



مركز الإحصاء
STATISTICS CENTRE



Producer Price Index (PPI)

Manufacturing (2012=100)

2015
First Quarter

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Introduction

In the light of the rapid economic and social development in the Emirate of Abu Dhabi, price indices and indicators are considered key tools that express changes in the prices of industrial and commercial production and services. Indices are also considered important economic indicators that provide accurate data to decision makers, economists, researchers, policy makers and other users of official statistics.

The remarkable economic development witnessed by Abu Dhabi Emirate has called for the construction of a statistical index that reflects the growth of the economic production sectors. Therefore, Statistics Centre – Abu Dhabi constructed the industrial producer price index for the Emirate of Abu Dhabi.

The Producer Price Index (PPI), which is calculated on a quarterly basis, cover the manufacturing sector. The PPI design is based on the main list of products of the industrial manufacturing activities in the International Standard Industrial Classification-revision 4 (ISIC4) which covers all manufacturing economic activities.

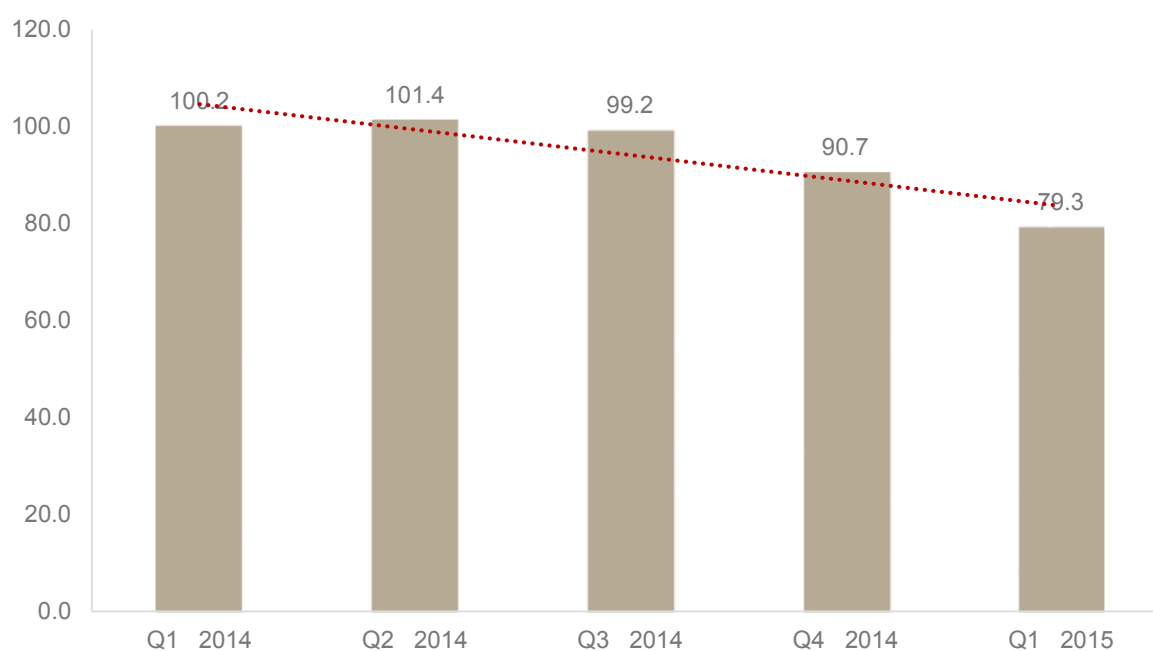
The calculated figures build a time series that measures the changes in the production prices during a specific period compared with the base year (2012). SCAD follows the best international practices and methodologies for the calculation of the PPI and the processing of data. Further development of the PPI will cover more activities such as mining and quarrying, and water and electricity.

Key Points

This publication presents the Producer Price Index results for the manufacturing industry in the first quarter of 2015 (base year 2012) .The key findings are as follows:

1. The PPI in the first quarter of 2015 decreased by 20.9% compared with the same quarter in 2014, falling to 79.3 points in the first quarter of 2015 from 100.2 points in the first quarter of 2014.
2. In the first quarter of 2015, the PPI fell by 12.6% compared with the fourth quarter of 2014, reaching 79.3 points in the first quarter of 2015 compared with 90.7 points in the fourth quarter of 2014

Figure 1: Quarterly Producer Price Index for 2014, 2015 (2012=100)



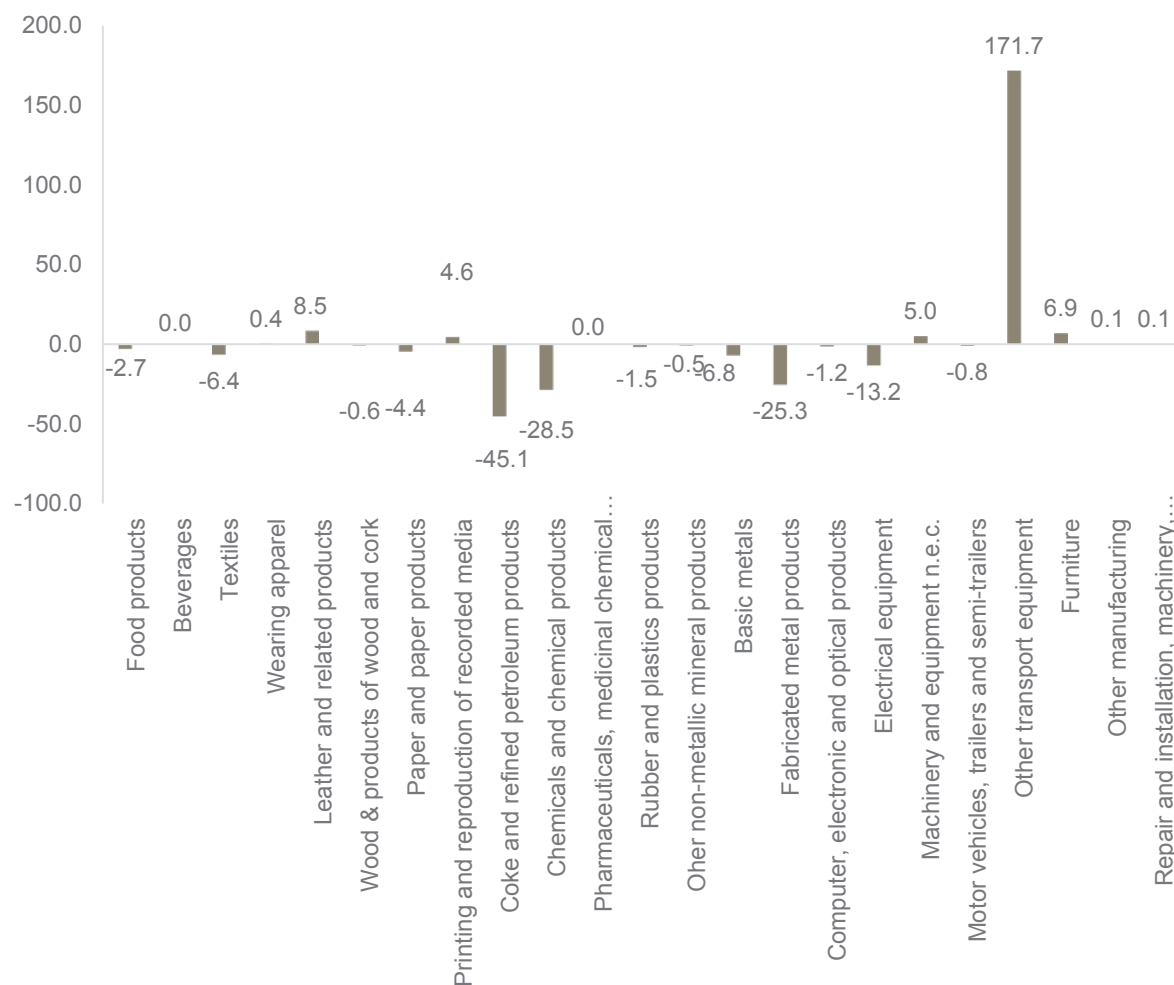
Source: Statistics Centre-Abu Dhabi

Producer Price Index for the first quarter of 2015 compared with the first quarter of 2014

The Producer Price Index decreased in the first quarter of 2015 by 20.9% compared with the same quarter in 2014. The drop resulted from changes (increases and decreases) in the indices of the economic activities. The key economic activity contributing to this drop was 'Manufacture of coke and refined petroleum products', which decreased by 45.1% while contributing to 76.4% of the total drop in producer prices. The price of LPG fell by 50.8% from the same quarter in 2014 while Unleaded Gasoline 98 and Unleaded Gasoline 95 decreased by 43.4% and 40.7% respectively. In addition, the producer price index of the 'Manufacture of chemicals and chemical products' activity decreased by 28.5%, contributing 23.5%. The decline came as a result of lower prices for gas products in addition to a decline in the price of plastic products. The 'Manufacture of fabricated metal products, except machinery and equipment' activity decreased by 25.3%, contributing 13.6%. The prices of the 'Manufacture of electrical equipment' activity decreased by 13.2% contributing 2.4% of the overall decrease. The 'Manufacture of basic metals' decreased by 6.8%, contributing 1.9% of the total drop.

The key activity that contributed to the rise in the producers price index, during the first quarter of 2015 compared with the corresponding quarter in 2014 was the 'Manufacture of other transport equipment' activity for which prices increased by 171.7%, resulting in an increase in the producer price index by 18.2%. As a result of rising production material (Steel) during this quarter, the prices of the 'Manufacture of leather and related products' increased by 8.5% contributing 0.02% of the overall change. In addition, the prices of the 'Manufacture of furniture' activity increased by 6.9% contributing 0.3% of the change in the general index. In addition, the producers price index of the 'Printing and reproduction of recorded media' activity increased by 4.6%, contributing 0.1% of the total rise, while the 'Manufacture of machinery and equipment n.e.c' activity increased by 5.0%, contributing 0.1% .

Figure 2: Relative change in the Producers Price Index in Q1 2015 compared with Q1 2014



Source: Statistics Centre-Abu Dhabi

Table 1 shows the contribution of each activity to the change in the general index in the first quarter of 2015 compared with the corresponding quarter in 2014.

Table 1: Contribution to change in the Producer Price Index by activity, Q1 2015 compared with Q1 2014

Isic4	Activity Name	Contribution %
	Manufacturing	100.0
10	Manufacture of food products	-0.4
11	Manufacture of beverages	0.0
13	Manufacture of textiles	-0.1
14	Manufacture of wearing apparel	0.0
15	Manufacture of leather and related products	0.0
16	Manufacture of wood and of products of wood and cork, except furniture manufacture of articles of straw and plaiting materials	0.0
17	Manufacture of paper and paper products	-0.1
18	Printing and reproduction of recorded media	0.1
19	Manufacture of coke and refined petroleum products	-76.4
20	Manufacture of chemicals and chemical products	-23.5
21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	0.0
22	Manufacture of rubber and plastics products	-0.1
23	Manufacture of other non-metallic mineral products	-0.3
24	Manufacture of basic metals	-1.9
25	Manufacture of fabricated metal products, except machinery and equipment	-13.6
26	Manufacture of computer, electronic and optical products	0.0
27	Manufacture of electrical equipment	-2.4
28	Manufacture of machinery and equipment n.e.c	0.1
29	Manufacture of motor vehicles, trailers and semi-trailers	0.0
30	Manufacture of other transport equipment	18.2
31	Manufacture of furniture	0.3
32	Other manufacturing	0.0
33	Repair and installation of machinery and equipment	0.0

Source: Statistics Centre-Abu Dhabi

Producer Price Index for the first quarter of 2015 compared with the fourth quarter of 2014

The industrial producers price index decreased by 12.6% in the first quarter of 2015 compared with the fourth quarter of 2014, mainly due to the decrease in the producers prices index of the 'Manufacture of coke and refined petroleum products' by 32.3%. The prices of the 'Manufacture of chemicals and chemical products' activity decreased by 19.6%, and 'Manufacture of electrical equipment' and 'Manufacture of basic metals' decreased by 13.1%,8.2% respectively. At the same time, the prices of the 'Manufacture of textiles' activities decreased by 7.3%.

The price index of the 'Manufacture of other transport equipment' activity increased by 30.1%, and similarly the 'Manufacture of fabricated metal products, except machinery and equipment' and 'Manufacture of wearing apparel' activities increased by 6.2% and 4.6% respectively. In addition, the 'Printing and reproduction of recorded media' and 'Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials' activities increased by 0.6% and 0.5% respectively .

Table 2 shows the producer price indices for the first quarters of 2015 and fourth quarters of 2014. The table also shows the relative importance (weights) and the relative change in the price index in the first quarter of 2015 compared with the fourth quarter of 2014 by economic activity.

Table 2: Relative change in the PPI in Q1 of 2015 compared with Q4 in 2014

Economic Activity	Weights	PPI_Q1 2014	PPI_Q4 2014	PPI_Q1 2015	Relative change Q1 2015 / Q4 2014
Manufacturing Industry	10,000.0	100.2	90.7	79.3	-12.6
Manufacture of food products	287.4	100.3	96.5	97.6	1.1
Manufacture of beverages	84.9	100.0	100.0	100.0	0.0
Manufacture of textiles	33.9	102.5	103.5	96.0	-7.3
Manufacture of wearing apparel	118.4	104.5	100.3	104.9	4.6
Manufacture of leather and related products	5.3	100.8	112.1	109.4	-2.4
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	65.8	102.5	101.4	101.9	0.5
Manufacture of paper and paper products	37.7	103.3	99.9	98.7	-1.2
Printing and reproduction of recorded media	33.1	104.8	109.0	109.7	0.6
Manufacture of coke and refined petroleum products	3,653.8	97.0	78.7	53.2	-32.3
Manufacture of chemicals and chemical products	1,690.4	101.9	90.6	72.9	-19.6
Manufacture of pharmaceuticals, medicinal chemical and botanical products	23.0	90.9	90.9	90.9	0.0
Manufacture of rubber and plastics products	126.3	93.8	91.2	92.4	1.3
Manufacture of other non-metallic mineral products	1,104.4	96.4	96.9	95.9	-1.0
Manufacture of basic metals	626.5	90.9	92.3	84.7	-8.2
Manufacture of fabricated metal products, except machinery and equipment	960.1	116.8	82.1	87.2	6.2
Manufacture of computer, electronic and optical products	11.7	96.9	95.8	95.8	0.0
Manufacture of electrical equipment	410.9	93.1	93.1	80.8	-13.1
Manufacture of machinery and equipment n.e.c.	59.0	100.0	103.6	105.0	1.4
Manufacture of motor vehicles, trailers and semi-trailers	12.1	114.2	113.1	113.3	0.1
Manufacture of other transport equipment	164.5	134.5	281.0	365.6	30.1
Manufacture of furniture	75.0	109.4	118.6	116.9	-1.4
Other manufacturing	7.5	89.5	92.1	89.5	-2.8
Repair and installation of machinery and equipment	408.0	99.6	99.5	99.7	0.2

Source: Statistics Centre-Abu Dhabi

Producer Price Index Methodology

Definition

The Producer Price Index (PPI) is an economic and statistical indicator that measures the change in the prices of industrial production (manufacturing industries) in two periods, the base period and the comparison period.

PPI importance

- The PPI reflects the trends of the industrial producers' prices in the Emirate of Abu Dhabi, which help decision makers, planners and researchers to make sound decisions that support the industry sector.
- The PPI is measures the change in the prices of industrial production and used by the government to process and create economic plans and strategies.
- The PPI used as a main deflator for economic indicators over time. It used to deflate time series of economic data, based on price changes that reflect inflation, to their real values in fixed prices within the national accounts estimates.
- The PPI used as a tool that monitors abrupt rises in sale and purchase contracts, especially futures contracts in which a future date for payment is set. It often recommended to list the items whose prices have increased for further study, and to identify their impact on input prices.
- The PPI used by international economic organizations such as the International Monetary Fund as a tool for comparison and evaluation.

PPI representation and coverage level

The Producers Price Index (PPI) covers all manufacturing activities in the Emirate of Abu Dhabi; representing all twenty three manufacturing activities based on the International Standard Industrial Classification, revision 4 (ISIC4/2-digit). At the current time, SCAD is developing the PPI to include the 'Mining and quarrying' activities and 'Water and electricity'.

Data Collection

Prices are collected on a monthly basis from the sampled establishments through field visits or e-mail; these 65 establishments are carefully selected to represent the manufacturing industry. SCAD field enumerators, who have been appropriately prepared and trained for this purpose, explain the items of the questionnaire and the required data to ensure the collection of accurate data. Field enumerators are also provided with questionnaires that are specially designed for this purpose.

Data source

The quantities of 284 products are collected from 65 establishments at the 2-digit level. The sample distribution covers 52 establishments in the Abu Dhabi region and 13 establishments in the Al Ain region.

PPI periodicity

The PPI is designed on a quarterly basis; while prices are collected on a monthly basis. The PPI sample is fixed and all establishments included in the sample are visited by enumerators to collect the prices of the establishment's key products.

Auditing

The auditing phase aims to validate all data to ensure consistency. It also includes comparing the prices against the quantities and the prices of the month with the previous month to avoid input errors, collection errors and incorrect specification of products.

PPI calculation

The PPI is calculated using the 'Laspeyres Equation':

$$PPI_L = \sum \frac{q_{1i}}{q_{0i}} \times W_{0i}$$

The quarterly average price of the product is calculated using the arithmetic mean of the product price during the three months. Then, the price level is calculated for the product in each establishment. Then, the higher levels are aggregated using the product weights within the same economic activity.

Base year

The year 2012 was adopted as a base year for the industrial producers price index, while 2009 was adopted as a base year for the weights used in the PPI, when the latest economic data was provided from field surveys. Accordingly, the base year for the PPI weights is 2009 and 2012 for the PPI prices.

Weights and relative importance

The weights used in the PPI calculation depend on the available data of the economic establishment census, which was conducted in 2010. The census has provided a frame for the economic establishments in Abu Dhabi Emirate. This frame was used to design and select the 2009 Economic Survey's sample. The PPI sample was drawn as a partial sample of the 2009 Economic Surveys sample to represent the index for the industrial producers' prices. The data provided on production and revenues in the partial sample was used to calculate weights at the two-digit economic activity level. Weights were also calculated at establishment level. Weights at item level were calculated through the proportional distribution of the establishment's weight by its key products.

Relative importance of manufacturing activities in 2012

Activity name	Weight
Manufacturing industry	10,000.0
Manufacture of food products	287.4
Manufacture of beverages	84.9
Manufacture of textiles	33.9
Manufacture of wearing apparel	118.4
Manufacture of leather and related products	5.3
Manufacture of wood, wood products and cork, except furniture, and manufacture of straw items and plaiting material	65.8
Manufacture of paper and paper products	37.7
Printing and reproduction of recorded media	33.1
Manufacture of coke and refined petroleum products	3653.8
Manufacture of chemicals and chemical products	1690.4
Manufacture of pharmaceuticals, medicinal chemicals and botanical products	23.0
Manufacture of rubber tyres and pipes, and renewal and restructure of outer surfaces of rubber tyres	126.3
Manufacture of other non-metallic mineral products	1104.4
Manufacture of basic metals	626.5
Manufacture of fabricated metal products, except machinery and equipment	960.1
Manufacture of computer, electronic and optical products	11.7
Manufacture of electrical equipment	410.9
Manufacture of machinery and equipment n.e.c.	59.0
Manufacture of motor vehicles, trailers and semi- trailers	12.1
Manufacture of other transport equipment	164.5
Manufacture of furniture	75.0
Other manufacturing industries	7.5
Repair and installation of machinery and equipment	408.0

Source: Statistics Centre-Abu Dhabi

Producer's prices

Compiling PPI depends on monthly price data for the main products of establishments, using producer prices (at factory gate price) without any production tax. The prices cover local production and exports.

Publishing

SCAD publishes the PPI quarterly report by the third month after each reference quarter and it is made accessible to everyone on the SCAD website.

Next release

The PPI for the second quarter of 2015 will be released in September 2015. For more information about price indices and other official statistics, please visit the website of the Statistics Centre Abu Dhabi: www.scad.ae.

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