

Philippines - Monthly Municipal Fisheries Survey 2009

Bureau of Agricultural Statistics (BAS)

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Overview

Identification

ID NUMBER

PHL_2009_MMFS_v01_EN_M_v01_A_OCS

Overview

ABSTRACT

The Monthly Municipal Fisheries Survey is a statistical inquiry on municipal 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 the BAS. The target respondents are the fisherman, fishing boat operators, and 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, by fishing gear and by species at the provincial, regional and national levels. Collection of municipal fisheries data is a probability survey done in places called fish landing centers where fishing boats of three (3) gross tons and less unload and trade their catch. There are two (2) types of municipal fish landing centers, the traditional and those managed by the Philippine Fisheries Development Authority (PFDA) and local government units (LGUs).

Monthly Municipal Fisheries Survey differs from quarterly survey in terms of number of variables gathered during the survey. Major objective of both surveys is to generate volume and value of fish catch by species by province.

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS

Enterprises

Scope

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 municipal fishing boats unloading in traditional 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

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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Sampling

Sampling Procedure

The list of traditional municipal fish landing centers by province is the sampling frame used for the monthly survey of municipal fisheries. This survey utilizes a stratified random sampling with the province as the domain. The average volume of unloading 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 or major fish landing centers
2. Stratum 2 - consists of the minor 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.

For 2009, funds allocated for the conduct of this activity allowed to cover samples of 40 provinces only for three (3) months survey: April, May and June. Total number of sample landing centers was 294. Breakdown of number of samples by stratum was as follows:

1. Stratum 1 - 155 samples out of total 220
2. Stratum 2 - 88 samples out of total 1584
3. Stratum 3 - 51 samples out of total 4667

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.

CDCs are instructed to do simple random sampling of boats unloading at the fish landing center. 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

Response rate for monthly municipal fisheries survey is 100%.

Weighting

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

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
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

Face-to-face paper [f2f]

Data Processing

Data Editing

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. Prior to encoding, manual editing of accomplished questionnaires is done for completeness and consistency of entries. Codes used for species, gears and fishing grounds are validated. Correctness of units of measurement used for volume and price are checked.

Total number of boats and number of sample boats and correspondingly the number of landing centers and number of collection days are likewise checked as these are used in the estimation.

The first thing 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 Municipal Fisheries Survey data processing worksheet of MMFS.XLS. Monthly output tables generated from the electronic data processing are inputted to a Municipal Data Generation System. This system facilitates data processing, summarization and generation of provincial and regional volume and value of municipal 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 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. Computed change in production is reviewed for acceptability.