

Philippines - Costs and Returns Survey of Milkfish Production 2006

Bureau of Agricultural Statistics

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Overview

Identification

ID NUMBER

PHL_2006_CRSMP_v01_EN_M_v01_A_OCS

Overview

ABSTRACT

The profitability of producing milkfish is one of the primary concerns among planners and policy makers in setting up goals and strategies for the development of fisheries. Likewise, this is the concern of agribusiness players who are interested to venture in milkfish farming.

The survey aimed to generate updated data on the levels and structure of costs and returns of milkfish production. Specifically, it was conducted to determine the production cost structures; indicators of profitability such as gross and net returns; returns above cash costs; net profit - cost ratio, etc.; usage of materials and labor inputs; and other related socio-economic variables.

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS

Agricultural holdings

Scope

NOTES

The survey focused on generating costs and returns structure of milkfish production. The scope of the survey included the following:

- Characteristics of the farmers/operators such as age, sex, educational attainment, farming experience and main occupation.
- Farm characteristics include physical and harvested area of fishponds and tenurial status.
- Farm investments including data on inventory of farm investments used, year and cost of acquisition, repairs and improvement cost and estimated life and usage in the focus pond.
- Material inputs contain data on quantity and cost of planting materials, fertilizers, mulching materials, insecticides, herbicides/weedicides, fungicides and other chemicals.
- Labor inputs cover data on labor utilization (in terms of man days) and labor cost by type of farming activity, by source of labor and by sex and food cost incurred.
- Other production costs include data on cash and non-cash payments for land tax, land lease/rental, rental value of owned land, rentals of machine, animals and tools, fuel and oil, transport costs of inputs, irrigation fee, electricity, interest payment on crop loans, storage cost and other production costs.
- Production and disposition contain data on volume of milkfish production and its disposition in terms of sold, harvesters' share, threshers' share, other laborers' share, landowners' share, lease/rental, for home consumption, given away, used for seeds, wastage and other purposes.
- Buyer information contain data on the major buyer of milkfish.
- Problems encountered include problems affecting production and marketing of milkfish.
- Access to credit contains data on the percentage of operator who availed loans, and sources of loans.

- Other information include access to extension services, future plans of fishpond operators and their recommendations to improve milkfish industry.

Coverage

GEOGRAPHIC COVERAGE

National Coverage

UNIVERSE

The survey covered all milkfish ponds with harvests during the last completed production cycle in 2006 as the reference period.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Bureau of Agricultural Statistics	Department of Agriculture

FUNDING

Name	Abbreviation	Role
Department of Agriculture	DA	Funding Source

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
National Statistical Coordination Board		Survey clearance

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata adapted for FAM
Eduardo Sanguyo	EBS	Bureau of Agricultural Statistics (BAS)	Documenter of the study
Ana M. Eusebio	AME	Bureau of Agricultural Statistics (BAS)	Reviewer of the study
Maura S. Lizarondo	MSL	Bureau of Agricultural Statistics (BAS)	Reviewer of the study

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Sampling

Sampling Procedure

The survey covered fishpond operators in the top four (4) milkfish producing provinces in the country namely: Pangasinan, Bulacan, Iloilo and Capiz. The domain of the study was the province, with the last completed production cycle in 2006 as the reference period. The lists of milkfish producing barangays by province prepared by the concerned BAS Provincial Operations Centers (POCs) were used as the sampling frame for this study. The lists contained data on the area devoted to milkfish production and number of milkfish pond operators by barangay as of 2006. These data were obtained from BAS-BFAR lists of aquafarms, updated Barangay Screening Survey (BSS) data, existing POC lists and the local government units.

A two-stage sampling design was employed with the barangay as the primary sampling unit and the fishpond operator as the secondary and ultimate sampling unit. The barangays were drawn using systematic sampling from an ordered list of barangays with at least five (5) milkfish pond operators. Systematic sampling was used so that both large and small farm operators in the province in terms of milkfish production would be represented in the sample. On the other hand, sample operators were identified using snowball approach during data collection. During the search for sample operators, a set of screening questions was applied to see to it that the samples satisfy the following criteria:

1. must be engaged in milkfish culture in fishpond, and
2. must have harvested milkfish in 2006

The total sample size was 100 fishpond operators per province, equally allocated to 20 sample barangays. Following was the distribution of sample fishpond operators by province:

1. Pangasinan (100) : All monoculture
2. Bulacan (100) : 69 monoculture and 31 polyculture
3. Capiz (99) : 94 monoculture and 5 polyculture
4. Iloilo (100) : 95 monoculture and 5 polyculture

All four provinces (399) : 358 monoculture and 41 polyculture. In Capiz, one sample did not satisfy the second survey criterion, i.e. there was no reported production.

The data attached in the data set include only monoculture.

Response Rate

Response rate of 99.8 percent

Weighting

No information provided

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2006-11-15	2006-11-30	N/A

Data Collection Mode

Face-to-face paper [f2f]

Data Processing

Data Editing

Manual editing was initially done at the Provincial Operations Center during and after data collection using the CRS editing guidelines prepared by the Central Office. The edited questionnaires were again checked at the Central Office. Coding and encoding were likewise done at the Central Office.

Data Appraisal

Other forms of Data Appraisal

A series of reviews was done to assess the quality of the data in terms of reliability and acceptability. A comparison with the results of past surveys on input usage, labor utilization, production cost and return structure of milkfish was made.