

PRESS RELEASE

PRODUCTION INDEX AND NET SALES INDEX (Monthly Integrated Survey of Selected Industries) June 2022 (2018=100)

Date of Release: 09 August 2022, 9:00 AM

Reference No. <u>2022-336</u>

Table A. Year-on-Year Growth Rates (%) of Production Index, Net Sales Index, and Producer Price Index for Total Manufacturing (2018=100): June 2021, May 2022^r, and June 2022^p (in Percent)

TOTAL MANUFACTURING	JUNE 2021	MAY 2022 ^r	JUNE 2022 ^p
Production Index (2018=100)			
Value (<i>VaPI</i>)	440.5	8.0	9.8
Volume (VoPI)	448.2	0.9	2.4
Net Sales Index (2018=100)			
Value <i>(VaNSI)</i>	15.2	19.0	20.4
Volume (VoNSI)	16.9	11.2	12.4
Producer Price Index (2018=100)	-1.4	7.0	7.2

p - preliminary, r- revised



PRODUCTION

Value of Production Index continued to increase

The Value of Production Index (VaPI) maintained its upward trend with a year-on-year increment of 9.8 percent in June 2022, from an annual growth rate of 8.0 percent in the previous month. In June 2021, the VaPI accelerated with an annual rate of 440.5 percent. (Tables A and 1)

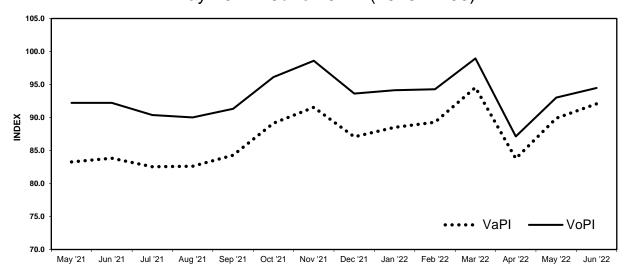
The annual growth in VaPI was attributed to the positive growth rates of 16 industry divisions. Among these, **manufacture of machinery and equipment except electrical** posted the highest annual growth with 51.8 percent in June 2022. On the other hand, the remaining six industry divisions recorded decrements in their production with **printing and reproduction of recorded media** registering the fastest annual decline of -25.1 percent. (Tables B.1 and 1)

Volume of Production Index likewise accelerated

The Volume of Production Index (VoPI) posted a faster year-on-year growth rate of 2.4 percent in June 2022, from its previous month's annual rate of 0.9 percent. In June 2021, VoPI upsurged at an annual rate of 448.2 percent. (Tables A and 2)

Thirteen (13) industry divisions contributed to the positive growth of VoPI in June 2022, of which the fastest growth was reported in **manufacture of machinery and equipment except electrical** at 45.3 percent. On the contrary, nine industry divisions recorded decreases with **printing and reproduction of recorded media** registering the fastest annual decline of -25.1 percent. (Tables B.2 and 2)

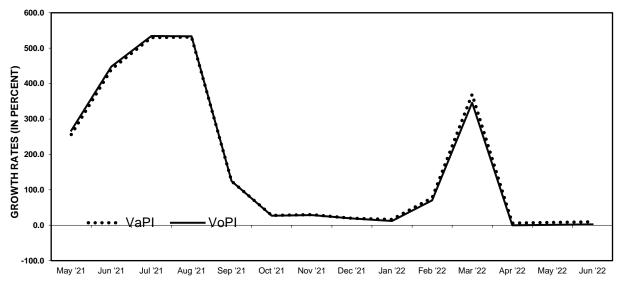
Figure 1. Value and Volume of Production Index for Total Manufacturing May 2021 - June 2022^p (2018 = 100)



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 2021 - June 2022^p (2018 = 100)



p - preliminary

Table B.1. Year-on-Year Growth Rate (%) of Value of Production Index by Industry Division: May 2022^r and June 2022^p (2018 =100)

INDUSTRY DIVISION	May 2022 ^r	June 2022 ^p
Gainers		
Manufacture of food products Manufacture of computer, electronic, and option	12.2 cal	17.2
products	15.5	14.0
Manufacture of chemical and chemical produc Manufacture of fabricated metal products,	ts 53.7	36.1
except machinery and equipment	33.1	32.4
Manufacture of transport equipment Manufacture of machinery and equipment	a/	12.5
except electrical Manufacture of other non-metallic mineral	62.5	51.8
products Manufacture of coke and refined petroleum	-5.6	13.1
products	7.1	5.0
Manufacture of paper and paper products Manufacture of wood, bamboo, cane, rattan	17.5	19.2
articles and related products	17.9	26.5
Manufacture of textiles	-11.5	30.1
Manufacture of rubber and plastic products Other manufacturing and repair and installation	12.4 n	5.1
of machinery and equipment	12.2	7.1
Manufacture of furniture	0.7	7.5
Manufacture of tobacco products	9.3	2.5
Manufacture of beverages	5.8	0.3
Losers Manufacture of basic metals	-18.6	-11.7
Printing and reproduction of recorded media	-11.4	-25.1
Manufacture of electrical equipment Manufacture of basic pharmaceutical products	-14.5	-12.6
and pharmaceutical preparations	-9.9	-15.1
Manufacture of wearing apparel Manufacture of leather and related products,	10.3	-3.8
including footwear	4.5	-0.5

p - preliminary, r - revised

a/ - less than 0.5 percent decrease Source: Philippine Statistics Authority

Table B.2. Year-on-Year Growth Rate (%) of Volume of Production Index by Industry Division: May 2022^r and June 2022^p (2018 = 100)

INDUSTRY DIVISION	May 2022 ^r	June 2022
Gainers		
Manufacture of computer, electronic, and option	cal	
products	12.1	10.5
Manufacture of fabricated metal products,		
except machinery and equipment	30.7	31.4
Manufacture of food products	2.8	6.8
Manufacture of chemical and chemical produc	ts 39.0	24.0
Manufacture of transport equipment	-2.1	9.0
Manufacture of machinery and equipment		
except electrical	52.1	45.3
Manufacture of paper and paper products	12.8	14.9
Manufacture of wood, bamboo, cane, rattan		
articles and related products	24.7	31.0
Manufacture of other non-metallic mineral		
products	-12.3	5.5
Manufacture of textiles	-13.9	26.6
Other manufacturing and repair and installatio		
of machinery and equipment	11.7	5.7
Manufacture of furniture	-0.9	4.8
Manufacture of rubber and plastic products	7.9	0.7
Losers		
Manufacture of coke and refined petroleum		
products	-11.1	-14.0
Manufacture of basic metals	-26.1	-18.5
Printing and reproduction of recorded media	-11.9	-25.1
Manufacture of beverages	1.6	-3.7
Manufacture of electrical equipment	-17.8	-15.4
Manufacture of wearing apparel	5.2	-9.9
Manufacture of basic pharmaceutical products		
and pharmaceutical preparations	-10.0	-16.1
Manufacture of tobacco products	6.9	-0.8
Manufacture of leather and related products,		
including footwear	2.4	-1.8

p - preliminary, r - revised

NET SALES

Value of Net Sales Index continued to exhibit growth

The Value of Net Sales Index (VaNSI) continued to register a double-digit annual increment in June 2022 with an annual rate of 20.4 percent, faster than the annual increase of 19.0 percent in the previous month. In June 2021, VaNSI grew at an annual rate of 15.2 percent. (Tables A and 3)

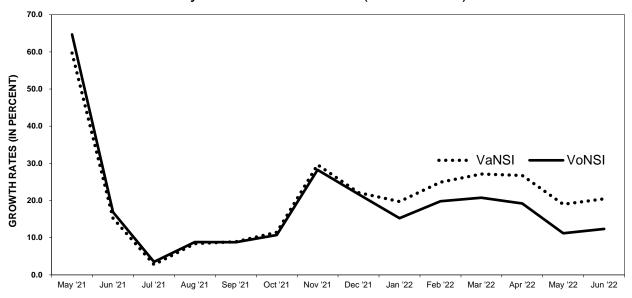
The increase in VaNSI for June 2022 was contributed by the upturns in sales of 15 of the 22 industry divisions. Among these, the top contributor was **manufacture of coke and refined petroleum products** with three-digit annual growth rate of 102.2 percent. In contrast, seven industry divisions exhibited declines during the period with **manufacture of furniture** registering the highest annual drop of -25.8 percent. (Tables C.1 and 3)

Volume of Net Sales Index gained further

The Volume of Net Sales Index (VoNSI), likewise, remained to record a two-digit year-on-year upturn in June 2022 with an annual rate of 12.4 percent, slightly faster than the May 2022 annual rate of 11.2 percent. In June 2021, VoNSI accelerated with an annual rate of 16.9 percent. (Tables A and 4)

Half of the 22 industry divisions reported positive growths which was led by manufacture of beverages and manufacture of coke and refined petroleum products with 68.7 percent and 65.7 percent annual growth rates, respectively. Meanwhile, the remaining half recorded annual decreases in their sales with manufacture of furniture posting the fastest annual decline of -27.9 percent. (Tables C.2 and 4)

Figure 3. Year-on-Year Changes in Net Sales (in percent): May 2021 - June 2022^p (2018 = 100)



p - preliminary

Table C.1. Year-on-Year Growth Rate (%) of Value of Net Sales Index by Industry Division: May 2022^r and June 2022^p (2018 =100)

INDUSTRY DIVISION	May 2022 ^r	June 2022 ^p
Gainers		,
Manufacture of coke and refined petroleum		
products	86.6	102.2
Manufacture of beverages	78.2	75.7
Manufacture of computer, electronic, and optic	_	
products	24.3	20.8
Manufacture of transport equipment	12.7	16.6
Manufacture of food products	2.2	8.4
Manufacture of chemical and chemical product		19.5
Manufacture of rubber and plastic products	9.6	24.0
Manufacture of machinery and equipment exce		
electrical	52.4	47.1
Printing and reproduction of recorded media	33.8	38.8
Manufacture of textiles	-9.6	34.0
Manufacture of paper and paper products	17.2	9.2
Manufacture of wearing apparel	29.0	8.7
Manufacture of other non-metallic mineral proc		1.8
Manufacture of electrical equipment	-2.7	1.2
Manufacture of leather and related products,		
including footwear	-11.3	1.2
Losers		
Manufacture of basic metals	-18.2	-18.5
Manufacture of fabricated metal products, exce	-	
machinery and equipment	-18.4	-19.9
Manufacture of furniture	-84.7	-25.8
Manufacture of basic pharmaceutical products		
pharmaceutical preparations	-2.8	-21.2
Manufacture of wood, bamboo, cane, rattan ar		
and related products	-23.9	-8.0
Other manufacturing and repair and installation		
machinery and equipment	14.0	-2.8
Manufacture of tobacco products	7.8	-1.8

p - preliminary, r- revised

Source: Philippine Statistics Authority Source: Philippine Statistics Authority

Table C.2. Year-on-Year Growth Rate (%) of Volume of Net Sales Index by Industry Division: May 2022r and June 2022p (2018 = 100)

INDUSTRY DIVISION	May 2022 ^r	June 2022 ^r
Gainers		
Manufacture of coke and refined petroleum		
products	54.9	65.7
Manufacture of beverages	71.0	68.7
Manufacture of computer, electronic, and opti	_	
products	20.7	17.0
Manufacture of transport equipment	10.4	13.0
Manufacture of machinery and equipment exc	=	
electrical	42.7	40.8
Manufacture of rubber and plastic products	5.3	18.7
Printing and reproduction of recorded media	33.2	38.7
Manufacture of chemical and chemical produc		9.0
Manufacture of textiles	-12.1	30.4
Manufacture of paper and paper products	12.6	5.2
Manufacture of wearing apparel	23.0	1.8
Losers		
Manufacture of basic metals	-25.7	-24.8
Manufacture of fabricated metal products, exc	cept	
machinery and equipment	-19.9	-20.5
Manufacture of furniture	-85.0	-27.9
Manufacture of food products	-6.4	-1.1
Manufacture of other non-metallic mineral		
products	-16.2	-5.0
Manufacture of basic pharmaceutical products	S	
and pharmaceutical preparations	-3.0	-22.0
Other manufacturing and repair and installation	on of	
machinery and equipment	13.5	-4.0
Manufacture of tobacco products	5.4	-5.0
Manufacture of wood, bamboo, cane, rattan		
articles and related products	-19.5	-4.8
Manufacture of electrical equipment	-6.4	-2.0
Manufacture of leather and related products,		
including footwear	-13.1	-0.1

p - preliminary, r - revised

CAPACITY UTILIZATION

Average capacity utilization rate for manufacturing slightly increased

Based on responding establishments, the average capacity utilization rate for manufacturing sector in June 2022 was reported at 71.1 percent, from 70.9 percent in the previous month.

There were 20 out of 22 industry divisions with more than 60 percent average capacity utilization rate, led by manufacture of fabricated metal products, except machinery and equipment (81.4%), manufacture of furniture (80.0%), and manufacture of wearing apparel (78.9%). (Table 6)

One-fourth of responding establishments operated at full capacity

The proportion of establishments that operated at full capacity (90% to 100%) was 25.7 percent of the total number of responding establishments. Meanwhile, 34.8 percent operated at 70 to 89 percent capacity, while 39.5 percent operated below 70 percent capacity. (Table D)

Table D. Distribution of Responding Establishments by Capacity Utilization for Total Manufacturing: June 2022^p

Capacity Utilization	Number of Responding Establishments	Percent Share to Responding Establishments
TOTAL	630	100.0
Below 50%	93	14.8
50% - 59%	70	11.1
60% - 69%	86	13.6
70% - 79%	100	15.9
80% - 89%	119	18.9
90% - 100%	162	25.7

p - preliminary

Notes:

- 1) Details may not sum to totals due to rounding.
- 2) Results are based on the responses of establishments which were in operation during the reference month.
- 3) There were ten (10) 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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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

$$VaPI_{ijm} = \frac{V_{ijm}}{V_{ii0}} x100$$

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_{ijo} = 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

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

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

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

where:

AveCU_{ijm} = average capacity utilization rate for industry group i

in industry division i at current month m

= midpoint of capacity utilization rate at interval c X_{c}

= frequency of responding samples at interval c for f_{ciim}

industry group j in industry division i at current

month m

= total number of responding (good) establishments n_{rijm}

for industry group j in industry division i at current

month m

= total number of temporarily closed/closed **n**_{tiim}

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

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

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

= number of industry groups in industry division i pi

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

Note:

A link factor has been used to adjust weight effects to measure the correct price change.

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.

2009 PSIC CODE	INDUSTRY DESCRIPTION	
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*	
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	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