

INFORMATION NOTE ON THE REVISION
OF THE PRODUCER PRICE INDEX IN INDUSTRY (PPI)

Base year 2010 = 100.0

Piraeus, February 2015

Revision of the Producer Price Index in Industry (PPI), 2010=100.0

General Information

The Producer Price Index in Industry (PPI) is revised every five (5) years, similarly to the other variables of the Short-Term Statistics Regulation (EC) 1165/98, and in particular with base year the calendar year ending in 0 or 5, in accordance with Article 11 of the Regulation.

The index was first compiled and transmitted to Eurostat in 1982 with base year 1980=100.0, and from the beginning of its compilation it covered the needs of the European Union.

The Producer Price Indices (Output Price Indices) are internationally the most important and appropriate indicators for monitoring prices in the first stage of the transactions of goods and services and they replaced other similar indices, both in international organizations and national bodies, in the context of the economic and financial policy.

The announcement of the revised Producer Price Index in Industry with base year 2010=100.0, repeals the previously compiled time series with base year 2005=100.0, which are now replaced by the revised Index..

The development of the methodology of the PPI in industry is based on the methodological manuals of Eurostat and Regulation (EC) 1158/2005 of the European Parliament and of the Council amending and supplementing the basic Regulation (EC) 1165/98 on short-term statistics.

Purpose, theoretical background

The purpose of the Producer Price Index in Industry (PPI) is to measure the monthly rates of change in the prices of goods that are produced in the domestic market and are available in this market or are exported.

The composition of two sub-indices for the domestic and non-domestic market determines the change of the PPI from the detailed level of the product up to the level of the general index.

The measurement of the monthly change in producer prices provides information on the short and long-term evolution of economic activity at national and European level; it allows to monitor on a monthly basis the prices at the various stages of the manufacturing process and to calculate the actual changes in economic activities, thus providing information to the business community on the evolution of the markets and industries.

The purpose of the revision is to adjust the index according to the transactions (sales of products) during the base year, i.e., the year 2010. Sales are broken down to sales to the domestic market and sales to the non-domestic market. Sales to the non-domestic market are further broken down to sales to euro zone countries and sales to other countries outside the euro zone. On the basis of the latter, two sub-indices are compiled for the non-domestic market, pursuant to the requirements of the Economic and Monetary Union: the index for Eurozone countries (EZ) and the index for Non-Eurozone countries (3X).

Base period – Compiled indices

The base period for compiling and calculating the revised PPI in Industry is the year 2010. According to the aforementioned breakdown of markets, the following indices are compiled:

- PPI overall (both domestic and non-domestic market)
- PPI for the Domestic Market
- PPI for the Non-Domestic Market
- PPI for the Non-Domestic Market - Eurozone countries
- PPI for the Non-Domestic Market – Non-Eurozone countries

Statistical classifications – Product selection

NACE Rev.2 is implemented for the classification of economic activities [Regulation (EC) 1893/2006] and CPA2008 for the classification of products [Regulation (EC) 451/2008].

The criteria for the selection of the products were the volume of sales in the economic activity in which they are classified (i.e., the most representative species within the economic activity are selected) and the possibility to collect prices for these products over time.

More specifically, at the level of 6-digit NACE Rev.2 code, 407 products were selected for the domestic market and 174 products for the non-domestic market. Out of the 174 products of the non-domestic market, 151 are exported to Euro zone countries and 156 to Non-Eurozone countries.

Weighting sources – Calculation of weights

In order to calculate the weights of the compiled indices, the following annual data for the year 2010 have been taken into account:

- The results of the Prodcum survey (value of production and sales by product at 8-digit code of Prodcum);
- Export data from foreign trade statistics, only for the manufacturing enterprises, in order to exclude exports of products which had been imported. The classification used in foreign trade statistics is the Combined Nomenclature (CN8), which corresponds to the Prodcum classification;
- Export data from the survey on the Turnover Index in Industry, which are based on a sample of enterprises and are compared with the data of foreign trade statistics;
- The results of the Annual Statistical Survey on Mines;
- Specific calculations for olive oil, other agricultural products and slaughtering production, in combination with data on the value of sales from the Economic Accounts for Agriculture and data on input and output indices in agriculture;
- The data of the Annual Water Survey;
- Administrative data sources, such as data on natural gas distribution and production of lignite and electricity.

The weights for total market, domestic and non-domestic market were calculated on the basis of sales data from the Prodcum survey and export data from foreign trade statistics which were compared with the turnover data from the Annual Manufacturing Survey.

The compilation of the PPI in industry presupposes: a) that the weighting coefficients of the products are based on their sales value and b) the possibility to collect prices for these products over time. The weights and the prices refer to product level (CPA 2008 classification).

The weighting coefficients which resulted from the sales of industrial products in the domestic and non domestic markets, broken down to euro-zone and non euro-zone countries, by main industrial groupings, are presented in the following table.

Table 1: Weighting coefficients of Producer Price Indices in Industry for the overall market (Domestic and Non-domestic) by Main Industrial Groupings (MIGS), 2010=100.0

Main Industrial Groupings (MIGs)	Total	Domestic market	Non Domestic market		
			Total	Euro-zone countries	Non Euro-zone countries
Total Industry	100.000	75.379	24.621	8.443	16.178
Intermediate goods	26.426	16.979	9.447	4.079	5.368
Capital goods	3.189	2.589	599	198	401
Durable consumer goods	1.210	972	238	136	101
Non-durable consumer goods	26.878	21.803	5.075	3.019	2.056
Energy goods	42.298	33.036	9.262	1.011	8.251

Chart 1
Weighting coefficients of the MIGs for the overall market, 2010

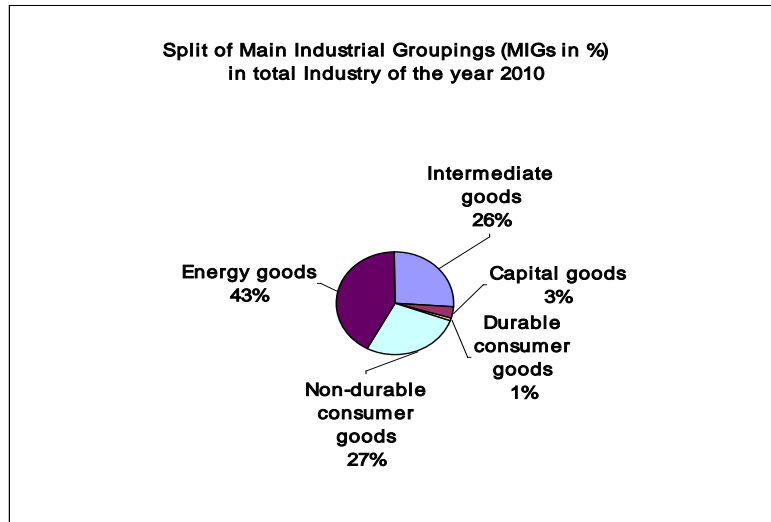


Chart 2
Weighting coefficients of the MIGs for the overall, domestic and non-domestic market, 2010

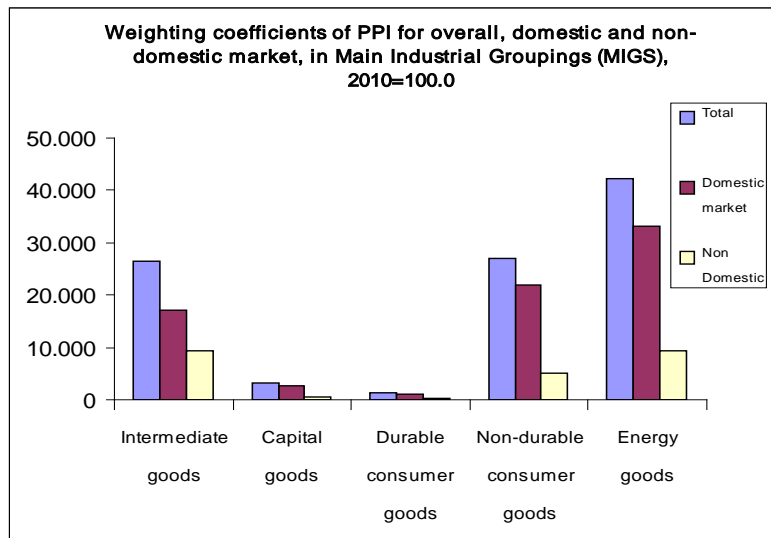
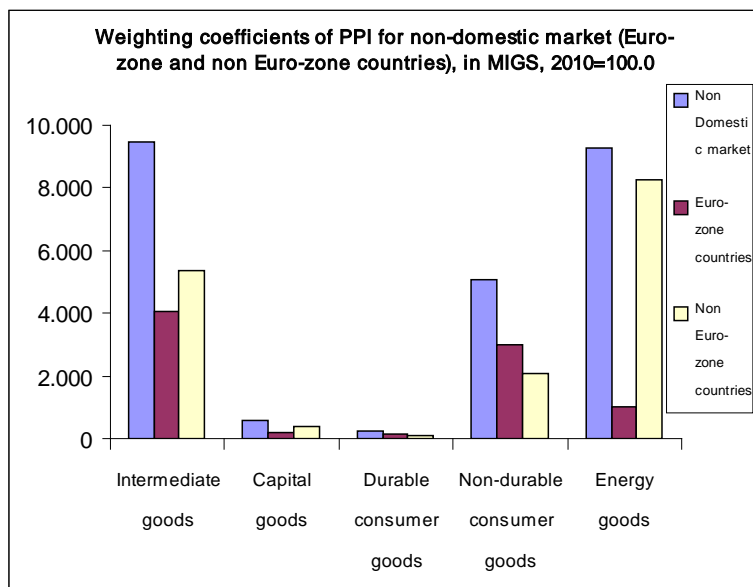


Chart 3
Weighting coefficients of the MIGs for non-domestic market in eurozone and non-eurozone countries, 2010



Price collection – Reporting units – Geographical coverage

The price data collected for the compilation of the PPI in Industry refer mainly to transactions between the enterprises that produce and sell the surveyed products and the enterprises that buy these products, irrespective of whether they are to be used as raw material or merchandise. The data are collected from a sample of enterprises (approximately 1,000). The Index covers the region of Attiki and 41 other prefectures of Greece.

The prices collected for the products sold in the domestic market are basic prices, i.e., prices excluding VAT, duties and similar deductible taxes on products that are directly linked to turnover. Moreover, the basic prices include any subsidies on products derived from the production unit.

The prices collected for products sold to the non-domestic market are quoted FOB (Free on board).

Price data refer mainly to the middle of the reference month, with monthly periodicity, but in exceptional cases they may refer to the mean prices of the month in question.

When the collected prices refer to foreign currency, they are converted into euros using the euro foreign exchange rates on the basis of the monthly average fixing rates announced by the Bank of Greece

The basic criterion for the selection of the price collection sources (i.e., enterprises), both for the domestic and non-domestic market, was their turnover in the base year 2010, irrespective of their location, according to the Business Register of ELSTAT.

More specific issues

For each product selected for observation, its determining characteristics (variety, weight, packaging and other qualitative characteristics), as well as characteristics in terms of transactions (usual quantity, discounts, method of payment, etc) are fully defined in detail (tight item specification).

It is not unusual for periodic breaks to occur in the flow of price data, or for data to be unavailable, or for the figures to be provisional or final. When a break occurs in the data flow due to seasonality, the method used during the break is "repeating the last observed price".

If certain products or varieties of products cease to be representative, or if any change occurs in their determining characteristics, they are replaced by new products or varieties. In these cases, the prices for the base year are calculated on the basis of the producer indices of the group in which these products are classified.

Calculation of the PPI in Industry

The PPI in Industry is calculated on the basis of a variation of the Laspeyres formula, as follows:

$$I^{(t)} = \sum_{i=1}^n R_i^{(t)} * w_i$$

where:

$I^{(t)}$, is the general index of the current period (month) t,

$R_i^{(t)}$, is the individual index of the product i during the current period (month) t

$$w_i = \frac{p_i^{(0)} q_i^{(0)}}{\sum_{i=1}^n p_i^{(0)} q_i^{(0)}}, \quad \sum_{i=1}^n w_i = 1$$

w_i = the corresponding weight of product i , where $p_i^{(0)}$ and $q_i^{(0)}$ are, respectively, the prices and quantities of product i during the base period 0.

$p_i^{(0)}$, $q_i^{(0)}$, the price and quantity of product i during the base period 0,

$i=1,2,...n$, products

t = current period (month or year)

The individual index of the product i , i.e. $R_i^{(t)}$, is calculated as the simple arithmetic mean of the relevant prices of the varieties of the product from all reporting units (enterprises).

That is:

$$R_i^{(t)} = \frac{1}{N_i} \sum_{j=1}^{N_i} \left(\frac{p_{ij}^{(t)}}{p_{ij}^{(0)}} * 100 \right)$$

where:

N_i , is the count of the varieties of product i from all reporting units

$p_{ij}^{(t)}$, is the price j of the variety of product i in the current period t

$p_{ij}^{(0)}$, is the price j of the variety of product i during base period 0, $j=1,2,3,.. N_i$.

The above calculations are applied for the compilation of the individual indices for domestic and non domestic markets with breakdown in euro-zone and non euro-zone countries. The Overall PPI is calculated as the weighted average of the 2-digit, 3-digit, 4-digit branches of NACE rev. 2 classification, which are the indices for the MIGs (Main Industrial Groupings) and as weighted average index of the individual indices of the domestic and non domestic markets.

Backcasting of time series

The backcasted monthly and annual indices for the products and groups of products for the period January 2000-December 2014 were calculated using the mean annual individual price indices of every product in 2010, according to the following type:

$$R_{i(2010)}^{(t)} = R_{i(2005)}^{(t)} * \frac{100}{\bar{R}_{i(2005)}^{(2010)}}$$

Where:

$R_{i(2010)}^{(t)}$ is the individual index of product i in the current period (month, year) t with 2010 as base year,

$R_{i(2005)}^{(t)}$ is the individual index of product i in the current period (month, year) t with 2005 as base year and

$\bar{R}_{i(2005)}^{(2010)}$ is the mean individual annual index of product i in 2010, with 2005 as base year.

For the new products, for which individual indices were not available in the revision 2010=100.0, the indices of the correspondent groups where they belong were used.

Methodology

The methodological manual for the Producer Price Indices in Industry, which includes a set of guidelines for the calculation of short-term statistics, is available at:

[Methodology of short-term business statistics - Interpretation and Guidelines](#)

While the methodological manual on Producer Price Indices (PPI) of Eurostat, is available at:

[Handbook on industrial producer price indices \(PPI\)](#)

Publication of the revised PPI in Industry and data transmission to Eurostat

The PPI data are released, on a monthly basis, through a Press Release, 27-30 days after the end of the reference month. The publication date of the Press Releases is scheduled at the end of the previous year and is listed in the annual Press Releases Calendar of ELSTAT.

The data on the Revised PPI in Industry will be released on 27 February 2015, through a specially designed press release; the revised index has as first reference month January 2015 and the data will be transmitted to Eurostat up to the level of 2-digit Nace Rev.2 codes.

Tables

The following tables show the weighting coefficients for the 2010 revision (by grouping at 2-digit level of NACE rev.2 codes) and by market, as well as the annual overall PPI for the period 2005-2014 with base year 2010=100.0.

Table 2: Weighting coefficients by Industry Groups for overall, domestic and non-domestic market (2010=100.0)

Base year 2010=100.0						
NACE Rev.2	Industry Groups	Overall Market	Domestic Market	Non-Domestic Market		
				Total	Euro-zone countries	Non Euro-zone countries
05	Mining of coal and lignite	1698.06	1698.06			
06	Extraction of crude petroleum and natural gas	87.88	87.88			
07	Mining of metal ores	307.59	174.56	133.03	43.18	89.85
08	Other mining and quarrying	901.13	511.92	389.21	169.49	219.72
10	Manufacture of food products	18778.14	15960.86	2817.28	1620.67	1196.61
11	Manufacture of beverages	3464.81	3236.88	227.93	148.89	79.04
12	Manufacture of tobacco products	832.83	509.52	323.31	77.33	245.98
13	Manufacture of textiles	942.63	489.95	452.68	260.50	192.18
14	Manufacture of wearing apparel	1083.33	561.64	521.69	327.58	194.11
15	Manufacture of leather and leather products	220.98	183.75	37.23	24.00	13.23
16	Manufacture of wood and of products of wood and cork	595.95	508.08	87.87	36.17	51.70
17	Manufacture of paper-pulp, paper and paper products	1671.94	1490.34	181.60	93.12	88.48
18	Printing and reproduction of recorded media	991.45	991.45			
19	Manufacture of coke and refined petroleum products	25754.36	16548.84	9205.52	954.43	8251.09
20	Manufacture of chemicals and chemical products	4100.14	2686.24	1413.90	518.79	895.11
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	2005.22	1284.29	720.93	569.19	151.74
22	Manufacture of rubber and plastic products	2680.68	1763.15	917.53	438.45	479.08
23	Manufacture of other non-metallic mineral products	3864.10	3304.15	559.95	106.15	453.80
24	Manufacture of basic metals	7714.50	3216.56	4497.94	2107.61	2390.33
25	Manufacture of fabricated metal products except machinery and equipment.	2522.31	1931.97	590.34	267.57	322.77
26	Manufacture of computer, electronic and optical products	267.15	94.85	172.30	74.94	97.36
27	Manufacture of electrical equipment	1863.06	975.07	887.99	411.54	476.45
28	Manufacture of machinery and equipment n.e.c.	721.15	451.47	269.68	57.28	212.40
29	Manufacture of motor vehicles, trailers and semi-trailers	216.34	147.98	68.36	28.76	39.60
30	Manufacture of other transport equipment	28.51	28.51			
31	Manufacture of furniture	650.23	611.76	38.47	30.44	8.03
32	Other manufacturing	191.75	141.83	49.92	20.92	29.00
33	Repair and installation of machinery and equipment	1086.16	1086.16			
35	Electricity, gas, steam and air conditioning supply	13782.48	13726.17	56.31	56.31	
36	Water collection, treatment and supply	975.14	975.14			
	Total	100000.00	75379.03	24620.97	8443.31	16177.66

Table 3: Annual Overall PPI in Industry for the years 2005–2014 (2010=100.0)

Producer Price Indices in Industry for the years 2005–2014 (Overall Market)											Base year 2010=100.0	
NACE Rev.2	Industry Groups	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
05	Mining of coal and lignite	81.9	83.7	91.4	93.2	95.1	100.0	114.9	113.8	102.2	107.3	
06	Extraction of crude petroleum and natural gas	65.4	83.7	90.2	127.8	85.1	100.0	135.2	149.0	141.1	132.5	
07	Mining of metal ores	82.8	84.0	90.2	96.3	96.4	100.0	102.3	104.8	108.6	109.4	
08	Other mining and quarrying	82.8	86.4	90.7	95.0	98.0	100.0	100.8	101.7	102.5	103.4	
10	Manufacture of food products	88.7	94.9	95.6	101.6	100.1	100.0	103.1	104.4	106.4	106.6	
11	Manufacture of beverages	86.6	89.2	91.4	96.3	99.4	100.0	101.5	102.8	104.3	104.0	
12	Manufacture of tobacco products	93.7	96.3	100.4	101.2	106.7	100.0	95.0	98.3	95.4	96.9	
13	Manufacture of textiles	96.4	97.9	98.8	100.2	99.3	100.0	105.7	105.4	105.7	105.1	
14	Manufacture of wearing apparel	96.7	96.8	97.5	98.6	99.5	100.0	100.9	100.8	102.0	101.8	
15	Manufacture of leather and leather products	92.0	92.6	95.3	96.4	98.1	100.0	104.2	105.2	105.2	105.3	
16	Manufacture of wood and of products of wood and cork	85.4	88.7	93.4	97.6	98.5	100.0	100.5	101.6	101.0	99.9	
17	Manufacture of paper-pulp, paper and paper products	87.3	88.9	91.8	98.7	98.7	100.0	103.6	102.7	102.5	102.3	
18	Printing and reproduction of recorded media	90.4	91.6	93.0	99.5	100.9	100.0	101.2	102.3	102.0	102.2	
19	Manufacture of coke and refined petroleum products	73.2	82.6	86.9	105.3	75.8	100.0	127.3	142.1	132.4	122.1	
20	Manufacture of chemicals and chemical products	89.0	91.6	93.5	103.2	104.7	100.0	103.9	106.9	108.7	107.8	
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	102.4	103.0	104.0	104.5	105.7	100.0	95.8	97.3	97.0	93.5	
22	Manufacture of rubber and plastic products	87.6	90.9	93.0	97.7	98.9	100.0	103.9	105.0	105.5	104.9	
23	Manufacture of other non-metallic mineral products	82.7	86.2	91.4	97.0	99.0	100.0	100.2	101.1	100.4	100.2	
24	Manufacture of basic metals	78.2	84.3	89.5	93.4	91.2	100.0	107.7	108.9	104.7	101.2	
25	Manufacture of fabricated metal products except machinery and equipment.	82.3	85.9	91.9	97.5	98.5	100.0	100.3	100.6	100.4	99.9	
26	Manufacture of computer, electronic and optical products	94.1	96.5	97.9	99.4	99.7	100.0	100.1	100.7	100.9	100.5	
27	Manufacture of electrical equipment	64.0	78.3	81.7	88.1	86.9	100.0	106.9	104.6	99.7	97.4	
28	Manufacture of machinery and equipment n.e.c.	90.6	92.1	96.7	98.8	99.8	100.0	100.2	99.8	99.9	98.9	
29	Manufacture of motor vehicles, trailers and semi-trailers	91.4	93.2	95.2	98.3	99.3	100.0	100.9	102.4	102.6	103.5	
30	Manufacture of other transport equipment	85.9	87.8	89.9	94.5	98.8	100.0	101.3	105.6	107.4	108.7	
31	Manufacture of furniture	88.3	91.0	94.3	96.6	99.3	100.0	99.2	98.3	98.2	98.1	
32	Other manufacturing	80.9	83.4	87.3	91.6	96.7	100.0	101.8	103.8	104.2	104.4	
33	Repair and installation of machinery and equipment	87.3	89.0	91.3	96.6	98.5	100.0	101.0	100.3	100.4	98.8	
35	Electricity, gas, steam and air conditioning supply	76.9	81.9	85.1	98.8	97.3	100.0	101.6	114.8	123.8	132.5	
36	Water collection, treatment and supply	81.3	83.4	87.9	91.4	97.2	100.0	100.7	102.2	102.2	102.3	

Table 3 (continued): Annual Overall PPI in Industry for the years 2005–2014 (2010=100.0)

Producer Price Indices in Industry for the years 2005–2014 (Domestic Market)											Base year 2010=100.0	
NACE Rev.2	Industry Groups	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
05	Mining of coal and lignite	81.9	83.7	91.4	93.2	95.1	100.0	114.9	113.8	102.2	107.3	
06	Extraction of crude petroleum and natural gas	65.4	83.7	90.2	127.8	85.1	100.0	135.2	149.0	141.1	132.5	
07	Mining of metal ores	84.3	86.8	91.0	94.8	95.8	100.0	102.2	104.9	109.8	110.9	
08	Other mining and quarrying	83.1	86.5	91.1	95.2	97.9	100.0	101.0	101.7	102.6	103.5	
10	Manufacture of food products	86.9	94.0	95.3	101.6	100.0	100.0	103.2	104.2	105.7	105.7	
11	Manufacture of beverages	86.6	89.4	91.6	96.3	99.5	100.0	101.5	102.7	104.2	103.9	
12	Manufacture of tobacco products	95.8	98.7	104.3	105.6	110.9	100.0	92.7	95.1	91.2	92.6	
13	Manufacture of textiles	95.2	96.9	98.3	99.8	99.2	100.0	106.0	106.8	107.5	107.6	
14	Manufacture of wearing apparel	96.5	96.4	96.3	97.8	98.9	100.0	100.2	100.5	100.6	100.1	
15	Manufacture of leather and leather products	88.4	90.1	92.9	96.0	98.7	100.0	100.2	99.9	100.1	100.4	
16	Manufacture of wood and of products of wood and cork	84.3	87.4	92.5	97.2	98.7	100.0	100.2	100.9	99.8	98.7	
17	Manufacture of paper-pulp, paper and paper products	86.3	88.0	91.0	98.7	99.0	100.0	103.7	103.0	102.8	102.6	
18	Printing and reproduction of recorded media	90.4	91.6	92.9	99.5	100.9	100.0	101.2	102.3	102.0	102.2	
19	Manufacture of coke and refined petroleum products	72.5	82.6	84.9	105.8	75.6	100.0	127.6	142.2	132.1	121.2	
20	Manufacture of chemicals and chemical products	88.1	90.8	93.0	105.6	107.2	100.0	104.0	107.1	109.0	107.7	
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	107.2	107.7	108.7	110.2	110.4	100.0	93.3	95.9	95.3	90.8	
22	Manufacture of rubber and plastic products	86.3	89.6	92.6	97.6	98.5	100.0	103.5	104.3	104.2	104.4	
23	Manufacture of other non-metallic mineral products	83.0	86.4	91.3	96.9	99.0	100.0	100.3	100.6	100.2	100.0	
24	Manufacture of basic metals	78.0	84.8	90.3	95.3	90.8	100.0	107.9	109.3	104.8	101.8	
25	Manufacture of fabricated metal products except machinery and equipment.	79.7	83.4	90.6	97.3	98.3	100.0	100.3	100.8	100.6	100.4	
26	Manufacture of computer, electronic and optical products	97.1	96.8	97.9	100.5	99.4	100.0	100.4	100.7	101.0	100.7	
27	Manufacture of electrical equipment	60.1	81.1	84.6	95.0	90.6	100.0	109.4	105.7	99.8	96.7	
28	Manufacture of machinery and equipment n.e.c.	87.0	89.8	95.6	98.4	99.6	100.0	100.1	98.8	98.7	97.2	
29	Manufacture of motor vehicles, trailers and semi-trailers	91.7	93.4	95.4	98.5	99.7	100.0	101.1	102.8	102.8	103.2	
30	Manufacture of other transport equipment	85.9	87.8	89.9	94.5	98.8	100.0	101.3	105.6	107.4	108.7	
31	Manufacture of furniture	88.1	90.9	94.3	96.5	99.3	100.0	99.1	98.3	98.1	98.0	
32	Other manufacturing	77.0	80.5	85.8	90.0	96.4	100.0	101.8	103.9	104.2	104.5	
33	Repair and installation of machinery and equipment	87.3	89.0	91.3	96.6	98.5	100.0	101.0	100.3	100.4	98.8	
35	Electricity, gas, steam and air conditioning supply	76.8	81.6	84.7	98.3	97.2	100.0	101.5	114.8	123.9	132.5	
36	Water collection, treatment and supply	81.3	83.4	87.9	91.4	97.2	100.0	100.7	102.2	102.2	102.3	

Table 3 (continued): Annual Overall PPI in Industry for the years 2005–2014 (2010=100.0)

Producer Price Indices in Industry for the years 2005–2014 (Non-Domestic Market)											Base year 2010=100.0	
NACE Rev.2	Industry Groups	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
05	Mining of coal and lignite											
06	Extraction of crude petroleum and natural gas											
07	Mining of metal ores	77.8	79.8	90.1	101.5	98.7	100.0	102.5	104.4	104.6	104.6	
08	Other mining and quarrying	80.4	84.5	87.4	92.9	98.5	100.0	99.5	101.7	102.5	103.1	
10	Manufacture of food products	97.7	99.0	97.2	101.4	100.1	100.0	102.9	105.7	109.9	111.1	
11	Manufacture of beverages	87.0	87.6	88.1	95.3	97.7	100.0	102.3	103.7	106.4	106.9	
12	Manufacture of tobacco products	89.0	90.8	91.6	91.0	97.0	100.0	100.2	105.6	105.1	106.5	
13	Manufacture of textiles	97.4	98.8	99.1	100.6	99.3	100.0	105.4	104.3	104.1	103.1	
14	Manufacture of wearing apparel	96.8	97.0	98.1	99.0	99.9	100.0	101.3	100.9	102.9	102.8	
15	Manufacture of leather and leather products	110.5	105.9	105.6	98.8	95.1	100.0	125.2	132.6	132.1	130.9	
16	Manufacture of wood and of products of wood and cork	92.3	96.3	98.5	99.7	97.9	100.0	102.2	105.8	108.7	107.0	
17	Manufacture of paper-pulp, paper and paper products	96.6	97.4	97.6	98.1	95.6	100.0	102.1	100.0	99.7	99.3	
18	Printing and reproduction of recorded media											
19	Manufacture of coke and refined petroleum products	75.1	84.4	87.5	103.9	76.6	100.0	126.4	141.5	133.5	124.8	
20	Manufacture of chemicals and chemical products	91.0	93.3	94.4	98.4	99.6	100.0	103.6	106.7	108.3	107.9	
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	96.2	97.1	98.1	97.2	99.6	100.0	99.1	99.1	99.1	97.0	
22	Manufacture of rubber and plastic products	90.5	93.7	94.1	97.7	99.7	100.0	104.8	106.6	108.5	106.1	
23	Manufacture of other non-metallic mineral products	81.1	85.2	91.7	97.9	99.0	100.0	99.4	104.2	102.1	101.8	
24	Manufacture of basic metals	78.4	83.6	88.7	91.6	91.7	100.0	107.5	108.5	104.7	100.6	
25	Manufacture of fabricated metal products except machinery and equipment.	93.3	95.9	97.8	98.4	99.3	100.0	100.2	99.9	99.6	97.9	
26	Manufacture of computer, electronic and optical products	92.5	96.3	98.0	98.8	99.9	100.0	100.0	100.8	100.8	100.4	
27	Manufacture of electrical equipment	68.8	73.9	78.1	79.9	82.4	100.0	103.9	103.2	99.6	98.2	
28	Manufacture of machinery and equipment n.e.c.	95.3	95.6	98.6	99.4	99.9	100.0	100.3	101.1	101.4	101.1	
29	Manufacture of motor vehicles, trailers and semi-trailers	89.7	91.7	94.0	96.4	96.6	100.0	99.4	99.4	101.5	105.8	
30	Manufacture of other transport equipment											
31	Manufacture of furniture	94.7	95.7	97.1	99.5	100.1	100.0	100.3	99.8	99.7	99.9	
32	Other manufacturing	92.2	92.7	93.4	96.2	97.6	100.0	101.9	103.5	104.0	104.1	
33	Repair and installation of machinery and equipment											
35	Electricity, gas, steam and air conditioning supply	115.0	141.4	147.2	206.9	126.1	100.0	116.1	117.0	104.2	124.2	
36	Water collection, treatment and supply											