

Philippines - Monthly Integrated Survey of Selected Industries: 2016 to 2018

Philippine Statistics Authority

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Overview

Identification

ID NUMBER
PHL-PSA-MISSI-2018-v1.0

Version

VERSION DESCRIPTION
v 2.1: Edited dataset, for public use

PRODUCTION DATE
2021-01

Overview

ABSTRACT

The MISSI is a non-probability sample survey of manufacturing establishments with total employment 20 and over undertaken monthly by the PSA. It aims to provide flash indicators on the performance of growth-oriented industries in the manufacturing sector. It is one of the designated statistical activities that generates the most critical and essential statistics required for social and economic planning and analysis by the government.

The MISSI collects information on value of production, sales/revenue, compensation, inventories and capacity utilization on a monthly basis nationwide. It uses a shuttle questionnaire that provides respondents with a running account of previous months data for one whole year.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS

Establishment is the unit of enumeration for this survey. An establishment is defined as an economic unit under a single ownership or control, i.e., under a single legal entity, engaged in one or predominantly one kind of economic activity at a single fixed location.

Scope

NOTES

The MISSI for 2016 to 2018 covers manufacturing establishments with average total employment of 20 and over. The following are the data items collected:

- I. Total Employment
- II. Total Compensation
- III. Total Value of Production
- IV. Total Revenue/Sales
- V. Inventory (finished products, work-in-progress, raw materials)
- VI. Capacity Utilization

TOPICS

Topic	Vocabulary	URI
Mining, manufacturing, construction	Philippine Statistics Authority	

Coverage

GEOGRAPHIC COVERAGE

The geographic domain is the whole country.

UNIVERSE

Manufacturing establishments with total employment of 20 and over

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Philippine Statistics Authority	National Economic and Development Authority

FUNDING

Name	Abbreviation	Role
Government of the Philippines	GOP	Full Funding

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Industry Statistics Division	ISD	Philippine Statistics Authority	Documenter

DATE OF METADATA PRODUCTION

2020-04

DDI DOCUMENT VERSION

Version 1.1 (July 2018)

DDI DOCUMENT ID

DDI-PHL-PSA-MISSI-2018-v1.1

Sampling

Sampling Procedure

Monthly Integrated Survey of Selected Industry (MISSI) is a non-probability sampling survey of the manufacturing sector. Industry leaders of this sector were selected as sample establishments that contributes the top 50 percent of the "Value of Product Sold" for each sector or sub-sector, based from the final results of the latest Census of Philippine Business and Industry (CPBI)/ Annual Survey of Philippine Business and Industry (ASPBI). About 900 sample establishments were captured as industry leaders.

The MISSI utilizes the 3-digit and selected 4-digit PSIC as its industry domain which is patterned after ISIC version 3. Thus, there are 20 major sectors with 10 further categorized into sub-sectors or a total of 37 sub-sectors. These are:

1. Food Manufacturing
 - 1.1. Processed meat and fish
 - 1.2. Processed fruits and vegetables
 - 1.3. Vegetable and animal oils and fats
 - 1.4. Milk and dairy products
 - 1.5. Grain mills products
 - 1.6. Animal feeds
 - 1.7. Bakery products
 - 1.8. Milled and refined sugar
 - 1.9. Coconut products
 - 1.10. Miscellaneous foods
2. Beverages
3. Tobacco products
4. Textiles
 - 4.1. Textile products
 - 4.2. Cordage, rope and twine
5. Footwear and wearing apparel
6. Leather products
7. Wood and wood products
 - 7.1. Planning and sawmill
 - 7.2. Veneer and plywood
 - 7.3. Other wood products
8. Paper and paper products
9. Printing
10. Petroleum products
 - 10.1. Refined petroleum products
 - 10.2. Coke and other fuel products
11. Chemical products
 - 11.1. Basic Chemicals and industrial gases
 - 11.2. Fertilizers
 - 11.3. Paints
 - 11.4. Drugs and medicines
 - 11.5. Cosmetics and toilet preparations
 - 11.6. Miscellaneous Chemicals
12. Rubber and plastic products
 - 12.1. Rubber products
 - 12.2. Plastic products
13. Non-metallic mineral products
 - 13.1. Glass and glass products
 - 13.2. Cement
 - 13.3. Miscellaneous non-metallic mineral products
14. Basic metals
 - 14.1. Iron and steel
 - 14.2. Non-ferrous metals
15. Fabricated metal products
16. Machinery except electrical

- 16.1. Office,accounting and computing machinery
- 16.2. Machinery and equipment n.e.c.
- 17. Electrical machinery
 - 17.1. Electrical appliances
 - 17.2. Wires and wirings
 - 17.3. Batteries
 - 17.4. Lamps and fixtures
 - 17.5. Microcircuits
- 18. Transport equipment
- 19. Furnitures and fixtures
- 20. Miscellaneous Manufactures

Criteria in the selection of sample establishments for the 2000 based series are based on the following:

1. Frame was extracted based on "Value of products Sold" data from the final results of the latest Census of Philippine Business and Industry (CPBI)/ Annual Survey of Philippine Business and Industry (ASPBI) .
2. Establishments in the sector were ranked from highest to lowest.
3. Industry leaders that contributed the top 50 percent of "value of products sold" were selected as samples for each sector/sub-sector.
4. Number of samples was trimmed for sectors with many small players (i.e. wearing apparel, textiles).
5. Establishments from list of top corporations were also added.
6. Updating of samples is done only at beginning of the year to include:
 - large establishments from: listing of top 1000 corporations, listing of responding ASPBI/CPBI/QSPBI samples; and
 - exclude those that stopped operation/on strike, delinquent respondents.

Indicators generated from MISSI (2000=100) are the following:

1. Value of Production Index (VaPI), year-on-year growth rates
2. Volume of Production Index (VoPI),year-on-year growth rates
3. Value of Net Sales Index (VaNSI), year-on-year growth rates
4. Volume of Net Sales Index (VoNSI), year-on-year growth rates
5. Capacity Utilization Rate

Imputation methods used for unit and item non-response are as follows:

1. Data of non-response samples were estimated using short-term geometric mean of the relative values of responding samples within the industry class. Revisions to the preliminary estimates are done upon receipt of actual reports oa late respondents.

Response Rate

The average monthly response rate is 80 to 85%, 35 days after the reference month.

Weighting

The weight is 1 for establishment that falls within the upper 50 percent of total value of production.

Questionnaires

Overview

The MISSI undergoes a regular clearance process. It utilizes a shuttle type questionnaire with approval number and expiration date.

- 2016 MISSI has an approval number of PSA-1544 and expiry date of 31 March 2017
- 2017 MISSI has an approval number of PSA-1641 and expiry date of 31 December 2017
- 2018 MISSI has an approval number of PSA-1747 and expiry date of 31 December 2018

The field offices distribute the questionnaires at the beginning of the year and collect the data on a monthly basis.

Data Collection

Data Collection Dates

Start	End	Cycle
2018-02-12	2018-03-02	January 2018 reference month
2018-03-09	2018-03-28	February 2018 reference month
2018-04-10	2018-04-30	March 2018 reference month
2018-05-10	2018-05-31	April 2018 reference month
2018-06-11	2018-06-29	May 2018 reference month
2018-07-10	2018-07-31	June 2018 reference month
2018-08-10	2018-08-31	July 2018 reference month
2018-09-10	2018-10-01	August 2018 reference month
2018-10-10	2018-10-31	September 2018 reference month
2018-11-09	2018-11-29	October 2018 reference month
2018-12-10	2018-12-28	November 2018 reference month
2019-01-10	2019-01-31	December 2018 reference month

Time Periods

Start	End	Cycle
2018-02-12		January 2018 reference month
2018-03-09		February 2018 reference month
2018-04-10		March 2018 reference month
2018-05-10		April 2018 reference month
2018-06-11		May 2018 reference month
2018-07-10		June 2018 reference month
2018-08-10		July 2018 reference month
2018-09-10		August 2018 reference month
2018-10-10		September 2018 reference month
2018-11-09		October 2018 reference month
2018-12-10		November 2018 reference month
2019-01-10		December 2018 reference month

Data Collection Mode

Self administered questionnaire and/or face-to-face interview

Data Collection Notes

Collection of MISSI questionnaires is done every 10th day to 30th day after each reference month.

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Data Collectors

Name	Abbreviation	Affiliation
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Philippine Statistics Authority	PSA	
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Supervision

The distribution and collection of questionnaires is under the supervision of the PSA Regional and Provincial Offices.

Data Processing

Data Editing

Editing of the MISSI accomplished questionnaires was done to check for the completeness, consistency, and reasonableness of data. It consist of three stages: field editing, office verification and machine validation.

Field editing of data was done by the provincial staff upon collection of the accomplished questionnaires from the establishments. The objective is to check for completeness and consistency of entries in the questionnaires. Any inconsistent or missing data was corrected at this stage as this can be immediately verified from the respondents.

Office verification was done by provincial office staff upon receipt of the accomplished questionnaires from the field men. In some instances, callback to the establishments in the form of phone call or email to verify some inconsistent or missing data.

Desk verification was done by the ISD staff to check the consistency and reasonableness of entries in the accomplished questionnaires. This process also validates the status of establishments such as non-responding and reported closed, cannot be located, transferred, and out of scope etc.. The telephone was extensively utilized to verify information from the establishment's contact person. The Internet was also used to obtain information on the contact address and to research for information on the status of the establishment.

For unit or item non-response, the following are undertaken:

1. Establishments that stopped operation, TSO, strike, etc., during the year are given "0" values.
2. Data of non-responding samples were estimated using short-term geometric mean of the relative values of responding samples within the industry class.
3. Revisions to the preliminary estimates are done upon receipt of actual reports of the late respondents.

Other Processing

MISSI utilizes the simple formulas and macros of microsoft office excel in the compilation of MISSI data series. Also, tabulation is done using the same spreadsheet software. Laspeyres method is applied to generate the index values of production and net sales.

Data Appraisal

Estimates of Sampling Error

Not applicable.

Other forms of Data Appraisal

The quality of the MISSI indicators are measured in terms of the following:

- > Representativeness of the samples as seen in the CONCENTRATION RATIO - the combined production value of the samples as a percentage to the total industry production value
- > Response rate of the survey
- > Imputation method used for non-responses