

Philippines - Census of Agriculture and Fisheries 2012

Philippine Statistics Authority

Report generated on: February 16, 2023

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Overview

Identification

ID NUMBER
PHL-NSO-CAF-2012-V1.0

Version

VERSION DESCRIPTION

Version 1.0 (April 2018): Division edits for preliminary estimates (raw, first output). Dataset for Barangays with Agriculture and Fisheries Facilities are available.

Overview

ABSTRACT

The 2012 CAF is a large-scale government undertaking that is geared towards the collection and compilation of basic information on the structure of the agricultural and fishery sectors in the Philippines. The data collected in this census shall constitute the bases from which policymakers and planners formulate their plans and programs for the socio-economic development of the country.

The 2012 CAF adopted the approach outlined in the World Programme for the Census of Agriculture 2010 (WCA 2010), as recommended by the Food and Agriculture Organization (FAO) of the United Nations. This programme uses a modular approach: a core module to be carried out on a complete enumeration basis to provide key structural data and one or more sample-based census supplementary modules, which are intended to provide more in-depth data. This new approach is within the framework of the system of integrated agricultural and fisheries censuses and surveys, which allows for better organization of statistical activities. The 2012 CAF (Core Module) was conducted on a complete enumeration.

The 2012 CAF core module covered key structural data items on agriculture, aquaculture and fishing for households and establishments/enterprises. Establishments/enterprises covered were those included in the 2012 Census of Philippine Business and Industry (2012 CPBI). On the other hand, the proposed supplementary modules which should provide a more in-depth structural data on specific themes on irrigation and cropping pattern, livestock and poultry, aquaculture, fisheries, and capital formation in agriculture and fisheries were planned to be undertaken between 2014 and 2017. Due to the transition resulting from the merger of four former statistical agencies including National Statistics Office (NSO) and Bureau of Agricultural Statistics (BAS) into Philippine Statistics Authority (PSA) by virtue of Republic Act 10625 (RA 10625) enacted on 12 September 2013, these were not carried out.

A community-based census module was also undertaken in all barangays, as part of the 2012 CAF. The information collected is about the presence in the barangay of facilities, input dealers and service providers that are related to agriculture, aquaculture and fisheries. The dominant terrain of the barangay and destructive natural calamities experienced by the barangay during the past five years were also gathered.

The 2012 CAF was undertaken in the year 2013, with the field enumeration for the core and community modules on 25 February to 30 April 2013 for the households and barangays. The distribution of the 2012 CAF questionnaires for establishments/enterprises engaged in agriculture, aquaculture and fishing industries was on 1 to 30 April 2013, while the collection of these questionnaires was on 16 April to 14 June 2013.

Objectives:

The 2012 CAF was envisioned to achieve the following objectives:

1. Determine the structural characteristics of agriculture and fishery sectors;
2. Provide sampling frame for the conduct of statistical surveys on crop production, livestock and poultry, aquaculture and fisheries, and other statistical undertakings;
3. Provide basic data for use in national as well as subnational development planning; and

4. Provide data on agriculture, aquaculture and fishery facilities and services in the barangay.

Specifically, this census aims to:

1. Determine the number of households with household members engaged in agriculture, aquaculture and/or fishing activity and the number of operators in each of these activities;
2. Gather data on the legal status of agricultural holders/operators and the legal form of organization of aquaculture and fishing activities;
3. Determine the type of agricultural activity operated such as growing of crops, contract growing of trees, growing of orchids for sale, ornamental plant and flower gardening for sale, raising livestock and/or poultry, raising race horses and breeder dogs for sale, bee culture, sericulture and others;
4. Obtain a comprehensive data on the characteristics of farms/holdings such as the number of parcels used, physical area, location, tenure status, main use, presence of irrigation structure/equipment, source of irrigation water, crops planted in each parcel, planting pattern, area planted and livestock/poultry raised;
5. Collect data on aquaculture, such as the type of aquafarm, location and size/volume of aquafarm, type of water environment used in aquafarm, and species cultured/raised in aquafarm;
6. Obtain detailed characteristics of fishing activity, such as the category of fishing, number of fishing boats/vessels used, ownership of fishing boat/vessel used, gross tonnage of fishing boat/vessel used, type of fishing boat/vessel used, and the kind and number of fishing gears/devices/accessories employed in fishing activity;
7. Gather data on the demographic and socio-economic characteristics of the members of households with operators; and
8. Obtain data on the presence/availability of agriculture, aquaculture and fishery facilities, input dealers and service providers in the barangay, dominant terrain of the barangay, and destructive natural calamities experienced in the barangay within the past five years.

KIND OF DATA

Census/enumeration data [cen]

UNITS OF ANALYSIS

Households with Members Engaged in Agriculture, Aquaculture and Fishing Activity (Households)

Agriculture, Aquaculture and Fishing Operators (Individuals)

Holdings/Farms (Households and establishments)

Fishing Activity (Households and establishments)

Aquaculture Farms/Aquafarms (Households and establishments)

Barangay Facilities (Community/Barangay)

Scope

NOTES

In line with the objectives of the census, the following items are included in the 2012 CAF:

1. Name of holder/operator/hired manager and type of activity;
2. Legal status of the agricultural holder/operator or legal form of organization of aquaculture and fishing activity;
3. Characteristics of the holding/farm, such as physical area, number of parcels, and characteristics of parcels (e.g. location, tenure status, main use and irrigation).

4. Temporary and permanent crops, planting pattern, area planted and number of trees/vines/hills;
5. Livestock and poultry raised;
6. Characteristics of the aquafarm, such as its type, location, area/volume, water environment and the type of species cultured;
7. Characteristics of the fishing activity, such as category of fishing, number of boats/vessels used, type of fishing boat/vessel used, gross tonnage of fishing boat/vessel used, ownership of fishing boat/vessel used and the kind and number of fishing gears/accessories/devices used;
8. Selected demographic and socio-economic characteristics of the household members of the operators; and
9. Information on the facilities, input dealers and service providers related to agriculture, aquaculture and fishery that are present/available in the barangay.

TOPICS

Topic	Vocabulary	URI
Agriculture, forestry, fisheries	Philippine Statistics Authority	
Business and agricultural censuses and registers	Philippine Statistics Authority	

Coverage

GEOGRAPHIC COVERAGE

National

Regional

Provincial

City/Municipality (see notes under "Universe")

Barangay (see notes under "Universe")

UNIVERSE

The 2012 CAF covered all households with at least one member who operated either a farm, an aquafarm, and/or a fishing activity for the period of January to December 2012.

All 4,045 agriculture, aquaculture and fishing establishments/enterprises covered in 2012 CPBI.

All Punong Barangay or any knowledgeable barangay official.

Notes:

The municipalities of Baganga, Boston and Cateel in Davao Oriental were not covered during the 2012 CAF enumeration because the households in these municipalities were displaced due to typhoon Pablo. However, these households might have been enumerated in other municipalities where they were temporarily relocated.

Moreover, Barangay Uauang-Galicia in Santo Tomas, Isabela was not covered because the barangay has no more inhabitants/residents at the time of enumeration.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
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Philippine Statistics Authority	National Economic and Development Authority
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OTHER PRODUCER(S)

Name	Affiliation	Role

FUNDING

Name	Abbreviation	Role
Government of the Philippines	GOP	Full funding

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Department of Agriculture (DA)		provided support to 2012 CAF field operations through - a) publicity and information campaign, and b) use of facilities of DA and its line agencies by NSO field offices during the census field operations.
Bureau of Agricultural Statistics (BAS)		now part of PSA, involved in - a) all development and preparatory activities for 2012 CAF, b) served as trainers/resource persons in all levels of training, and c) conducted supervision in selected provinces.
Statistical Research and Training Center (SRTC)		now called as Philippine Statistical Research and Training Institute (PSRTI), involved in - a) all development and preparatory activities for 2012 CAF, b) served as trainers/resource persons in all levels of training, and c) conducted supervision in selected provinces.
Department of the Interior and Local Government (DILG)		provided support to CAF 2012 field operations through the assistance of Local Government Units (LGUs), such as a) information campaign, b) identification of training venues/census headquarters, and c) transport of census materials.

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Agriculture and Fisheries Statistics Division	AFCD	Philippine Statistics Authority	Documentation of the census

DATE OF METADATA PRODUCTION

2018-08-25

DDI DOCUMENT VERSION

Version 1.0. Published Original DDI document with entries for Document Description, Study Description and External Resources. This version includes Datasets documentation for Barangay Agriculture and Fishery Facilities.

DDI DOCUMENT ID

DDI-PHL-PSA-CAF-2012-V1.0

Sampling

Sampling Procedure

No sampling was done for the 2012 CAF. It was done through a complete listing of households and enumeration of households with agriculture, aquaculture and fishing operators. All establishments engaged in agriculture and fisheries that are included in the 2012 List of Establishments were covered in the 2012 CPBI were also enumerated in the 2012 CAF.

Questionnaires

Overview

I. Household-based Questionnaires

a. CAF Form 1 (List of Households) -- a form used to list all the housing units whether occupied or vacant and the households in the particular enumeration area (EA). The name of the household head, address of the household, total number of household members, and number of males and females among the household members were also gathered in this questionnaire. It was also used to determine the presence of household members engaged in agricultural, aquaculture, and/or fishing activity whether as an operator or not, the number of operators in each type of activity they are involved, and the total number of operators in the household regardless of the type activity they are involved.

b. CAF Form 2 (Household Roster) -- a form administered to households with operators in agricultural, aquaculture and/or fishing activity as listed in CAF Form 1. It was used to record the socio-demographic characteristics of all the household members including the identified agricultural, aquaculture, and/or fishing operators.

c. CAF Form 3 (Core Questionnaire for Agriculture) -- a form administered to every agricultural operator and used to record information about the agricultural activity of the operator, such as legal status of the holder, physical area, location of the farm, temporary and permanent crops planted, and livestock and/or poultry raised.

d. CAF Form 4 (Core Questionnaire for Aquaculture) -- a form administered to every aquaculture operator and used to record information about the aquaculture activity of the operator, such as legal form of organization, and characteristics of the aquafarm used -- number, type, location, water environment used, area/volume, and type and number of species cultured.

e. CAF Form 5 (Core Questionnaire for Fisheries) -- a form administered to every fishing operator and used to record information about the fishing activity of the operator, such as legal form of organization, type of water environment where fishing activity was performed most of the time, number of fishing boats/vessels used, type of fishing boat/vessel used, gross tonnage of fishing boat/vessel used, ownership of fishing boat/vessel used, and the kind and number of fishing gears/accessories/devices used in an operation.

Note: All the household-based questionnaires (CAF Forms 1 to 5) were written in English language. Translation guides were prepared in five major dialects in the Philippines -- namely, Tagalog, Cebuano, Ilocano, Hiligaynon and Waray.

II. Community-based Questionnaire

CAF Form 6 (Barangay Questionnaire) -- a form administered to a barangay chairman or official to collect data on the presence/availability of facilities, input dealers, and service providers related to agriculture, aquaculture, and fishing in all barangays nationwide. It also gathered information on dominant terrain of the barangay and occurrence of destructive natural calamities in the barangay in the past five years.

III. Establishment-based Questionnaires

a. CAF Form 24 (Agriculture Establishment, Growing of Crops) -- an eight-page booklet type questionnaire with a one-page loose sheet of list of temporary/permanent crops to be given to establishments/enterprises covered in 2012 CPBI. It intends to collect data on the farm/holding of the establishment/enterprise engaged in growing of crops, such as legal status of the holder, physical area, location of the farm, temporary and permanent crops planted.

b. CAF Form 25 (Agriculture Establishment, Livestock and Poultry Raising) -- a six-page booklet type questionnaire given to establishments/enterprises covered in 2012 CPBI. This questionnaire was intended to collect data on the farm of holding of the establishment/enterprise engaged in raising of livestock, other animals and/or poultry, such as legal status of the holder, kind of livestock and/or poultry, and number of heads and/or birds.

c. CAF Form 26 (Aquaculture Establishment) -- a six-page questionnaire given to establishment/enterprise covered in 2012 CPBI. This questionnaire was intended to collect data on the aquaculture activity of the establishments/enterprises engaged in culturing of different aquatic species, such as legal form of organization, number of aquafarms used, type of aquafarm, location of aquafarm, water environment used, area/volume of the aquafarm, and type and number of species cultured.

d. CAF Form 27 (Fishing Establishment) -- a four-page questionnaire given to establishment/enterprise covered in 2012 CPBI.

This questionnaire was intended to collect data on the fishing activity of the establishments/enterprises, such as legal form of organization, type of water environment where fishing activity was performed most of the time, number of boats/vessels used, type of boat/vessel used, gross tonnage of boat/vessel used, ownership of boat/vessel used, and kind and number of gears/accessories/devices used.

Note: Copy of all questionnaires are provided as related materials.

Data Collection

Data Collection Dates

Start	End	Cycle
2013-02-25	2013-04-30	Household-based
2013-04-16	2013-06-14	Establishment-based

Time Periods

Start	End	Cycle
2012-01-01	2012-12-31	N/A

Data Collection Mode

Face-to-face [f2f], Self-administered-questionnaire [saq]

Data Collection Notes

I. Pretests

As part of the standard procedures in preparing a census, a series of pretests was conducted to focus on different aspects of census takings. Pretests are generally designed and undertaken to examine the feasibility and cost effectiveness of new and alternative field operations, enumeration procedures and questionnaire content.

There were four (4) pretests that took place before the pilot census:

- Pretest 1 in the municipalities of Lian and Nasugbu, Batangas;
- Pretest 2 in Bgy. North Bay Boulevard South and Bgy. Novotas West in City of Navotas; Bgy. Soledad, San Pablo City; Bgy. Mojon, Liliw; Bgy. Poblacion, Sta. Cruz; Bgy. Pansol, Pila; Bgy. Bagumbayan, Sta.Cruz; and Bgy. Wawa, Lumban in Laguna; and Bgy. Halayhayin, Pililla; Bgy. Plaza Aldea, Tanay; and Bgy. Sta.Cruz, Antipolo City in Rizal;
- Pretest 3 in Bgy. Kapitangan, Paombong and Bgy. Dulong Malabon, Pulilan in Bulacan; and
- Pretest 4 in Bgy. Halayhay and Bgy. Calibuyo in Tanza, Cavite.

In each pretest, a training/briefing was conducted in order for the participants to come up with a common knowledge on the concepts and definitions that were needed in the operation. During the training/briefing, the instructions on how to accomplish the questionnaires were also discussed. Similarly, a de-briefing was conducted after each pretest to discuss the observations, problems encountered and actions taken and recommendations to improve the questionnaires, instructions and other operations procedures.

Recommendations on Questionnaire Design, Average Output per Day, Manuals and Other Materials for 2012 CAF Pilot Census:

- a. To adopt the design of the questionnaires used in the fourth pretest for the Pilot Census with minor modifications.
- b. The household roster questionnaire should be integrated in the questionnaire for agriculture, aquaculture and fishing.
- c. The daily output for enumeration should depend on the characteristic of the barangay, whether agricultural or coastal. The type of households, that is, whether or not they have at least one member who is an agriculture/aquaculture/fishing operator should be considered in computing the daily output. Suggested average output was 16, if the household has at least one agriculture/aquaculture/fishing operator; an average output of 23, if the household has no operator in either agriculture or aquaculture or fishing.

II. Pilot Census

Pilot census provided the opportunity to test all aspects of the census operation in advance of the main census activities, thus, ensuring the smooth operation and success of the census. Pilot census tested the publicity and mapping operations, census methodology, questionnaires, instruction manuals, data collection techniques, and training of field enumerators and supervisory staff. The results of the pilot census were processed to test the programs in the data processing system to be used for the actual census. Pilot census field operation was conducted in April 2012 in four municipalities: Bolinao, Pangasinan; Libon, Albay; Manjuyod, Negros Oriental; and Banga, South Cotabato.

A total of about 135 enumerators (ENs) and 64 team supervisors (TSs) were hired for the pilot census to cover 57, 875

households. There were 29,906 operators for agriculture, 764 for aquaculture and 4,434 for fishing interviewed during the operation. There were 83 establishments/enterprises covered during the conduct of pilot census.

III. Actual Census

TRAININGS

A. Training for Enumeration of Household(s)

Four levels of training were conducted to enable the field workers to have a common knowledge and understanding of the concepts and definitions of terms used in the census.

a. Task Force Training: Three batches of training for the task force were held on different dates and venues:

Batch 1: 3 to 7 December 2012;

Batch 2: 17 to 21 December 2012; and

Batch 3: 14 to 18 January 2012.

Participants who attended the said trainings were selected Central Office (CO) personnel, selected Provincial Statistics Officers (PSOs) and Regional Office (RO) personnel of the NSO; selected CO personnel of the BAS; and staff from SRTC. Trainers and resource persons for the training were selected staff of the then Census Planning and Operations Division (CPOD) of NSO, BAS and SRTC.

b. Second Level Training: This training was conducted in all ROs on 10 to 14 December 2012 except for Region I - Ilocos and Region IV-A - CALABARZON which conducted the training on 17 to 21 December 2012 and 21 to 25 January 2013, respectively. It was participated by selected RO and Provincial Office (PO) staff of NSO, and Regional Agricultural Statistics Officers of BAS. Trainers for this level were the participants of the Task Force training. The participants of second level training were the third level tainers.

c. Third Level Training: This training was conducted in two batches: Batch 1 (28 January to 1 February 2013) and Batch 2 (4 to 8 February 2013). The training was held at the Provincial Training Centers and attended by the District Statistics Officers (DSOs), Statistical Coordination Officers (SCOs), pre-selected TSs and other hired PO Staff for 2012 CAF. Trainers for this level were participants of the second level.

d. Fourth Level Training: This training was conducted in two batches at designated city/municipality training centers. The first batch was held on 11 to 16 February 2013 while the second batch on 18 to 23 February 2013. Participants in this level were TSs and ENs. The third-level training participants served as trainers.

B. Training for Enumeration of Establishment(s)/Enterprise(s)

a. Task Force Training: The training for enumerating establishment/enterprise was incorporated in the task force training of the 2012 CPBI which was held on 11 to 14 December 2012 (first batch) and 17 to 19 December 2012 (second batch).

b. Second Level Training: This training of 2012 CPBI was conducted on 12 to 15 March 2012.

c. Third Level Training: This training was held on 18 to 21 March 2012.

ENUMERATION

A total of 43,778 ENs and 21,477 TSs were hired to conduct the actual census nationwide. The enumeration of households was carried out from 25 February 2013 to 30 April 2013 (for large provinces enumeration was extended until 30 June 2013).

The distribution of questionnaires for agriculture, aquaculture and fishing establishments/enterprises was undertaken simultaneously with the 2012 CPBI on 1 to 30 April 2013. The NSO Statistical Coordinating Officers (SCOs) were responsible for the distribution and collection of questionnaires. Collection of accomplished questionnaires started from 16 April 2013 and ended on 14 June 2013.

Questionnaires

I. Household-based Questionnaires

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in the particular enumeration area (EA). The name of the household head, address of the household, total number of household members, and number of males and females among the household members were also gathered in this questionnaire. It was also used to determine the presence of household members engaged in agricultural, aquaculture, and/or fishing activity whether as an operator or not, the number of operators in each type of activity they are involved, and the total number of operators in the household regardless of the type activity they are involved.

b. CAF Form 2 (Household Roster) -- a form administered to households with operators in agricultural, aquaculture and/or fishing activity as listed in CAF Form 1. It was used to record the socio-demographic characteristics of all the household members including the identified agricultural, aquaculture, and/or fishing operators.

c. CAF Form 3 (Core Questionnaire for Agriculture) -- a form administered to every agricultural operator and used to record information about the agricultural activity of the operator, such as legal status of the holder, physical area, location of the farm, temporary and permanent crops planted, and livestock and/or poultry raised.

d. CAF Form 4 (Core Questionnaire for Aquaculture) -- a form administered to every aquaculture operator and used to record information about the aquaculture activity of the operator, such as legal form of organization, and characteristics of the aquafarm used -- number, type, location, water environment used, area/volume, and type and number of species cultured.

e. CAF Form 5 (Core Questionnaire for Fisheries) -- a form administered to every fishing operator and used to record information about the fishing activity of the operator, such as legal form of organization, type of water environment where fishing activity was performed most of the time, number of fishing boats/vessels used, type of fishing boat/vessel used, gross tonnage of fishing boat/vessel used, ownership of fishing boat/vessel used, and the kind and number of fishing gears/accessories/devices used in an operation.

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Note: Copy of all questionnaires are provided as related materials.

Data Collectors

Name	Abbreviation	Affiliation
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National Statistics Office	NSO	
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Supervision

The 2012 CAF enumeration was done by field interviewers or ENs. They were supervised by TSs and NSO personnel. For every two to three ENs, one TS was assigned to monitor, edit and solve any problems that might have been encountered during the field operations.

The DSO/SCO of the NSO served as the direct supervisor of the TSs and ENs. Moreover, officials and selected personnel of the NSO PO and RO also supervised the census personnel in their respective areas of jurisdiction. Selected personnel from the NSO-CO acted as supervisors in some areas during the census.

The following were done during supervision:

1. Spot checking the EN whether the interview was done properly and in accordance with the instructions given, and whether the data gathered were complete and accurate.
2. Reinterviewing households which have been interviewed by the EN and comparing the information gathered against the CAF Forms 2, 3, 4, and or 5 accomplished by the EN, and discussing to the EN/TS any inconsistency observed.
3. Observing the EN while doing the actual interview and discussing to the EN the result of the observation.
4. Scrutinizing/editing accomplished questionnaires while still in the field.

Duties and responsibilities of supervisors, and discussion on how to accomplish different forms used in field editing are included in the 2012 CAF Supervisor's Manual provided in Related Materials.

Data Processing

Data Editing

Data editing was done at the following stages:

1. Scrutiny of questionnaires by the Field Supervisors during data collection.
2. Editing, coding and verification of questionnaires during Manual Processing at POs.
3. Key-verification, geo-ID validation and data consistency checking during Machine Processing at POs.
4. Geo-ID validation, data consistency checking and editing at CO.

Detailed documentation of the editing of data can be found in the 2012 CAF Manual Processing and Machine Processing manuals provided in the related materials.

Other Processing

I. TRAININGS ON DATA PROCESSING

A. Training for Manual Processing of the Accomplished Questionnaires

- a. Task Force Training: This training was conducted on 6 to 10 May 2013 and attended by focal Field Office Staff and CO Personnel.
- b. Second Level Training: Field Office personnel who attended the task force training acted as trainer during the second level training conducted on 15 to 18 May 2013. It was also participated by selected personnel of the PO.
- c. Third Level Training: This training on manual processing was conducted on 20 to 23 May 2014 in all 2012 CAF Processing Centers. Participants of this training were hired manual processors and selected provincial staff.

B. Training for Machine Processing of Accomplished Manually Edited Questionnaires

- a. Task Force Training: This training conducted on 12 to 16 August 2013 was participated by the selected personnel from the CPOD, Information Technology and Systems Resources Division (ITSRD) programmers who developed the program/system used in scanning, data entry and consistency check of questionnaires, and selected Information Technology Operations Division (ITOD) personnel who were responsible in the network cabling connection.
- b. Second Level Training: This training was conducted on 10 to 13 September 2013 at the Regional Processing Centers. Personnel who attended this training conducted the third level training.
- c. Third Level Training: This training was participated by hired personnel and was conducted on 16 to 18 September 2013.

II. DATA PROCESSING

Data processing was decentralized to the field offices for the following stages:

A. Manual Processing

The following activities were done at the POs.

- a. Checking for completeness of questionnaires.
- b. Verification of geographic identification (Geo-ID).
- c. Reviewing/editing of entries for completeness, consistency, and acceptability of responses.
- d. Coding of selected items.
- e. Sample verification of edited/coded questionnaires (10%).

B. Machine Processing

The following activities were done at the Scan Stations and Data Processing Centers (DPCs).

- a. Scanning of questionnaires and interpret of X-mark fields.
- b. Encoding of data using the Key-from-Image program.
- c. Key-verification of all encoded items (50% for CAFF2 and 100% for all other forms).
- c. Geo-ID validation and completeness checking for each Enumeration Area (batch file).
- d. Data consistency of items within forms (DCC1).

e. Data consistency of items between forms (DCC2).

C. Additional Processing Activities:

1. Additional Processing done in Provincial Office (PO)

- a. Evaluation of marginals and consistency tables.
- b. Data file preparation.
- c. Back up of data files.
- d. Submission of clean data files (batch files) to Regional Office (RO).

2. Additional Processing done at RO

- a. Generation of certification pass of all data files that have completed the machine processing stage at the Provincial Offices, to ensure that the data files to be submitted to the Central Office (CO) were cleaned.
- b. Submission of cleaned data files (batch files) to CO

3. Additional Processing done at CO

- a. Certification pass:
 - a.1 Geo-ID validation
 - a.2 Data consistency within forms (DCC1)
 - a.3 Data consistency between forms (DCC2)
- b. Evaluation of marginals and consistency tables.
- c. Merging and reformatting of data files.
- d. Tabulation of preliminary results.
- e. Evaluation of preliminary results, verifying data with other administrative data from Bureau of Fishery and Aquatic Resources (BFAR), National Irrigation Administration (NIA), and Barangay Agricultural Profiling Survey (BAPS) among others.
- f. Further consistency editing
- g. Tabulation of final results
- h. Evaluation of final results
- i. Creation of micro data file

Data Appraisal

No content available