

# Philippines - Monthly Integrated Survey of Selected Industries 2008

**National Statistics Office**

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## Overview

### Identification

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ID NUMBER  
PHL-NSO-MISSI-2008-v1.0

### Version

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VERSION DESCRIPTION  
v 2.1: Edited dataset, for public use

PRODUCTION DATE  
2009-10

### Overview

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#### ABSTRACT

The 2008 MISSI is a non-probability sample survey of manufacturing establishments with total employment 20 and over undertaken monthly by the NSO. 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 under Executive Order Number 352 that generates the most critical and essential statistics required for social and economic planning and analysis by the government.

The 2008 MISSI collects information about value of production, sales/revenue, compensation, inventories and capacity utilization on a monthly basis nationwide using 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 analysis 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

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#### NOTES

The MISSI for 2008 covers manufacturing establishments with average total employment of 20 and over. The following are the data items collected:

- I. Employment
- II. Compensation
- III. Total Production
- IV. Total Net Sales/Revenue
- V. Inventory of Finished Products
- VI. Inventory of Raw Materials

## VII. Capacity Utilization

**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
National Statistics Office	

## FUNDING

Name	Abbreviation	Role
National Statistics Office	NSO	

## OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
National Statistical Coordination Board		Review and clearance

**Metadata Production**

## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
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## DATE OF METADATA PRODUCTION

2010-03-08

## DDI DOCUMENT VERSION

Version 1.0 (March 2010)

## DDI DOCUMENT ID

DDI-PHL-NSO-MISSI-2008-v1.0

# Sampling

## Sampling Procedure

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Monthly Integrated Survey of Selected Industry (MISSI) for 2008 is a non-probability sampling survey of the manufacturing sector. Industry leaders of this sector were selected as samples that contributes at least 50 percent of the "Value of Product Sold" for each sector or sub-sector, based on the 2000 Census of Philippine Business and Industry (CPBI, Ref. 1999). About 561 sample establishments were captured as industry leaders.

The 2008 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 for the 2008 MISSI. 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. Publishing and 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 2000 Census of Philippine Business and Industry (CPBI) with reference year 1999.
2. Establishments in the sector were ranked from highest to lowest.
3. Industry leaders that contributed at least 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 2008 MISSI (2000=100) are the following:

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

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

1. Establishments that stopped operation, temporarily out of business, strike, etc., during the year are given "0" values
2. Historical imputation without trend adjustment, or the use of the latest available data of the establishment
3. Imputed values are revised upon receipt of actual data for inclusion in the revised indices

## Response Rate

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The average monthly response rate is 97.9%, 55 days after the reference month.

## Weighting

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

# Questionnaires

## Overview

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The MISSI undergoes a clearance process by the National Statistical Coordination Board (NSCB). It utilizes a shuttle type questionnaire with NSCB approval number and expiration date. For the 2008 MISSI, has NSCB approval number of NSO-0802-01 and expiring date of March 2009.

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
2008-02-16	2008-03-15	January round
2008-03-16	2008-04-15	February round
2008-04-16	2008-05-15	March round
2008-05-16	2008-06-15	April round
2008-06-16	2008-07-15	May round
2008-07-16	2008-08-15	June round
2008-08-15	2008-09-15	July round
2008-09-16	2008-10-15	August round
2008-10-16	2008-11-15	September round
2008-11-16	2008-12-15	October round
2008-12-16	2009-01-15	November round
2009-01-16	2009-02-15	December round

### 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 45th day after each reference month.

### Questionnaires

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### Data Collectors

Name	Abbreviation	Affiliation
National Statistics Office	NSO	

### Supervision

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

## Data Processing

### Data Editing

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Editing of the 2008 MISSI accomplished questionnaires was done to check for the completeness, consistency, and reasonableness of data. It consisted 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. 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, TOB, strike, etc., during the year are given "0" values.
2. Historical imputation without trend adjustment, or the use of the latest available data of the establishment.
3. Imputed values are revised upon receipt of actual data for inclusion in the revised indices.

### Other Processing

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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