



# PRESS RELEASE

## PRODUCER PRICE INDEX April 2020

Release Date: 29 May 2020  
Reference No. 2020-085

**Table A Year-on-Year and Month-on-Month Growth Rates of Producer Price Index  
for Total Manufacturing  
April 2020, March 2020 and April 2019**

| Category                        | April<br>2020 | March<br>2020      | April<br>2019 |
|---------------------------------|---------------|--------------------|---------------|
| Producer Price Index (2000=100) | 131.6         | 132.4 <sup>r</sup> | 137.0         |
| Year-on-Year Growth (%)         | -3.9          | -5.1 <sup>r</sup>  | 2.5           |
| Month-on-Month Growth (%)       | -0.6          | -0.03 <sup>r</sup> | -1.9          |

*r - revised*

### Year-on-Year

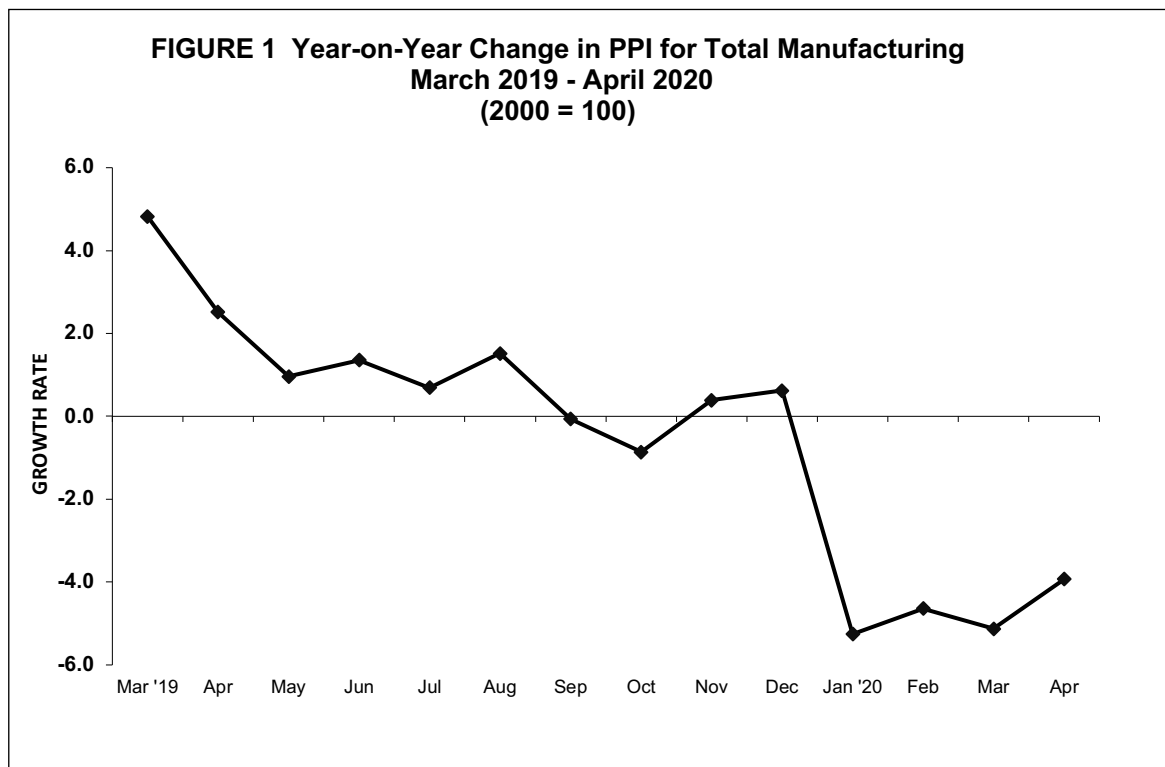
The Producer Price Index (PPI, 2000=100) for manufacturing remained at downtrend with an annual rate of -3.9 percent in April 2020. In the previous month, it dropped at a faster rate of 5.1 percent. On the contrary, the PPI in April 2019 increased at an annual rate of 2.5 percent.

The decline in PPI in April 2020 can be attributed to the contractions in the indices of 15 industry groups, four of which posted double-digit annual decrements as follows:

- **petroleum products** (-20.4%),
- **leather products** (-15.6%),
- **fabricated metal products** (-11.6%), and
- **footwear and wearing apparel** (-10.9%).



On the other hand, **furniture and fixtures**, which rose by 20.0 percent, led the five industry groups that posted annual increments. *Refer to Tables 1 and A-1.*

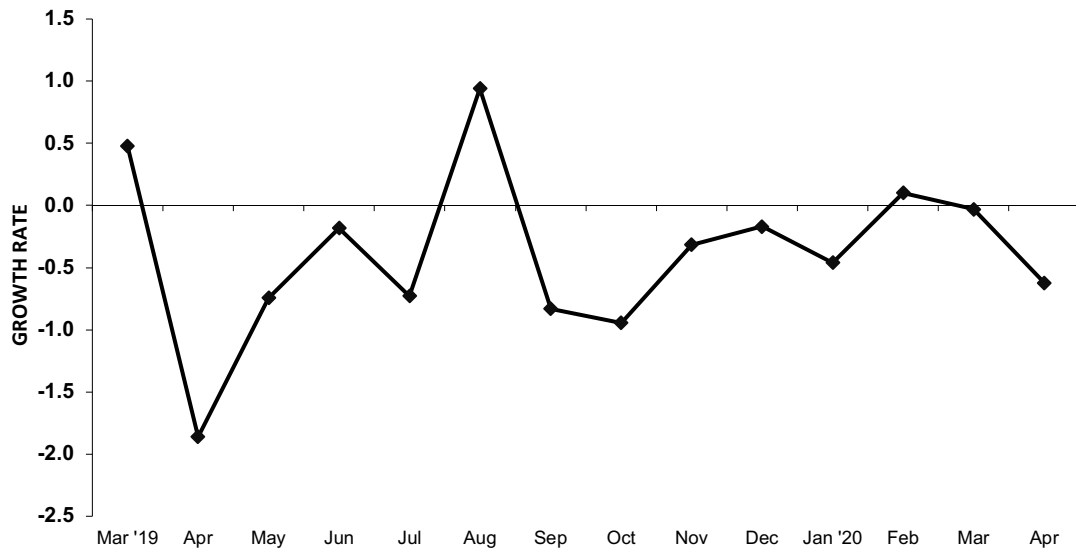


### Month-on-Month

On a month-on-month movement, the PPI slightly decreased at a monthly rate of 0.6 percent in April 2020, following a slower drop of 0.03 percent in March 2020. In April last year, PPI posted a sharper decline at a monthly rate of 1.9 percent.

Eleven industry groups posted negative monthly growth rates in April 2020 with **petroleum products** posting the highest monthly decrement of 11.4 percent. Furthermore, PPI for five industry groups posted monthly increments while the rest had zero monthly growth rates. *(Tables 1 and A-2)*

**FIGURE 2 Month-on-Month Change in PPI for Total Manufacturing  
March 2019 - April 2020  
(2000 = 100)**



**TABLE A-1 Year-on-Year Growth Rate (%) of Producer Price Index  
by Industry Group  
March 2020 and April 2020  
(2000=100)**

| INDUSTRY GROUP                         | April 2020 | March 2020         |
|--|------------|--------------------|
| Tobacco Products                       | 4.8        | 4.8 <sup>r</sup>   |
| Furniture & Fixtures                   | 20.0       | 20.4 <sup>r</sup>  |
| Beverages                              | 1.9        | 2.9 <sup>r</sup>   |
| Food Manufacturing                     | 0.3        | -0.1 <sup>r</sup>  |
| Printing                               | 1.8        | 1.8                |
| Petroleum Products                     | -20.4      | -10.2 <sup>r</sup> |
| Transport Equipment                    | -4.2       | -12.0 <sup>r</sup> |
| Electrical Machinery                   | -2.9       | -4.2 <sup>r</sup>  |
| Basic Metals                           | -6.2       | -6.9 <sup>r</sup>  |
| Chemical Products                      | -4.7       | -5.0 <sup>r</sup>  |
| Fabricated Metal Products              | -11.6      | -12.0 <sup>r</sup> |
| Footwear & Wearing Appara <sup>1</sup> | -10.9      | -10.4 <sup>r</sup> |
| Machinery Except Electrical            | -2.1       | -2.5 <sup>r</sup>  |
| Paper & Paper Products                 | -5.5       | -5.2 <sup>r</sup>  |
| Non - Metallic Mineral Products        | -2.0       | -3.4 <sup>r</sup>  |
| Rubber and Plastic Products            | -2.0       | -2.3 <sup>r</sup>  |
| Wood & Wood Products                   | -7.6       | -12.1 <sup>r</sup> |
| Leather Products                       | -15.6      | -14.5 <sup>r</sup> |
| Miscellaneous Manufactures             | -0.8       | -1.6 <sup>r</sup>  |
| Textiles                               | -0.6       | -6.8 <sup>r</sup>  |

*r - revised*

Note:

1) Industry groups are ranked according to their contributions to the overall growth rate

**TABLE A-2 Month-on-Month Growth Rate (%) of Producer Price Index  
by Industry Group  
March 2020 and April 2020  
(2000=100)**

| INDUSTRY GROUP                  | April 2020 | March 2020        |
|---------------------------------|------------|-------------------|
| Food Manufacturing              | 0.2        | 0.2 <sup>r</sup>  |
| Transport Equipment             | 0.3        | 0.2 <sup>r</sup>  |
| Non - Metallic Mineral Products | 0.4        | -0.2 <sup>r</sup> |
| Machinery Except Electrical     | 0.1        | b/ <sup>r</sup>   |
| Fabricated Metal Products       | 0.2        | b/ <sup>r</sup>   |
| Leather Products                | 0.0        | 0.0 <sup>r</sup>  |
| Tobacco Products                | 0.0        | a/ <sup>r</sup>   |
| Printing                        | 0.0        | 0.0               |
| Textiles                        | 0.0        | -1.0 <sup>r</sup> |
| Petroleum Products              | -11.4      | -5.6 <sup>r</sup> |
| Electrical Machinery            | -1.0       | 0.7 <sup>r</sup>  |
| Basic Metals                    | -0.9       | -0.8 <sup>r</sup> |
| Chemical Products               | -0.4       | 0.7 <sup>r</sup>  |
| Paper & Paper Products          | -0.7       | -0.9 <sup>r</sup> |
| Beverages                       | -0.1       | 0.1 <sup>r</sup>  |
| Rubber and Plastic Products     | -0.2       | -0.2 <sup>r</sup> |
| Furniture & Fixtures            | -0.5       | 0.1 <sup>r</sup>  |
| Wood & Wood Products            | -0.2       | -0.2 <sup>r</sup> |
| Footwear & Wearing Apparel      | -0.1       | b/ <sup>r</sup>   |
| Miscellaneous Manufactures      | b/         | 0.2 <sup>r</sup>  |

*r - revised*

*a/ - Less than 0.05 percent increase*

*b/ - Less than 0.05 percent decrease*

Note:

1) Industry groups are ranked according to their contribution to the overall growth rate



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## Technical Notes

- **Introduction**

The Philippine Statistics Authority generates various price indices, one of which is the Producer Price Index (PPI). The PPI is generated from the results of the Producer Price Survey (PPS) which is conducted nationwide. The survey gathers monthly producer prices of selected products included in the market basket of PPI from sample establishments.

The PPI is used as a deflator of the Monthly Integrated Survey of Selected Industries (MISSI) to derive indicators for the Volume of Production Index (VoPI) and Volume of Net Sales Index (VoNSI).

- **Method of Index Computation**

PPI utilizes the Paasche-type method of index computation. The weights are computed from the value of production from the Census of Philippine Business and Industry (CPBI) or Annual Survey of Philippine Business and Industry (ASPBI). The weights are updated as soon as new results of the ASPBI or CPBI are available and these are applied at the beginning of each survey year.

For the 2020 PPI, the weights of the industry groups and industry classes were computed based on the final results of the 2017 ASPBI for Manufacturing establishments with total employment of 20 and over.

The computation of PPI adopts the following formula:

- 1) Computation of Index for Industry Class Level (4-digit PSIC)
  - a. Initial Index

$$PPI_{ijm} = \frac{N}{\sum_{h=1}^N \frac{1}{p_{hm}/p_{ho}}} \times 100$$

where:

- $PPI_{ijm}$  = PPI for the  $i^{\text{th}}$  industry class (4-digit) of the  $j^{\text{th}}$  industry group (3-digit) at the current month  $m$
- $p_{hm}$  = producer price of commodity  $h$  at the current month  $m$
- $p_{ho}$  = average monthly producer price of commodity  $h$  at base year
- $N$  = total number of representative commodities for the  $i^{\text{th}}$  industry class

b. Monthly Index

$$PPI_{ijm} = PPI_{ijm-1} \times \frac{N}{\sum_{h=1}^N \frac{1}{p_{hm}/p_{hm-1}}}$$

where:

- $PPI_{ijm}$  = PPI for the  $i^{\text{th}}$  industry class (4-digit) of the  $j^{\text{th}}$  industry group (3-digit) at the current month  $m$   
 $PPI_{ijm-1}$  = PPI for the  $i^{\text{th}}$  industry class of the  $j^{\text{th}}$  industry group for the previous month  
 $p_{hm}$  = producer price of commodity  $h$  at the current month  $m$   
 $p_{hm-1}$  = producer price of commodity  $h$  for the previous month  
 $N$  = total number of representative commodities for the  $i^{\text{th}}$  industry class

Same formula for industry groups without sub-group

2) Computation of Index for Industry Group Level (3-digit PSIC)

$$PPI_{jm} = \frac{1}{\sum_{i=1}^p \left( W_{ij} \times \frac{1}{PPI_{ijm}} \right)}$$

where:

- $PPI_{jm}$  = PPI for the  $j^{\text{th}}$  industry group (3-digit) at the current month  $m$   
 $PPI_{ijm}$  = PPI for the  $i^{\text{th}}$  industry class (4-digit) of the  $j^{\text{th}}$  industry group at the current month  $m$   
 $W_{ij}$  = Weight of the  $i^{\text{th}}$  industry class of the  $j^{\text{th}}$  industry group  
 $p$  = number of industry classes

3) Computation of Index for Total Manufacturing (1-digit PSIC)

$$PPI_m = \frac{1}{\sum_{j=1}^q \left( W_j \times \frac{1}{PPI_{jm}} \right)}$$

where:

- $PPI_m$  = PPI for total manufacturing at the current month  $m$   
 $PPI_{jm}$  = PPI for the  $j^{\text{th}}$  industry group (3-digit) at the current month  $m$   
 $W_j$  = Weight of the  $j^{\text{th}}$  industry group

Note:

Starting with the January 2017 PPI, a link factor has been used to adjust weight effects to measure the correct price change.

- **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.

Month-on-month growth rates are computed by dividing the current month index by the previous month's index less 1.

- **Imputation and Revision**

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

- **Industry Coverage**

Starting with the January 2013 reference month, PPI utilizes the 2009 Philippine Standard Industrial Classification (PSIC) to classify sectors and industries. Selected industry classes of the 2009 PSIC were grouped to form the 20 industry groupings of the 2020 PPS. These are presented in the table below.

| <b>2009 PSIC CODE</b> | <b>INDUSTRY DESCRIPTION</b>  |
|-----------------------|------------------------------|
| 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* |



| 2009 PSIC CODE              | INDUSTRY DESCRIPTION           |
|-----------------------------|--------------------------------|
| C23                         | Non-metallic mineral products* |
| C24                         | Basic Metals*                  |
| C25                         | Fabricated metal products      |
| C262, C275, C28, C263, C268 | Machinery except electrical*   |
| C261, C264, C27, C29301     | Electrical machinery*          |
| C29 except C29301, C30      | Transport equipment            |
| C31                         | Furniture and fixtures         |
| C265, C266, C267, C32       | Miscellaneous manufactures     |

\* - Industry groups categorized into industry classes