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*Agjencia e Statistikave të Kosovës - Agencija za Statistike Kosova - Kosovo Agency of Statistics*

## Series 2: Agriculture and Environment Statistics

# Input Price Index and Prices in Agriculture Q4 -2013 (2005 =100 )



## Preface

Kosovo Agency of Statistics respectively Agriculture and Environment Statistics Department started to collect data on prices for agriculture input products in November 2003. In the beginning, prices were collected for a limited number of items (about 15 input items). At the moment prices for 68 different input items concerning agricultural input are collected. The plan for the future is to increase the number of agriculture input products.

This is twenty publications on Input Price Index for agriculture produced by Kosovo Agency of Statistics (KAS). In this publication, Input Price Index for some major agriculture inputs is presented.

KAS is grateful to the Swedish International Development Cooperation Agency (SIDA) for their support of build up the agro monetary statistics system. KAS also is grateful for their corporation of all co-workers at the regional offices, other respondents of data collection as: agriculture farms, industrial and trade enterprises etc.

Especially grateful to Swedish price statistics experts Mr. Anders Grönvall,, Mr Jimmie Enhall and Statistics Sweden Long-term consultant Mrs. Milva Ekonomi and others who directly or indirectly assisted on finalization of this publication.

Suggestions, proposals and remarks for this publication are welcome and can be sent to:  
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## Abbreviations

KAS	-	Kosovo Agency of Statistics
API	-	Agriculture Price Index
EU	-	European Union
SIDA	-	Swedish International Development Cooperation Agency
Q4	-	Fourth Quarter

## Symbols

‰	-	Promile
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In the tables where figures (weight) have been rounded to the nearest final digit might be a slight discrepancy in the sum.

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## Agriculture Input Price Index

The publication includes data from October to December 2013 (Q4-2013). To make comparisons and to see changes also data from Q4 2005 -2013 2005=100 this publication is based on collection of prices for agriculture input products in Kosovo. The price collection was carried out at agriculture pharmacy enterprises, veterinary pharmacy enterprises, companies, markets, and other places where prices on agriculture input products are available. Some prices on agriculture input products we got from consumer prices (CPI) at KAS.

The products which make up the base for the Input Price Index are divided into two main groups: Goods and Services Currently Consumed in Agriculture (Input 1) and Goods and Services Contributing to Agriculture Investment (Input 2). Within Goods and Services Currently Consumed in Agriculture, prices are collected under the following groups; Seeds and Planting Stock, Energy; Lubricants, Fertilizers and Soil Improvers, Plant Protection Products and Pesticides, Veterinary Expenses, Animal Feeding stuffs, Maintenance of Materials, Maintenance of Buildings and Other Goods and Services. Within Goods and Services Contributing to Agriculture Investment, prices are collected for Materials (Machinery and Other Equipment), Buildings (Farm Buildings, other works except land improvements, other buildings, structures) and other. We revised index for Plant protection products and pesticides for 2005-2013.

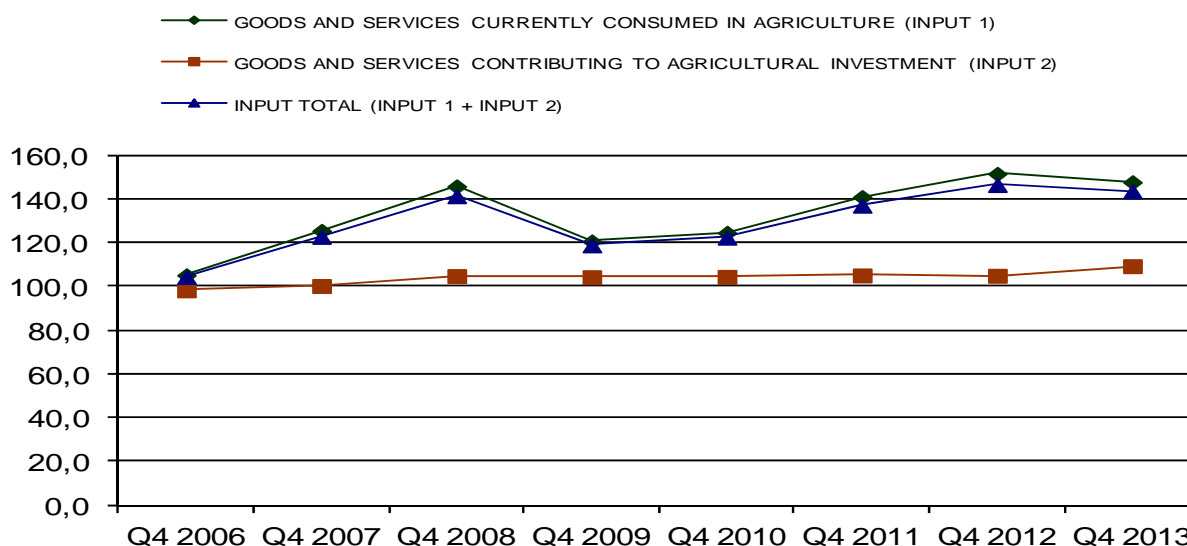
Figure 1 shows the fourth quarter for Input Price Index from 2005 - 2013 for Total Input as well as for Input 1 and Input 2 (2005 = 100).

### The index changes in Q4 2013 compared to Q4 2012 (change in %)

In the fourth quarter 2013 the Input 1 has decreased by - 2.5 % compared to Q4 2012. The Index for **Input 2** has increased by 4.2 % compared to Q4 2012

Total Input Index (**Input 1 + Input 2**) has also decreased by – 2.0 % compared to Q4 2012.

**Figure 1: Q4 Agricultural Input Price Index 2005 – 2013, (2005 = 100)**



**Agricultural Input price Index Q4****Table 1: Q4 Agricultural Input price Index 2005-2013, (2005=100)**

API code	Description	Weight		Q4 2005	Q4 2006	Q4 2007	Q4 2008	Q4 2009	Q4 2010	Q4 2011	Q4 2012	Q4 2013
		%	1000 Euro									
<b>200000</b>	<b>GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)</b>	<b>891</b>	<b>73.654</b>	<b>100,2</b>	<b>105,1</b>	<b>125,4</b>	<b>145,7</b>	<b>120,5</b>	<b>124,5</b>	<b>140,8</b>	<b>151,5</b>	<b>147,6</b>
201000	SEEDS AND PLANTING STOCK	96	7.959	90,2	93,9	119,0	130,6	106,4	124,9	141,4	<b>139,2</b>	127,9
202000	ENERGY; LUBRICANTS	156	12.929	108,1	105,2	115,7	110,2	105,3	121,6	137,0	142,1	<b>136,4</b>
202100	Electricity	17	1.388	106,0	106,0	106,0	106,0	120,5	122,9	122,9	128,9	128,9
202300	Motor fuels	137	11.310	108,5	105,1	117,2	110,8	103,3	121,8	139,3	144,5	137,9
202400	Lubricants	3	231	99,7	106,6	104,8	109,7	111,5	102,2	104,5	106,9	106,9
203000	FERTILISERS AND SOIL IMPROVERS	214	17.706	99,7	112,9	128,1	214,2	155,0	137,8	179,7	196,8	192,8
203100	Straight fertilizers	93	7.653	99,6	112,6	120,0	166,3	146,4	128,4	163,8	184,9	184,1
203200	Compound fertilizers	122	10.053	99,7	113,0	134,3	250,6	161,4	144,9	191,7	205,9	199,4
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	28	2.355	100,9	106,6	104,6	100,5	98,7	103,4	100,4	102,7	152,0
205000	VETERINARY EXPENSES	27	2.255	99,7	117,0	117,8	118,3	121,6	125,4	131,7	131,8	130,0
206000	ANIMAL FEEDINGSTUFFS	116	9.602	99,4	108,5	184,9	175,2	121,3	140,7	150,6	190,2	163,3
206100	Straight feeding stuffs	104	8.642	99,0	109,3	187,7	169,6	113,6	132,1	144,0	186,5	155,7
206200	Compound feeding stuffs	12	960	102,1	101,1	160,0	225,8	191,4	218,3	209,7	222,9	231,6
207000	MAINTENANCE OF MATERIALS	44	3.601	100,1	99,3	110,1	113,9	111,1	113,0	114,2	115,1	117,5
208000	MAINTENANCE OF BUILDINGS	19	1.564	100,2	99,1	106,2	110,5	109,4	108,8	109,4	109,9	108,7
209000	OTHER GOODS AND SERVICES	190	15.683	100,0	99,8	106,7	108,7	107,3	108,8	110,4	113,1	118,8
<b>Input 2 (Goods and services contributing to agricultural investment)</b>												
<b>210000</b>	<b>GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)</b>	<b>109</b>	<b>9.046</b>	<b>99,1</b>	<b>98,2</b>	<b>100,2</b>	<b>104,7</b>	<b>104,2</b>	<b>104,4</b>	<b>105,0</b>	<b>104,8</b>	<b>109,2</b>
211210	TRACTORS	47	3.925	98,1	97,0	98,2	104,2	104,3	106,2	106,4	106,4	115,4
211290	OTHER	62	5.121	99,9	99,1	101,6	105,0	104,0	103,0	103,9	103,6	104,5
<b>Input total (Input 1 + Input 2)</b>												
220000	<b>INPUT TOTAL (INPUT 1 + INPUT 2)</b>	<b>1.000</b>	<b>82.700</b>	<b>100,1</b>	<b>104,3</b>	<b>122,6</b>	<b>141,2</b>	<b>118,7</b>	<b>122,3</b>	<b>136,9</b>	<b>146,4</b>	<b>143,4</b>

**Monthly Agricultural Input price Index****Table 2: Monthly Agricultural Input price Index October – December 2013, (2005 = 100)**

<b>Input 1 (Goods and services currently consumed in agriculture)</b>						
API code	Description	Weight		2013		
		%	1000 Euro	Oct	Nov	Dec
<b>200000</b>	<b>GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)</b>	<b>891</b>	<b>73.654</b>	<b>147,1</b>	<b>146,9</b>	<b>147,1</b>
201000	SEEDS AND PLANTING STOCK	96	7.959	129,3	127,2	127,2
202000	ENERGY; LUBRICANTS	156	12.929	137,4	135,8	135,8
202100	Electricity	17	1.388	128,9	128,9	128,9
202300	Motor fuels	137	11.310	139,1	137,3	137,3
202400	Lubricants	3	231	106,9	106,9	106,9
203000	FERTILISERS AND SOIL IMPROVERS	214	17.706	192,7	192,9	192,9
203100	Straight fertilizers	93	7.653	182,7	184,9	184,9
203200	Compound fertilizers	122	10.053	200,3	199,0	199,0
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	28	2.355	134,7	134,7	134,7
205000	VETERINARY EXPENSES	27	2.255	130,0	130,0	130,0
206000	ANIMAL FEEDINGSTUFFS	116	9.602	161,8	163,4	164,6
206100	Straight feeding stuffs	104	8.642	153,9	155,7	157,4
206200	Compound feeding stuffs	12	960	232,8	232,8	229,2
207000	MAINTENANCE OF MATERIALS	44	3.601	116,8	117,6	118,1
208000	MAINTENANCE OF BUILDINGS	19	1.564	107,9	109,1	109,0
209000	OTHER GOODS AND SERVICES	190	15.683	118,9	118,9	118,7
<b>Input 2 (Goods and services contributing to agricultural investment)</b>						
<b>210000</b>	<b>GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)</b>	<b>109</b>	<b>9.046</b>	<b>108,7</b>	<b>109,8</b>	<b>109,8</b>
211210	TRACTORS	47	3.925	113,5	116,2	116,2
211290	OTHER	62	5.121	105,0	105,0	105,0
<b>Input total (Input 1 + Input 2)</b>						
<b>220000</b>	<b>INPUT TOTAL (INPUT 1 + INPUT 2)</b>	<b>1.000</b>	<b>82.700</b>	<b>142,9</b>	<b>142,9</b>	<b>143,0</b>



## Changes in Input price Index

Table 3 ; Changes in Input price Index for same month October – December 2013 / 2012

API code	Description	Wheight		Oct 12/Oct 13 Changes. in %	Nov 12/Nov 13 Changes in %	Dec 12/Dec 13 Changes in %
		%	1000 Euro			
<b>200000</b>	<b>GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)</b>	<b>891</b>	<b>73.654</b>	<b>-2,3</b>	<b>-3,2</b>	<b>-3,4</b>
201000	SEEDS AND PLANTING STOCK	96	7.959	-6,2	-9,1	-9,1
202000	ENERGY; LUBRICANTS	156	12.929	-5,7	-4,0	-2,4
202100	Electricity	17	1.388	0,0	0,0	0,0
202300	Motor fuels	137	11.310	-6,3	-4,6	-2,7
202400	Lubricants	3	231	0,0	0,0	0,0
203000	FERTILISERS AND SOIL IMPROVERS	214	17.706	-0,5	-2,7	-2,9
203100	Straight fertilizers	93	7.653	1,6	-1,2	-1,6
203200	Compound fertilizers	122	10.053	-1,8	-3,8	-3,8
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	28	2.355	29,5	27,4	27,4
205000	VETERINARY EXPENSES	27	2.255	0,1	-2,0	-2,0
206000	ANIMAL FEEDINGSTUFFS	116	9.602	-13,1	-13,6	-15,7
206100	Straight feeding stuffs	104	8.642	-15,5	-16,0	-18,1
206200	Compound feeding stuffs	12	960	5,1	4,1	2,5
207000	MAINTENANCE OF MATERIALS	44	3.601	1,6	2,2	2,4
208000	MAINTENANCE OF BUILDINGS	19	1.564	-1,7	-0,7	-1,0
209000	OTHER GOODS AND SERVICES	190	15.683	5,3	5,0	4,9
<b>Input 2 (Goods and services contributing to agricultural investment)</b>						
<b>210000</b>	<b>GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)</b>	<b>109</b>	<b>9.046</b>	<b>3,7</b>	<b>4,8</b>	<b>4,7</b>
211210	TRACTORS	47	3.925	6,6	9,2	9,2
211290	OTHER	62	5.121	1,4	1,3	1,2
<b>Input total (Input 1 + Input 2)</b>						
<b>220000</b>	<b>INPUT TOTAL (INPUT 1 + INPUT 2)</b>	<b>1.000</b>	<b>82.700</b>	<b>-1,8</b>	<b>-2,6</b>	<b>-2,8</b>

## Methodology

Prices and price indices in this publication have been calculated according standards for price statistics in European Union. The project for calculation these Prices and Indices was conducted in the frame of the project of " Improving agro monetary statistics" in cooperation with Statistic Sweden and with financial support by SIDA (Swedish International Development Cooperation Agency).

Prices are collected in seven regions: Pristina, Mitrovica, Peja, Gjakova, Prizren, Ferizaj and Gjilan. Prices are collected around the 15<sup>th</sup> in every month. Since the start the numbers of different prices that are collected have increased step by step.

The purpose of Agricultural Input Price Index is to follow the purchase prices of the means of agricultural production. By definition, the index does not cover factors of production. Thus, wages and wage costs, rent, interest payment, purchase of land and fixed asset animals are not part of the field of observation.

To compare the EU index presented in this publication with other countries, the Eurostat website is recommended (<http://epp.eurostat.ec.europa.eu/portal/page/portal/eurostat/home>).

Weights to calculate aggregated indices are mainly based on Agricultural Household Survey 2005, which is the base year in the index (2005=100). These weights are fixed as long as the base of the index is 2005. The index is a price index and is calculated on the basis of the Laspeyres formula.

### Calculation of elementary Price Index

Calculations of elementary indices are in general done by using following formula, with un-weighted arithmetic mean price.

$$R_i^t = \frac{\frac{1}{n} \sum P_{ij}^t}{\frac{1}{n} \sum P_{ij}^o} \cdot 100$$

$R_i^t$  – Elementary index for month t and product i

P – Collected price

i – Product i

j – Price j recorded for product (in general price for region)

t – Observed month

0 – Base month

### Calculation of aggregated Price Index

Calculating aggregated index for total Input or subgroups of Input Index is done using following formula.

$$I^t = \sum (R_i^t \cdot \frac{w_i^0}{\sum w_i^0})$$

$I^t$  – Aggregated index for period t

$w_i^0$  – Weighting factor in base period for product i

i – Product i

t – Observed month

0 – Base month

## Questionnaire

Target definition
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Item number	Item name			Quantity	Unit
	Price Collector			Collection place/ Company	
Date					
Price					

<p>Enumerators notes</p> <ul style="list-style-type: none"> <li>- Detailed description of specific variety selected for re-pricing</li> <li>- Changes in the detailed description, date for changes</li> <li>- Treatment of quality change when description changed (information of over-lap price observation, alt. valuation of quality change)</li> </ul>
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# Kosovo Agency of Statistics

## *short description*

**Kosovo Agency of Statistics** is a professional institution which deals with collection, processing and publication of official statistical data. As such acts since 1948 and has passed through several historical stages, structured according to state regulation of those times.

On 2 August 1999, the Agency has resumed his professional work (after nine years of interruption of all statistical series detrimental to the interest of Kosovo), as an independent institution under the Ministry of Public Administration. Since 12.12.2011 the Agency operates in the frames of the Prime Minister's Office. Office is funded by the Kosovo Consolidated Budget, but also by donors for specific projects and for technical professional support.

**Kosovo Agency of Statistics** acts according to the Law No. 04/L-036 which entered into force on 12.12.2011. Strategic development plan 2009-2013 is the middle term implementation for the development of statistical system in correlation with the European Union statistics (EUROSTAT).

**Kosovo Agency of Statistics** has this organizational structure: production departments; (Department of Economic statistics and National Accounts, Department of Agriculture and Environment statistics and Department of Social statistics. **Support Departments**; Department of Methodology and Information Technology, Department of Policy Planning, Coordination and Communication, Department of Census and survey and Department of Administration. **Within the Agency we also established** Office of the Population Census, Households and Dwellings. **Regional Offices**; Gjakove, Gjilan, Mitrovica, Peja, Prizren, Pristina and Ferizaj

In ASK are employed in total 139 workers, of them 104 (74,8 %) at the headquarters of the Agency, while in the Regional Offices, 35 (25,2%), with qualifying structure, 70,5% with university education to 29,5% with secondary education.

We have professional and technical cooperation with all Ministries of the Government of Kosovo, especially with the Ministry of Economy and Finance, Central Bank of Kosovo, with international institutions, EUROSTAT, International Monetary Fund, World Bank, Sweden's SIDA, DFID, UNFPA, UNDP, UNVEF, and with the statistical institutions of the countries in the region.

**Kosovo Agency of Statistics** almost completely covers the territory of Kosovo, based on the statistical structure of the enumeration areas as the basic unit and sole in the country from which it gets first hand information. All surveys conducted in the field use the extension of the samples in these enumeration areas but also a statistical methodology according to international recommendations. During the collection of statistical data and reports from reporting entities are involved professionals, technicians, administrators, servants of the country offices, field enumerators from regional offices, etc.

We have successfully implemented the project of Population Census, Households and Dwellings in 2011, Census that was not carried out since 1981. Results obtained from the Census will have an important role in compiling the development policies.

**The mission of the Agency**; to meet the needs of users with qualitative statistical data, objective, in time and space so that users have reliable base to conduct regular analysis in the interest of planning and project development at the municipal and country level. To support government institutions, scientific institutes, research academies, businesses in order to provide proper information for decision-makers and other users in Kosovo. Ongoing is preparation for the Census of Agriculture in Kosovo.

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