

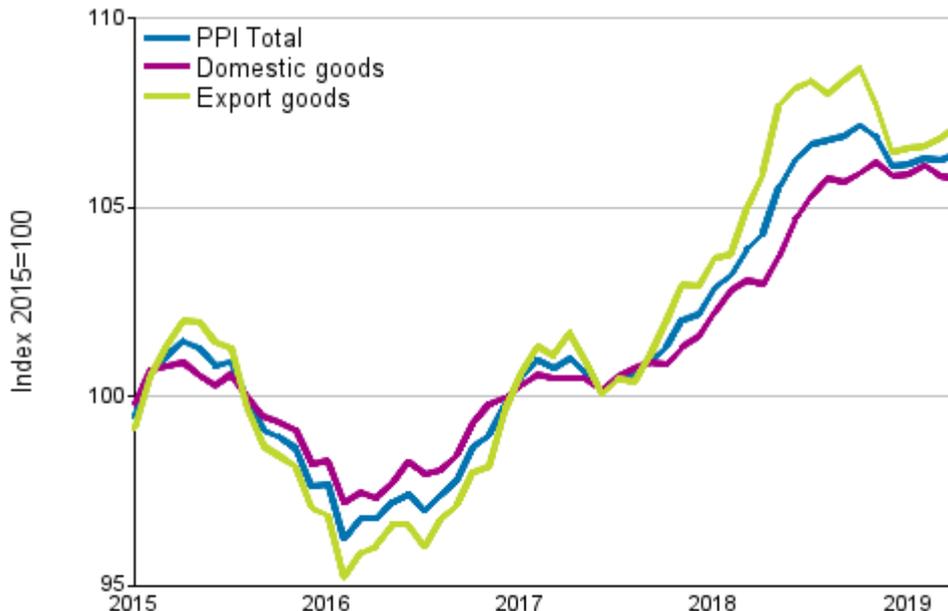
# Producer Price Indices

2019, April

## Producer prices for manufactured products grew by 2.0 per cent from April last year

According to Statistics Finland, producer prices for manufactured products rose by an average of 2.0 per cent from April 2018 to April 2019. Producer prices for manufactured products sold on the domestic market rose by 2.7 per cent, while the producer prices of export products went up by 1.2 per cent.

**Producer Price Index (PPI) 2015=100, 1/2015–4/2019**



The increase in the producer prices for manufactured goods was particularly attributable to risen prices of pulp, paper, paperboard and cardboard, and electricity, as well as oil products from April 2018. The rising of the prices was curbed particularly by fallen prices of iron and steel.

The Export Price Index rose by 1.2 per cent and the Import Price Index by 1.5 per cent in the year. The Basic Price Index for Domestic Supply went up by 2.6 per cent. The Basic Price Index for Domestic Supply including Taxes went up by 2.6 per cent.

Export prices were, in particular, boosted by the higher prices of pulp, paper, paperboard and cardboard, and chemicals and chemical products, as well as oil products from April last year. The rising of export prices was curbed particularly by fallen prices of iron and steel. The rise in import prices was, in turn, especially caused by higher prices of oil products and electricity compared with last year's April. The rise in import prices was curbed by a fall in the price of waste.

From March to April, producer prices for manufactured goods went up by 0.1 per cent. Producer prices were particularly boosted by the increase in oil prices compared with the previous month.

### **Producer Price Indices 2015=100, April 2019**

	Index	Monthly change, %	Annual change, %
Producer Price Index, total	106.4	0.1	2.0
- Producer Price Index, domestic goods	105.8	-0.1	2.7
- Producer Price Index, export goods	107.2	0.3	1.2
Export Price Index	106.9	0.3	1.2
Import Price Index	109.6	0.9	1.5
Basic Price Index for Domestic Supply	108.1	0.4	2.6
Basic Price Index for Domestic Supply, incl. taxes	108.0	0.4	2.6

### **Producer Price Indices 1949=100, April 2019**

	Index	Monthly change, %	Annual change, %
Production Price Index	2048	0.1	2.0
Export Price Index	1775	0.3	1.2
Import Price Index	1680	0.9	1.5
Wholesale Price Index	2390	0.4	2.6

### **Reviews to the calculation of the Producer Price Index**

The calculation of the Producer Price Index is reviewed starting from the Index for January 2019 so that the indices are annual chain-linked indices.

In practice, the shift to the chain-linked index method means that the weight structure of the Producer Price Index will in future be updated every year. The new weight structure will take effect starting from the Index for January of each year. In addition to the weight structure, product categories and the enterprise sample can also be updated annually, if needed. The base year of the Index remains unchanged (2015=100).

In future, the index calculation will be made so that each index series is chained forward with changes in the Index calculated according to the new weight structure. A more detailed description of the calculation method is available in the updated Producer Price Index for Manufactured Products and Producer Price Indices for Services 2015=100 Handbook for Users to be published in spring.

These changes improve the quality of the Index, because with their help, structural changes in production, exports and imports can be taken into account faster in future.

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# Appendix tables

**Appendix table 1. Producer Price Indices 2015=100, index numbers and year-on-year changes, April 2019**

Year and month		Producer Price Index		Basic Price Index for Domestic Supply		Export Price Index		Import Price Index		Basic Price Index for Domestic Supply, incl. taxes	
		Index	%/year	Index	%/year	Index	%/year	Index	%/year	Index	%/year
2015	1-12	100.0		100.0		100.0		100.0		100.0	
2016	1-12	97.7	-2.3	98.4	-1.6	96.8	-3.2	96.8	-3.2	98.6	-1.4
2017	1-12	101.0	3.4	102.2	3.8	101.2	4.5	103.7	7.2	102.1	3.5
2018	1-12	105.6	4.6	106.6	4.4	106.5	5.3	109.1	5.2	106.5	4.3
	1	102.9	2.4	104.2	2.7	103.5	2.9	106.6	3.8	104.0	2.6
	2	103.2	2.2	104.5	2.3	103.5	2.3	106.3	1.9	104.4	2.2
	3	103.9	3.1	104.8	2.7	104.7	3.7	106.7	2.5	104.8	2.8
	4	104.3	3.3	105.4	3.1	105.7	4.0	108.0	3.5	105.2	3.0
	5	105.6	4.9	106.7	4.9	107.5	6.5	110.3	7.1	106.4	4.7
	6	106.3	6.2	107.2	5.8	107.9	7.9	110.6	8.1	107.1	5.7
	7	106.7	6.1	107.6	6.0	108.0	7.7	110.8	8.1	107.6	5.9
	8	106.8	6.2	107.7	5.9	107.7	7.5	110.6	7.7	107.7	5.8
	9	106.9	5.9	108.1	5.7	108.0	7.0	111.3	7.4	108.0	5.5
	10	107.2	5.8	108.5	5.8	108.3	6.4	111.3	7.0	108.2	5.6
	11	106.9	4.7	107.8	4.4	107.4	4.5	108.9	3.5	107.6	4.3
12	106.1	3.8	107.1	3.4	106.2	3.4	107.3	1.5	107.1	3.4	
2019	1	106.2	3.2	107.2	2.9	106.3	2.7	107.7	1.1	107.4	3.2
	2	106.3	3.0	107.6	3.0	106.4	2.7	108.4	1.9	107.6	3.1
	3	106.3	2.3	107.6	2.7	106.6	1.8	108.6	1.8	107.5	2.6
	4	106.4	2.0	108.1	2.6	106.9	1.2	109.6	1.5	108.0	2.6

**Appendix table 2. Producer Price Indices 1949=100, April 2019**

Year and month		Production Price Index, index	Export Price Index, index	Import Price Index, index	Wholesale Price Index, index
2000	1-12	1666	1686	1335	1701
2001	1-12	1674	1668	1298	1706
2002	1-12	1644	1617	1263	1693
2003	1-12	1626	1562	1258	1695
2004	1-12	1631	1570	1303	1711
2005	1-12	1664	1599	1389	1768
2006	1-12	1745	1665	1494	1872
2007	1-12	1795	1706	1529	1938
2008	1-12	1862	1724	1582	2027
2009	1-12	1756	1566	1401	1893
2010	1-12	1843	1633	1495	2000
2011	1-12	1944	1714	1616	2169
2012	1-12	1973	1719	1662	2234
2013	1-12	1966	1691	1625	2258
2014	1-12	1947	1673	1590	2234
2015	1-12	1910	1651	1495	2172
2016	1-12	1865	1603	1441	2147
2017	1-12	1939	1678	1581	2252
2018	1-12	2032	1768	1672	2357
2019	1	2043	1765	1652	2377
	2	2046	1766	1661	2382
	3	2045	1769	1665	2380
	4	2048	1775	1680	2390

**Appendix table 3. Producer Price Index 2015=100 (CPA 2015), April 2019**

Commodity groups according to CPA 2015	Domestic goods	Export goods	Total	Monthly change, %	Annual change, %
B-E Total Index	105.8	107.2	106.4	0.1	2.0
B MINING AND QUARRYING			104.0	1.9	-0.4
C MANUFACTURED PRODUCTS	105.0	107.1	106.0	0.2	1.6
10 Food products	101.9	102.3	102.0	0.0	1.5
11 Beverages	105.5	105.0	106.2	0.4	1.7
13 Textiles	105.2	96.1	101.1	-0.7	0.4
14 Wearing apparel	106.9	99.7	102.3	-0.5	1.0
16 Wood and of products of wood and cork, except furniture; articles of straw and plaiting materials	108.3	103.2	105.9	-0.3	2.9
17 Paper and paper products	108.0	110.9	110.0	-0.3	4.1
171 Pulp, paper and paperboard	110.9	111.2	110.9	-0.3	4.4
172 Articles of paper and paperboard	99.0	102.6	100.1	-0.2	0.9
18 Printing and reproduction services of recorded media			88.9	-0.5	-2.2
20 Chemicals and chemical products	99.8	118.0	112.2	-0.3	0.3
22 Rubber and plastic products	101.2	104.3	103.3	0.1	0.4
23 Other non-metallic mineral products	104.6	101.7	103.9	-0.7	2.2
24 Basic metals	109.3	103.4	103.8	0.7	-3.5
25 Fabricated metal products, except machinery and equipment	108.5	108.3	108.3	0.7	3.7
26 Computer, electronic and optical products	105.0	100.4	100.8	-0.2	2.0
265 Measuring, testing and navigating equipment; watches and clocks			103.8	0.5	2.1
27 Electrical equipment	99.9	102.9	102.6	0.0	0.1
28 Machinery and equipment n.e.c.	103.1	104.6	105.0	-0.1	1.7
29 Motor vehicles, trailers and semi-trailers	105.0	102.5	103.4	-0.1	0.5
31 Furniture	106.8	102.0	106.2	0.0	0.3
35 Electricity, gas, steam and air conditioning	114.1	150.4	114.5	-0.9	5.1
351 Electricity, transmission and distribution services	117.3	150.4	117.9	-1.4	4.6
36 Natural water; water treatment and supply services			101.2	0.0	1.2

**Appendix table 4. Producer Price Index 2015=100 (MIG), April 2019**

Main Industrial Groupings (MIG)	Domestic goods	Export goods	Total	Monthly change, %	Annual change, %
Intermediate goods	105.6	108.6	107.1	0.0	1.4
Capital goods	103.9	103.7	104.1	0.1	1.1
Durable consumer goods	105.8	96.5	104.2	0.4	0.8
Non-durable consumer goods	101.2	99.8	100.8	-0.1	0.5
Energy	114.5				

**Appendix table 5. Export Price Index 2015=100 (CPA 2015), April 2019**

Commodity groups according to CPA 2015	Index	Monthly change, %	Annual change, %
A-E Total Index	106.9	0.3	1.2
A PRODUCTS OF AGRICULTURE, FORESTRY AND FISHING	83.5	-2.6	-0.6
C MANUFACTURED PRODUCTS	107.1	0.3	0.9
10 Food products	102.3	0.1	0.9
11 Beverages	105.0	1.5	7.5
13 Textiles	96.1	-1.0	1.5
14 Wearing apparel	99.7	-0.6	-0.6
16 Wood and of products of wood and cork, except furniture; articles of straw and plaiting materials	103.2	0.1	1.7
17 Paper and paper products	110.9	-0.1	3.7
171 Pulp, paper and paperboard	111.2	-0.1	3.8
172 Articles of paper and paperboard	102.6	-0.1	1.5
20 Chemicals and chemical products	118.0	-0.7	-0.7
22 Rubber and plastic products	104.3	-0.1	1.0
23 Other non-metallic mineral products	101.7	0.1	2.8
24 Basic metals	103.4	0.9	-5.6
25 Fabricated metal products, except machinery and equipment	108.3	0.3	3.5
26 Computer, electronic and optical products	100.4	-0.3	1.9
27 Electrical equipment	102.9	-0.1	-0.2
28 Machinery and equipment n.e.c.	104.6	-0.1	1.5
29 Motor vehicles, trailers and semi-trailers	102.5	0.5	0.9
31 Furniture	102.0	0.0	0.5
35 Electricity, gas, steam and air conditioning	150.4	3.7	12.8
351 Electricity, transmission and distribution services	150.4	3.7	12.8

**Appendix table 6. Export Price Index 2015=100 (MIG), April 2019**

Main Industrial Groupings (MIG)	Index	Monthly change, %	Annual change, %
Intermediate goods	108.6	0.0	0.4
Capital goods	103.7	0.0	1.5
Durable consumer goods	96.5	1.3	2.4
Non-durable consumer goods	99.8	0.1	0.5

**Appendix table 7. Import Price Index 2015=100 (CPA 2015), April 2019**

Commodity groups according to CPA 2015	Index	Monthly change, %	Annual change, %
A-E Total Index	109.6	0.9	1.5
A PRODUCTS OF AGRICULTURE, FORESTRY AND FISHING	96.4	-1.3	-2.9
C MANUFACTURED PRODUCTS	103.3	0.3	1.5
10 Food products	101.1	0.7	0.6
11 Beverages	103.8	-0.5	0.5
13 Textiles	104.5	-0.1	2.8
14 Wearing apparel	101.8	0.3	3.3
16 Wood and of products of wood and cork, except furniture; articles of straw and plaiting materials	103.7	-2.6	4.8
17 Paper and paper products	113.5	-1.3	2.3
171 Pulp, paper and paperboard	117.8	-1.8	0.9
172 Articles of paper and paperboard	105.1	-0.3	4.8
20 Chemicals and chemical products	104.1	-0.8	1.5
22 Rubber and plastic products	100.1	0.2	2.6
23 Other non-metallic mineral products	102.9	-0.1	1.5
24 Basic metals	105.9	0.3	-1.8
244 Basic precious and other non-ferrous metals	103.8	-0.9	0.1
25 Fabricated metal products, except machinery and equipment	102.9	1.6	3.1
26 Computer, electronic and optical products	97.7	-0.1	1.4
27 Electrical equipment	102.0	0.0	2.3
28 Machinery and equipment n.e.c.	102.7	0.4	1.5
29 Motor vehicles, trailers and semi-trailers	101.3	0.0	-2.0
30 Other transport equipment	102.8	0.4	7.4
31 Furniture	105.3	0.1	2.8
35 Electricity, gas, steam and air conditioning	143.3	1.5	11.9
351 Electricity, transmission and distribution services	143.3	1.5	11.9

**Appendix table 8. Import Price Index 2015=100 (MIG), April 2019**

Main Industrial Groupings (MIG)	Index	Monthly change, %	Annual change, %
Intermediate goods	105.2	0.0	1.5
Capital goods	101.3	0.2	0.8
Durable consumer goods	96.3	-0.3	-0.5
Non-durable consumer goods	102.1	0.3	0.7
Energy	129.6	4.7	8.2

**Appendix table 9. Basic Price Index for Domestic Supply 2015=100 (CPA 2015), April 2019**

Commodity groups according to CPA 2015	Domestic goods	Import goods	Total	Monthly change, %	Annual change, %
A-F Total Index	108.0	109.6	108.1	0.4	2.6
A PRODUCTS OF AGRICULTURE, FORESTRY AND FISHING	108.3	96.4	106.1	0.4	0.0
B MINING AND QUARRYING			125.5	5.0	4.7
C MANUFACTURED PRODUCTS	105.0	103.3	104.2	0.2	1.9
F CONSTRUCTIONS AND CONSTRUCTION WORKS			112.6	0.2	4.6
10 Food products	101.9	101.2	101.6	0.2	1.3
11 Beverages	105.5	103.8	104.8	-0.3	0.3
13 Textiles	105.2	104.7	104.8	-0.2	1.7
14 Wearing apparel	106.9	101.6	102.1	0.2	3.3
16 Wood and of products of wood and cork, except furniture; articles of straw and plaiting materials	108.3	103.9	107.7	-1.0	4.0
17 Paper and paper products	108.0	113.5	109.4	-1.1	4.6
171 Pulp, paper and paperboard	110.9	117.8	112.4	-1.3	5.4
172 Articles of paper and paperboard	99.0	105.2	101.0	-0.3	2.0
18 Printing and reproduction services of recorded media			92.3	-0.5	-2.1
20 Chemicals and chemical products	99.8	104.1	102.7	-0.4	1.7
22 Rubber and plastic products	101.2	100.3	100.8	0.2	1.2
23 Other non-metallic mineral products	104.6	103.0	104.1	-0.7	2.0
24 Basic metals	109.3	105.9	108.3	0.2	-0.2
25 Fabricated metal products, except machinery and equipment	108.5	103.1	106.8	1.1	3.6
26 Computer, electronic and optical products	105.0	97.6	98.1	-0.1	1.5
27 Electrical equipment	99.9	102.0	101.6	0.1	2.0
28 Machinery and equipment n.e.c.	103.1	102.9	103.1	0.3	1.7
29 Motor vehicles, trailers and semi-trailers	105.0	101.3	101.6	-0.2	-1.9
31 Furniture	106.8	105.3	106.3	0.1	1.2
33 Repair and installation services of machinery and equipment			102.1	0.4	-1.9
35 Electricity, gas, steam and air conditioning	114.1	143.3	115.8	-0.7	5.3
351 Electricity, transmission and distribution services	117.3	143.3	119.5	-1.1	4.9
36 Natural water; water treatment and supply services			101.2	0.0	1.2
42 Constructions and construction works for civil engineering	105.8		105.8	1.1	3.7

**Appendix table 10. Basic Price Index for Domestic Supply 2015=100 (MIG), April 2019**

Main Industrial Groupings (MIG)	Domestic goods	Import goods	Total	Monthly change, %	Annual change, %
Intermediate goods	105.6	105.3	105.5	0.1	2.2
Capital goods	103.9	101.3	102.3	0.2	0.6
Durable consumer goods	105.8	96.1	99.6	-0.3	-0.3
Non-durable consumer goods	101.2	102.1	101.5	0.1	0.6
Energy	114.5	129.7	120.8	1.8	7.4

**Appendix table 11. Basic Price Index for Domestic Supply 2015=100 (CPA 2015), including taxes, April 2019**

Commodity groups according to CPA 2015	Domestic goods	Import goods	Total	Monthly change, %	Annual change, %
A-E Total Index	107.6	109.9	108.0	0.4	2.6
A PRODUCTS OF AGRICULTURE, FORESTRY AND FISHING	108.3	96.6	106.2	0.5	-0.1
B MINING AND QUARRYING			126.0	5.1	4.5
C MANUFACTURED PRODUCTS	105.2	103.8	104.5	0.2	2.1
F CONSTRUCTIONS AND CONSTRUCTION WORKS			112.6	0.2	4.6
10 Food products	101.0	99.4	100.4	0.2	1.2
11 Beverages	110.0	111.1	110.2	0.0	3.0
13 Textiles	105.2	104.7	104.8	-0.2	1.7
14 Wearing apparel	106.9	101.6	102.1	0.2	3.3
16 Wood and of products of wood and cork, except furniture; articles of straw and plaiting materials	108.3	103.9	107.7	-1.0	4.0
17 Paper and paper products	108.0	113.5	109.4	-1.1	4.6
171 Pulp, paper and paperboard	110.9	117.8	112.4	-1.3	5.4
172 Articles of paper and paperboard	99.0	105.2	101.0	-0.3	2.0
20 Chemicals and chemical products	99.8	104.1	102.7	-0.4	1.8
22 Rubber and plastic products	101.2	100.3	100.8	0.2	1.2
23 Other non-metallic mineral products	104.8	103.0	104.2	-0.7	2.0
24 Basic metals	109.3	105.9	108.3	0.2	-0.2
25 Fabricated metal products, except machinery and equipment	108.4	103.1	106.8	1.1	3.6
26 Computer, electronic and optical products	105.0	97.6	98.1	-0.1	1.5
27 Electrical equipment	99.9	102.0	101.6	0.1	2.0
28 Machinery and equipment n.e.c.	103.1	102.9	103.1	0.3	1.7
29 Motor vehicles, trailers and semi-trailers	105.2	91.8	92.8	-0.2	-2.6
31 Furniture	106.8	105.3	106.3	0.1	1.2
33 Repair and installation services of machinery and equipment			102.1	0.4	-1.9
35 Electricity, gas, steam and air conditioning	109.4	143.3	111.8	-0.7	5.0
351 Electricity, transmission and distribution services	110.3	143.3	113.5	-1.0	4.7
36 Natural water; water treatment and supply services			101.2	0.0	1.2
42 Constructions and construction works for civil engineering	105.8		105.8	1.1	3.7

**Appendix table 12. Basic Price Index for Domestic Supply 2015=100 (MIG), including taxes, April 2019**

Main Industrial Groupings (MIG)	Domestic goods	Import goods	Total	Monthly change, %	Annual change, %
Intermediate goods	105.6	105.3	105.5	0.1	2.2
Capital goods	103.9	98.4	100.5	0.2	0.4
Durable consumer goods	105.8	96.2	99.6	-0.3	-0.4
Non-durable consumer goods	101.3	106.8	104.0	0.1	1.8
Energy	111.1	130.3	118.7	1.6	6.5

**Appendix table 13. Production Price Index 1949=100 (SITC), April 2019**

Commodity groups (SITC)	Domestic goods	Export goods	Total	Monthly change, %	Annual change, %
0-8 Total index	2320	1813	2048	0.1	2.0
0 Food			1831	0.0	1.5
7 Machinery and transport equipment			1403	0.0	0.6
71 Machinery (other than electric)			3021	0.0	0.8
72 Electric machinery, apparatus and appliances			381	-0.3	-0.1

**Appendix table 14. Production Price Index 1949=100 (ISIC), April 2019**

Industry (ISIC)	Index	Monthly change, %	Annual change, %
2-3 Manufacturing industry	1889	0.2	1.5
34-38 Manufacture of metal and metal products	1492	0.3	0.4
34 Basic metal industries	1659	0.8	-5.0
35 Manufacture of metal products	2404	0.9	3.2
36 Manufacture of machinery	2970	0.0	1.6
37 Manufacture of electric machinery	484	-0.2	1.1
38 Manufacture of transport equipment	2174	0.1	0.8

**Appendix table 15. Export Price Index 1949=100, April 2019**

Commodity groups (SITC)	Index	Monthly change, %	Annual change, %
0-8 Total index	1775	0.3	1.2
0 Food	1135	-0.8	2.6
2 Crude materials (inedible)	1973	-0.3	1.7
6 Manufactured goods	1704	0.4	1.0
7 Machinery and transport equipment	1522	-0.1	1.1

**Appendix table 16. Import Price Index 1949=100, April 2019**

Commodity groups (SITC)	Index	Monthly change, %	Annual change, %
0-8 Total index	1680	0.9	1.5
0 Food	1309	0.1	-0.1
2 Crude materials (inedible)	1524	-0.2	-1.3
3 Mineral fuels, lubricants, gas, electric energy and water	3912	4.7	8.2
7 Machinery and transport equipment	2039	0.1	1.0

**Appendix table 17. Wholesale Price Index 1949=100, April 2019**

Commodity groups (SITC)	Domestic goods	Import goods	Total	Monthly change, %	Annual change, %
0-8 Total index	2515	2025	2390	0.4	2.6
0 Food			1651	0.0	1.7
3 Mineral fuels, lubricants, gas, electric energy and water			4610	1.6	6.3
31A Mineral fuels and lubricants			5981	3.4	6.6
31B Gas, electric energy and water			3181	-0.7	3.9
5 Chemicals			1618	-0.9	0.9
68 Base metals			2261	0.3	1.3
7 Machinery and transport equipment			1845	0.1	0.4
71 Machinery (other than electric)			4219	0.4	0.4
72 Electric machinery, apparatus and appliances			481	-0.1	1.4
73 Transport equipment			2168	-0.1	-1.4

**Appendix table 18. Producer Price Index 2010=100, April 2019**

Commodity groups according to NACE-TOL 2008	Index
Total Index	111.1
B Mining and quarrying	113.0
C Manufacturing	110.5
C10 Manufacture of food products	115.0
C171 Manufacture of pulp, paper and paperboard	112.8
C172 Manufacture of articles of paper and paperboard	107.0
C20 Manufacture of chemicals and chemical products	116.4
C24 Manufacture of basic metals	104.3
C25 Manufacture of fabricated metal products, except machinery and equipment	123.6
C26 Manufacture of computer, electronic and optical products	93.7
C27 Manufacture of electrical equipment	109.3
C28 Manufacture of machinery and equipment n.e.c.	110.5
D35 Electricity, gas, steam and air conditioning supply	114.9

**Appendix table 19. Export Price Index 2010=100, April 2019**

Commodity groups according to NACE-TOL 2008	Index
Total Index	108.7
A Agriculture, Forestry and fishing	103.7
C Manufacturing	108.8
C10 Manufacture of food products	115.0
C171 Manufacture of pulp, paper and paperboard	114.4
C172 Manufacture of articles of paper and paperboard	107.1
C20 Manufacture of chemicals and chemical products	118.1
C24 Manufacture of basic metals	102.3
C25 Manufacture of fabricated metal products, except machinery and equipment	128.3
C26 Manufacture of computer, electronic and optical products	92.7
C27 Manufacture of electrical equipment	108.1
C28 Manufacture of machinery and equipment n.e.c.	112.6
D35 Electricity, gas, steam and air conditioning supply	76.7

**Appendix table 20. Import Price Index 2010=100, April 2019**

Commodity groups according to NACE-TOL 2008	Index
Total Index	112.6
A Agriculture, Forestry and fishing	103.0
C Manufacturing	106.9
C10 Manufacture of food products	114.5
C171 Manufacture of pulp, paper and paperboard	115.2
C172 Manufacture of articles of paper and paperboard	108.2
C20 Manufacture of chemicals and chemical products	109.3
C24 Manufacture of basic metals	90.6
C25 Manufacture of fabricated metal products, except machinery and equipment	113.7
C26 Manufacture of computer, electronic and optical products	97.4
C27 Manufacture of electrical equipment	107.5
C28 Manufacture of machinery and equipment n.e.c.	109.7
D35 Electricity, gas, steam and air conditioning supply	95.8

**Appendix table 21. Basic Price Index for Domestic Supply 2010=100, April 2019**

Commodity groups according to NACE-TOL 2008	Index
Total Index	115.4
A Agriculture, Forestry and fishing	113.1
B Mining and quarrying	114.8
C Manufacturing	109.8
C10 Manufacture of food products	114.8
C171 Manufacture of pulp, paper and paperboard	110.2
C172 Manufacture of articles of paper and paperboard	107.8
C20 Manufacture of chemicals and chemical products	111.1
C24 Manufacture of basic metals	99.1
C25 Manufacture of fabricated metal products, except machinery and equipment	121.0
C26 Manufacture of computer, electronic and optical products	97.7
C27 Manufacture of electrical equipment	109.3
C28 Manufacture of machinery and equipment n.e.c.	108.2
D35 Electricity, gas, steam and air conditioning supply	114.5

**Appendix table 22. Basic Price Index for Domestic Supply 2010=100, including taxes, April 2019**

Commodity groups according to NACE-TOL 2008	Index
Total Index	118.8
A Agriculture, Forestry and fishing	114.2
B Mining and quarrying	130.8
C Manufacturing	112.7
C10 Manufacture of food products	116.2
C171 Manufacture of pulp, paper and paperboard	111.6
C172 Manufacture of articles of paper and paperboard	109.1
C20 Manufacture of chemicals and chemical products	112.4
C24 Manufacture of basic metals	100.3
C25 Manufacture of fabricated metal products, except machinery and equipment	122.5
C26 Manufacture of computer, electronic and optical products	98.9
C27 Manufacture of electrical equipment	110.6
C28 Manufacture of machinery and equipment n.e.c.	109.5
D35 Electricity, gas, steam and air conditioning supply	121.4

**Appendix table 23. Producer Price Indices for Services 2015=100, BtoAll, 1st quarter 2019**

Services by activity (CPA 2015)	Point figure	Quarterly change, %	Annual change, %
TOTAL INDEX	104.8	0.7	2.0
H TRANSPORTATION AND STORAGE SERVICES	104.4	0.4	3.0
I ACCOMMODATION AND FOOD SERVICES	108.1	1.1	2.8
J INFORMATION AND COMMUNICATION SERVICES	104.5	0.6	1.8
L REAL ESTATE SERVICES	105.1	0.4	1.7
M PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES	104.5	0.4	1.7
N ADMINISTRATIVE AND SUPPORT SERVICES	100.1	0.0	0.0
P EDUCATION SERVICES	105.6	0.2	4.9
Q HUMAN HEALTH AND SOCIAL WORK SERVICES	109.4	3.4	3.4
R ARTS, ENTERTAINMENT AND RECREATION SERVICES	104.1	0.8	0.0
S OTHER SERVICES	104.3	0.5	1.6
49 Land transport services and transport services via pipelines	103.7	0.7	3.3
49.32 Taxi operation services	109.3	3.1	6.7
49.41 Freight transport services by road	107.0	1.1	4.3
50.20 Sea and coastal freight water transport services	106.6	4.0	3.0
52 Warehousing and support services for transportation	105.0	0.3	3.5
52.10 Warehousing and storage services	109.7	-2.1	1.7
52.24 Cargo handling services	97.8	0.4	2.0
53 Postal and courier services	124.9	1.8	5.9
53.10 Postal services under universal service obligation	127.9	2.3	6.7
53.20 Other postal and courier services	109.1	-0.2	2.2
56 Food and beverage serving services	106.3	0.9	2.0
58 Publishing services	108.2	1.1	3.6
61 Telecommunications services	104.0	0.9	2.3
62 Computer programming, consultancy and related services	104.2	0.5	0.7
68.20A Rents of office premises	103.6	0.4	1.3
68.20B Rents of business premises	102.0	0.2	1.3
69 Legal and accounting services	105.6	0.5	1.6
69.10 Legal services	111.0	1.2	4.0
69.20 Accounting, bookkeeping and auditing services; tax consulting services	102.9	0.1	0.3
70.2 Management consulting services	105.7	0.8	1.9
71.2 Technical testing and analysis services	101.4	0.3	2.4
73 Advertising and market research services	103.4	0.0	0.5
73.1 Advertising services	103.1	-0.3	0.2
77.32 Rental and leasing services of construction and civil engi	95.3	-1.2	-2.7
78.20 Temporary employment agency services	103.0	0.3	1.3
81 Services to buildings and landscape	105.5	1.2	2.0
81.1 Combined facilities support services	106.5	1.0	1.8
81.2 Cleaning services	104.8	1.3	2.0
85 Education services	105.6	0.2	4.9
86 Human health services	109.4	3.4	3.4
90 Creative, arts and entertainment services	112.1	0.8	1.2
93 Sporting services and amusement and recreation services	100.6	0.8	-0.6
95 Repair services of computers and personal and household goods	106.1	0.7	2.6
96.01 Washing and (dry-)cleaning services of textile and fur products	101.6	0.7	1.2

**Appendix table 24. Producer Price Index, international comparison**

	2016–2017, %	2017–2018, %	02/2018–02/2019, %	03/2018–03/2019, %
Finland	3.4	4.6	3.0	2.3
Sweden	4.8	6.6	6.5	6.6
Germany	1.9	1.9	2.1	2.0
France	2.4	2.4	1.8 <sup>1)</sup>	1.6 <sup>1)</sup>
United Kingdom	6.1	4.3	3.4	3.5
EU-28	3.1	2.8	2.2	2.3 <sup>2)</sup>
Euro area	2.8	2.5	1.9	2.0
United States	3.5	4.5	1.0 <sup>1)</sup>	2.1 <sup>1)</sup>
Japan	3.0	2.2	0.1 <sup>1)</sup>	0.7 <sup>1)</sup>

Sources: Statistics Finland, Eurostat, U.S. Department of Labour, Bank of Japan  
The compiling methods of the indices may vary by country.

1) preliminary

2) Eurostat estimate

**Appendix table 25. Wood pellet, consumer price**

Time	Price, e/t	Price, c/kWh	Index 2010=100	Yearly Change, %
8/2018	271.0	5.70	103.8	-0.7
11/2018	276.6	5.82	106.0	2.8
2/2019	276.9	5.83	106.1	3.5

Energy prices are published on Statistics Finland's website at  
[http://tilastokeskus.fi/til/ehi/index\\_en.html](http://tilastokeskus.fi/til/ehi/index_en.html)  
The chaining coefficient of Wood Pellet Index 2005=100: 1.65310.

**Appendix table 26. Basic Price Index for Domestic Supply 2000=100 (NACE-TOL 2002), April 2019**

Commodity groups according to NACE-TOL	Index
E40 Electricity, gas, steam and hot water supply	243.0

# Quality Description of Producer Price Indices 2015=100

## 1. Relevance of statistical information

### 1.1 A summary of the information content and purpose of use of the statistics

The producer price indices 2015=100 comprise five indices: Producer price index for manufactured products, Export price index, Import price index, Basic price index for domestic supply, and Basic price index for domestic supply, including taxes. These indices measure price development of commodities from the enterprise's viewpoint and describe the relative changes in these prices against the base or comparison periods. Because the price concepts used and the included industries vary by index, the indices measure price development somewhat differently.

One of the key usages of the producer price indices is to function as a deflator in national accounts calculations. With them, the value of production or sales is converted to the volume of production. Producer price indices are also used as an index clause in agreements, which means that the final amount of a payment specified in an agreement is tied to a change in some index. Enterprises can use the data of the statistics when comparing the price development of their purchases or sales with the average development of the producer price indices. Data from producer price indices can be combined with other data on business trends, such as those on the volume index of industrial output in order to analyse business trends more closely.

### 1.2 Data sources and classifications and concepts used

#### 1.2.1 Information source

The price data of the producer price indices are collected primarily from enterprises. In addition to the data collected direct from enterprises, price data or point figures from other statistics of Statistics Finland are also used in calculating the producer price indices. The development in the prices of certain raw material headings in imports and exports is measured with the data obtained from the foreign trade statistics of Finnish Customs. In addition, data from the Natural Resources Institute Finland, the Energy Authority, the Finnish Energy Industries and some international commodity exchanges, such as the London Metal Exchange are used in the producer price indices.

#### 1.2.2 Classifications

Starting from the base year 2015, the classification is the Classification of Products by Activity CPA 2015 (CPA Ver. 2.1) which is the European Statistical Classification of Products by Activity. In addition, the classification by purpose of use, MIG is used: energy products, raw materials and producer's goods, investment goods, and durable and other consumer goods. In indices with base year 2010, the publication levels used is the Standard Industrial Classification 2008 based on the EU's standard industrial classification NACE Rev. 2. The UN's International SITC product classification (Standard International Trade Classification) is used in indices whose base year is 1949. In addition, the UN's International ISIC industry classification (International Standard Industrial Classification) is used in the Producer Price Index for Manufactured Products 1949=100.

#### 1.2.3 Concepts used

##### **Producer Price Index for Manufactured Products**

The producer price index for manufactured products 2015=100 measures average changes in the prices of goods sold by domestic producers. The index includes both goods sold at home and goods sold abroad. The price used for goods intended for the domestic market is the so-called at the factory-gate price that does not include taxes. The price for export goods is the price obtained by the exporter. It is usually the same as the export f.o.b. price (free on board). The Producer Price Index for Manufactured Products covers the commodities in industries B-E, ranging from minerals to water and waste management services.

##### **Export Price Index**

The Export Price Index 2015=100 measures changes in the f.o.b. (Free on board) prices of export goods. Foreign-currency export prices are converted to euro using the mean rate for the reference month. The

Export Price Index 2015=100 covers the commodities in industries A–E, that is, from agricultural products to water and waste management services.

### **Import Price Index**

The Import Price Index 2015=100 measures development in the c.i.f. (Cost, insurance and freight) prices of imported goods. C.i.f. prices are inclusive of cost, insurances and freight. Foreign-currency import prices are converted to euro using the mean rate for the reference month. The Import Price Index 2015=100 covers the commodities in industries A–E, from agricultural products to water and waste management services.

### **Basic Price index for Domestic Supply**

The Basic Price Index for Domestic Supply 2015=100 measures changes in the tax-free prices of goods used in Finland as they first enter the market. As the index measures the tax-free price development of total domestic supply at the stage when products leave the producers and enter the market, and correspondingly as products arrive in the country after customs, it is more accurate to talk of the basic price of a product than of the producer price. The price for domestic goods is the factory price exclusive of taxes. The price for imported goods is the c.i.f. price of the imports to which customs are added. The Basic Price Index for Domestic Supply covers the commodities in industries A–F, from agricultural products to construction.

### **Basic Price index for Domestic Supply including taxes**

The Basic Price index for Domestic Supply, Including Taxes 2015=100 corresponds with the Basic Price Index for Domestic Supply, but shows changes in the value added tax, excise taxes and car taxes. The Index includes both domestic and imported goods. The price for domestic goods comprises the factory price, value-added tax and other indirect taxes. The price for imported goods, in turn, comprises the c.i.f. price of the imports, customs duties, value-added tax and other indirect taxes. Besides the value-added tax, indirect taxes comprise diverse excise duties, and the vehicle tax. The Basic Price index for Domestic Supply, Including Taxes covers the commodities in industries A–F, from agricultural products to construction.

Other concepts can be found on the home pages of the producer price indices under “Concepts and definitions” (<http://tilastokeskus.fi/til/thi/kas.html>).

#### 1.3 Acts and decrees

The production of the Index is based on the Finnish Statistics Act (280/2004, amend.) 361/2013) and on a Council Regulation (EC) concerning short-term statistics (No 1165/1998 and 1158/2005). Only the data necessary for the calculation of the index but not available from another source are collected from data suppliers. Confidentiality is taken into account when data are published. The data or development of a single enterprise cannot be deduced on the basis of the results. The producer price indices belongs to the so-called insider statistics, data from which may not be released to the public before the set of statistics is published.

## **2. Methodological description of the survey**

### 2.1. Population and sample

The definitions of the populations of the Producer Price Indices 2015=100 differ from one another. The population of the Producer Price Index for Manufactured Products covers all commodities sold by domestic producers at market price that belong to industries B-E (from mining and quarrying to water and waste management services). The population of the Export Price Index covers all commodities sold by domestic enterprises to foreign actors that belong to industries A-E (from agriculture to water and waste management services). The population of the Import Price Index covers the products bought by enterprises operating in Finland from foreign actors that have been imported to Finland (Finnish consumption, transit export removed). The population of the Import Price Index covers all commodities that belong to industries A-E (from agriculture to water and waste management services).

The population of the Basic Price Index for Domestic Supply consists of products to be sold entering the domestic market for the first time (domestic manufacture + imports). The index covers all commodities that belong to industries A-F (from agriculture to construction). The population of the Basic Price Index for Domestic Supply, Including Taxes is the same.

The sample of the Producer Price Indices is created in two stages. First the CPA product categories have been selected and then the data provider enterprises are drawn for each CPA product category. The weight frames of CPA product categories for the producer price indices are built using the data of the supply and use tables of National Accounts and Finnish Customs' statistics on foreign trade. The supply and use tables include the summed up value of Finnish enterprises' production, exports and imports by heading. The value of production staying on the domestic market is obtained by deducting the value of exports from the value of domestic supply. The time cut-off principle is used in heading selection, that is, those CPA headings were selected for price indices in which the value of domestic supply/exports/imports was highest.

The frames of the data supplier sample have been formed on the basis of data obtained from the statistics on industrial output and the Finnish Customs' foreign trade statistics. The enterprise-specific values of exports and imports by heading were obtained from the Finnish Customs' foreign trade statistics. In terms of production that remains on the domestic market, the enterprises' heading-specific supply value has been calculated by deducting the enterprise's heading-specific value of exports from the heading-specific supply value of the commodity statistics.

The enterprise sample was drawn by stratified sampling. Stratification is based on the value has been used enterprises' domestic supply/exports/imports. Simple random sampling was used within the strata. The number of data suppliers selected for each heading depended on the size of the entire frame. The more enterprises in a sample, the more data suppliers were selected from that sample. The dominant enterprises in each heading were selected to the sample with a probability of one.

The products monitored in each commodity category or variants whose prices are monitored monthly have been selected in cooperation with the data suppliers.

## 2.2. Index calculation

The overall index of the Producer Price Index for Manufactured Products describes the average development in the prices of the headings included in the index. Geometric averages for all the headings of each enterprise are calculated on the basis of price ratios (=current price/previous price) derived from individual variants. These micro indices are combined into an overall index/product index by weighting each micro index with its own weighting coefficient. In other words, price changes of individual commodities have different-sized effects on the overall index. At the CPA product classification 4-digit level producer price indices are Laspeyres indices. Below the 4-digit level, the weights can be revised as necessary and new commodities or data suppliers included in the index.

The calculation of the Producer Price Index will be reviewed starting from the Index for January 2019 so that the indices become annual chain-linked indices. In practice, the shift to the chain-linked index method means that the weight structure of the Producer Price Index will in future be updated every year. The new weight structure will take effect starting from the Index for January of each year. In addition to the weight structure, product categories and the enterprise sample can also be updated annually, if needed. The base year of the Index remains unchanged (2015=100). In future, the index calculation will be made so that each index series is chained forward with changes in the Index calculated according to the new weight structure. A more detailed description of the calculation method is available in the updated Producer Price Index for Manufactured Products and Producer Price Indices for Services 2015=100 Handbook for Users to be published in spring. These changes improve the quality of the Index, because with their help, structural changes in production, exports and imports can be taken into account faster in future.

## 3. Correctness and accuracy of data

The Producer Price Indices are calculated using some 5,500 price data items collected from approximately 1,500 data suppliers. The numbers of data items and suppliers vary by index: for example the Producer Price Index for Manufactured Products covers some 3,000 price data items. These indices measure price

development of commodities from enterprises' viewpoint slightly and describe the relative changes in these prices against the base or comparison periods.

The accuracy of the Producer Price Indices is affected by possible sampling error and data processing errors. The magnitude of the errors has not been estimated.

The correctness of the indices is also influenced by non-response, which in producer price indices is between two and five per cent on monthly level. Efforts are made to reduce non-response by reminding respondents to supply the requested data.

#### 4. Timeliness and promptness of published data

The statistics are published on the 24th day of the month following the statistical reference month or on the first working day following it. The data for November are released on the last weekday preceding 24 December.

The price data collected from enterprises are average prices in the month of the inquiry. If an average price cannot be determined, the price data notation may also be the price for delivery/invoicing/payment on the 15th day of the month.

#### 5. Accessibility and transparency/clarity of data

##### **Statistical release**

A short release discussing the latest figures of the Producer Price Indices is published monthly online, the release can be found on the home page of the statistics. The release is published on the 24th day of the month or on the first working day following it at 8 am, the statistics for November are, however, published on the last weekday preceding 24 December.

##### **Internet service**

Data are published on the home pages of the statistics. The publication of the Producer Price Indices can be downloaded in PDF format from the home page (<http://tilastokeskus.fi/til/thi/tup.html>) after the statistics have been released. Industry-specific index series 2015=100, 2010=100 and 1949=100 are also published in Statistics Finland's self-service system (StatFin) for statistical data. The user manuals of Producer Price Indices are available in PDF format at <http://tilastokeskus.fi/til/thi/men>. Here you can also find the CPA and MIG weight structures of the indices. All the above-mentioned services are free-of-charge. In addition, Eurostat, the Statistical Office of the European Communities, publishes country-specific producer price indices data on its website.

##### **Customer-specific indices**

A customer-specific index can be compiled for groups of goods that are not included in Statistics Finland's regular index production or classification. Special indices can be produced from all producer price indices. You can inquire about chargeable special indices from Statistics Finland, phone +358 29 551 1000/ producer prices.

#### 6. Comparability of statistics

The producer price index and the implicit price index of national accounts may differ considerably from one another for some products/indices. Differences are caused, for example, by structural differences in the commodity combinations included in the indicators and by different calculation methods.

The price indices of imports and exports of Finnish Customs based on unit values differ from the import and export price indices calculated by Statistics Finland. The reason for the deviations is, on one hand, different methods and, on the other, different observation data.

A long time series 1949=100 is calculated on the producer price indices. This time series is always chained with the newest index, whereby the changes in the index correspond to the changes in the newest index.

## 7. Coherence and consistency/uniformity

The point figures of Producer Price Indices concerning a certain month are final; they are not to be revised or altered other than in exceptional cases.

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Source: Producer Price Index 2019, April. Statistics Finland