

# PRESS RELEASE

# PRODUCTION INDEX AND NET SALES INDEX (Monthly Integrated Survey of Selected Industries) January 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): January 2021<sup>p</sup>, December 2020<sup>r</sup>, and January 2020<sup>r</sup> (in percent)

TOTAL MANUF	ACTURING	JANUARY 2021 <sup>p</sup>	DECEMBER 2020 <sup>r</sup>	JANUARY 2020 <sup>r</sup>
Production Index	x (2018=100)			
Value ( <i>Va</i>	aPI)	-21.1	-15.4	-1.7
Volume (Vo	oPI)	-16.7	-12.0	1.9
Net Sales Index (2018=100)				
Value (Va	aNSI)	-13.9	-6.5	8.3
Volume (Vo	oNSI)	-9.1	-2.8	12.3
Producer Price Index (2018=100)		-5.3	-3.8	-3.5

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





#### **PRODUCTION**

#### Value of Production continued to decrease

The Value of Production Index (VaPI) for manufacturing sector reflected an annual decrement of -21.1 percent in January 2021, from its previous month's annual drop of -15.4 percent. In January 2020, VaPI decreased by -1.7 percent. (*Table A*)

Contributory to the faster decline of VaPI for manufacturing sector in January 2021 were the reductions in the indices of 18 out of the 22 industry divisions. The industry divisions that led the contraction of VaPI were manufacture of wood, bamboo, cane, rattan articles and related products (-53.5%), manufacture of coke and refined petroleum products (-53.1%), and manufacture of machinery and equipment except electrical (-51.0%). (Tables 1-A and 1)

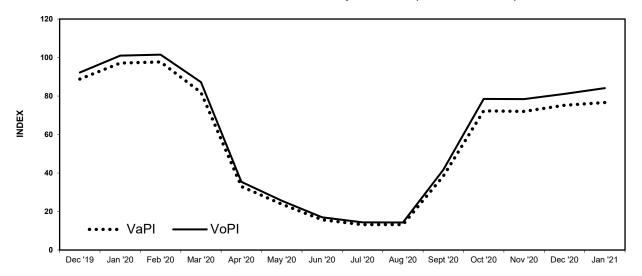
#### Volume of Production Index likewise dropped

The Volume of Production Index (VoPI), likewise, continued to drop at an annual rate of -16.7 percent in January 2021. This decline was faster than the -12.0 percent decrease registered in the previous month. In January 2020, the annual increase of VoPI was recorded at 1.9 percent. (*Table A*)

The faster downturn in VoPI was brought about by the annual decreases in 18 industry divisions led by manufacture of wood, bamboo, cane, rattan articles and related products (-53.4%), manufacture of machinery and equipment except electrical (-48.9%), and manufacture of tobacco (-42.6 %). (Tables 1-B and 2)

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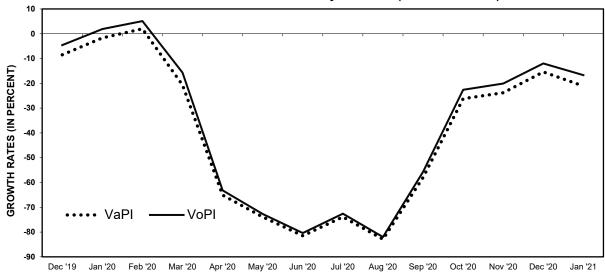
Figure 1. Value and Volume of Production Index for Total Manufacturing December 2019<sup>r</sup> - January 2021<sup>p</sup> (2018 = 100)



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

Figure 2. Year-on-Year Growth Rates of Value and Volume of Production Index for Total Manufacturing (in percent)

December 2019<sup>r</sup> - January 2021<sup>p</sup> (2018 = 100)



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

#### **NET SALES**

#### Value of Net Sales Index declined further

The Value of Net Sales Index (VaNSI) for manufacturing posted a downturn with an annual rate of -13.9 percent in January 2021. This contraction was faster than the reported decrease in the previous month of -6.5 percent. In January 2020, an annual increase of 8.3 percent was observed. (*Table A*)

Of the 22 industry divisions, negative growth rates were observed in 18 industry divisions. The top three were manufacture of machinery and equipment except electrical (-41.0%), manufacture of tobacco (-38.0%), and manufacture of other non-metallic mineral products (-36.3%). (Tables 2-A and 3)

#### **Volume of Net Sales Index likewise dropped**

The Volume of Net Sales Index (VoNSI) in January 2021, likewise, contracted at a faster annual rate of -9.1 percent compared with its -2.8 percent decrease in December 2020. In January 2020, VoNSI grew by 12.3 percent. (*Table A*)

The decline of VoNSI in January 2021 was due to the decreases in the indices of 17 industry divisions. Among these, the top three industry divisions with biggest declines were manufacture of tobacco (-40.1%), manufacture of machinery and equipment except electrical (-38.5%), and manufacture of other non-metallic mineral products (-35.1%). (Tables 2-B and 4)

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20 10 0 -10 GROWTH RATES (IN PERCENT)

Figure 3. Year-on-Year Changes in Net Sales (in percent): December 2019<sup>r</sup> - January 2021<sup>p</sup> (2018 = 100)

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

Apr '20

Feb '20

#### CAPACITY UTILIZATION

VaNSI

-80

#### Average capacity utilization rate for manufacturing slightly decreased

Jun '20

Jul '20

Aug '20

Sep '20

Based on responding establishments, the average capacity utilization rate for the manufacturing sector in January 2021 was posted at 46.1 percent from 49.1 percent in the previous month.

Seven (7) of the 22 industry divisions had at least 50 percent average capacity utilization rate, namely, manufacture of basic pharmaceutical products and pharmaceutical preparations (67.5%), manufacture of wood, bamboo, cane, rattan articles, and related products (56.6%). printing and reproduction of recorded media (56.1%), manufacture of paper and paper products, (55.0%), manufacture of computer, electronic, and optical products (52.0%), manufacture of rubber and plastic products (51.6%), and manufacture of furniture (50.0%). (Table 6)

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

The proportion of establishments that operated at full capacity (90% to 100%) was 20.9 percent of the total number of responding establishments. Meanwhile, 40.5 percent operated at 70 to 89 percent capacity, while more than one-third (38.6%) operated below 70 percent capacity. (*Table B*)

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

Capacity Utilization	Number of Responding Establishments	Percent Share to Responding Establishments
TOTAL	230	100.0
Below 50%	36	15.6
50% - 59%	24	10.4
60% - 69%	29	12.6
70% - 79%	42	18.3
80% - 89%	51	22.2
90% - 100%	48	20.9

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 5 establishments which responded but were not included in the tabulation as they temporarily or permanently ceased their business operations.

Source: Philippine Statistics Authority

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

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TABLE 1-A. Year-on-Year Growth Rate (%) of Value of Production Index by Industry Division: January 2021<sup>p</sup> and December 2020<sup>r</sup> (2018 =100)

Manufacture of electrical equipment  Manufacture of paper and paper products Printing and reproduction of recorded media  Losers  Manufacture of coke and refined petroleum products  Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of machinery and equipment except electrical  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of basic metals  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel Other manufacturing and repair and installation of machinery and equipment  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  Annufacture of rubber and plastic products  Manufacture of rubber and plastic products  Manufacture of rubber and plastic products	uary 21 <sup>p</sup>	Decemb 2020 <sup>r</sup>
Manufacture of transport equipment Manufacture of electrical equipment Manufacture of paper and paper products Printing and reproduction of recorded media  Losers  Manufacture of coke and refined petroleum products Final products Manufacture of computer, electronic, and optical products Manufacture of food products Manufacture of beverages Manufacture of machinery and equipment except electrical Manufacture of chemical and chemical products Manufacture of other non-metallic mineral products Manufacture of tobacco products Manufacture of basic metals Manufacture of basic metals Manufacture of basic pharmaceutical products Manufacture of basic pharmaceutical products and pharmaceutical preparations Manufacture of fabricated metal products, except machinery and equipment Manufacture of wearing apparel Other manufacturing and repair and installation of machinery and equipment Manufacture of textiles Manufacture of leather and related products, including footwear Manufacture of rubber and plastic products		
Manufacture of electrical equipment  Manufacture of paper and paper products Printing and reproduction of recorded media  Losers  Manufacture of coke and refined petroleum products  Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of basic metals  Manufacture of basic pharmaceutical products  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel Other manufacturing and repair and installation of machinery and equipment  Manufacture of textiles  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  Manufacture of rubber and plastic products  Manufacture of rubber and plastic products  Adamufacture of rubber and plastic products  Manufacture of rubber and plastic products	5.5	12.8
Manufacture of paper and paper products Printing and reproduction of recorded media  Losers  Manufacture of coke and refined petroleum products  Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of beverages  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of basic metals  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of textiles  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  Adanufacture of rubber and plastic products  Adanufacture of textiles  Manufacture of rubber and plastic products  Adanufacture of rubber and plastic products  Adanufacture of rubber and plastic products	3.8	-3.3
Losers  Manufacture of coke and refined petroleum products  Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  Adanufacture of rubber and plastic products  Adanufacture of rubber and plastic products	3.6 4.5	-5.3 15.4
Manufacture of coke and refined petroleum products -53 Manufacture of computer, electronic, and optical products -15 Manufacture of food products -16 Manufacture of beverages -18 Manufacture of machinery and equipment except electrical -53 Manufacture of chemical and chemical products -16 Manufacture of chemical and chemical products -16 Manufacture of other non-metallic mineral products -16 Manufacture of tobacco products -16 Manufacture of basic metals -16 Manufacture of basic metals -16 Manufacture of basic pharmaceutical products -16 Manufacture of basic pharmaceutical products and pharmaceutical preparations -26 Manufacture of fabricated metal products, except machinery and equipment -16 Manufacture of wearing apparel -29 Other manufacturing and repair and installation of machinery and equipment -16 Manufacture of furniture -29 Manufacture of furniture -29 Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -26 Manufacture of rubber and related products -26 Manufacture of rubber and related products -26 Manufacture of rubber and related products -26 Manufacture of rubber a	4.3 1.3	-20.1
Manufacture of coke and refined petroleum products  Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of textiles  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -29  -29  -29  -29  -29  -29  -29	1.3	-20.1
Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of textiles  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  Admanufacture of rubber and plastic products		
Manufacture of computer, electronic, and optical products  Manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  Manufacture of rubber and plastic products  -27  Manufacture of rubber and plastic products		
manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  - 26  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products	3.1	-47.3
Manufacture of food products  Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -29  -29  -29  -29  -29  -29  -20  -20		
Manufacture of beverages  Manufacture of machinery and equipment except electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of fextiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -29  -29  -29  -29  -29  -20  -20  -20	7.6	-14.1
Manufacture of machinery and equipment except electrical -5°  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products -2°  Manufacture of tobacco products -4°  Manufacture of basic metals -8°  Manufacture of wood, bamboo, cane, rattan articles and related products -5°  Manufacture of basic pharmaceutical products and pharmaceutical preparations -2°  Manufacture of fabricated metal products, except machinery and equipment -1°  Manufacture of wearing apparel -2°  Other manufacturing and repair and installation of machinery and equipment -1°  Manufacture of furniture -2°  Manufacture of textiles -3°  Manufacture of leather and related products, including footwear -1°  Manufacture of rubber and plastic products -2°  Manufacture of rubber and plastic products -2°	6.1	-1.7
Manufacture of machinery and equipment except electrical -5°  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products -2°  Manufacture of tobacco products -4°  Manufacture of basic metals -8°  Manufacture of wood, bamboo, cane, rattan articles and related products -5°  Manufacture of basic pharmaceutical products and pharmaceutical preparations -2°  Manufacture of fabricated metal products, except machinery and equipment -1°  Manufacture of wearing apparel -2°  Other manufacturing and repair and installation of machinery and equipment -1°  Manufacture of furniture -2°  Manufacture of textiles -3°  Manufacture of leather and related products, including footwear -1°  Manufacture of rubber and plastic products -2°  Manufacture of rubber and plastic products -2°	8.1	1.6
electrical  Manufacture of chemical and chemical products  Manufacture of other non-metallic mineral products  Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -29  -29  -29  -29  -29  -29  -29		
Manufacture of other non-metallic mineral products -22 Manufacture of tobacco products -40 Manufacture of basic metals -53 Manufacture of wood, bamboo, cane, rattan articles and related products -53 Manufacture of basic pharmaceutical products and pharmaceutical preparations -26 Manufacture of fabricated metal products, except machinery and equipment -14 Manufacture of wearing apparel -25 Other manufacturing and repair and installation of machinery and equipment -16 Manufacture of furniture -25 Manufacture of textiles -35 Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -26 Manufacture of rubber and plastic produc	1.0	-48.1
Manufacture of other non-metallic mineral products -22 Manufacture of tobacco products -40 Manufacture of basic metals -53 Manufacture of wood, bamboo, cane, rattan articles and related products -53 Manufacture of basic pharmaceutical products and pharmaceutical preparations -26 Manufacture of fabricated metal products, except machinery and equipment -14 Manufacture of wearing apparel -25 Other manufacturing and repair and installation of machinery and equipment -16 Manufacture of furniture -25 Manufacture of textiles -35 Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -26 Manufacture of rubber and plastic produc	6.4	8.7
Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -20  -21  -22  -23  -24  -26  -26  -27  -27  -28  -28  -29  -29  -29  -20  -20  -20  -20  -20		
Manufacture of tobacco products  Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -20  -21  -22  -23  -24  -26  -26  -27  -27  -28  -28  -29  -29  -29  -20  -20  -20  -20  -20	2.6	-22.5
Manufacture of basic metals  Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -28  -29  -29  -29  -29  -29  -29	0.6	-44.3
Manufacture of wood, bamboo, cane, rattan articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -28  -29  -29  -29  -29  -20  -20  -20  -20	8.6	6.6
articles and related products  Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -29  -29  -29  -29  -29  -29  -29		
Manufacture of basic pharmaceutical products and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -28  -29  -29  -29  -29  -29  -29	3.5	-61.3
and pharmaceutical preparations  Manufacture of fabricated metal products, except machinery and equipment  Manufacture of wearing apparel  Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -26  -27  -28  -28  -29  -29  -29  -29  -29  -29	0.0	01.0
Manufacture of fabricated metal products, except machinery and equipment -14 Manufacture of wearing apparel Other manufacturing and repair and installation of machinery and equipment -16 Manufacture of furniture -29 Manufacture of textiles -39 Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -2	64	4.8
machinery and equipment  Manufacture of wearing apparel Other manufacturing and repair and installation of machinery and equipment  Manufacture of furniture  Manufacture of textiles  Manufacture of leather and related products, including footwear  Manufacture of rubber and plastic products  -14 -25 -26 -27 -28 -28 -28 -28 -28 -28 -28 -28 -28 -28	0.4	7.0
Manufacture of wearing apparel Other manufacturing and repair and installation of machinery and equipment -16 Manufacture of furniture -29 Manufacture of textiles -39 Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -2	<i>4</i> ∩	-14.5
Other manufacturing and repair and installation of machinery and equipment -16  Manufacture of furniture -29  Manufacture of textiles -39  Manufacture of leather and related products, including footwear -16  Manufacture of rubber and plastic products -2		-34.4
machinery and equipment -16  Manufacture of furniture -29  Manufacture of textiles -39  Manufacture of leather and related products, including footwear -16  Manufacture of rubber and plastic products -2	J. <del>4</del>	-34.4
Manufacture of furniture -29 Manufacture of textiles -39 Manufacture of leather and related products, including footwear -19 Manufacture of rubber and plastic products -2	6 6	-7.7
Manufacture of textiles -39 Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -2		-7.7 -22.0
Manufacture of leather and related products, including footwear -16 Manufacture of rubber and plastic products -2		
including footwear -16 Manufacture of rubber and plastic products -2	ა.၁	-16.5
Manufacture of rubber and plastic products -2	6.6	40.0
		-43.2
	2.1	2.5
p - preliminary, r- rebased and revised Source: Philippine Statistics Authority		006-

TABLE 1-B. Year-on-Year Growth Rate (%) of Volume of Production Index by Industry Division: January 2021<sup>p</sup> and December 2020<sup>r</sup> (2018 = 100)

INDUSTRY DIVISION	January 2021 <sup>p</sup>	Decemb 2020 <sup>r</sup>
Gainers		400
Manufacture of transport equipment	7.1	16.8
Manufacture of electrical equipment	17.2	-0.6
Manufacture of paper and paper products	22.1	21.9
Printing and reproduction of recorded media	1.8	-23.3
Losers		
Manufacture of food products	-17.6	-3.3
Manufacture of coke and refined petroleum		
products	-35.3	-26.2
Manufacture of beverages	-20.5	-0.9
Manufacture of machinery and equipment except		
electrical	-48.9	-47.1
Manufacture of chemical and chemical products	-15.6	10.3
Manufacture of computer, electronic, and optical	10.0	10.0
products	-5.7	-13.0
Manufacture of other non-metallic mineral	-5.1	-13.0
products	-21.2	-22.1
•	-21.2 -42.6	-22.1 -45.0
Manufacture of tobacco products	-42.0	-45.0
Manufacture of wood, bamboo, cane, rattan	E2 4	64.2
articles and related products	-53.4	-61.3
Manufacture of basic metals	-7.7	13.0
Manufacture of basic pharmaceutical products		
and pharmaceutical preparations	-26.4	8.2
Manufacture of fabricated metal products, excep		
machinery and equipment	-12.4	-13.1
Manufacture of wearing apparel	-23.3	-32.7
Other manufacturing and repair and installation of	of	
machinery and equipment	-13.9	-5.7
Manufacture of textiles	-34.8	-15.1
Manufacture of furniture	-26.0	-17.1
Manufacture of leather and related products,		
including footwear	-14.2	-43.2
Manufacture of rubber and plastic products	-2.4	3.3
p - preliminary, r- rebased and revised		
Source: Philippine Statistics Authority		006-

TABLE 2-A. Year-on-Year Growth Rate (%) of Value of Net Sales Index by Industry Division: January 2021<sup>p</sup> and December 2020<sup>r</sup> (2018 =100)

INDUSTRY DIVISION	lanuary 2021 <sup>p</sup>	December 2020 <sup>r</sup>
Gainers		
Manufacture of transport equipment	11.8	18.8
Manufacture of wood, bamboo, cane, rattan article	_	10.0
and related products	45.0	-39.0
Manufacture of chemical and chemical products	5.1	23.7
Printing and reproduction of recorded media	39.0	-1.9
Losers		
Manufacture of computer, electronic, and optical		
products	-21.3	-7.6
Manufacture of coke and refined petroleum		
products	-34.2	-35.5
Manufacture of beverages	-23.3	1.1
Manufacture of other non-metallic mineral products	-36.3	-33.0
Manufacture of machinery and equipment except		
electrical	-41.0	-40.4
Manufacture of tobacco products	-38.0	-35.1
Manufacture of basic metals	-8.7	10.2
Manufacture of fabricated metal products, except		
machinery and equipment	-18.3	-21.9
Other manufacturing and repair and installation of		
machinery and equipment	-23.1	-0.8
Manufacture of paper and paper products	-12.8	-18.2
Manufacture of basic pharmaceutical products and		
pharmaceutical preparations	-15.7	10.6
Manufacture of rubber and plastic products	-6.1	-11.9
Manufacture of wearing apparel	-12.1	-4.2
Manufacture of textiles	-29.8	2.4
Manufacture of leather and related products,		
including footwear	-16.6	4.2
Manufacture of food products	-0.4	1.3
Manufacture of electrical equipment	-2.3	18.5
Manufacture of furniture	-12.6	-9.6

TABLE 2-B. Year-on-Year Growth Rate (%) of Volume of Net Sales Index by Industry Division: January 2021<sup>p</sup> and December 2020<sup>r</sup> (2018 = 100)

INDUSTRY DIVISION	January 2021 <sup>p</sup>	December 2020 <sup>r</sup>
Gainers		
Manufacture of transport equipment	13.6	23.1
Manufacture of wood, bamboo, cane, rattan	13.0	25.1
articles and related products	45.3	-39.1
Manufacture of chemical and chemical products	6.1	25.6
Printing and reproduction of recorded media	39.6	-5.8
Manufacture of electrical equipment	0.6	21.8
• •		
Losers		
Manufacture of computer, electronic, and optical		0.5
products	-9.9	-6.5
Manufacture of beverages	-25.5	-1.3
Manufacture of other non-metallic mineral	o= 4	
products	-35.1	-32.6
Manufacture of machinery and equipment excep		00.0
electrical	-38.5	-39.2
Manufacture of coke and refined petroleum	0.0	
products	-9.2	-9.7
Manufacture of tobacco products	-40.1	-36.0
Manufacture of basic metals	-7.7	16.7
Manufacture of food products	-2.2	-0.4
Manufacture of fabricated metal products, excep		00.0
machinery and equipment	-16.8	-20.6
Other manufacturing and repair and installation of		4.0
machinery and equipment	-20.6	1.3
Manufacture of basic pharmaceutical products	45.7	440
and pharmaceutical preparations	-15.7	14.2
Manufacture of rubber and plastic products	-6.4	-11.2
Manufacture of paper and paper products	-7.0	-13.6
Manufacture of textiles	-29.0	4.2
Manufacture of wearing apparel	-9.7	-1.7
Manufacture of leather and related products,	4.4.0	4.0
including footwear	-14.3	4.2
Manufacture of furniture	-7.9	-3.9

p - preliminary, r- rebased and 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 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 (ASPBI) will be used to update the weights annually until the next rebasing.

Additional changes were 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 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 one (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 one (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

$$VaPI_{ijm} = \frac{V_{ijm}}{V_{ij0}} x100$$

where:

VaPI<sub>ijm</sub> = VaPI for industry group j in industry division i at current month m

V<sub>ijm</sub> = 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<sub>ijo</sub> = 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<sub>ijm</sub> = VaPI for industry group j in industry division i at current month m

VaPI<sub>ij(m-1)</sub> = VaPI for industry group j in industry division i for the previous month m-1

V<sub>ijm</sub> = total value of production for all sample establishments of industry group j in industry division i at current month m

V<sub>ij(m-1)</sub> = 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

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

where:

VaPI<sub>im</sub> = VaPI for industry division i at current month m

VaPI<sub>ijm</sub> = 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<sub>i</sub> = 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<sub>m</sub> = VaPI for the current month m

VaPI<sub>im</sub> = VaPI for industry division i at current month m

W<sub>i</sub> = 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<sub>ijm</sub> = VoPI for industry group j in industry division i at current month m

VaPI<sub>ijm</sub> = VaPI for industry group j in industry division i at current month m

PPI<sub>ijm</sub> = 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<sub>im</sub> = VoPI for industry division i at current month m

VaPI<sub>im</sub> = VaPI for industry division i at current month m

PPI<sub>im</sub> = 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<sub>m</sub> = VoPI for total manufacturing at current month m VaPI<sub>m</sub> = VaPI for total manufacturing at current month m PPI<sub>m</sub> = 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. 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 (ACU) are the following:

# a. Computation of Average Capacity Utilization (ACU) at Industry Group Level

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

where:

ACU<sub>ijm</sub> = average capacity utilization rate for industry group j

in industry division i at current month m

X<sub>c</sub> = midpoint of capacity utilization rate at interval c

f<sub>cijm</sub> = frequency of responding samples at interval c for industry group j in industry division i at current month m

n<sub>rijm</sub> = total number of responding (good) establishments for industry group j in industry division i at current month m

n<sub>tijm</sub> = 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 Average Capacity Utilization (ACU) at Industry Division Level

$$ACU_{im} = \frac{\sum_{c=1}^{6} (X_c \times f_{cim})}{n_{rim} + n_{tim}}$$

where:

ACU<sub>im</sub> = average capacity utilization rate for industry division

i at current month m

X<sub>c</sub> = midpoint of capacity utilization rate interval c

f<sub>cim</sub> = frequency of responding samples at interval c for industry division i at current month m

n<sub>rim</sub> = total number of responding establishments for

industry division i at current month m

n<sub>tim</sub> = total number of temporary close/closed establishments for industry division i at current

month m

# c. Computation of Average Capacity Utilization (ACU) for Total Manufacturing

$$ACU_{m} = \frac{\sum_{c=1}^{6} (X_{c} \times f_{cm})}{n_{rm} + n_{tm}}$$

where:

ACU<sub>m</sub> = average capacity utilization rate for total

manufacturing at current month m

X<sub>c</sub> = midpoint of capacity utilization rate interval c

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$f_{cm}$	= frequency of responding samples at interval c for
	total manufacturing at current month m
$n_{\text{rm}}$	= total number of responding establishments for total
	manufacturing at current month m
$n_{tm}$	= total number of temporary close/closed
	establishments for total manufacturing at current month m
	monum

#### **III.** 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*
	NO0.

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

<sup>\*</sup> Industry divisions categorized further into industry groups

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