



# PRESS RELEASE

**PRODUCTION INDEX AND NET SALES INDEX  
(Monthly Integrated Survey of Selected Industries)  
June 2021  
(2018=100)**

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Table A. Year-on-Year Growth Rates of Production Index, Net Sales Index, and Producer Price Index for Total Manufacturing (2018=100): June 2020, May 2021<sup>r</sup>, and June 2021<sup>p</sup> (in Percent)

<b>TOTAL MANUFACTURING</b>	<b>JUNE 2020</b>	<b>MAY 2021<sup>r</sup></b>	<b>JUNE 2021<sup>p</sup></b>
<b>Production Index (2018=100)</b>			
Value (VaPI)	<b>-81.7</b>	<b>248.1</b>	<b>439.6</b>
Volume (VoPI)	<b>-80.6</b>	<b>263.2</b>	<b>453.1</b>
<b>Net Sales Index (2018=100)</b>			
Value (VaNSI)	<b>-23.3</b>	<b>58.6</b>	<b>14.7</b>
Volume (VoNSI)	<b>-18.9</b>	<b>65.5</b>	<b>17.6</b>
<b>Producer Price Index (2018=100)</b>	<b>-5.3</b>	<b>-4.1</b>	<b>-2.4</b>

p – preliminary, r- revised  
Source: Philippine Statistics Authority

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## PRODUCTION

### Value of Production showed an increasing trend

The Value of Production Index (VaPI) for manufacturing further grew in June 2021 with an annual rate of 439.6 percent, from its previous month's three-digit annual increase of 248.1 percent. The year-on-year growth rate in June 2021 was the third positive growth since April 2019 and the highest annual growth in the 2018-based data series. In contrast, the annual growth rate for VaPI in June 2020 was recorded at -81.7 percent. (*Tables A and 1*)

The expansion in VaPI for manufacturing sector in June 2021 was contributed by the increases in 19 of the 22 industry divisions that registered positive annual growth rates. Among these, the top contributor was **manufacture of coke and refined petroleum products** with 3,230.0 percent annual growth rate. On the other hand, the remaining three industry divisions were at a downward trend which was led by **manufacture of tobacco products** with -65.1 percent annual growth rate. (*Tables 1-A and 1*)

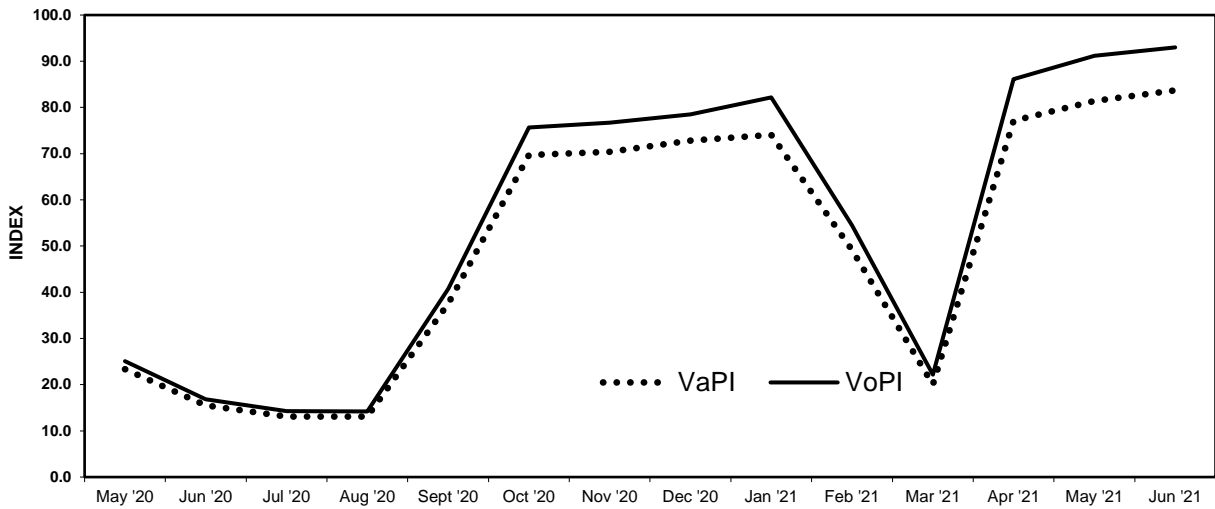
### Volume of Production Index also expanded

The Volume of Production Index (VoPI), likewise, posted a three-digit annual rate of 453.1 percent in June 2021. This upturn was faster than the 263.2 percent increase registered in the previous month. In June 2020, VoPI dropped at an annual rate of -80.6 percent. (*Tables A and 2*)

The growth noted in the volume of production for manufacturing sector in June 2021 was due to the improvements in 19 out of 22 industry divisions. The fastest growth rate was registered in **manufacture of coke and refined petroleum products** at 2,932.2 percent. On the contrary, the remaining three industry divisions recorded decreases with **manufacture of tobacco products** registering the fastest annual decline of -65.2 percent. (*Tables 1-B and 2*)

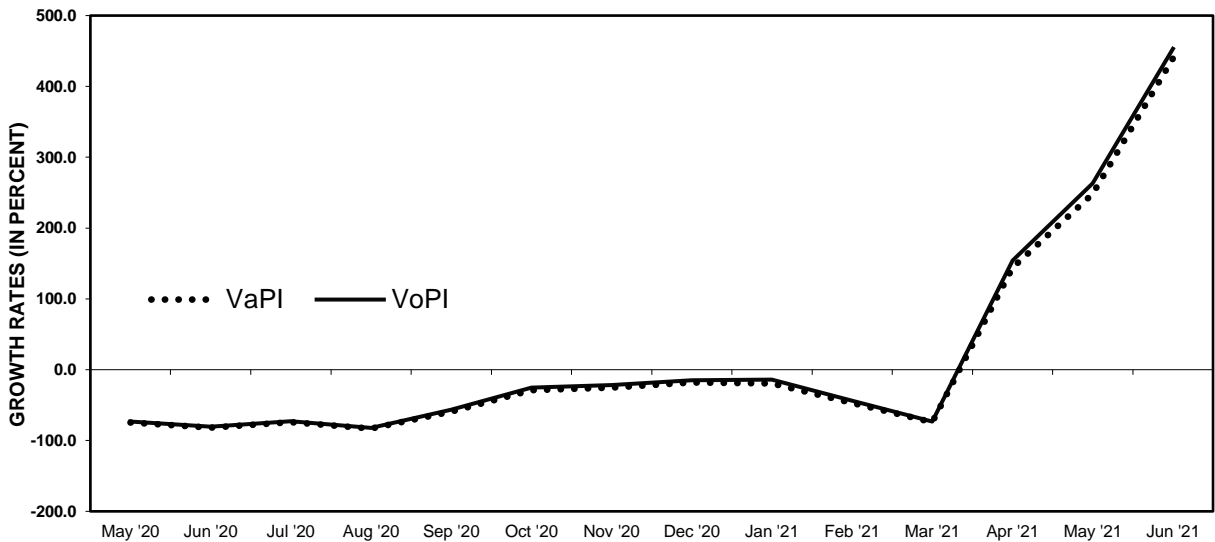
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Figure 1. Value and Volume of Production Index for Total Manufacturing  
May 2020 - June 2021<sup>p</sup> (2018 = 100)



p – preliminary  
Source: Philippine Statistics Authority

Figure 2. Year-on-Year Growth Rates of Value and Volume of Production Index for Total Manufacturing (in percent)  
May 2020 - June 2021<sup>p</sup> (2018 = 100)



p – preliminary  
Source: Philippine Statistics Authority

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## NET SALES

### Value of Net Sales Index likewise increased at a slower rate

The Value of Net Sales Index (VaNSI) recorded a slower annual increase of 14.7 percent in June 2021 compared with the 58.6 percent annual rate in the previous month. The annual rate in June 2021 was the fourth highest positive growth rate since March 2020. In June 2020, VaNSI dropped at an annual rate of -23.3 percent. *(Tables A and 3)*

Of the 22 industry divisions, 18 exhibited positive growths, led by **manufacture of fabricated metal products, except machinery and equipment** that registered an annual increase of 179.3 percent. Meanwhile, four industry divisions showed downturns in June 2021 with **manufacture of beverages** recording the highest decline at -9.1 percent. *(Tables 2-A and 3)*

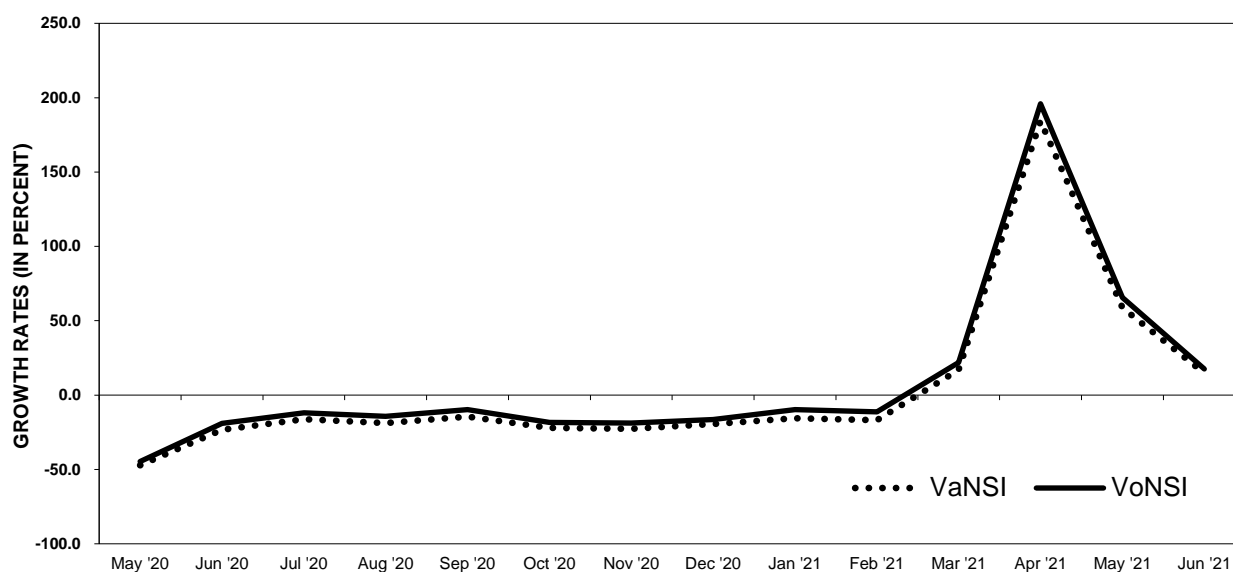
### Volume of Net Sales Index sustained double-digit increase

The Volume of Net Sales Index (VoNSI) recorded a year-on-year increment of 17.6 percent in June 2021. This annual rate was slower than the 65.5 percent increase posted in the previous month. In June 2020, VoNSI declined by -18.9 percent. *(Table A and 4).*

The increase in VoNSI was brought about by the positive growth rates of 19 industry divisions. Of these, **manufacture of fabricated metal products, except machinery and equipment** was the major contributing factor with 170.8 percent growth. In contrast, the remaining three industry divisions exhibited decreases during the period, which were **manufacture of beverages** (-10.6%), **manufacture of rubber and plastic products** (-3.4%), and **manufacture of tobacco products** (-0.8%). *(Tables 2-B and 4)*



Figure 3. Year-on-Year Changes in Net Sales (in percent):  
May 2020 - June 2021<sup>p</sup> (2018 = 100)



p – preliminary

Source: Philippine Statistics Authority

## CAPACITY UTILIZATION

### Average capacity utilization rate for manufacturing increased

Based on responding establishments, the average capacity utilization rate for the manufacturing sector in June 2021 grew by 67.7 percent from 66.6 percent in the previous month.

Eighteen (18) of the 22 industry divisions had more than 50 percent average capacity utilization rate which was led by **manufacture of furniture** (83.0%), **manufacture of other non-metallic mineral products** (78.7%), and **manufacture of tobacco products** (76.2%).  
(Table 6)

### More than one-fourth of the responding establishments operated at full capacity

The proportion of establishments that operated at full capacity (90% to 100%) was 26.5 percent of the total number of responding establishments. Meanwhile, 33.4 percent operated at 70 to 89 percent capacity, while 40.1 percent operated below 70 percent capacity.  
(Table B)

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Table B. Distribution of Responding Establishments by Capacity Utilization for Total Manufacturing: June 2021<sup>p</sup>

<b>Capacity Utilization</b>	<b>Number of Responding Establishments</b>	<b>Percent Share to Responding Establishments</b>
TOTAL	452	100.0
Below 50%	73	16.2
50% - 59%	61	13.5
60% - 69%	47	10.4
70% - 79%	63	13.9
80% - 89%	88	19.5
90% - 100%	120	26.5

p – preliminary

Details may not sum to totals due to rounding

Notes:

- 1) Results are based on the responses of establishments which were in operation during the reference month.
- 2) There were 30 establishments which responded but were not included in the tabulation as they temporarily or permanently ceased their business operations.

Source: Philippine Statistics Authority

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TABLE 1-A. Year-on-Year Growth Rate (%) of Value of Production Index  
by Industry Division: May 2021<sup>r</sup> and June 2021<sup>p</sup>  
(2018 =100)

INDUSTRY DIVISION	May 2021 <sup>r</sup>	June 2021 <sup>p</sup>
<b>Gainers</b>		
Manufacture of coke and refined petroleum products	1,473.2	3,230.0
Manufacture of computer, electronic, and optical products	50.1	27.6
Manufacture of food products	21.5	20.5
Manufacture of transport equipment	120.3	29.9
Manufacture of fabricated metal products, except machinery and equipment	259.7	140.0
Manufacture of electrical equipment	99.9	66.8
Manufacture of basic metals	134.2	27.8
Manufacture of other non-metallic mineral products	105.3	34.1
Manufacture of wood, bamboo, cane, rattan articles and related products	224.7	62.4
Manufacture of beverages	15.2	6.5
Manufacture of machinery and equipment except electrical	21.1	18.5
Manufacture of rubber and plastic products	47.8	8.2
Manufacture of leather and related products, including footwear	151.0	37.9
Manufacture of basic pharmaceutical products and pharmaceutical preparations	-2.1	19.2
Manufacture of paper and paper products	33.1	11.5
Other manufacturing and repair and installation of machinery and equipment	69.4	10.3
Manufacture of wearing apparel	119.3	9.0
Manufacture of furniture	71.9	15.6
Printing and reproduction of recorded media	-46.1	7.7
<b>Losers</b>		
Manufacture of tobacco products	-67.4	-65.1
Manufacture of chemical and chemical products	-0.5	-7.1
Manufacture of textiles	94.8	-11.0

p - preliminary, r- revised

Source: Philippine Statistics Authority

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TABLE 1-B. Year-on-Year Growth Rate (%) of Volume of Production Index by Industry Division: May 2021<sup>r</sup> and June 2021<sup>p</sup>  
(2018 = 100)

INDUSTRY DIVISION	May 2021 <sup>r</sup>	June 2021 <sup>p</sup>
<b>Gainers</b>		
Manufacture of coke and refined petroleum products	1,360.1	2,932.2
Manufacture of computer, electronic, and optical products	95.2	58.6
Manufacture of transport equipment	124.2	29.3
Manufacture of food products	18.7	16.8
Manufacture of fabricated metal products, except machinery and equipment	254.9	132.6
Manufacture of electrical equipment	101.4	65.3
Manufacture of other non-metallic mineral products	113.8	39.7
Manufacture of basic metals	124.5	20.9
Manufacture of machinery and equipment except electrical	32.0	26.2
Manufacture of wood, bamboo, cane, rattan articles and related products	285.6	85.7
Manufacture of beverages	12.6	4.8
Other manufacturing and repair and installation of machinery and equipment	80.6	17.7
Manufacture of basic pharmaceutical products and pharmaceutical preparations	-3.0	20.7
Manufacture of paper and paper products	34.3	12.0
Manufacture of leather and related products, including footwear	156.8	36.6
Manufacture of furniture	101.0	34.6
Manufacture of wearing apparel	127.1	15.9
Manufacture of rubber and plastic products	42.3	3.6
Printing and reproduction of recorded media	-46.4	6.6
<b>Losers</b>		
Manufacture of tobacco products	-66.8	-65.2
Manufacture of chemical and chemical products	-2.5	-10.8
Manufacture of textiles	85.4	-13.8

p - preliminary, r- revised

Source: Philippine Statistics Authority

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TABLE 2-A. Year-on-Year Growth Rate (%) of Value of Net Sales Index  
by Industry Division: May 2021<sup>r</sup> and June 2021<sup>p</sup>  
(2018 =100)

INDUSTRY DIVISION	May 2021 <sup>r</sup>	June 2021 <sup>p</sup>
<b>Gainers</b>		
Manufacture of basic metals	180.6	77.1
Manufacture of fabricated metal products, except machinery and equipment	192.4	179.3
Manufacture of transport equipment	113.0	22.5
Manufacture of other non-metallic mineral products	108.4	49.7
Manufacture of food products	11.2	9.2
Manufacture of coke and refined petroleum products	20.7	14.6
Manufacture of computer, electronic, and optical products	60.3	4.2
Manufacture of basic pharmaceutical products and pharmaceutical preparations	7.7	42.0
Other manufacturing and repair and installation of machinery and equipment	59.5	32.0
Manufacture of paper and paper products	25.9	16.3
Manufacture of chemical and chemical products	27.9	5.1
Manufacture of leather and related products, including footwear	143.7	44.7
Manufacture of electrical equipment	76.0	9.0
Manufacture of furniture	117.1	29.2
Manufacture of machinery and equipment except electrical	38.0	5.3
Printing and reproduction of recorded media	-42.3	21.1
Manufacture of textiles	122.8	10.8
Manufacture of rubber and plastic products	78.9	0.9
<b>Losers</b>		
Manufacture of beverages	8.2	-9.1
Manufacture of wood, bamboo, cane, rattan articles and related products	89.4	-8.5
Manufacture of wearing apparel	175.0	-2.5
Manufacture of tobacco products	-10.1	-0.5

p - preliminary, r- revised

Source: Philippine Statistics Authority

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TABLE 2-B. Year-on-Year Growth Rate (%) of Volume of Net Sales  
Index by Industry Division: May 2021<sup>r</sup> and June 2021<sup>p</sup>  
(2018 = 100)

INDUSTRY DIVISION	May 2021 <sup>r</sup>	June 2021 <sup>p</sup>
<b>Gainers</b>		
Manufacture of computer, electronic, and optical products	108.4	29.6
Manufacture of basic metals	169.0	67.5
Manufacture of fabricated metal products, except machinery and equipment	188.5	170.8
Manufacture of other non-metallic mineral products	117.0	55.9
Manufacture of transport equipment	116.8	22.0
Manufacture of food products	8.6	5.8
Other manufacturing and repair and installation of machinery and equipment	70.1	40.8
Manufacture of basic pharmaceutical products and pharmaceutical preparations	6.7	43.8
Manufacture of paper and paper products	27.0	16.8
Manufacture of coke and refined petroleum products	12.0	4.3
Manufacture of leather and related products, including footwear	149.3	43.3
Manufacture of machinery and equipment except electrical	50.4	12.0
Manufacture of furniture	153.8	50.4
Manufacture of electrical equipment	77.3	8.0
Printing and reproduction of recorded media	-42.5	19.8
Manufacture of chemical and chemical products	25.3	0.9
Manufacture of wood, bamboo, cane, rattan articles and related products	125.0	4.7
Manufacture of wearing apparel	184.8	3.6
Manufacture of textiles	112.1	7.3
<b>Losers</b>		
Manufacture of beverages	5.7	-10.6
Manufacture of rubber and plastic products	72.4	-3.4
Manufacture of tobacco products	-8.6	-0.8

p - preliminary, r- revised

Source: Philippine Statistics Authority

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**DENNIS S. MAPA, Ph.D.**  
Undersecretary  
National Statistician and Civil Registrar General

*Attachments:*

1. *Table 1. Value of Production Index (2018=100), Year-on-Year Growth Rates for Manufacturing Sector, January 2020 – June 2021<sup>P</sup>*
2. *Table 2. Volume of Production Index (2018=100), Year-on-Year Growth Rates for Manufacturing Sector, January 2020 – June 2021<sup>P</sup>*
3. *Table 3. Value of Net Sales Index (2018=100), Year-on-Year Growth Rates for Manufacturing Sector, January 2020 – June 2021<sup>P</sup>*
4. *Table 4. Volume of Net Sales Index (2018=100), Year-on-Year Growth Rates for Manufacturing Sector, January 2020 – June 2021<sup>P</sup>*
5. *Table 5. Producer Price Index (2018=100), Year-on-Year Growth Rates for Manufacturing Sector, January 2020 – June 2021<sup>P</sup>*
6. *Table 6. Average Capacity Utilization Rate by Industry Division: MISSI, January 2020 – June 2021<sup>P</sup>*
7. *Table 7. Distribution of Samples and Responding Establishments by Industry Division: MISSI, May 2021<sup>r</sup> and June 2021<sup>P</sup>*
8. *Table 8. Distribution of Samples and Responding Establishments by Industry Division: PPS, May 2021<sup>r</sup> and June 2021<sup>P</sup>*
9. *Technical Notes*

# TECHNICAL NOTES

## I. Introduction

The Monthly Integrated Survey of Selected Industries (MISSI) is one of the designated statistical activities undertaken by the Philippine Statistics Authority with the objective of providing flash indicators on the performance of growth-oriented industries in the manufacturing sector. The survey gathers monthly data on employment, compensation, production, net sales, inventories, and capacity utilization from manufacturing establishments.

The indicators generated from the MISSI are Value of Production Index (VaPI), Volume of Production Index (VoPI), Value of Net Sales Index (VaNSI), Volume of Net Sales Index (VoNSI) and Average Capacity Utilization Rate of the manufacturing sector.

### Rebasing

Starting with the January 2021 reference month, production and sales indices from the MISSI are rebased to 2018, from 2000 base period.

The major changes in the rebasing are (1) the industry structure or classification and (2) the weights which measure the relevance of the industries. The industry classification for the 2018-based series follows the 2009 Philippine Standard Industry Classification (PSIC), while the 2000-based series adopted the 1994 PSIC. For the rebased series, the weights at the base year were computed based on the final results of the 2018 Census of Philippine Business and Industry (CPBI). The results of the Annual Survey of Philippine Business and Industry will be used to update the weights annually until the next rebasing.

Another changes are on the methodology of index computation and on the estimation of average capacity utilization rate which are discussed in the next section.

## II. Method of Index Computation

The VaPI and VaNSI utilize the Paasche-type method of index computation where the basic data of weight computation are the value of production and sales, respectively. The sources of these data are



the CPBI for the base year and the Annual Survey of Philippine Business and Industry (ASPBI) for the succeeding years until the next rebasing.

## 1. Weights Computation

The weight of the industry group is the percent share of the industry to the total value of production for the industry division. The sum of the weights of all industry groups within an industry division is equal to 1.

The weight of the industry division is the percent share of the industry to the total value of production for the manufacturing sector. The sum of the weights of all industry divisions is equal to 1.

The same methodology is used in the computation of the weights for sales, but instead of value of production, data on sales is used.

## 2. Index Computation

The formula in the computation of indices are as follows:

### 1. Value of Production Index (VaPI)

#### a. Computation of Index for Industry Group Level

##### i. Monthly Index at the base year

$$VaPI_{ijm} = \frac{V_{ijm}}{V_{ij0}} \times 100$$

where:

$VaPI_{ijm}$  = VaPI for industry group j in industry division i at current month m

$V_{ijm}$  = total value of production for all sample establishments of industry group j in industry division i at current month m of the base year

$V_{ij0}$  = average monthly value of production at the base year

## ii. Monthly Index after the base year

$$VaPI_{ijm} = \frac{V_{ijm}}{V_{ij(m-1)}} \times VaPI_{ij(m-1)}$$

where:

- $VaPI_{ijm}$  = VaPI for industry group j in industry division i at current month m  
 $VaPI_{ij(m-1)}$  = VaPI for industry group j in industry division i for the previous month m-1  
 $V_{ijm}$  = total value of production for all sample establishments of industry group j in industry division i at current month m  
 $V_{ij(m-1)}$  = total value of production for all sample establishments of industry group j in industry division i for the previous month m-1

## b. Computation of Index for Industry Division Level

$$VaPI_{im} = \frac{1}{\sum_{j=1}^{p_i} \left( W_{ij} \times \frac{1}{VaPI_{ijm}} \right)}$$

where:

- $VaPI_{im}$  = VaPI for industry division i at current month m  
 $VaPI_{ijm}$  = VaPI for industry group j in industry division i at current month m  
 $W_{ij}$  = weight for industry group j in industry division i  
 $p_i$  = number of industry groups in industry division i

**Note:** Industry divisions with no industry groups uses the same computation of index as that for industry group level.

## c. Computation of Index for Total Manufacturing

$$VaPI_m = \frac{1}{\sum_{i=1}^{22} \left( W_i \times \frac{1}{VaPI_{im}} \right)}$$

where:

$VaPI_m$  = VaPI for the current month m

$VaPI_{im}$  = VaPI for industry division i at current month m

$W_i$  = weight for industry division i

## 2. Value of Net Sales Index (VaNSI)

The same methodology as the VaPI is used to compute the Value of Net Sales Index (VaNSI).

## 3. Volume of Production Index (VoPI)

### a. Computation for Index for Industry Group Level

$$VoPI_{ijm} = \frac{VaPI_{ijm}}{PPI_{ijm}}$$

where:

$VoPI_{ijm}$  = VoPI for industry group j in industry division i at current month m

$VaPI_{ijm}$  = VaPI for industry group j in industry division i at current month m

$PPI_{ijm}$  = PPI for industry group j in industry division i at current month m

### b. Computation of Index for Industry Division Level

$$VoPI_{im} = \frac{VaPI_{im}}{PPI_{im}}$$

where:

$VoPI_{im}$  = VoPI for industry division i at current month m

$VaPI_{im}$  = VaPI for industry division i at current month m

$PPI_{im}$  = PPI for industry division i at current month m

### c. Computation of Index for Total Manufacturing

$$VoPI_m = \frac{VaPI_m}{PPI_m}$$

where:

$VoPI_m$  = VoPI for total manufacturing at current month m

$VaPI_m$  = VaPI for total manufacturing at current month m

$PPI_m$  = PPI for total manufacturing at current month m

## 4. Volume of Net Sales Index (VoNSI)

The same methodology as VoPI is used to compute the Volume of Net Sales Index (VoNSI).

## 5. Average Capacity Utilization Rate

Capacity Utilization Rate is the ratio of total output to the maximum rated capacity of the establishment. The formulas in obtaining the Average Capacity Utilization Rate (AveCU) are the following:

### a. Computation of AveCU for Industry Group Level

$$AveCU_{ijm} = \frac{\sum_{c=1}^k (X_c \times f_{cijm})}{n_{rijm} + n_{tijm}}$$

where:

$AveCU_{ijm}$  = average capacity utilization rate for industry group j in industry division i at current month m

$X_c$  = midpoint of capacity utilization rate at interval c

$f_{cijm}$  = frequency of responding samples at interval c for industry group j in industry division i at current month m

$n_{rijm}$  = total number of responding (good) establishments for industry group j in industry division i at current month m



- $n_{tjkm}$  = total number of temporarily closed/closed establishments for industry group  $j$  in industry division  $i$  at current month  $m$
- $k$  = total number of capacity utilization intervals

### b. Computation of AveCU for Industry Division Level

$$AveCU_{im} = \sum_{i=1}^{p_i} (W_{ij} \times AveCU_{ijm})$$

where:

- $AveCU_{im}$  = average capacity utilization rate for industry division  $i$  at current month  $m$
- $W_{ij}$  = weight for industry group  $j$  in industry division  $i$
- $AveCU_{ijm}$  = average capacity utilization rate for industry group  $j$  in industry division  $i$  at current month  $m$
- $p_i$  = number of industry groups in industry division  $i$

### c. Computation of AveCU for Total Manufacturing

$$AveCU_m = \sum_{i=1}^{22} (W_i \times AveCU_{im})$$

where:

- $AveCU_m$  = average capacity utilization rate for total manufacturing at current month  $m$
- $W_i$  = weight for industry division  $i$
- $AveCU_{im}$  = average capacity utilization rate for industry division  $i$  at current month  $m$

## III. Computation of Growth Rates

**Year-on-year growth rates** are computed by dividing the current month index by the index in the same month of the previous year less 1.

#### IV. Imputation and Revision

Imputation is done for sample establishments that are in operation during the reference period but no response during the release date. Results are revised accordingly when the actual data are received and these revisions are reflected in the next release.

#### V. Industry Coverage

The MISSI utilizes the 2009 PSIC to classify industry divisions and industry groups. Twenty-two industry divisions of the 2009 PSIC were formed to comprise the industry coverage of the MISSI.

The table below presents the industry coverage of MISSI by 2009 PSIC code.

<b>2009 PSIC CODE</b>	<b>INDUSTRY DESCRIPTION</b>
C10	Manufacture of food products*
C11	Manufacture of beverages
C12	Manufacture of tobacco products
C13	Manufacture of textiles
C14	Manufacture of wearing apparel
C15	Manufacture of leather and related products, including footwear
C16	Manufacture of wood, bamboo, cane, rattan articles and related products*
C17	Manufacture of paper and paper products
C18	Printing and reproduction of recorded media
C19	Manufacture of coke and refined petroleum products
C20	Manufacture of chemical and chemical products*
C21	Manufacture of basic pharmaceutical products and pharmaceutical preparations
C22	Manufacture of rubber and plastic products*

2009 PSIC CODE	INDUSTRY DESCRIPTION
C23	Manufacture of other non-metallic mineral products*
C24	Manufacture of basic metals*
C25	Manufacture of fabricated metal products, except machinery and equipment*
C26	Manufacture of computer, electronic and optical products*
C27	Manufacture of electrical equipment*
C28	Manufacture of machinery and equipment except electrical*
C29,C30	Manufacture of transport equipment*
C31	Manufacture of furniture
C32,C33	Other manufacturing

\* Industry divisions categorized further into industry groups