

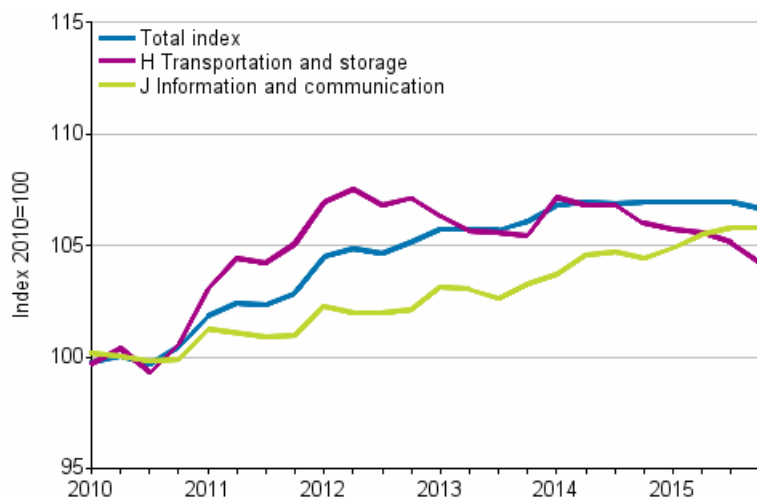
# Producer Price Indices for Services

2015, 4th quarter

## Producer prices for services fell by 0.3 per cent year-on-year in October to December

According to Statistics Finland, producer prices for services fell by 0.3 per cent in the fourth quarter of 2015 from the corresponding quarter of the year before.

**Producer Price Indices for Services 2010=100, I/2010–IV/2015**



Producer prices for services decreased particularly due to lower prices of freight transport than one year ago. Lower rents of business premises and of construction and civil engineering machinery and equipment also contributed to the fall in the total index. The fall in prices was slowed down by higher prices of computer programming and related services and postal activities under universal service obligation.

Compared to the third quarter, producer prices for services went down by 0.3 per cent.

### Producer Price Indices for Services 2010=100, 4th quarter 2015

Industry	Point figure	Quarterly change,%	Annual change,%
TOTAL INDEX	106.7	-0.3	-0.3
H Transportation and storage	104.2	-0.9	-1.7
I Accommodation and food service activities	114.1	2.3	2.0
J Information and communication	105.8	0.0	1.4
L Real estate activities	109.6	-0.9	-1.5
M Professional, scientific and technical activities	104.1	0.2	-0.1
N Administrative and support service activities	113.9	-0.7	-0.2
P Education	112.7	1.4	-2.9
Q Human health and social work activities	113.9	0.0	0.5
R Arts, entertainment and recreation	114.7	1.1	0.7
S Other service activities	112.0	-0.2	-0.6

Producer Price Indices for Services describe the price development in business services provided by enterprises to other enterprises and the public sector. The total index currently covers 57 per cent of the market services.

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# Appendix tables

**Appendix table 1. Producer Price Indices for Services 2010=100, 4th quarter 2015**

Industry (TOL 2008)	Index figure	Quarterly change,%	Annual change,%
TOTAL INDEX	106.7	-0.3	-0.3
H Transportation and storage	104.2	-0.9	-1.7
49 Land transport and transport via pipelines	105.2	-1.7	-4.2
4932 Taxi operation	112.2	0.0	0.0
4941 Freight transport by road	104.6	-1.9	-4.6
5020 Sea and coastal freight water transport	103.3	-1.6	0.0
52 Warehousing and support activities for transportation	102.2	0.1	0.9
5210 Warehousing and storage	105.0	0.0	1.7
5224 Cargo handling	100.2	0.1	0.4
53 Post and courier activities	126.1	-0.1	4.7
5310 Postal activities under universal service obligation	129.5	0.0	5.6
5320 Other postal and courier activities	109.2	-0.7	-0.5
I Accommodation and food service activities	114.1	2.3	2.0
5510 Hotels	107.7	5.7	2.6
56 Food and beverage service activities	118.4	0.4	1.6
J Information and communication	105.8	0.0	1.4
58 Publishing activities	110.4	0.0	1.3
61 Telecommunications	85.6	-0.1	3.6
62 Computer programming, consultancy and related activities	110.8	-0.1	1.0
63 Information service activities	105.5	0.3	0.7
L Real estate activities	109.6	-0.9	-1.5
6820 Rents of office and business premises	110.2	-0.8	-1.4
6820A Rents of office premises	109.5	0.7	0.3
6820B Rents of business premises	110.7	-1.8	-2.5
M Professional, scientific and technical activities	104.1	0.2	-0.1
69 Legal and accounting activities	111.2	0.1	0.7
6910 Legal services	108.8	-0.1	0.8
6920 Accounting, bookkeeping and auditing activities; tax consultancy	112.9	0.2	0.6
702 Management consultancy activities	102.0	0.5	0.2
711 Architectural and engineering activities and related technical consultancy	105.6	-0.2	0.4
712 Technical testing and analysis	101.1	-0.3	-0.6
73 Advertising and market research	100.4	0.6	-2.0
731 Advertising	100.0	0.6	-2.2
732 Market research and public opinion polling	107.9	0.0	1.2
N Administrative and support service activities	113.9	-0.7	-0.2
7732 Renting of construction and civil engineering machinery and equipment	114.8	-2.8	-3.4
7820 Temporary employment agency activities	109.7	0.9	1.2
8010 Private security activities	118.3	0.2	1.2
81 Services to buildings and landscape activities	115.0	-0.1	1.7
811 Combined facilities support activities	116.9	0.1	2.0
812 Cleaning activities	113.2	-0.3	1.4
P Education	112.7	1.4	-2.9
85 Education	112.7	1.4	-2.9

Industry (TOL 2008)	Index figure	Quarterly change,%	Annual change,%
Q Human health and social work activities	113.9	0.0	0.5
86 Human health activities	113.9	0.0	0.5
R Arts, entertainment and recreation	114.7	1.1	0.7
90 Creative, arts and entertainment activities	119.3	3.4	2.0
93 Sports activities and amusement and recreation activities	111.3	-0.6	-0.3
S Other service activities	112.0	-0.2	-0.6
95 Repair of computers and personal and household goods	116.5	0.6	2.0
96011 Washing and (dry-)cleaning of textile and fur products for enterprises	105.6	-1.3	-4.3

**Appendix table 2. Producer Price Indices for Services 2005=100, 4th quarter 2015**

Industry (TOL 2008)	Index figure	Quarterly change,%	Annual change,%
TOTAL INDEX	121.5	-0.3	-0.3
H Transportation and storage	121.7	-0.9	-1.7
49 Land transport and transport via pipelines	127.0	-1.7	-4.2
4932 Taxi operation	138.4	0.0	0.0
4941 Freight transport by road	126.0	-1.9	-4.6
5020 Sea and coastal freight water transport	112.8	-1.6	0.0
52 Warehousing and support activities for transportation	111.5	0.1	0.9
5210 Warehousing and storage	116.7	0.0	1.7
5224 Cargo handling	108.2	0.1	0.4
53 Post and courier activities	150.4	-0.1	4.7
5310 Postal activities under universal service obligation	155.1	0.0	5.6
5320 Other postal and courier activities	127.3	-0.7	-0.5
I Accommodation and food service activities	117.6	2.3	2.0
5510 Hotels	111.6	5.7	2.6
J Information and communication	106.1	0.0	1.4
58 Publishing activities	123.7	0.0	1.3
61 Telecommunications	74.4	-0.1	3.6
62 Computer programming, consultancy and related activities	121.8	-0.1	1.0
63 Information service activities	112.2	0.3	0.8
L Real estate activities	125.1	-0.9	-1.5
6820 Rents of office and business premises	125.5	-0.8	-1.4
6820A Rents of office premises	121.9	0.7	0.3
6820B Rents of business premises	129.9	-1.8	-2.5
M Professional, scientific and technical activities	127.4	0.2	-0.1
69 Legal and accounting activities	140.1	0.1	0.7
6910 Legal services	127.1	-0.1	0.8
6920 Accounting, bookkeeping and auditing activities; tax consultancy	148.1	0.2	0.6
702 Management consultancy activities	132.0	0.5	0.2
711 Architectural and engineering activities and related technical consultancy	127.5	-0.2	0.4
712 Technical testing and analysis	135.1	-0.3	-0.6
73 Advertising and market research	112.7	0.6	-2.0
731 Advertising	112.3	0.6	-2.2
732 Market research and public opinion polling	120.1	0.0	1.2
N Administrative and support service activities	130.6	-0.7	-0.2
7732 Renting of construction and civil engineering machinery and equipment	123.4	-2.8	-3.4
7820 Temporary employment agency activities	129.1	0.9	1.2
8010 Private security activities	150.6	0.2	1.2
81 Services to buildings and landscape activities	133.3	-0.1	1.7
811 Combined facilities support activities	139.2	0.1	2.0
812 Cleaning activities	125.7	-0.3	1.4
S Other service activities	110.6	-0.1	-0.6
96011 Washing and (dry-)cleaning of textile and fur products for enterprises	106.1	-1.3	-4.3

**Appendix table 3. Producer Price Indices for Services 2010=100, BtoAll series**

Year and quarter		Industry								
		50 Water transport			53 Postal and courier activities			61 Telecommunications		
		Index	q-on-q,%	y-on-y,%	Index	q-on-q,%	y-on-y,%	Index	q-on-q,%	y-on-y,%
2010	I	98.8			101.6			101.5		
	II	100.2	1.4		101.8	0.1		100.7	-0.8	
	III	100.8	0.6		98.3	-3.4		100.7	0.0	
	IV	100.2	-0.6		98.3	-0.1		97.0	-3.6	
	I-IV	100.0			100.0			100.0		
2011	I	102.7	2.6	4.0	99.0	0.7	-2.6	96.8	-0.3	-4.7
	II	105.2	2.4	5.0	99.8	0.8	-2.0	95.4	-1.4	-5.3
	III	104.1	-1.0	3.3	101.1	1.4	2.8	95.8	0.5	-4.8
	IV	105.6	1.4	5.4	101.2	0.1	3.0	94.5	-1.4	-2.6
	I-IV	104.4		4.4	100.3		0.3	95.6		-4.4
2012	I	107.4	1.6	4.5	101.5	0.3	2.6	92.1	-2.5	-4.8
	II	109.0	1.6	3.7	101.5	0.0	1.7	90.1	-2.1	-5.5
	III	108.6	-0.4	4.3	105.1	3.6	3.9	89.4	-0.8	-6.7
	IV	107.8	-0.8	2.0	107.0	1.8	5.7	87.4	-2.3	-7.5
	I-IV	108.2		3.6	103.8		3.5	89.8		-6.1
2013	I	105.2	-2.4	-2.0	107.5	0.5	5.9	83.1	-5.0	-9.8
	II	104.5	-0.7	-4.1	109.7	2.0	8.1	81.6	-1.7	-9.4
	III	104.3	-0.2	-4.0	109.8	0.1	4.5	80.9	-0.9	-9.5
	IV	101.7	-2.5	-5.6	109.9	0.0	2.7	82.4	1.8	-5.7
	I-IV	103.9		-3.9	109.2		5.3	82.0		-8.6
2014	I	105.0	3.2	-0.2	119.7	9.0	11.3	83.0	0.8	-0.1
	II	102.7	-2.2	-1.8	119.5	-0.2	8.9	84.1	1.3	3.0
	III	103.8	1.1	-0.5	119.6	0.1	8.9	82.7	-1.6	2.2
	IV	102.5	-1.2	0.8	119.2	-0.3	8.5	79.1	-4.4	-4.0
	I-IV	103.5		-0.4	119.5		9.4	82.2		0.3
2015	I	104.2	1.6	-0.8	124.5	4.5	4.0	78.9	-0.3	-5.0
	II	108.8	4.4	6.0	124.7	0.2	4.4	79.0	0.1	-6.1
	III	105.7	-2.9	1.8	124.6	-0.1	4.2	79.5	0.7	-3.9
	IV	101.7	-3.8	-0.8	124.4	-0.2	4.4	78.7	-1.0	-0.5
	I-IV	105.1		1.6	124.6		4.2	79.0		-3.9

BtoAll (*Business to All*) index series describe the price development of services produced by enterprises for all end users. In addition to the price development of the Business to Business (*BtoB*) services and services enterprises produce for the public sector, they also cover the price development of Business to Consumers (*BtoC*) services provided by enterprises to households.

# Quality Description of Producer Price Index for Services

## 1. Relevance of statistical information

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

Producer Price Index for Services describes the price development in business services provided by enterprises to other enterprises and the public sector. The index describes the relative change in prices compared to a certain base period.

The Producer Price Index for Services is compiled on product basis. The index describes development in the prices of certain types of services irrespective of the main industry of the producing enterprise. If a service enterprise also produces goods, its goods production is excluded from the scope of the Producer Price Index for Services. On the other hand, an enterprise that mainly produces industrial goods may also produce services in which case its services production is included in scope of the description of the Producer Price Index for Services.

One of the key purposes of the Producer Price Index for Services is to function as a deflator in national accounts calculations. With it the value of production or sales is converted to volume of production. Enterprises can use the data of the Producer Price Index for Services when comparing the price development of their purchases or sales with the average development of the industry.

### 1.2 Information source and classifications used

#### 1.2.1 Information source

As a rule, price data for the Producer Price Indices for Services are collected from enterprises quarterly. Besides the data collected from enterprises, price data or point figures from Statistics Finland's other statistics are also exploited in the compilation of the Producer Price Indices for Services.

#### 1.2.2 Classifications

The industrial classification used in the compilation is the Finnish Standard Industrial Classification TOL 2008, which has been confirmed by Statistics Finland and is based on NACE Rev. 2., the industrial classification of the European Union. As far as appropriate, the services of specific industries are classified into main groups according to the CPA product classification, which is the European Union's classification of goods and services by activity. Where necessary, detailed product classifications are used within the individual service product categories of the CPA.

### 1.3 Laws and regulations

The production of the statistics is based on the Statistics Act (280/2004) and on a Council Regulation (EC) concerning short-term statistics (No 1165/1998 and No 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 releasing the data; it is not possible to identify from the results information or development concerning an individual enterprise.

## 2. Methodological description of survey

### 2.1. Compilation of the index

Statistics Finland's Business Register is used as the sampling frame for the Producer Price Indices for Services. In addition, Business Services Statistics is used in some cases. The Business Register contains data on the industry and turnover of enterprises. The Business Services Statistics describe the structure of turnover and services produced in certain branches of industry providing business services. The indices have been developed independently for individual service industries, which is why the used sampling method varies by industry. Depending on the industry, the data suppliers have been selected either by PPS (Probability Proportional to Size) sampling, judicious sampling or by combining judicious sampling and probability-based sampling. The services for the price monitoring have been selected in co-operation with service enterprises.



The Laspeyres price index formula is used in calculating the index. Geometric averages of price ratios calculated from the prices of individual service products are combined into indices for the main product groups of an enterprise, and then weighted into its overall index using a specific coefficient for each main group. The weighting coefficients are based on enterprises' turnover and its distribution between the main groups of the enterprise. The turnover figures used in the weighting are either obtained from the data reported by the enterprises themselves or from Statistics Finland's Business Register, and figures should represent only the turnover that stems from a certain industry.

The overall index is calculated by means of industry indices. The weights between different industries are based on national accounts data on the use of enterprises' and the public sector's services. The weight structure corresponds to the values of 2010.

Further information about compiling the Producer Price Indices for Services is available in the Methodological descriptions of the statistic.

## 2.2. Development and publication of new indices

Statistics Finland will enlarge the coverage of total index by developing indices for new services industries. Publication of new indices can commence once data concerning an industry have been collected from an adequately large number of enterprises for at least twelve months and once it has been verified that index figures depicting average price development in the industry can be sufficiently reliably calculated from the prices provided by the data suppliers.

The development of Producer Price Index for Services was started in 2000, and indices for new service industries are being devised continuously. In connection with the 2010=100 renewal, industries Passenger rail transport, interur-ban (TOL 2008: 491), Food and beverage service activities (TOL 2008: 56), Real estate agencies (TOL 2008: 6831), Education (TOL 2008: 85), Human health activities (TOL 2008: 86), Creative, arts and entertainment activities (TOL 2008: 90), Sports activities and amusement and recreation activities (TOL 2008: 93) and Repair of computers and personal and household goods (TOL 2008: 95) were included to the index.

The total index currently covers about 60 per cent of the market services. The service industries excluded from the overall index are wholesale and retail trade activities and financial and insurance activities.

## 3. Correctness and accuracy of data

The Producer Price Index for Services is calculated on the basis of over 17,500 prices collected from approximately 360 data suppliers. The number of prices and data suppliers varies by industry. Roughly 15,000 of price data concern the rents of office and business premises. The Producer Price Index for Services describes the relative change in prices compared to a certain base period.

## 4. Timeliness and promptness of published data

Indices are published on the 24th day or the weekday following it of the month following the end of the statistical reference quarter.

Depending on the industry, the time of collecting price data from enterprises may be the first, second or third month of the quarter under review. In some cases real charged unit prices are collected for the whole quarter under review.

## 5. Accessibility and transparency/clarity of data

Producer Price Indices for Services is a quarterly statistics. Indices are published on the 24th day or the weekday following it of the month following the end of the statistical reference quarter at 9 a.m.

## 6. Comparability of statistics

The time series of the overall index of producer prices for services starts from the year 2005. The length of the industry-specific time series varies depending on when the production of the industry index started.

## 7. Coherence and consistency/uniformity

Documentation on the Producer Price Index for Services is available on the home page of the statistics, and from the Statistics Finland's unit which produces the statistics (e-mail [phti.tilastokeskus@stat.fi](mailto:phti.tilastokeskus@stat.fi), tel. +358 29 551 1000 / Producer Price Index for Services).

Producer Price Indices for Services describe the price development in business services provided by enterprises to other enterprises and the public sector. Consumer services are thus excluded from the Producer Price Index for Services. The development of consumer service prices is described with the Consumer Price Index. Information about other price and cost indices is available on the homepage of indices at [http://www.tilastokeskus.fi/til/hin\\_en.html](http://www.tilastokeskus.fi/til/hin_en.html).

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