Blv. Zhan d'Ark , nr. 3 Tiranë, 1001 Tel: +355 4 2222 411 Faks: +355 4 2228300 info@instat.gov.al www.instat.gov.al



Consumer Price Index

July, 2015

Tirana, on August 10, 2015: Consumer Price Index in July arrived 117.3 % considerate December 2007 as base period.

In July 2015 the annual rate of consumer price is 1.3 %. A year before the annual rate was 1.8 %.

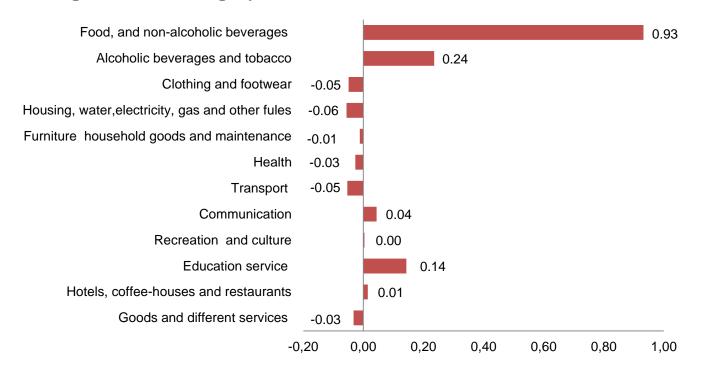
Contribution of main groups in yearly changes of CPI: Annual growth rate in July was push up mainly from "Food and non-alcoholic beverage" group by +0.93 p.p. Higher prices of "Alcoholic beverages and tobacco" group contributed by +0.24 p.p.. Prices of "Education service" group contributed by +0.14 p.p. in annual rate. Prices of "Communication" groups contributed by +0.04 p.p.. Price of "Housing, water, electricity gas and other fuel" group contributed by -0.06 p.p., Prices of "Clothing and footwear" and "Transport" groups, contributed each of them by -0.05 p.p. Prices of "Health" and "Goods and different services" groups contributed each of them by -0.03 p.p. (see Fig. 2, pg 2)

Yearly rate of main groups: Compared to July 2014, prices increased the most in the group "Education services" group by 10.1 %, followed by "Alcoholic drinks and tobacco" by 6.6 %, "Communication" group by 1.7 %, etc. Prices in "Food and non-alcoholic beverage" group are increased by 2.4 %. In this group prices of "fruits" subgroup are increased by 10.8 %, followed by "vegetables include potatoes" by 9.4 %, "fish" by 1.7 %, "sugar, jam and dessert" subgroup by 1.0 %, etc. Meanwhile prices of "milk, cheese and eggs" subgroup are decreased by 3.4 %, followed by "coffee and tea" subgroup by 0.7 % "oil and feat" subgroup by 0.5 %, etc. On the other hand prices decreased the most in the "Clothing and footwear" group by 1.0 % followed by "Health" group by 0.9 %, "Transport" group by 0.8 % etc.

Monthly rate of consumer price is -0.7 %. Compared to June 2015 prices decreased the most in the "Food and non-alcoholic beverage" group by 1.5 %. The prices are increased the most in the "Transport" and "Health" groups by 0.4 %. Compared with previous month price of diesel was increase by 0.7 % and price of petrol was increase by 0.9 %.



Fig. 2 Contribute of main groups in annual rate



Notice: Contribution measure the impact of each expenditure main groups on the total yearly changes of the consumer price index in percent point. The total contribution is equal with yearly changes. For example yearly changes of "Alcoholic beverage and tobacco"" group in May 2015 is 6.6 %, their contribution on the yearly changes is + 0.24 p.p..

Tab. 1 Consumer Price Index

Decem	December 2007=100														%
Code	Groups	Weights	07-14	08-13	09-14	10-14	11-14	12-14	01-15	02-15	03-15	04-15	05-15	06-15	07-15
	Total	100.0	115.9	116.0	116.3	116.4	116.1	117.0	118.6	121.4	121.9	121.3	119.4	118.1	117.3
1	Food, and non-alcoholic beverages	39.3	124.3	124.5	125.1	124.4	123.3	125.8	129.9	137.0	138.4	137.2	132.2	129.2	127.2
2	Alcoholic beverages and tobacco	3.6	138.5	138.5	138.3	139.4	142.9	143.9	144.6	146.0	146.5	147.3	147.6	148.0	147.5
3	Clothing and footwear	5.1	83.1	83.0	83.5	85.5	86.2	85.7	85.6	84.1	83.5	83.4	83.2	82.8	82.3
4	Housing, water, electricity, gas and other fuels	16.3	114.2	114.1	114.1	115.1	115.4	115.7	115.9	115.8	115.3	113.6	113.5	113.7	113.8
5	Fumiture household goods and maintenance	10.0	103.3	103.4	103.5	103.3	103.1	103.1	103.1	102.9	102.9	103.1	103.2	103.1	103.1
6	Health	3.4	114.8	114.9	114.9	114.9	115.4	114.9	115.7	116.6	116.6	117.1	117.1	113.4	113.9
7	Transport	6.1	120.1	120.5	120.2	119.7	119.3	116.6	114.9	115.7	116.8	117.8	118.1	118.6	119.0
8	Communication	2.6	81.6	81.6	82.1	82.1	82.8	83.0	83.0	82.9	82.9	83.0	83.0	83.0	83.0
9	Recreation and culture	3.1	114.7	114.8	115.6	115.2	115.1	114.8	115.0	115.5	115.4	115.4	115.4	115.3	114.8
10	Education service	1.4	110.2	110.2	110.7	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
11	Hotels, coffee-houses and restaurants	4.2	112.3	112.3	112.8	113.0	112.8	112.5	112.6	112.6	112.6	112.6	112.6	112.7	112.7
12	Goods and different services	4.9	116.1	115.9	116.3	116.4	116.0	115.7	115.6	115.4	115.3	115.8	115.9	115.8	115.3

Tab. 2 Monthly rate of CPI

													%
Groups	07-14	08-13	09-14	10-14	11-14	1214	01-15	02-15	03-15	04-15	05-15	06-15	07-15
Total	-0.6	0.1	0.3	0.1	-0.2	0.7	1.4	2.4	0.4	-0.5	-1.6	-1.1	-0.7
Food. and non-alcoholic beverages	-1.2	0.2	0.5	-0.6	-0.9	2.0	3.3	5.4	1.0	-0.8	-3.6	-2.3	-1.5
Alcoholic beverages and tobacco	0.1	0.0	-0.1	0.8	2.5	0.7	0.5	1.0	0.4	0.5	0.2	0.3	-0.3
Clothing and footwear	-0.9	-0.2	0.6	2.4	0.9	-0.6	-0.1	-1.7	-0.7	-0.1	-0.3	-0.5	-0.5
Housing, water. Electricity, gas and other fuels	0.0	-0.1	0.0	0.9	0.2	0.3	0.1	0.0	-0.5	-1.5	-0.1	0.2	0.0
Furniture household goods and maintenance	0.1	0.2	0.1	-0.2	-0.3	0.0	0.0	-0.2	0.1	0.1	0.1	-0.1	0.1
Health	-0.7	0.1	0.0	0.0	0.4	-0.4	0.7	0.7	0.0	0.4	0.0	-3.1	0.4
Transport	0.1	0.3	-0.2	-0.5	-0.4	-2.2	-1.5	0.7	1.0	0.8	0.3	0.4	0.4
Communication	0.5	0.0	0.6	0.0	0.9	0.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0
Recreation and culture	-0.1	0.1	0.8	-0.4	-0.1	-0.2	0.2	0.4	-0.1	0.0	0.1	-0.1	-0.4
Education service	0.0	0.0	0.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hotels. coffee-houses and restaurants	0.0	0.0	0.5	0.2	-0.2	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Goods and different services	-0.5	-0.2	0.3	0.1	-0.4	-0.2	-0.1	-0.2	-0.1	0.5	0.1	-0.1	-0.4
	Total Food. and non-alcoholic beverages Alcoholic beverages and tobacco Clothing and footwear Housing, water. Electricity, gas and other fuels Furniture household goods and maintenance Health Transport Communication Recreation and culture Education service Hotels. coffee-houses and restaurants	Total-0.6Food. and non-alcoholic beverages-1.2Alcoholic beverages and tobacco0.1Clothing and footwear-0.9Housing, water. Electricity, gas and other fuels0.0Furniture household goods and maintenance0.1Health-0.7Transport0.1Communication0.5Recreation and culture-0.1Education service0.0Hotels. coffee-houses and restaurants0.0	Total-0.60.1Food. and non-alcoholic beverages-1.20.2Alcoholic beverages and tobacco0.10.0Clothing and footwear-0.9-0.2Housing, water. Electricity, gas and other fuels0.0-0.1Furniture household goods and maintenance0.10.2Health-0.70.1Transport0.10.3Communication0.50.0Recreation and culture-0.10.1Education service0.00.0Hotels. coffee-houses and restaurants0.00.0	Total-0.60.10.3Food. and non-alcoholic beverages-1.20.20.5Alcoholic beverages and tobacco0.10.0-0.1Clothing and footwear-0.9-0.20.6Housing, water. Electricity, gas and other fuels0.0-0.10.0Furniture household goods and maintenance0.10.20.1Health-0.70.10.00.1Transport0.10.3-0.2Communication0.50.00.6Recreation and culture-0.10.10.8Education service0.00.00.4Hotels. coffee-houses and restaurants0.00.00.5	Total -0.6 0.1 0.3 0.1 Food. and non-alcoholic beverages -1.2 0.2 0.5 -0.6 Alcoholic beverages and tobacco 0.1 0.0 -0.1 0.8 Clothing and footwear -0.9 -0.2 0.6 2.4 Housing, water. Electricity, gas and other fuels 0.0 -0.1 0.0 0.9 Furniture household goods and maintenance 0.1 0.2 0.1 -0.2 Health -0.7 0.1 0.0 0.0 Transport 0.1 0.3 -0.2 -0.5 Communication 0.5 0.0 0.6 0.0 Recreation and culture -0.1 0.1 0.8 -0.4 Education service 0.0 0.0 0.4 9.6	Total -0.6 0.1 0.3 0.1 -0.2 Food. and non-alcoholic beverages -1.2 0.2 0.5 -0.6 -0.9 Alcoholic beverages and tobacco 0.1 0.0 -0.1 0.8 2.5 Clothing and footwear -0.9 -0.2 0.6 2.4 0.9 Housing, water. Electricity, gas and other fuels 0.0 -0.1 0.0 0.9 0.2 Furniture household goods and maintenance 0.1 0.2 0.1 -0.2 -0.3 Health -0.7 0.1 0.0 0.9 0.4 Transport 0.1 0.3 -0.2 -0.5 -0.4 Communication 0.5 0.0 0.6 0.0 0.9 Recreation and culture -0.1 0.1 0.8 -0.4 -0.1 Education service 0.0 0.0 0.4 9.6 0.0	Total -0.6 0.1 0.3 0.1 -0.2 0.7 Food. and non-alcoholic beverages -1.2 0.2 0.5 -0.6 -0.9 2.0 Alcoholic beverages and tobacco 0.1 0.0 -0.1 0.8 2.5 0.7 Clothing and footwear -0.9 -0.2 0.6 2.4 0.9 -0.6 Housing, water. 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Tab. 3 Annual rate of CPI

														%
Code	Groups	07-14/07-13	08-13/08-12	09-14/09-13	10-14/10-13	11-14/11-13	12-14/12-13	01-15/01-14	02-15/02-14	03-15/03-14	04-15/04-14	05-15/05-14	06-15/06-14	07-15/07-14
	Total	1.8	2.0	1.5	1.4	1.7	0.7	1.3	2.3	2.2	2.3	1.8	1.4	1.3
1	Food. and non-alcoholic beverages	2.6	3.2	2.1	1.6	2.1	0.4	2.2	4.8	4.7	5.2	3.8	2.7	2.4
2	Alcoholic beverages and tobacco	6.9	7.1	6.8	7.4	7.7	7.1	4.6	6.3	6.3	6.5	6.8	7.0	6.6
3	Clothing and footwear	-2.2	-2.3	-1.9	0.0	0.8	0.1	0.1	-0.2	-0.9	-1.3	-1.2	-1.3	-1.0
4	Housing, water. Electricity, gas and other fuels	1.3	1.1	0.2	1.0	0.9	0.5	0.7	0.7	0.3	-1.0	-0.8	-0.4	-0.3
5	Furniture household goods and maintenance	-0.6	-0.5	-0.1	-0.1	-0.5	-0.3	-0.2	-0.5	-0.1	-0.3	-0.1	-0.1	-0.1
6	Health	-6.1	-5.6	-5.7	-5.7	-5.3	-5.6	-5.2	-4.5	-4.4	-1.5	0.1	-1.9	-0.8
7	Transport	1.2	1.0	1.5	1.2	1.0	-1.1	-3.7	-3.3	-2.2	-1.5	-1.4	-1.1	-0.9
8	Communication	-0.7	-0.8	-0.3	2.7	3.6	3.9	3.8	3.7	3.7	2.3	2.2	2.2	1.7
9	Recreation and culture	0.0	-0.2	0.3	0.2	0.3	0.1	0.5	0.7	0.6	0.5	0.5	0.4	0.1
10	Education service	0.8	0.8	1.5	11.2	11.2	11.2	11.0	10.2	10.3	10.1	10.1	10.1	10.1
11	Hotels, coffee-houses and restaurants	2.5	1.9	1.8	1.9	1.7	1.5	1.6	1.4	0.6	0.6	0.5	0.4	0.3
12	Goods and different services	8.5	7.8	8.7	3.8	3.6	3.1	2.9	-1.3	-1.7	-1.1	-1.0	-0.8	-0.7

Methodology

Consumer Price Index (CPI) is calculated with a new basket of product from December 2007. Weights are based on the results of the Household budges Survey, carried out during October 2006 - September 2007. December 2007 is considered as the base period (December 2007 = 100). Previous change of the product basket was from January 2002, where the number of the products was increased from 221 to 262 products. In the new basket the number of product is 272. The international classification COICOP with 12 main groups was introduced which is totally comparable with the expenditure classification used by EUROSTAT.

The weights are calculate based on the urban and rural household expenditure. The index covers all Albanian (rural and urban) territory. The previous index covered only the urban area. The product weights will be different for each region. Prices are collected in main cities of 11 prefectures were Kukës is within the prefecture of Dibër.

The Consumer Price Index of Albania is a Laspeyres type index:

$$I_{0,i}^{t} = \frac{\sum_{i} P_{i}^{t} * Q_{i}^{0}}{\sum_{i} P_{i}^{0} * Q_{i}^{0}}$$

With weights ($w = P^*Q$) from base period this is approximated to:

$$I_{0,i}^{t} = \sum_{i} w_{i} * \begin{pmatrix} p_{i}^{t} \\ p_{i}^{0} \end{pmatrix}$$

In more detail, a price relative is calculated for each item and region with geometrical mean on the sample of outlets:

/

$$PR_{t-1,ij}^{t} = \prod_{k=1}^{n} \left(\frac{P_{ijk}^{t}}{P_{ijk}} \right)^{1/n}$$

Monthly chaining gives the price relative from the base period:

$$PR_{0,ij}^{t} = PR_{0,ij}^{1} \ast \cdots \ast PR_{t-1,ij}^{t}$$

For more information, visit INSTAT webpage: http://www.instat.gov.al/

Regional CPI is calculated:

$$RIÇKI_{i,0}^{t} = \sum_{i} r_{ij} * PR_{0,ij}^{t}$$

The price relatives are aggregated geographically to form product indices on items for whole Albania:

$$I_{0,i}^{t} = \sum_{j} r_{ij} * PR_{0,ij}^{t}$$
 Where: $\sum_{j} r_{ij} = 1$: \forall_{i} (for all cases)

Aggregation over items then gives the CPI of Albania:

$$CPI_{0}^{t} = \sum_{i} w_{i.} * I_{0,i}^{t}$$
 Where: $\sum_{i} w_{i.} = 1$

Acronyms

Ρ price PR price relative index Т CPI **Consumer Price Index** time period t t t=0 base period geographical weights r item weights W numbering of regions j. numbering of items i.

The annual rate measures the price change between the current month and the same month of the previous year. This measure is responsive to recent changes in price levels but can be influenced by one-off effect in either month

The monthly rate measures the price change between current month and previous month. Although upto-date it can be affected by seasonal and other effects.

The 12-month average rate compares average Consumer Price Indices and the latest 12 month to the average of the previous 12 months.