

# Philippines - Costs and Returns Survey of Garlic Production 2006

**Bureau of Agricultural Statistics**

Report generated on: June 11, 2020

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# Overview

## Identification

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### ID NUMBER

PHL\_2006\_CRSGP\_v01\_EN\_M\_v01\_A\_OCS

## Overview

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### ABSTRACT

The profitability of garlic is one of the primary concerns among planners and policy makers in setting-up goals and strategies as they prepare the sector for global competition. Likewise, this is the concern of agribusiness players who are interested to venture in garlic farming. Thus, the need to generate updated information on the costs and returns of producing garlic which can guide concerned stakeholders in their decision making.

Information on costs and returns in garlic production is a critical input for the improvement of the supply/volume chain and enhancing the food security situation in the country.

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

### KIND OF DATA

Sample survey data [ssd]

### UNITS OF ANALYSIS

Agricultural holdings

## Scope

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### NOTES

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

Characteristics of the farmers/ operators such as age, sex, main occupation, experience in garlic production and highest educational attainment.

Farm characteristics such as total farm area, number of parcels operated by the farmer, area planted and harvested to garlic and other crops, number of cropping's per year, variety of garlic planted, tenurial status, month of planting and harvesting garlic.

Farm investments such as inventory of farm investments used, year and cost of acquisition, repairs and improvement cost and estimated life and usage in the focus garlic farm.

Material inputs such as usage and cost of planting materials, fertilizers, mulching materials, insecticides, herbicides/weedicides, fungicides and other chemicals.

Labor inputs such as 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 such as 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 such as volume of garlic 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 such as major buyer of garlic and the percentage of garlic sold to each buyer and the perceived right price of garlic.

Problems encountered such as problems affecting production and marketing of garlic.

Access to credit such as amount and source of crop loan, interest rate per annum and percentage of loan used in garlic production.

Other information such as membership in garlic-related association and benefits derived, access to extension services, future plans of garlic farmers and their recommendations to improve garlic production

## Coverage

### GEOGRAPHIC COVERAGE

National Coverage

### UNIVERSE

The survey covered all garlic farms with harvest during the last completed cropping 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
Maria Carol Duran	CGD	Bureau of Agricultural Statistics (BAS)	Documentation 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

### DDI DOCUMENT VERSION

PHL\_2006\_CRSGP\_v01\_EN\_M\_v01\_A\_OCS\_v01

### DDI DOCUMENT ID

DDI\_PHL\_2006\_CRSGP\_v01\_EN\_M\_v01\_A\_OCS\_FAO

# Sampling

## Sampling Procedure

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The domain of the study was the province, with the last completed production cycle in 2006 as reference period. The lists of garlic producing barangays by province prepared by the concerned BAS Provincial Operations Centers (POCs) served as the sampling frame for this study. The lists contained data on the area devoted to garlic production and number of garlic farmers by barangay as of 2006. These data were obtained from the Municipal Agriculturist Offices, Agricultural Technicians, barangay officials and other key informants in the barangay and updated results of the Barangay Screening Survey (BSS).

A two-stage sampling design was employed with the barangays as the primary sampling unit, and the garlic farmers 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) garlic farmers. Systematic sampling was used in the selection of sample barangays so that both large and small barangays in terms of area would be represented in the sample. For Nueva Ecija, all garlic producing barangays were taken as samples. Sample farmers 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 satisfied the following criteria:

- 1) must be engaged in garlic farming, and
- 2) must have harvested garlic in 2006.

The sample size was 100 garlic farmers each in Ilocos Norte and Ilocos Sur, equally allocated to 20 sample barangays. In Nueva Ecija, the sample size was 80 garlic farmers.

## Response Rate

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Response rate of 100 percent

## Weighting

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No information provided

## Questionnaires

No content available

## Data Collection

### Data Collection Dates

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Start	End	Cycle
2006-12-06	2006-12-18	N/A

### Data Collection Mode

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Face-to-face paper [f2f]

## Data Processing

### Data Editing

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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.

The document on Editing Guidelines is provided in the technical documents.

## Data Appraisal

### **Other forms of Data Appraisal**

Series of reviews were 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 garlic was made.