

# Philippines - Quarterly Aquaculture Survey 2015

**Philippine Statistics Authority (PSA) - National Economic and Development  
Authority (NEDA)**

Report generated on: June 28, 2017

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## Overview

### Identification

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ID NUMBER  
PHL-PSA-QAqS-2015-V2

### Version

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VERSION DESCRIPTION  
V2: edited at Central Office, not anonymized

PRODUCTION DATE  
2016-12

### Overview

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ABSTRACT  
RATIONALE

The Quarterly Aquaculture Survey (QAqS) is a quarterly survey that generates aquaculture production and area estimates. It asks for the actual level of production, area harvested and price for each species during the reference quarter of the current and previous year from the sample operators in the top producing municipalities. Fisheries outputs form part of the estimation for the performance of agriculture and eventually, of the National Accounts for the generation GVA, GNP and GDP.

OBJECTIVES

The Quarterly Aquaculture Surveys (QAqS) aims to generate accurate and timely information on quarterly production, area and price by aquafarm type and species at the provincial level.

KIND OF DATA  
Sample survey data [ssd]

UNITS OF ANALYSIS  
An aquaculture production survey with aquafarm as the unit of analysis.

### Scope

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NOTES  
The data items in the survey forms are production, area harvested and price by species of each aquafarm type. The information are asked during the current quarter and the same quarter of the previous year.

TOPICS

Topic	Vocabulary	URI
economic statistics/sectoral/fishery	fishery	

### Coverage

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GEOGRAPHIC COVERAGE  
The survey is conducted in 82 provinces nationwide.

## UNIVERSE

It covers aquaculture operations in 82 provinces of 17 aquaculture species in 13 aquafarm types/environments. the following are the aquafarm types and environments covered, however, it depends on which is available in the province:

- a. Brackishwater and freshwater fishpond
- b. Brackishwater, freshwater and marine pen and cage
- c. Oyster, mussel and seaweed
- d. Other freshwater aquafarms like rice fish, SFR, etc.

## Producers and Sponsors

## PRIMARY INVESTIGATOR(S)

Name	Affiliation
Philippine Statistics Authority (PSA)	National Economic and Development Authority (NEDA)

## FUNDING

Name	Abbreviation	Role
Government of the Philippines	GOP	Full funding

## Metadata Production

## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
FISHERIES STATISTICS DIVISION	FSD	Philippine Statistics Authority	DOCUMENTER

## DATE OF METADATA PRODUCTION

2017-06-19

## DDI DOCUMENT VERSION

version 1

## DDI DOCUMENT ID

DDI-PHL-PSA-QAqS-2015-V2

## Sampling

### **Sampling Procedure**

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The Quarterly Aquaculture Survey (QAqS) is a non-probability survey. Sampling was done by aquafarm type in the province.

By aquafarm type, top producing municipalities are those with cumulative share of at least 80% to total area based on Aquaculture Farms Inventory (AqFI).

For each municipality, eight (8) sample aquafarms are selected if the number of aquafarms in the municipality is more than 25. If the number of aquafarms is less than 25, five (5) sample aquafarms are selected. A total of 6662 sample aquafarms were covered nationwide.

### **Response Rate**

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Response rate for quarterly aquaculture survey is 73%. This accounted for farms in operation and those without harvest during the reference period.

### **Weighting**

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QAqS is a non-probability survey. As such, no weighing procedure is applied.

# Questionnaires

## Overview

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There were five (5) QAqS survey forms that were being used depending on the type of aquafarm. The data sets were the same for all the forms except for the section on species cultured applicable to the type of aquafarm.

- QAqS Form 1 - Fishpond
- QAqS Form 2 - Pen and Cage
- QAqS Form 3 - Oyster, Mussel and Seaweed
- QAqS Form 4 - Hatchery
- QAqS Form 5 - Other Freshwater Farms

All survey forms are provided as external resources

## Data Collection

### Data Collection Dates

Start	End	Cycle
2015-03-16	2015-03-20	Quarter 1
2015-06-15	2015-06-19	Quarter 2
2015-09-14	2015-09-18	Quarter 3
2015-11-23	2015-11-27	Quarter 4

### Time Periods

Start	End	Cycle
2015-01-01		Quarter 1
2015-04-01		Quarter 2
2015-07-01		Quarter 3
2015-10-01		Quarter 4

### Data Collection Mode

Face-to-face [f2f]

### Data Collection Notes

The regular staff of the PSA Provincial Statistics Office (PSO) or the Statistical Researchers hired conduct the interviews of the owner/operator and/or caretaker of the sample aquafarms using the survey forms. They also inquire from key informants about the production of most of the operators in the municipality and conditions affecting production. Key informants may be Municipal Agricultural Officer (MAO), barangay official, official/member of aquafarm operators' organization and other knowledgeable persons regarding aquafarm operation.

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### Data Collectors

Name	Abbreviation	Affiliation
Philippine Statistics Authority	PSA	

### Supervision

The Provincial Statistics Officer (PSO) 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 PSO

conducts spot-checking and back checking activities. The Statistical Operations and Coordination Division (SOCD) Chief 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

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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

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The Aquaculture Data Generation System (AquaDataGen) was developed using MS Excel 2013 for the data processing requirements of 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 computed"

## File Description

# Variable List

## QAqS

Content	The file contains production, area and price during the current quarter and the same quarter last year. Records are categorized by aquafarm type and species while the respondents were identified by municipality and respondent code
Cases	0
Variable(s)	14
Structure	Type: Keys: ()
Version	
Producer	Philippine Statistics Authority (PSA)
Missing Data	

## Variables

ID	Name	Label	Type	Format	Question
V1	year	year	discrete	numeric	
V2	qtr	quarter	discrete	numeric	
V3	reg	region	discrete	numeric	
V4	prov	province	discrete	numeric	
V5	atype	aquafarm type	discrete	numeric	
V6	mun	municipality	discrete	numeric	Municipality
V7	resp	respondent	discrete	numeric	
V8	species	species	discrete	numeric	
V9	tqprod	this quarter production	contin	numeric	production this quarter
V10	tqarea	this quarter area	contin	numeric	area this quarter
V11	tqprice	this quarter price	contin	numeric	price this quarter
V12	sqlyprod	same quarter last year production	contin	numeric	production same quarter last year
V13	sqlyarea	same quarter last year area	contin	numeric	area same quarter last year
V14	sqlyprice	same quarter last year price	contin	numeric	price same quarter last year



year (year)

File: QAqS

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 4  
 Range: 2015-2015

Valid cases: 0  
 Invalid: 0

**Description**

Reference year

quarter (qtr)

File: QAqS

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Range: 1-4

Valid cases: 0  
 Invalid: 0

**Description**

Reference quarter

region (reg)

File: QAqS

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Range: 1-17

Valid cases: 0  
 Invalid: 0

**Description**

Region covered

province (prov)

File: QAqS

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Range: 1-87

Valid cases: 0  
 Invalid: 0

**Description**

Province covered

aquafarm type (atype)

File: QAqS

**Overview**

## aquafarm type (atype)

File: QAqS

Type: Discrete  
Format: numeric  
Width: 2  
Range: 1-13

Valid cases: 0  
Invalid: 0

### Description

Aquafarm is the farming facilities used in the culture or propagation of aquatic species including fish, mollusk, crustaceans and aquatic plants for purposes of rearing to enhance production.

Aquafarm type includes the environment and type of the aquafarm.

The following are the aquafarm types:

Brackishwater fishpond  
Brackishwater fish pen  
Brackishwater fish cage  
Freshwater fishpond  
Freshwater fish pen  
Freshwater fish cage  
Marine fish pen  
Marine fish cage  
Oyster  
Mussel  
Seaweed  
Rice fish  
Small farm reservoir (SFR)

## municipality (mun)

File: QAqS

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Range: 1-17

Valid cases: 0  
Invalid: 0

### Description

sample municipality

### Literal question

Municipality

### Interviewer instructions

Sample municipalities  
code 1 -  
code 3 -  
code 6 -  
code 8 -  
code 17 -

## respondent (resp)

File: QAqS

### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Range: 1-8

Valid cases: 0  
Invalid: 0

### Description

Sample respondent

## species (species)

File: QAqS

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Range: 1-18

Valid cases: 0  
 Invalid: 0

**Description**

Species

## this quarter production (tqprod)

File: QAqS

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 5  
 Range: 10-12700

Valid cases: 0  
 Invalid: 0

**Description**

This quarter (TQ) production

**Literal question**

production this quarter

## this quarter area (tqarea)

File: QAqS

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 5  
 Range: 0.005-15

Valid cases: 0  
 Invalid: 0

**Description**

This quarter (TQ) area

**Literal question**

area this quarter

## this quarter price (tqprice)

File: QAqS

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 3  
 Range: 45-330

Valid cases: 0  
 Invalid: 0

**Description**

This quarter (TQ) price

**Literal question**

price this quarter



## same quarter last year production (sqlyprod)

File: QAqS

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 5  
 Range: 7-12400

Valid cases: 0  
 Invalid: 0

**Description**

Same quarter last year (SQLY) production

**Literal question**

production same quarter last year

## same quarter last year area (sqlyarea)

File: QAqS

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 5  
 Range: 0.005-15

Valid cases: 0  
 Invalid: 0

**Description**

Same quarter last year (SQLY) area

**Literal question**

area same quarter last year

## same quarter last year price (sqlyprice)

File: QAqS

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 3  
 Range: 40-325

Valid cases: 0  
 Invalid: 0

**Description**

Same quarter last year (SQLY) price

**Literal question**

price same quarter last year

# Documentation

## Questionnaires

### Quarterly Aquaculture Survey - Fishpond

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Title Quarterly Aquaculture Survey - Fishpond  
 subtitle QAqS Form 1  
 Author(s) Fisheries Statistics Division  
 Date 2015-03-01  
 Country Philippines  
 Language English  
 Publisher(s) Philippine Statistics Authority  
 Description QAqS Form 1 is for brackishwater or freshwater fishpond production  
 Filename QASFormsMar15BF.pdf

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## Reports

### Fisheries Situationer, January - March 2015

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Title Fisheries Situationer, January - March 2015  
 Author(s) Fisheries Statistics Division  
 Date 2015-03-01  
 Country Philippines  
 Language English  
 Publisher(s) Philippine Statistics Authority  
 Description Fish Production Situation of the three fisheries subsectors for January-March 2015  
 Filename FSR\_janmar2015.pdf

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## Technical documents

### Manual of Operations Quarterly Aquaculture Survey

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Title Manual of Operations Quarterly Aquaculture Survey  
 Author(s) Fisheries Statistics Division  
 Date 2015-03-01  
 Country Philippines  
 Language English  
 Publisher(s) Philippine Statistics Authority  
 Description Procedures in Survey Operations and Guidelines in Filling Up of Questionnaires/Forms  
 Filename QAqSManualOfOperationsMar15.pdf

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