

Philippines - Aquaculture Production Survey 2009

Bureau of Agricultural Statistics (BAS)

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Overview

Identification

ID NUMBER
PHL-BAS-AqPS-2009-v2.0

Version

VERSION DESCRIPTION
v2.0: edited at Central Office, not anonymized

PRODUCTION DATE
2010-03-24

Overview

ABSTRACT
RATIONALE

In carrying out its responsibility of generating statistics on volume and value of aquaculture production, the Fisheries Statistics Division (FSD) of the Bureau of Agricultural Statistics (BAS) conducts probability and non-probability surveys. The Quarterly Aquaculture Surveys (QAqS) is the non-probability survey conducted on a regular basis. The survey design involves computing for the average percent change from the same quarter last year reported by the sample respondents and then applying the same to the provincial level same quarter last year estimate in order to derive the estimate for the current quarter. The samples are taken from 5 X 5 sampling design, i.e., five (5) sample operators from top five (5) producing municipalities. On the other hand, Aquaculture Production Survey (AqPS) generates the production estimates based on one-stage stratified sampling design. Unfortunately, this probability survey is not financially sustainable on a quarterly basis. It should be noted that estimates from the probability survey are intended as baseline data for computing the percent changes derived from non-probability survey. Although quarterly estimates are subjected to a series of data review and analysis before final estimates are released, it is imperative to determine the levels of production estimates through a periodic probability survey.

OBJECTIVES

Primarily, the Aquaculture Production Survey (AqPS) aims to generate statistics on volume and value of aquaculture production by province.

Specifically, it aims to gather information on:

- a. Volume and value of production by species cultured, by aquafarm type and by environment,
- b. area harvested; and
- c. management and culture system of the aquafarm.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Aquafarm is the unit of analysis.

Scope

NOTES

The survey form gathers information on the following:

AQUAFARM INFORMATION: Aquafarm area, aquafarm type, environment, management system and culture system

PRODUCTION INFORMATION: Species, quantity stocked, area harvested, production and price.

Coverage

GEOGRAPHIC COVERAGE

In 2009, AqPS was conducted in 40 provinces contributing to at least 90% of the total production of each aquafarm type.

GEOGRAPHIC UNIT

The domain of the study is province.

UNIVERSE

The survey covered all aquafarm types.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

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

FUNDING

Name	Abbreviation	Role
Bureau of Fisheries and Aquatic Resources	BFAR	Provides funds for the conduct of fisheries surveys

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
National Statistical Coordination Board (NSCB)		Provides survey clearance

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Reinelda P. Adriano	RPA	Bureau of Agricultural Statistics	Documentation of the study

DATE OF METADATA PRODUCTION

2010-03-24

DDI DOCUMENT VERSION

Version 1.0

DDI DOCUMENT ID

DDI-PHL-BAS-AqPS-v1.0

Sampling

Sampling Procedure

The AqPS adopts one-stage stratified sampling design. By aquafarm type, all operators from municipalities with at least 80% cumulative share to total aquafarm area are stratified into three (3) strata using area as the stratification variable. The boundary between strata is determined by the distribution of data. If the number of aquafarms in a stratum is less than or equal to fifteen (15), all aquafarms shall be taken as sample. Sample aquafarms shall be selected through systematic random sampling procedure.

Deviations from Sample Design

A slight modification in the sampling design was employed. For this survey round, sample aquafarms were selected only from the municipalities with at least 80% cumulative share to provincial area. This was done to simplify field operations and ensure that sample aquafarms from these municipalities were more or less productive.

Response Rate

Response rate is not available.

Weighting

Aquafarm weights were computed as the quotient of total number of aquafarms and number of sample aquafarms in the stratum.

Questionnaires

Overview

There were two (2) AqPS survey forms that were used depending on the type of aquafarm.

AqPS Form 1 - for all aquafarm type except Oyster, Mussel and Seaweed

AqPS Form 2 - for Oyster, Mussel and Seaweed.

The datasets for both forms were the same except for the following:

In Block II, management system was not applicable for Form 2. There were different culture systems.

In Block III, quantity stocked was not applicable for Form 2. Seaweed production information was by variety.

All survey forms are provided as external resources.

Data Collection

Data Collection Dates

Start	End	Cycle
2009-11-30	2009-12-11	4th Quarter

Time Periods

Start	End	Cycle
2009-10-01		4th Quarter

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

The Contractual Data Collectors (CDCs) were hired to conduct the interview of the owner/operator and/or caretaker of the sample aquafarms using the survey forms. Prior to data collection the CDCs were trained and supervised by the Provincial Agricultural Statistics Officer (PASO). They were given assigned municipalities to cover. BAS field staff were assigned to supervise the CDCs.

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Data Collectors

Name	Abbreviation	Affiliation
Bureau of Agricultural Statistics	BAS	Department of Agriculture

Supervision

The Provincial Agricultural Statistics Officer (PASO) provides the over-all supervision of data collection. He trains data collectors, assigns area of coverage and schedules the data collection. To ensure the smooth implementation of data collection, the PASO conducts spot checking and back checking activities. The Regional Agricultural Statistics Officer (RASO) may also provide another level of supervision. And sometimes, Central Office personnel may be available to provide support and control of the said activities.

Data Processing

Data Editing

Initially, the survey returns are manually edited to ensure completeness and accuracy. During this stage, survey returns are checked for completeness from the list of samples. For each of the survey forms, entries should be complete and numeric entries are in proper unit of measurement and decimal places.

After encoding, the entries are then again inspected and reviewed for completeness, accuracy and consistency with other items.

Other Processing

The AqPS Data Processing Worksheet was developed using MS Excel 2003 to process the AqPS survey returns. The results were then encoded the Aquaculture Data Generation System (AquaDataGen). The AquaDataGen was developed for the data processing requirements of Quarterly Aquaculture Survey (QAqS). This system is decentralized in the provinces but regional and national summary can also be derived. The AquaDataGen has the facility for data entry, data review and validation.

Data Appraisal

Estimates of Sampling Error

Not available.