MANUAL OF OPERATIONS

QUARTERLY COMMERCIAL FISHERIES SURVEY

Republic of the Philippines
PHILIPPINE STATISTICS AUTHORITY
Quezon City

FOREWORD

The Quarterly Commercial Fisheries Survey (QCFS) is one of the activities of the Philippine Statistics Authority (PSA) conducted every quarter. This activity generates estimates of volume and value of production for commercial fisheries by species at the provincial, regional and national levels.

The outputs form part of the estimation for the performance of agriculture and eventually, of the National Accounts for the generation of GVA, GNP and GDP. The data sets generated out of this activity serve as basis for researches and policy formulation.

Results of the survey are disseminated mainly in the PSA CountryStat website through regular publications on Fisheries Situation Report (quarterly), Fisheries Statistics of the Philippines (annually) and Selected Statistics on Agriculture (annually).

This Manual of Operations will serve as guide and reference for the Statistical Researchers and Field Supervisors in the conduct of the survey.

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THE QUARTERLY COMMERCIAL FISHERIES SURVEYS

A. INTRODUCTION

1. The Quarterly Commercial Fisheries Surveys (Traditional Landing Centers)

The Quarterly Commercial Fisheries Surveys (Traditional Landing Centers) is a quarterly survey on the volume of fish unloadings and the price of fish by species. This is conducted as alternative to an every other day survey, which may not be regularly conducted due to insufficient funding. The Provincial Statistical Office (PSO) staff assigned to conduct the survey visits the sample landing center and gathers data on a quarterly basis, but the information that us collected is about monthly fish unloadings.

2. The Quarterly Commercial Fisheries Surveys (Philippine Fisheries Development Authority (PFDA), Local Government Unit (LGU) and Privately-Managed Landing Centers)

Another activity being done is the gathering of data from the records of PFDA, LGU and privately managed landing centers. This is also done by the Provincial Statistical Office (PSO) staff on a quarterly basis, but information being colleted is each of the three (3) months included in the reference quarter..

B. OBJECTIVES

The general objective of the surveys is to generate information on the monthly volume and value of fish unloadings by species at the provincial, regional and national levels.

The specific objectives are to:

a.   generate statistics on quantity of fish unloading by species by month;
b.   price per kilogram of fish unloadings by species by month; and
c.   determine reasons for high or low volume of fish unloading.

C. METHODOLOGY

1. Sampling Frame

The sampling frames used for the Quarterly Commercial Fisheries Surveys are:

a. list of traditional landing centers by province updated from 2000 to 2010

b. list of PFDA, LGU and Privately-managed landing centers from 2000 to 2010

The frames cover all regions of the Philippines except the Cordillera Administrative Region (CAR) but includes the National Capital Region (NCR).

2. Sampling Design

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 center in the province;
Stratum 2 – the major producing fish landing centers; and,
Stratum 3 – all the other fish landing centers.

The Quarterly Commercial Fisheries Survey in PFDA, LGU and Privately managed landing centers is complete enumeration.

3. Sample size

For year 2016, there are 58 provinces with commercial fishing operations. The target sample size is 188 traditional landing centers proportionately distributed in the 58 provinces nationwide.

All PFDA, LGU and privately managed landing centers are completely covered.

4. Estimation Procedure

Estimate of fish unloadings in the province is obtained from:

a. the estimate from the quarterly survey in the traditional landing centers

$$\hat{Y}_{pt} = \sum_{i=1}^{3} \frac{N}{n} \sum_{n=1}^{n} \sum_{k=1}^{5} \frac{Yijk}{5}$$

Where:

$\hat{Y}_{pt}$ = estimate of the volume of fish unloadings in the province from traditional *landing* centers

N = total number of landing centers in the ith stratum

n = number of sample landing centers in the ith stratum

$Yijk$ = volume of fish unloaded of the kth respondent in the jth landing center in the ith stratum for the quarter.

b. data gathered from PFDA, LGU and privately managed landing centers

$$\hat{Y}_{po} = \sum_{i=1}^{N} Yi$$

Where:

$\hat{Y}_{po}$ = estimate of the volume of fish unloadings in the province from other landing centers (i.e, PFDA, LGU and privately managed landing centers)

N = total number of other landing centers

Yi = volume of fish unloaded in the LGU, FDA or privately managed landing centers

Thus, the provincial estimate for the province is:

$$\hat{Y}_p = \hat{Y}_{pt} + \hat{Y}_{po}$$

Where:

$\hat{Y}_p$ = estimate of total volume of unloadings in the province during the reference quarter

$\hat{Y}_{pt}$ = estimate of the volume of fish unloadings in the province from the traditional landing centers during the reference quarter.

$\hat{Y}_{po}$ = estimate of the volume of fish unloadings in the province from other

landing centers (i.e, PFDA, LGU and Privately managed landing centers) during the reference quarter.

D. GENERAL REMINDERS

1. Conduct the survey in the sample traditional fish landing center on a quarterly basis, but gather information for each of the three (3) months included on the reference quarter. Get data from all PFDA, LGU and privately managed landing centers.

2. At the landing center, find five (5) eligible respondents. Respondent could be a fisherman, trader or broker who knows the unloading activities in the sample landing center.

   Inquiries should be made on the total unloadings for the entire landing center including those outside the usual/identified unloading time.

3. Submit Quarterly Commercial Fisheries Survey Narrative Report

   a. General Situation

   Submit narrative report on the important factors or unusual phenomenon affecting the volume of unloadings in the landing center as well as the problems encountered during the field operation.

b. Marine Species Situation Report

Indicate the reasons for the increase or decrease of the volume and price of marine species during the quarter.

4. Submit all accomplished survey forms and summary sheets to the Fisheries Statistics Division (FSD) after data encoding in the data generation system.

E. INSTRUCTIONS ON HOW TO ACCOMPLISH QUARTERLY COMMERCIAL FISHERIES SURVEY FORM 1 (QCFS Form1)

QUARTERLY COMMERCIAL FISHERIES SURVEY FORM 1 (QCFS Form1) – (Traditional Landing Centers) is a one (1) page listing sheet type of form. Please see Attachment 1.

One (1) form is intended for one (1) respondent and covers three (3) months data.

_____Quarter 20 __.   Write the reference quarter.

The upper left block of the form asks for information common to all the landing/unloading boats in the landing center.

Region

Write the name of the region.

Province

Indicate the name of the province.

Landing Center

Write the complete name of the sample landing center.

Respondent Name

Write the complete name of the respondent

Type of Respondent

Enter the code of the type of respondent found at the left bottom part of the form.

Stratum or Landing Center Classification

Encircle code 1 if the sample landing center belongs to Stratum 1.
Encircle code 2 if the sample landing center belongs to Stratum 2.
Encircle code 3 if the sample landing center belongs to Stratum 3.

Column 1 - Species

This column lists all kinds of species. If species unloaded are assorted, allocate all fish catch unloaded among the dominant species.

Column 2 - 4 Actual volume of fish unloadings at the fish landing center

Enter under this column the quantity in kilograms of each species identified in   Column 1 by month.

Column 5 - Total

This is computed by the processing system

Columns 6-8 - Price per Kilogram

Enter under this column the price per kilogram of species reported by month.

Column 9 - Average

This is computed by the processing system

Others (Specify)

Specify other species unloaded at the landing center which are not identified in the list of 31 species.

Reasons for high or low volume of unloadings/Remarks:

Indicate reasons for decrease or increase of unloadings compared to last year of the same quarter and other relevant observations in the landing center during the visit.

FOR THE PROVINCIAL STATISTICAL OFFICE (PSO) STAFF:

PSO STAFF - Sign over printed name

DATE   -   Write the date of data collection.

FOR THE SUPERVISOR:

SUPERVISOR -   Sign over printed name

DATE   -   Write the date when the questionnaire was reviewed.

F. INSTRUCTIONS ON HOW TO ACCOMPLISH QUARTERLY COMMERCIAL FISHERIES SURVEY FORM 2 (QCFS Form2)

QUARTERLY COMMERCIAL FISHERIES SURVEY FORM 2 (QCFS Form2) – (PFDA, LGU and Privately-Managed Landing Centers) is a one (1) page listing sheet type of form. Please see Attachment 2.

One (1) form is intended for one (1) one landing center and covers one (1) month information.

Month: Quarter 20 __. This is the reference month,   write the month when the data is gathered.

The upper left block asks for information common to all the landing/unloading boats in the landing center.

1. Region

Write the name of the region.

2. Province

Indicate the name of the province.

3. Fish Port

Write the complete name of the fish port or landing center and check the appropriate classification whether PFDA, LGU-managed or Private.

4. Classification of Boat

Check the appropriate box as to the classification of the boat:

a. Philippine-flagged vessels
b. Foreign-flagged vessels
Indicate the name of fishing ground/s for each boat.

Fishing Ground/s – areas in any body of water where fish and other aquatic resources congregate and become target of capture

Column 1 - Species

This column lists all kinds of species. If species unloaded are assorted, allocate all fish catch unloaded among the dominant species.

Column 2 - 7 Fishing Gear

Indicate the name of fishing gear in the appropriate space and enter the actual volume of fish unloaded for each species identified in Column 1 by month.

Column 8 – Total (Kg)

Indicate the total volume of species in kilogram.

Column 9 - Price per Kilo

Enter under this column the price of species reported in kilogram.

Others (Specify)

Specify other species unloaded at the landing center which are not identified in the list of 31 species. Indicate the English name together with the local name.

Total

Indicate the total volume of unloadings by gear type.

Number of Boats by Gear

Indicate the total number of boats that unloaded in the landing center by gear type.

Note: Use additional sheet if necessary.

FOR THE PROVINCIAL STATISTICAL OFFICE (PSO) STAFF:

PSO STAFF - Sign over printed name

DATE   -   Write the date of data collection.

FOR THE SUPERVISOR:

      SUPERVISOR - Sign over printed name.

      DATE   - Write the date when the questionnaire was reviewed.

                  THANK YOU AND GOOD LUCK!