMENT VERSION

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### DDI DOCUMENT ID

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# Sampling

## Sampling Procedure

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The sampling frame used for survey of commercial fisheries is the list of traditional commercial fish landing centers by province. This survey utilizes a stratified random sampling with the province as the domain. The average volume of unloading's per day is the variable used in the stratification of the fish landing centers into three (3) strata, namely:

1. Stratum 1 - consists of the top producing landing center
2. Stratum 2 - consists of the major producing fish landing centers
3. Stratum 3 - consists of all other fish landing centers

The landing center serves as the primary sampling unit while the fishing boat serves as secondary sampling unit. Simple random sampling is used in drawing the sample landing centers from the stratum. The number of sample fish landing centers varies by province depending on the resources available for payment of wages of CDCs. Sample landing centers are the same throughout the year.

For 2009, funds allocated for the conduct of this activity allowed only to cover 21 provinces for three (3) months survey, April, May and June. Number of samples by stratum was as follows:

1. Stratum 1 - 45 samples out of total 50
2. Stratum 2 -43 samples out of total 106
3. Stratum 3 - 20 samples out of total 89

For the remaining months of the year, quarterly surveys were carried out in those sampled provinces. Quarterly surveys in non-sample provinces were conducted throughout the year.

Data collectors also do sampling on fishing boats that unload catch at the sample fish landing center. In cases of heavy unloading, CDCs are instructed to do simple random sampling of boats. CDCs are reminded to have samples of every type of fishing gear used by the fishermen during the survey date and to have as many samples as he/she can. But if the number of unloading boats is 15 or less, a complete enumeration of boats shall be done.

## Response Rate

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Response rate for the Monthly Commercial Fisheries Survey is 100%.

## Weighting

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A raising factor derived from the total number of commercial fish landing centers over the number of samples by stratum is used to expand results of monthly surveys. This raising factor varies from one province to another.

## Questionnaires

No content available

## Data Collection

### Data Collection Dates

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<b>Start</b>	<b>End</b>	<b>Cycle</b>
2009-04-01	2009-04-30	April round
2009-05-01	2009-05-31	May round
2009-06-01	2009-06-30	June round

### Data Collection Mode

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Face-to-face paper [f2f]

## Data Processing

### Data Editing

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Data editing and data review processes start at the POCs. Inputs for the review include the survey returns, the summary sheets, the list of samples and expansion factors used. First to check is the completeness of the questionnaires as to the number of samples. Missing data and unacceptable responses are reviewed. Correctness of units of measurement used for volume and price are also checked. Out of range prices are verified. Manual editing is done not only for completeness of desired information like volume and price by species but also for consistency of entries. Codes used for species, gears and fishing grounds are likewise checked.

After all the data from the questionnaires are reviewed, verified, cleaned and checked, these are encoded using the Commercial Fisheries Survey data processing worksheet of MCFS.XLS. Monthly output tables generated from the electronic data processing are inputted to the Commercial Data Generation System. This system facilitates data processing, summarization and generation of provincial and regional volume and value of commercial fish production by species.

## Data Appraisal

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

Provincial and regional estimates of production are further validated through the use of auxiliary information and conduct of interviews of knowledgeable people in the fishing industry. Impact of different programs and policies implemented by the BFAR on the performance of catch of fishermen is also considered. Use of time series data by province and by species for catch comparison is also one way of appraising survey results.