

# COMMUNICATION

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## Consumer price index by COICOP - April 2010

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Republic of Serbia<sup>1)</sup>

COICOP		Structure (%)	IV 2010	IV 2010	IV 2010	I-IV 2010	I-IV 2010	IV 2010
			Ø 2009	III 2010	IV 2009	Ø 2009	I-IV 2009	XII 2009
00	TOTAL	100,00	103,9	100,6	104,3	102,8	104,4	102,5
01	Food and non – alcoholic beverages	37,77	100,0	100,6	98,6	99,4	99,0	100,2
02	Alcoholic beverages, tobacco	5,14	109,2	100,4	109,3	108,6	109,5	108,8
03	Clothing and footwear	6,01	103,9	100,0	105,5	103,9	106,3	100,5
04	Housing, water, electricity, gas and other fuels	15,06	107,9	100,1	108,8	104,9	106,3	106,4
05	Furnishings household equipment and routine maintenance of the house	4,94	106,2	100,5	108,1	105,1	108,4	102,8
06	Health	4,25	102,1	101,2	100,5	101,2	104,5	101,9
07	Transport	11,01	108,8	101,5	113,2	106,8	114,1	104,2
08	Communication	3,52	102,3	100,4	104,8	102,0	104,4	100,7
09	Recreation and culture	5,16	104,6	100,7	105,4	103,6	106,5	102,1
10	Education	1,11	104,3	99,4	105,7	104,3	105,8	102,8
11	Restaurants and hotels	2,00	105,6	100,3	106,5	105,2	106,9	102,0
12	Miscellaneous goods and services	4,03	104,6	100,6	106,1	103,5	105,6	102,7

### Inflation rate measured by Consumer price indices by COICOP

Republic of Serbia<sup>1)</sup>

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<b>Annual rate<sup>2)</sup></b>												
2009	10,0	10,7	9,4	8,8	9,1	8,3	8,5	8,0	7,3	5,2	5,9	6,6
2010	4,8	3,9	4,7	4,3	-	-	-	-	-	-	-	-
<b>Monthly rate<sup>3)</sup></b>												
2009	2,1	1,2	0,4	0,9	2,1	0,0	-0,9	-0,1	0,3	-0,2	0,8	-0,2
2010	0,5	0,3	1,2	0,6	-	-	-	-	-	-	-	-

<sup>1)</sup> Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available certain data relative to AP Kosovo and Metohia and therefore these data are not included in the coverage for the Republic of Serbia (total).

<sup>2)</sup> Annual inflation rate - Price changes in the current month as compared to the same month of the previous year, in %.

<sup>3)</sup> Monthly inflation rate - Price changes in the current month as compared to the previous month, in %.

## Consumer price index by COICOP - April 2010

Republic of Serbia<sup>1)</sup>

COICOP		Structure (%)	IV 2010	IV 2010	IV 2010	I-IV 2010	I-IV 2010	IV 2010
			Ø 2009	III 2010	IV 2009	Ø 2009	I-IV 2009	XII 2009
00	TOTAL	100,00	103,9	100,6	104,3	102,8	104,4	102,5
01	Food and non – alcoholic beverages	37,77	100,0	100,6	98,6	99,4	99,0	100,2
01.1	Food	34,11	99,7	100,6	98,0	99,1	98,3	100,2
01.1.1	Bread and cereals	7,12	97,6	100,4	96,6	97,5	96,2	99,2
01.1.2	Meat	9,40	93,8	100,4	94,5	95,3	95,7	94,3
01.1.3	Fish	1,05	96,3	100,6	96,9	95,4	97,7	100,6
01.1.4	Milk, cheese and eggs	6,07	98,9	99,7	97,7	99,2	97,7	99,1
01.1.5	Oils and fats	1,24	87,8	101,6	92,0	88,1	89,4	97,3
01.1.6	Fruit	2,31	92,7	101,6	90,0	87,9	88,1	110,6
01.1.7	Vegetables	3,94	124,1	102,2	108,3	118,5	111,1	110,5
01.1.8	Sugar, jam, honey, chocolate and confectionery	1,89	104,3	100,4	106,3	103,4	106,3	101,9
01.1.9	Food products n.e.c.	1,09	103,7	100,3	106,2	103,3	108,1	101,4
01.2	Non- alcoholic beverages	3,66	102,7	100,2	104,1	102,3	104,8	100,7
01.2.1	Coffee, tea and cocoa	1,52	102,8	99,9	104,5	102,8	106,2	100,1
01.2.2	Mineral waters, soft, drinks, fruit and vegetables juices	2,14	102,7	100,4	103,7	102,0	103,8	101,1
02	Alcoholic beverages, tobacco	5,14	109,2	100,4	109,3	108,6	109,5	108,8
02.1	Alcoholic beverages	1,31	106,3	101,5	106,6	104,2	107,3	104,8
02.1.1	Spirits	0,24	104,9	100,9	105,8	104,0	108,4	102,7
02.1.2	Wine	0,25	106,0	99,7	106,7	105,4	108,2	103,4
02.1.3	Beer	0,82	106,8	102,2	106,8	103,9	106,7	105,9
02.2	Tobacco	3,83	110,2	100,0	110,2	110,2	110,2	110,2
03	Clothing and footwear	6,01	103,9	100,0	105,5	103,9	106,3	100,5
03.1	Clothing	3,71	104,1	99,8	105,9	104,4	107,1	100,4
03.1.1	Clothing materials	0,06	102,7	100,2	102,8	102,5	103,7	100,3
03.1.2	Garments	3,54	104,2	99,7	106,0	104,5	107,4	100,3
03.1.3	Other articles of clothing and clothing accessories	0,05	100,2	102,3	99,8	98,3	96,8	103,1
03.1.4	Cleaning, repair and hire of clothing	0,06	104,3	101,0	104,5	103,3	104,5	103,5
03.2	Footwear	2,30	103,6	100,3	104,9	103,2	104,7	100,8
03.2.1	Shoes and other footwear	2,27	103,6	100,3	104,9	103,2	104,8	100,8
03.2.2	Repair of footwear	0,03	102,0	100,1	102,0	101,8	102,0	101,9
04	Housing, water, electricity, gas and other fuels	15,06	107,9	100,1	108,8	104,9	106,3	106,4
04.1	Actual rentals for housing	1,10	105,7	99,6	105,6	105,0	105,1	103,5
04.3	Maintenance and repair of the dwelling	1,19	104,0	99,6	106,0	103,9	107,1	100,5
04.3.1	Materials for the maintenance and repair of the dwelling	0,52	104,4	100,2	106,4	103,8	107,4	101,3
04.3.2	Services for the maintenance and repair of the dwelling	0,67	103,6	99,1	105,9	104,0	107,0	99,9
04.4	Water supply and miscellaneous services related to the dwelling	1,51	111,0	100,0	114,2	109,1	117,3	106,8
04.4.1	Water supply	0,98	114,1	100,0	118,1	112,1	122,3	107,9
04.4.2	Refuse collection	0,42	102,9	100,0	102,3	101,1	102,4	103,8
04.4.3	Sewerage collection	0,11	114,2	100,0	118,4	112,3	122,5	107,9
04.5	Electricity, gas and other fuels	11,26	108,1	100,2	108,8	104,5	105,0	107,2
04.5.1	Electricity	6,63	111,5	100,0	111,5	105,8	105,8	111,5
04.5.2	Gas	0,50	103,5	100,3	105,0	103,2	104,4	101,0
04.5.3	Liquid fuels	0,01	137,1	101,7	154,5	128,8	155,2	117,1
04.5.4	Solid fuels	2,87	102,4	100,7	103,2	101,7	102,0	101,2
04.5.5	Heat energy	1,25	104,7	100,0	106,5	104,1	106,6	101,1

<sup>1)</sup> Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available certain data relative to AP Kosovo and Metohia and therefore these data are not included in the coverage for the Republic of Serbia (total).

## Consumer price index by COICOP - April 2010

Republic of Serbia<sup>1)</sup>

(continued)

COICOP		Structure (%)	IV 2010	IV 2010	IV 2010	I-IV 2010	I-IV 2010	IV 2010
			Ø 2009	III 2010	IV 2009	Ø 2009	I-IV 2009	XII 2009
<b>05</b>	<b>Furnishings household equipment and routine maintenance of the house</b>	<b>4,94</b>	<b>106,2</b>	<b>100,5</b>	<b>108,1</b>	<b>105,1</b>	<b>108,4</b>	<b>102,8</b>
05.1	Furniture and furnishings, carpets and other floor coverings	0,78	102,5	99,9	103,1	102,7	104,8	99,9
05.1.1	Furniture and furnishings	0,67	102,1	99,8	102,8	102,3	104,4	99,7
05.1.2	Carpets and other floor coverings	0,11	105,1	100,5	104,8	104,9	107,1	101,3
05.2	Household textiles	0,13	102,3	100,8	101,8	101,5	102,0	101,5
05.3	Household appliances	1,35	103,2	101,0	104,1	102,3	104,0	102,1
05.3.1	Major household appliances	1,17	102,3	100,9	103,2	101,5	103,4	101,0
05.3.2	Small household appliances	0,06	98,7	101,9	100,1	97,6	98,2	100,0
05.3.3	Repair of household appliances	0,12	114,3	101,6	114,8	112,4	113,3	113,7
05.4	Glassware, tableware and household utensils	0,15	105,8	102,3	106,8	103,5	105,2	104,5
05.5	Tools and equipment for house and garden	0,16	101,7	99,0	103,3	102,7	104,5	98,7
05.5.1	Major tools and equipment	0,05	101,4	98,5	101,4	103,1	103,9	98,1
05.5.2	Small tools and miscellaneous accessories	0,11	101,9	99,3	104,4	102,6	105,0	99,1
05.6	Goods and services for routine household maintenance	2,37	109,6	100,5	112,9	108,0	113,2	104,4
05.6.1	Non-durable household goods	2,30	109,5	100,4	112,7	107,9	113,1	104,1
05.6.2	Domestic services and household services	0,07	115,1	103,6	114,7	111,4	112,3	114,6
<b>06</b>	<b>Health</b>	<b>4,25</b>	<b>102,1</b>	<b>101,2</b>	<b>100,5</b>	<b>101,2</b>	<b>104,5</b>	<b>101,9</b>
06.1	Medical products, appliances and equipment	2,91	101,8	101,7	99,0	100,7	104,5	101,9
06.1.1	Pharmaceutical products	2,87	101,6	101,7	98,8	100,5	104,4	101,8
06.1.2	Other medical products	0,04	115,5	104,9	112,4	112,1	111,7	108,4
06.2	Out-patient services	1,34	102,8	100,0	103,6	102,5	104,4	101,8
06.2.1	Medical services	0,50	102,6	100,0	104,4	102,1	105,2	101,1
06.2.2	Dental services	0,58	103,3	100,0	103,6	103,0	104,2	102,6
06.2.3	Paramedical services	0,26	102,1	100,0	102,4	102,1	103,5	101,2
<b>07</b>	<b>Transport</b>	<b>11,01</b>	<b>108,8</b>	<b>101,5</b>	<b>113,2</b>	<b>106,8</b>	<b>114,1</b>	<b>104,2</b>
07.1	Purchase of vehicles	1,92	101,0	100,8	101,7	100,8	100,3	100,1
07.1.1	Motor cars	1,88	100,7	100,7	101,4	100,6	100,1	99,9
07.1.3	Bicycles	0,04	114,9	103,6	119,5	110,8	117,1	106,0
07.2	Operation of personal transport equipment	6,87	112,9	102,1	121,0	110,0	122,1	106,1
07.2.1	Spare parts and accessories for personal transport equipment	0,87	103,1	100,7	106,6	102,4	106,8	101,0
07.2.2	Fuels and lubricants for personal transport equipment	4,69	114,6	102,7	125,7	111,4	128,9	105,6
07.2.3	Maintenance and repair of personal transport equipment	1,03	114,1	100,9	117,0	109,8	113,2	111,8
07.2.4	Other services in respect of personal transport equipment	0,28	112,0	100,2	114,0	109,6	112,0	108,9
07.3	Transport services	2,22	102,8	100,0	101,5	102,3	104,1	101,4
07.3.1	Passenger transport by railway	0,05	116,7	100,0	116,7	108,3	108,3	116,7
07.3.2	Passenger transport by road	2,12	102,4	100,0	101,0	102,0	103,9	101,0
07.3.3	Passenger transport by air	0,05	106,3	100,0	106,0	105,3	105,5	104,0
<b>08</b>	<b>Communication</b>	<b>3,52</b>	<b>102,3</b>	<b>100,4</b>	<b>104,8</b>	<b>102,0</b>	<b>104,4</b>	<b>100,7</b>
08.1	Postal services	0,03	100,0	100,0	100,0	100,0	100,0	100,0
08.2	Telephone and telefax equipment	0,19	107,3	102,0	104,5	104,0	101,8	107,7
08.3	Telephone and telefax services	3,30	102,1	100,3	104,6	101,9	104,4	100,3

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## Consumer price index by COICOP - April 2010

Republic of Serbia<sup>1)</sup>

(continued)

COICOP		Structure (%)	IV 2010	IV 2010	IV 2010	I-IV 2010	I-IV 2010	IV 2010
			Ø 2009	III 2010	IV 2009	Ø 2009	I-IV 2009	XII 2009
09	<b>Recreation and culture</b>	<b>5,16</b>	<b>104,6</b>	<b>100,7</b>	<b>105,4</b>	<b>103,6</b>	<b>106,5</b>	<b>102,1</b>
09.1	Audio-visual, photographic and information processing equipment	1,17	100,0	101,3	99,0	99,2	98,1	101,3
09.1.1	Equipment for the reception, recording and reproduction of sound and pictures	0,67	98,5	101,0	97,7	97,9	96,8	100,5
09.1.2	Photographic and cinematographic equipment and optical instruments	0,08	99,3	99,3	99,6	99,4	99,2	101,0
09.1.3	Information processing equipment	0,22	106,0	104,2	-	103,4	-	106,0
09.1.4	Recording media	0,18	97,9	99,4	97,7	98,5	98,4	98,6
09.1.5	Repair of audio - visual, photographic and information processing equipment	0,02	104,0	100,4	104,2	102,8	103,3	103,6
09.2	Other major durables for recreation and culture	0,01	101,6	100,2	101,1	101,3	100,8	100,9
09.3	Other recreational items and equipment, gardens and pets	0,43	108,5	103,4	106,6	104,9	104,8	105,5
09.3.1	Games, toys and hobbies	0,18	111,8	106,4	113,0	105,9	107,4	108,2
09.3.3	Gardens, plants and flowers	0,17	106,9	99,8	100,0	105,9	102,4	103,3
09.3.4	Pets and related products	0,08	104,2	104,9	-	100,8	-	104,2
09.4	Recreational and cultural services	1,54	108,8	100,2	107,8	107,5	112,2	103,9
09.4.1	Recreational and sporting services	0,20	101,5	100,0	101,6	101,5	102,6	100,0
09.4.2	Cultural services	1,34	109,9	100,2	108,7	108,3	113,6	104,5
09.5	Newspapers, books and stationery	2,01	103,1	100,2	106,1	102,9	106,1	100,4
09.5.1	Books	0,91	104,1	100,1	108,5	104,1	108,6	99,9
09.5.2	Newspapers and periodicals	0,83	101,1	100,0	102,8	101,1	102,8	100,0
09.5.4	Stationery and drawing materials	0,27	106,3	100,9	108,4	104,7	107,7	103,2
10	<b>Education</b>	<b>1,11</b>	<b>104,3</b>	<b>99,4</b>	<b>105,7</b>	<b>104,3</b>	<b>105,8</b>	<b>102,8</b>
11	<b>Restaurants and hotels</b>	<b>2,00</b>	<b>105,6</b>	<b>100,3</b>	<b>106,5</b>	<b>105,2</b>	<b>106,9</b>	<b>102,0</b>
11.1	Catering services	1,79	104,3	100,3	104,9	103,8	105,2	102,4
11.2	Accommodation services	0,21	116,8	100,0	121,2	117,2	121,9	99,3
12	<b>Miscellaneous goods and services</b>	<b>4,03</b>	<b>104,6</b>	<b>100,6</b>	<b>106,1</b>	<b>103,5</b>	<b>105,6</b>	<b>102,7</b>
12.1	Personal care	2,65	104,8	100,7	106,5	103,8	106,4	102,6
12.1.1	Hairdressing salons and personal grooming establishments	0,89	102,3	100,0	103,0	102,1	103,7	100,9
12.1.2	Electric appliances for personal care	0,05	108,8	101,6	112,7	106,0	110,1	104,8
12.1.3	Other appliances, articles and products for personal care	1,71	106,0	101,1	108,2	104,6	107,7	103,4
12.3	Personal effects n.e.c.	0,23	110,1	102,0	111,0	107,8	109,3	107,0
12.3.1	Jewellery, clocks and watches	0,08	119,4	105,5	120,5	113,5	115,7	118,6
12.3.2	Other personal effects	0,15	105,2	100,0	106,0	104,8	105,9	101,0
12.4	Social protection	0,23	110,0	100,0	113,1	106,6	109,9	106,7
12.5	Insurance	0,60	100,4	99,9	100,4	100,3	100,1	100,3
12.5.2	Insurance connected with the dwelling	0,19	100,0	100,0	100,0	100,0	100,0	100,0
12.5.4	Insurance connected with transport	0,41	100,6	99,9	100,5	100,5	100,2	100,5
12.6	Financial services n.e.c.	0,14	101,7	100,2	103,2	101,5	103,1	100,2
12.7	Other services, n.e.c.	0,18	104,1	99,3	105,3	102,7	102,7	103,9
	<b>Goods<sup>2)</sup></b>	<b>81,17</b>	<b>103,7</b>	<b>100,7</b>	<b>103,9</b>	<b>102,5</b>	<b>104,0</b>	<b>102,5</b>
	<b>Services<sup>2)</sup></b>	<b>18,83</b>	<b>104,8</b>	<b>100,1</b>	<b>105,7</b>	<b>104,0</b>	<b>106,3</b>	<b>102,6</b>

<sup>1)</sup> Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available certain data relative to AP Kosovo and Metohia and therefore these data are not included in the coverage for the Republic of Serbia (total).

<sup>2)</sup> See methodological notes.

## Methodological notes

Consumer price index by COICOP (CPI - COICOP) presents a specific index of retail prices, calculated according to the methodology that is harmonized with the recommendations for calculation of retail prices index in the European Union (Harmonized Consumer Price Index) and its coverage is particularly adjusted to our conditions.

Index is calculated and published for the Republic of Serbia.

The main differences between CPI-COICOP and Index of retail prices and CPI classic are the following:

- **Coverage** - list of products and services also includes rent, financial services, educational services, insurance services, catering trade services as well as health services
- **Weights**
- **Classification** - COICOP HICP classification
- **Formulae for the index calculation at the lowest level of aggregating** - geometrical mean

### Definition of consumer price index

CPI-COICOP is defined as the measure of the average change of prices of the fixed basket of goods and services, which is purchased by households and which aims to satisfy the households' needs. The index measures price changes in time and the consumption structure of the base period is used for both of the comparative periods (Laspeyre's type index).

### Purpose

CPI-COICOP presents index of retail prices that is comparable with the Harmonized Consumer Price Index of the European Union. It is used as the deflator of the households' final consumption.

### Population coverage

All private residential households (that are permanently settled on the economic territory of the country) are covered. Neither consumption of the collective households, nor non – residents consumption are covered.

### Geographical coverage

The territory of the Republic of Serbia, excluding AP Kosovo and Metohia, is covered. Prices are collected in 15 towns – major administrative and trade centers, including Belgrade, Valjevo, Zajecar, Kragujevac, Kraljevo, Leskovac, Nis, Smederevo, Uzice, Sabac, Novi Sad, Sremska Mitrovica, Zrenjanin, Subotica and Pancevo.

### Products coverage

The most significant products and services that are purchased by the households and that satisfy the households' final consumption are covered. Purchasing of the second – hand goods, remuneration in kind, life insurance and gifts are excluded. This list also excludes imputed rent, outlays for investments (dwellings, land, etc.) and outlays for lottery games. The list of products is regularly revised in order to preserve its representative role, referring to structure of consumption and consumers' habits. Products are included in the list when their share within the total consumption of the households becomes greater than 0.1 %.

**Goods** are products excluding services.

**Services** include cleaning, sawing and repairs of clothing and footwear, rents, maintenance and repair of the dwelling, public utility services (except household water supply), services in respect of health, transport and personal transport equipment, communication, recreation and culture, education, insurance, personal care and other services n.e.c.

## Collection of prices data

Majority of prices is collected in the field, by visiting the shops in the selected towns. Price collectors, full – time employees of the Republican Statistical Office, visit these shops every month, according to the defined plan of prices collection and collect the prices referring to the representative list of goods and services. Method of selection of products and shops is defined by the methodology and it provides comparability of prices in time, but not the territorial comparability of price levels by towns, where the prices are recorded.

Prices of approximately 10 % of products and services (prices that are controlled by the Republic or prices that are the same on the whole territory) are collected in centralized manner, by phone, via the Internet or by particular reports provided by enterprises and sent to the Republican Statistical Office. For the products and services of this group, the valid prices are those as of the 15th of the month.

## Weights

Weights present share of the selected goods and services in the overall consumption of the households. The main sources of weights are the Household Consumption Survey and structure of the final consumption of the households, taken from the Gross Domestic Product. When calculating consumers' prices index for 2010, consumption structure of 2008, revised by prices growth in 2009, is used.

## Classification

For calculation of consumers' prices index, we use the Classification of goods and services of individual consumption by purpose, adjusted to the requirements of Harmonized Price Index calculation (Classification of Individual Consumption by Purpose, COICOP HICP).

## Calculation of average monthly price

Average monthly price of a product is first calculated at the town level, then at the level of the territory of Central Serbia and Autonomous Province of Vojvodina and finally at the level for the Republic of Serbia. Referring to the town level, simple geometrical mean of the collected prices is used, while referring to the level of territories, we use weighted geometrical mean of the average prices by towns. Average monthly price for the Republic of Serbia is weighted geometrical mean of the average prices of the territories.

## Index computation

Monthly base index of a product is computed as relation between average monthly price and base price, which is, referring to calculation of consumers' price index, average annual price of the previous year.

For computation of monthly base indices at higher levels of aggregating, Laspeyre's formula is applied.

$$I_m = \frac{\sum_k w_k i_k^m}{\sum_k w_k}$$

where  $w_k$  presents weight, and  $i_k^m$  is individual base monthly index of the product k.

## Data dissemination

Data are published on the 12<sup>th</sup> of a month, referring to the previous month, in the edition of Communications, marked with CN11, as well as on the Internet site of the Statistical Office of the Republic.

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