## PRESS RELEASE

## PRODUCTION INDEX AND NET SALES INDEX (Monthly Integrated Survey of Selected Industries) November 2020

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Table A. Year-on-Year Growth Rates of Production Index, Net Sales Index, and Producer Price Index for Total Manufacturing (2000=100): November 2020p, October 2020r , and October 2019 (in Percent)

| TOTAL MANUFACTURING | $\begin{gathered} \text { NOVEMBER } \\ 2020^{\mathrm{p}} \end{gathered}$ | $\begin{aligned} & \text { OCTOBER } \\ & 2020^{\text {O20 }} \end{aligned}$ | $\begin{array}{\|c} \text { NOVEMBER } \\ 2019 \end{array}$ |
| :---: | :---: | :---: | :---: |
| Production Index (2000=100) |  |  |  |
| Value (VaPI) | -13.8 | -12.3 | -7.2 |
| Volume (VoPl) | -10.8 | -9.3 | -7.6 |
| Net Sales Index (2000=100) |  |  |  |
| Value (VaNSI) | -10.8 | -12.6 | -5.6 |
| Volume (VoNSI) | -7.6 | -9.6 | -6.0 |
| Producer Price Index (2000=100) | -3.4 | -3.3 | 0.4 |

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

## PRODUCTION

## Value of Production Index remained at a downward trend

The Value of Production Index (VaPI) for manufacturing posted a downturn with an annual rate of -13.8 percent in November 2020. This contraction in VaPI was faster than the reported decrease in the previous month of -12.3 percent and the annual decline in November 2019 of -7.2 percent. The November 2020 figure was the ninth consecutive month that VaPI had a negative growth rate. (Table A)

Contributory to the faster annual decline of VaPI for the manufacturing sector in November 2020 were the decreases in the indices of 17 industry groups. Among these industry groups, the top three were petroleum products (-66.0\%), tobacco products (-56.9\%) and printing (-50.8\%). (Tables 1-A, and 1)

## Volume of Production Index also declined further

The Volume of Production Index (VoPI) likewise dropped further at an annual rate of -10.8 percent in November 2020, from - 9.3 percent in the previous month. In November 2019, VoPI decreased at a slower rate of -7.6 percent. (Table A)

The downtrend in the VoPI for the sector was influenced by the two-digit decrements in the indices of 16 industry groups led by petroleum products (-61.9\%), tobacco products (-58.6\%) and printing (-51.5\%). (Tables 1-B, and 2)

Figure 1. Value and Volume of Production Index for Total Manufacturing October 2019 - November $2020^{\text {P }}(2000=100)$

p - preliminary
Source: Philippine Statistics Authority

Figure 2. Year-on-Year Growth Rates of Value and Volume of Production Index for Total Manufacturing October 2019 - November 2020 ${ }^{\text {p }}(2000=100)$

p - preliminary
Source: Philippine Statistics Authority

## NET SALES

## Value of Net Sales Index posted a slower negative growth rate

The Value of Net Sales Index (VaNSI) continued to drop at an annual rate of -10.8 percent in November 2020. This decline, however, was slower than the reported annual decrease of -12.6 percent in the previous month. The decline in November 2020 was the ninth consecutive month of contraction for VaNSI. In November 2019, the annual growth rate of VaNSI was recorded at -5.6 percent. (Table A)

Of the 20 industry groups, positive growths were observed in five (5) industry groups, namely, tobacco products (27.4\%), food manufacturing (18.3\%), basic metals (6.4\%), miscellaneous manufactures (4.6\%) and wood and wood products (3.7\%) in November 2020.

Contributing further to the narrower decline in VaNSI for the manufacturing sector in November 2020 were the slower annual decreases in the indices of nine (9) industry groups. Among these, three (3) were heavily weighted industry groups such as electrical machinery, petroleum products and transport equipment. (Tables 2$A$ and 3)

## Volume of Net Sales Index also contracted

The Volume of Net Sales Index (VoNSI) also recorded a year-on-year decrement of -7.6 percent in November 2020 compared with the faster drop of -9.6 percent in the previous month. In November 2019, the annual decrease was observed at -6.0 percent.

The slower decline in VoNSI for the manufacturing sector in November 2020 could be attributed to the two-digit increases observed in tobacco products ( $22.5 \%$ ), food manufacturing (17.2\%) and basic metals (10.8\%). Likewise, the slower decrease in the indices of seven (7) industry groups tapered off the rate of decline in the index for the sector. (Tables 2-B and 4)

Figure 3. Year-on-Year Changes in Net Sales:
October 2019 - November 2020ㅇ $(2000=100)$


## CAPACITY UTILIZATION

## Average capacity utilization rate for manufacturing dropped

Based on responding establishments, the average capacity utilization rate for the manufacturing sector in November 2020 was posted at 70.9 percent from 71.8 percent in the previous month.

Six of the 20 industry groups had at least 80 percent average capacity utilization rate which was led by machinery except electrical (91.7\%), followed by electrical machinery (85.4\%), and furniture and fixtures (84.4\%). (Table 6)

## One-fifth of responding establishments operated at full capacity

The proportion of establishments that operated at full capacity ( $90 \%$ to $100 \%$ ) was 20.1 percent of the total number of responding establishments. More than forty percent (45.6\%) operated at 70 to 89 percent capacity, while less than forty percent (34.3\%) operated below 70 percent capacity. (Table B)

## Table B. Distribution of Responding Establishments by Capacity Utilization for Total Manufacturing: November 20200

| Capacity <br> Utilization | Number <br> of Responding <br> Establishments | Percent Share <br> to Responding <br> Establishments |
| :---: | :---: | :---: |
| TOTAL | 274 | 100.0 |
| Below $50 \%$ | 30 | 10.9 |
| $50 \%-59 \%$ | 29 | 10.6 |
| $60 \%-69 \%$ | 35 | 12.8 |
| $70 \%-79 \%$ | 65 | 23.7 |
| $80 \%-89 \%$ | 60 | 21.9 |
| $90 \%-100 \%$ | 55 | 20.1 |

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 20 establishments which responded but were not included in the tabulation as they temporarily or permanently ceased their business operations.
Source: Philippine Statistics Authority

## cosm

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Attachments:

1. Table 1. Value of Production Index $(2000=100)$ Year-on-Year Growth Rates for Manufacturing Sector, January 2019 - November 2020
2. Table 2. Volume of Production Index (2000=100) Year-on-Year Growth Rates for Manufacturing Sector, January 2019 - November 2020
3. Table 3. Value of Net Sales Index (2000=100) Year-on-Year Growth Rates for Manufacturing Sector, January 2019 - November 2020
4. Table 4. Volume of Net Sales Index (2000=100) Year-on-Year Growth Rates for Manufacturing Sector, January 2019 - November 2020
5. Table 5. Producer Price Index (2000=100) Year-on-Year and Month-on-Month Growth Rates for Manufacturing Sector, January 2019 - November 2020
6. Table 6. Average Capacity Utilization Rate by Major Industry Group: MISSI, November 2019 - November 2020
7. Table 7. Distribution of Samples and Responding Establishments by Major Industry Group: MISSI, October 2020 and November 2020
8. Table 8. Distribution of Samples and Responding Establishments by Major Industry Group: PPS, October 2020 and November 2020
9. Technical Notes

TABLE 1-A. Year-on-Year Growth Rate (\%) of Value of Production Index by Industry Group: October and November 2020

$$
(2000=100)
$$

| INDUSTRY GROUP | November 2020 | October 2020 |
| :--- | ---: | ---: |
|  |  |  |
| Gainers |  |  |
| Basic metals |  |  |
| Miscellaneous manufactures | 7.7 | 14.7 |
| Chemical products | 1.7 | 9.9 |
|  |  | 5.5 |
| Losers |  |  |
| Petroleum products | -66.0 | -73.8 |
| Machinery except electrical | -34.0 | -40.9 |
| Tobacco products | -56.9 | -45.1 |
| Footwear and wearing |  |  |
| $\quad$ apparel | -33.9 | -44.9 |
| Transport equipment | -23.2 | -30.8 |
| Non-metallic mineral |  |  |
| $\quad$ products | -30.4 | -27.0 |
| Beverages | -16.6 | -4.8 |
| Electrical machinery | -3.3 | 0.7 |
| Printing | -50.8 | -47.9 |
| Fabricated metal products | -29.2 | -21.5 |
| Rubber and plastic products | -15.0 | -15.0 |
| Textiles | -20.8 | -26.8 |
| Furniture and fixtures | -30.4 | -7.7 |
| Paper and paper products | -10.4 | -17.3 |
| Leather products | -43.4 | -40.9 |
| Wood and wood products | -1.7 | -8.7 |
| Food manufacturing | -0.3 | 1.7 |

[^0]TABLE 1-B. Year-on-Year Growth Rate (\%) of Volume of Production Index by Industry Group: October and November 2020

$$
(2000=100)
$$

| INDUSTRY GROUP | November 2020 | October 2020 |
| :--- | :--- | :--- |

## Gainers

Basic metals $12.1 \quad 19.4$
Chemical products
5.1
10.0

Miscellaneous manufactures
14.7
13.1

Wood and wood products
2.9
-2.1
Losers
Petroleum products
-61.9
-71.0
Machinery except electrical
-30.0
-37.2
Tobacco products
Footwear and wearing apparel
-32.9
-43.5
Beverages
-20.7
-9.5
Non-metallic mineral products
-29.1
-25.3
Transport equipment
Printing
Fabricated metal products
-17.7
-26.5

Textiles
Rubber and plastic products
-51.5
-48.6

Furniture and fixtures
Food manufacturing
-30.0
-22.9

Electrical machinery
-20.8
-26.4

Leather products
-11.9
-11.7
$\begin{array}{lll}\text { Paper and paper products } & -0.3 & -8.0\end{array}$
p-preliminary, r-revised
Source: Philippine Statistics Authority

TABLE 2-A. Year-on-Year Growth Rate (\%) of Value of Net Sales Index by Industry Group: October and November 2020
$(2000=100)$

| INDUSTRY GROUP | November 2020 ${ }^{\text {p }}$ | October 2020 ${ }^{\text {r }}$ |
| :---: | :---: | :---: |
| Gainers |  |  |
| Food manufacturing | 18.3 | 12.5 |
| Tobacco products | 27.4 | 15.7 |
| Basic metals | 6.4 | 0.8 |
| Miscellaneous manufactures | 4.6 | -5.7 |
| Wood and wood products | 3.7 | -5.1 |
| Losers |  |  |
| Petroleum products | -43.5 | -49.9 |
| Machinery except electrical | -30.2 | -28.9 |
| Electrical machinery | -7.8 | -8.3 |
| Non-metallic mineral products | -35.9 | -38.6 |
| Transport equipment | -20.2 | -22.9 |
| Beverages | -12.1 | -6.7 |
| Footwear and wearing apparel | -15.3 | -37.4 |
| Fabricated metal products | -26.6 | -13.9 |
| Rubber and plastic products | -29.3 | -33.4 |
| Chemical products | -3.7 | 1.9 |
| Textiles | -16.8 | -17.2 |
| Printing | -21.9 | -24.4 |
| Paper and paper products | -11.3 | -12.1 |
| Furniture and fixtures | -23.2 | -6.2 |
| Leather products | -24.6 | -17.6 |

TABLE 2-B. Year-on-Year Growth Rate (\%) of Volume of Net Sales Index by Industry Group: October and November 2020

$$
(2000=100)
$$

| INDUSTRY GROUP | November 2020 | October 2020 |
| :--- | :--- | :--- |

## Gainers

Food manufacturing
17.2
10.9

Basic metals
Tobacco products
10.8
4.9

Miscellaneous
manufactures
22.5
11.4

Wood and wood products
7.4
-2.9
8.6
1.7

## Losers

Petroleum products
-36.7
-44.6
Machinery except electrical
$-26.1$
$-24.5$
Non-metallic mineral products
-34.7 -37.1
$\begin{array}{lrr}\text { Electrical machinery } & -5.3 & -5.1 \\ \text { Beverages } & -16.4 & -11.3\end{array}$
Transport equipment -14.5 -18.2
Footwear and wearing apparel
-14.1 -35.8
Fabricated metal products
-27.4
-15.5
Rubber and plastic products
-26.7
-30.8
Textiles
-16.8
-16.7
Furniture and fixtures
-35.0
-20.7
Printing
-22.9
-25.4
Leather products
-24.7
-17.8
Chemical products
-0.4
6.3
$\begin{array}{lll}\text { Paper and paper products } & -1.2 & -2.2\end{array}$
p-preliminary, r-revised
Source: Philippine Statistics Authority

## 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 2020 MISSI at the $3 / 4$-digit 2009 Philippine Standard Industrial Classification (PSIC) level are Value of Production Index (VaPI), Volume of Production Index (VoPI), Value of Net Sales Index (VaNSI), Volume of Net Sales Index (VoNSI) and capacity utilization of industries. The VoPI and VoNSI, however, are derived indicators using the 2020 Producer Price Index (PPI) as deflator.

## II. Method of Index Computation

The MISSI utilizes the Laspeyres-type method of index computation where the weights are based on the value of production from the Census of Philippine Business and Industry (CPBI).

For the 2020 MISSI index series with base year of 2000, the weights of the major industries and sub-industries are based on the results of the 2000 CPBI for manufacturing establishments with average total employment of 20 and over. The weights are computed from the value of products sold plus change in inventories.

The formula in the computation of indices and growth rates are as follows:

## 1. Value of Production Index (VaPI)

## a. Computation of Index for Industry Class Level

i. Initial Index

$$
\operatorname{VaPI}_{\mathrm{ijm}}=\frac{\mathrm{V}_{\mathrm{ijm}}}{\mathrm{~V}_{\mathrm{ij} 0}} \mathrm{x} 100
$$

where:

$$
\begin{aligned}
V_{a P I_{i j m}}= & \text { VaPI for the } \mathrm{i}^{\text {th }} \text { industry class of the } \mathrm{j}^{\text {th }} \text { industry } \\
& \text { group at the current month } \mathrm{m} \\
\mathrm{~V}_{\mathrm{ijm}}= & \text { total value of production for all sample } \\
& \text { establishments in the } \mathrm{i}^{\text {th }} \text { industry class of the } \mathrm{j}^{\text {th }} \\
& \text { industry group at the current month } \mathrm{m} \\
\mathrm{~V}_{\mathrm{ijo}}= & \text { average monthly value of production at base } \\
& \text { year } 0
\end{aligned}
$$

ii. Monthly Index

$$
\operatorname{VaPI}_{\mathrm{ijm}}=\frac{\mathrm{V}_{\mathrm{ijm}}}{\mathrm{~V}_{\mathrm{ij}(\mathrm{~m}-1)}} \times \operatorname{VaPI}_{\mathrm{ij}(\mathrm{~m}-1)}
$$

where:

| $\mathrm{VaPI}_{\text {ijm }}$ | $=$ VaPI for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$ |
| :---: | :---: |
| $\mathrm{VaPI}_{\mathrm{ij}(m-1)}$ | $=\mathrm{VaPl}$ for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group for the previous month m-1 |
| $V_{\text {ijm }}$ | $=$ total value of production for all sample establishments in the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$ |
| $V_{i j(m-1)}$ | $=$ total value of production for all sample establishments in the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group for the previous month $\mathrm{m}-1$ |

b. Computation of Index for Industry Group Level

$$
\mathrm{VaPI}_{\mathrm{jm}}=\sum_{\mathrm{i}=1}^{\mathrm{n}} \mathrm{~W}_{\mathrm{ij}} \times \operatorname{VaPI}_{\mathrm{ijm}}
$$

where:
$\mathrm{VaPI}_{\mathrm{jm}}=\mathrm{VaPI}$ for $\mathrm{j}^{\text {th }}$ industry group at current month m
$\mathrm{VaPI}_{\mathrm{ijm}}=\mathrm{VaPI}$ for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$
$\mathrm{W}_{\mathrm{ij}} \quad=$ Weight for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group
$n \quad=$ Number of industry class in the $j^{\text {th }}$ industry group
Same formula for industry groups without industry class
c. Computation of Index for Total Manufacturing

$$
\mathrm{VaPI}_{\mathrm{m}}=\sum_{\mathrm{j}=1}^{\mathrm{p}} \mathrm{~W}_{\mathrm{j}} \times \mathrm{VaPI}_{\mathrm{jm}}
$$

where:

| $\mathrm{VaPI}_{\mathrm{m}}$ | $=$ VaPI for the current month m |
| :--- | :--- |
| $\mathrm{VaPI}_{\mathrm{j} \mathrm{m}}$ | $=\mathrm{VaPI}$ for $\mathrm{j}^{\text {th }}$ industry group (2/3-digit) at current |
|  | month m |
| $\mathrm{W}_{\mathrm{j}}$ | $=$ Weight for the $j^{\text {th }}$ industry group |
| p | $=$ Number of industry groups $=20$ |

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

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

## 3. Volume of Production Index (VoPI)

a. Computation of Index for Industry Class Level

$$
\mathrm{VoPI}_{\mathrm{ijm}}=\frac{\mathrm{VaPI}_{\mathrm{ijm}}}{\mathrm{PPI}_{\mathrm{ijm}}}
$$

where:
VoPI $_{\text {ijm }}=$ VoPI for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$
$\mathrm{VaPI}_{\mathrm{ijm}}=\mathrm{VaPI}$ for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$
$\mathrm{PPI}_{\mathrm{ijm}}=\mathrm{PPI}$ for the $\mathrm{i}^{\text {th }}$ industry class of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$
b. Computation of Index for Industry Group Level

$$
\mathrm{VoPI}_{\mathrm{jm}}=\frac{\mathrm{VaPI}_{\mathrm{jm}}}{\mathrm{PPI}_{\mathrm{jm}}}
$$

where:
VoPI $_{i m}=$ VoPI for the $j^{\text {th }}$ industry group at the current month $m$
$\mathrm{VaPI}_{\mathrm{j} \mathrm{m}}=\mathrm{VaPI}$ for the $\mathrm{j}^{\text {th }}$ industry group at the current month m
PPI $\mathrm{l}_{\mathrm{m}}=\mathrm{PPI}$ for the $\mathrm{j}^{\text {th }}$ industry group at the current month m
c. Computation of Index for Total Manufacturing (1-digit PSIC)

$$
\mathrm{VoPI}_{\mathrm{m}}=\frac{\mathrm{VaPI}_{\mathrm{m}}}{\mathrm{PPI}_{\mathrm{m}}}
$$

where:
$\mathrm{VoPI}_{\mathrm{m}}=\mathrm{VoPI}$ for total manufacturing at the current month m
$\mathrm{VaPI}_{\mathrm{m}}=\mathrm{VaPI}$ for total manufacturing at the current month m
$\mathrm{PPI}_{\mathrm{m}}=\mathrm{PPI}$ for total manufacturing at the current month m

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

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

## 5. Capacity Utilization Rate

Capacity Utilization Rate is the ratio of total output to the maximum rated capacity of the establishment. Rated Capacity refers to the largest volume of output possible at which the factory can operate with an acceptable degree of efficiency taking into consideration unavoidable losses of productive time (i.e., vacation, holiday, and repair of equipment) and availability of raw materials.

The formulas in obtaining the Average Capacity Utilization Rate are the following:

## a. Computation of Index for Industry Class Level

$$
\mathrm{AveCU}_{\mathrm{m}}=\sum_{\mathrm{k}=1}^{\mathrm{n}}\left(\mathrm{CU}_{\mathrm{ikjm}} \times \frac{\operatorname{Prod}_{\mathrm{kjm}}}{\operatorname{Prod}_{\mathrm{ijm}}}\right)
$$

where:
AveCU $_{\mathrm{ijm}}=$ Average capacity utilization rate for the ith industry class in the $\mathrm{j}^{\text {th }}$ industry group at the current month m
$\mathrm{CU}_{\text {kji }}=$ Midpoint of the capacity utilization range reported by the $\mathrm{k}^{\text {th }}$ sample establishment in the ith industry class of the $j^{\text {th }}$ industry group at the current month m
$\operatorname{Prod}_{\mathrm{kjm}}=$ Value of production for the $\mathrm{k}^{\text {th }}$ sample establishment in the ith industry class for the $j^{\text {th }}$ industry group at the current month $m$
Prod $_{\mathrm{ijm}}=\begin{aligned} & \text { Total value of production for the ith industry class } \\ & \text { of the jth industry group at the current month } \mathrm{m}\end{aligned}$

## b. Computation of Index for Industry Group Level

## - With Industry Classes

$$
\operatorname{AveCU}_{\mathrm{j} m}=\sum_{\mathrm{j}=1}^{20}\left(\text { Ave } \mathrm{CU}_{\mathrm{ijm}} \times \mathrm{W}_{\mathrm{ij}}\right)
$$

where:

$$
\begin{aligned}
& \mathrm{AveCU}_{\mathrm{jm}}= \begin{array}{l}
\text { Average capacity utilization rate of the } j^{\text {th }} \text { industry } \\
\text { group at the current month } \mathrm{m}
\end{array} \\
& \text { AveCU }_{\mathrm{ijm}}=\begin{array}{l}
\text { Average capacity utilization rate of the } \mathrm{i}^{\text {th }} \text { industry } \\
\text { class of the } \mathrm{j}^{\text {th }} \text { industry group at the current month }
\end{array} \\
& \mathrm{W}_{\mathrm{ij}} \quad=\begin{array}{l}
\mathrm{m}
\end{array} \quad \begin{array}{l}
\text { Weight of the } i^{\text {th }} \text { industry class of the } \mathrm{j}^{\text {th }} \text { industry }
\end{array} \\
& \text { group }
\end{aligned}
$$

## - Without Industry Classes

$$
\operatorname{AveCU}_{\mathrm{m}}=\sum_{\mathrm{k}=1}^{\mathrm{n}}\left(\mathrm{CU}_{\mathrm{kjm}} \times \frac{\operatorname{Prod}_{\mathrm{kjm}}}{\operatorname{Prod}_{\mathrm{j} m}}\right)
$$

where:

$$
\begin{aligned}
& \text { AveCU }_{j \mathrm{jm}}= \begin{array}{l}
\text { Average capacity utilization rate of the } j^{\text {th }} \text { industry } \\
\\
\text { group at the current month } m
\end{array} \\
&=\begin{array}{l}
\text { Midpoint of the capacity utilization range reported } \\
\text { by the } \mathrm{k}^{\text {th }} \text { sample establishment in the } \mathrm{j}^{\text {th }} \text { industry }
\end{array} \\
& \begin{array}{l}
\text { group at the current month } m
\end{array} \\
& \text { Prod }_{\mathrm{kjm}}=\begin{array}{l}
\text { Value of production for the } \mathrm{k}^{\text {th }} \text { sample establishment } \\
\text { in the } \mathrm{j}^{\text {th }} \text { industry group at the current month } m
\end{array} \\
& \text { Prod }_{\mathrm{jm}} \quad=\begin{array}{l}
\text { Value of production for the } \mathrm{j}^{\text {jh }} \text { industry group at the } \\
\text { current month } \mathrm{m}
\end{array}
\end{aligned}
$$

c. Computation of Index for Total Manufacturing

$$
\operatorname{AveCU}_{\mathrm{m}}=\sum_{\mathrm{j}=1}^{20}\left(\text { Ave CU }_{\mathrm{j} \mathrm{~m}} \times \mathrm{W}_{\mathrm{j}}\right)
$$

where:
AveCU $_{m}=$ Average capacity utilization rate for total manufacturing at the current month $m$
$\mathrm{CU}_{\mathrm{j} \mathrm{m}} \quad=$ Average capacity utilization rate of the $\mathrm{j}^{\text {th }}$ industry group at the current month $m$
$W_{j} \quad=$ Weight of the $j^{\text {th }}$ industry group at the current $m$

## 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 2020 MISSI utilizes the 2009 PSIC to classify major industries and sub-industries. Twenty major industries of the 2009 PSIC were formed to comprise the industry coverage of the 2020 MISSI.

The table below presents the industry coverage of 2020 MISSI by 2009 PSIC code.

| 2009 PSIC CODE | INDUSTRY DESCRIPTION |
| :--- | :--- |
| C10 | Food manufacturing * |
| C11 | Beverages |
| C12 | Tobacco products |
| C13 | Textiles* |
| C14, C152 | Footwear and wearing apparel |
| C151 | Leather products |
| C16 | Wood and wood products* |
| C17 | Paper and paper products |
| C18 | Printing |
| C19 | Petroleum products* |
| C20,C21 | Chemical products* |
| C22 | Rubber and plastic products* |
| C23 | Non-metallic mineral products* |
| C24 | Basic metals* |
| C25,C3311 | Fabricated metal products |
| C262,C275,C28, | Machinery except electrical* |
| C263,C268,C3312,C332 |  |
| C261,C264,C27, | Electrical machinery* |
| C29301,C3314,C332 |  |
| C29 except C29301, | Transport equipment |
| C30,C3315 | Furniture and fixtures |
| C31 | Miscellaneous manufactures |
| C265,C266,C267,C32, | C3313,C3319 |

[^1]
[^0]:    p-preliminary, r-revised
    Source: Philippine Statistics Authority

[^1]:    * Industry groups categorized into industry classes

