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Series 2: Agriculture and Environment Statistics

Input Price Index in Agriculture Q3 2019 (2015 =100)



AGJENCIA E STATISTIKAVE TË KOSOVËS
AGENCIJA ZA STATISTIKE KOSOVA
KOSOVO AGENCY OF STATISTICS

Foreword

Kosovo Agency of Statistics, respectively the Department of Agriculture and Environment Statistics, has started to collect data on agriculture output prices since November 2003. At the beginning, the number of items was limited. With the change of the base year from 2003 to the base year of 2005, prices have been collected for 64 different agricultural inputs. Whereas, with the change of the base year 2005 to 2010, prices for 67 agricultural inputs were collected. Currently, with the change of the base year from 2010 to the base year 2015, prices are collected for 73 different agricultural inputs. The plan for the future is to increase the number of inputs. In addition to the input price index is also the output price index

This is the forty four (44) publications on Input Price Index and Average Absolute Prices for agriculture inputs produced by Statistical Agency of Kosovo (SAK). In this publication, Input Price Index and prices for some major agriculture inputs are presented.

KAS thanks the Swedish International Development Cooperation Agency (SIDA) for their support for building the agro-monetary statistical system. KAS also thanks all collaborators of its regional offices, other co-operators (respondents) of point-of-sale places such as: agricultural farms, industrial enterprises, trade, etc.

In particular, KAS thanks Swedish price statistics expert, Mr. Anders Grönvall and others who directly or indirectly assisted in finalizing this publication.

Suggestions and remarks regarding this publication can be sent to the department's email address: agriculture@ks-gov.net

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Abbreviations

- KAS - Kosovo Agency of Statistics
- API - Agriculture Price Index
- EU - European Union
- SIDA - Swedish International Development Cooperation Agency
- Q3 - Third Quarter

Symbols

- ‰ - Promile

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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Input Agriculture Price Index

The data presented in this publication include data on the monthly index covering the period from Jul to September of the year 2019 with the base year 2015=100. To make the comparisons and to observe the changes, data for the third quarterly (Q3) 2015-2019 are presented in the base year of 2015 (2015 = 100)

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. KAS has changed the base year from 2010 =100 in 2015 = 100 according to Eurostat methodology.

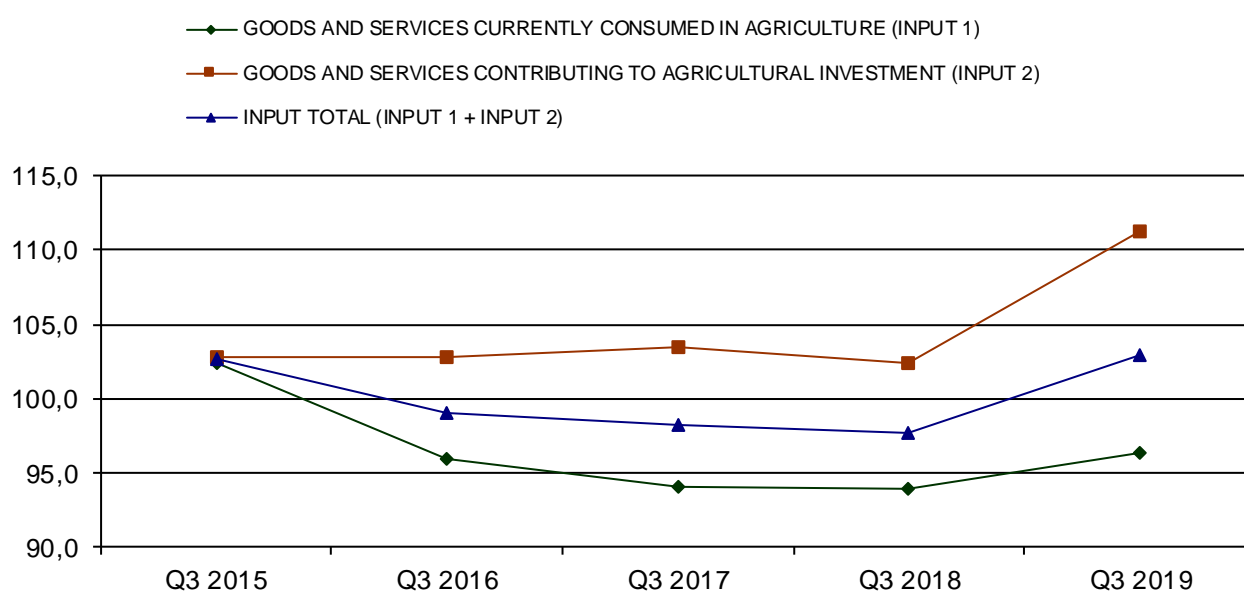
The products which make up the base for the Input Price Index are divided into two main groups: Goods and Services Currently Consumed in Agriculture (Input 1) and Goods and Services Contributing to Agriculture Investment (Input 2). Within Goods and Services Currently Consumed in Agriculture, prices are 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 and Other (Farm Buildings Non-Residential, other works except land improvements).

Figure 1 shows the third quarter for Input Price Index from 2015 - 2019 for Total Input as well as for Input 1 and Input 2 (2015 = 100).

The index changes in Q3 2019 compared to Q3 2018 (change in %)

In the third quarter 2019 the Input 1 has increased by (2.6%) compared the third quarter 2018. The Index for **Input 2** has increased by (8.6%) compared the third quarter 2018. Total Input Index (**Input 1 + Input 2**) has also increased by (5.4%) compared to the third quarter 2018.

Figure 1: Q3 Agricultural Input Price Index 2015 – 2019, (2015 = 100)



Agricultural Input price Index Q3

Table 1: Q3 Agricultural Input price Index 2015-2019, (2015=100)

Input 1 (Goods and services currently consumed in agriculture)								
API code	Description	Weight		Q3 2015	Q3 2016	Q3 2017	Q3 2018	Q3 2019
		%	1000 Euro					
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)	556	126 490	102,4	96,0	94,1	93,9	96,3
201000	SEEDS AND PLANTING STOCK	91	20 777	115,9	86,2	82,7	75,4	84,5
202000	ENERGY; LUBRICANTS	103	23 433	99,3	93,3	100,3	109,2	107,4
202100	Electricity	17	4 637	87,2	86,4	105,9	95,6	95,6
202300	Motor fuels	137	17 480	102,2	95,1	99,4	114,0	111,7
202400	Lubricants	3	1 316	104,2	93,3	92,6	92,6	91,9
203000	FERTILISERS AND SOIL IMPROVERS	149	33 958	100,0	97,7	88,4	85,4	88,9
203100	Straight fertilizers	56	12 777	99,2	93,1	86,6	83,0	85,1
203200	Compound fertilizers	93	21 181	100,5	100,6	89,4	86,8	91,3
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	23	5 137	97,8	103,7	104,3	106,4	106,0
205000	VETERINARY EXPENSES	38	8 732	99,5	99,8	96,9	97,8	100,0
206000	ANIMAL FEEDINGSTUFFS	3	741	97,7	101,0	100,0	102,4	104,5
206100	Straight feeding stuffs	104	630	97,3	101,4	98,2	101,5	105,5
206200	Compound feeding stuffs	12	111	99,9	98,7	109,8	107,5	99,1
207000	MAINTENANCE OF MATERIALS	48	10 883	100,1	100,2	99,5	99,5	99,4
208000	MAINTENANCE OF BUILDINGS	4	833	100,2	98,0	98,7	98,5	99,5
209000	OTHER GOODS AND SERVICES	97	21 996	100,3	99,8	100,7	100,8	101,5
Input 2 (Goods and services contributing to agricultural investment)								
210000	GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)	444	100 971	102,8	102,8	103,5	102,4	111,2
211210	TRACTORS	208	47 375	105,7	107,7	107,8	105,2	121,1
211290	OTHER	236	53 596	100,3	98,5	99,7	100,0	102,5
Input total (Input 1 + Input 2)								
220000	INPUT TOTAL (INPUT 1 + INPUT 2)	1 000	227 461	102,6	99,0	98,3	97,7	103,0

Monthly Agricultural Input price Index

Table 2: Monthly Agricultural Input price Index Jul – September 2019, (2015 = 100)

Input 1 (Goods and services currently consumed in agriculture)						
API code	Description	Weight		2019		
		%	1000 Euro	Jul	Aug	Sep
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)	556	126 490	96,3	96,4	96,3
201000	SEEDS AND PLANTING STOCK	91	20 777	84,5	84,5	84,5
202000	ENERGY; LUBRICANTS	103	23 433	107,0	108,1	107,2
202100	Electricity	17	4 637	95,6	95,6	95,6
202300	Motor fuels	137	17 480	111,2	112,6	111,4
202400	Lubricants	3	1 316	91,9	91,9	91,9
203000	FERTILISERS AND SOIL IMPROVERS	149	33 958	89,0	88,9	88,9
203100	Straight fertilizers	56	12 777	85,3	84,9	85,1
203200	Compound fertilizers	93	21 181	91,3	91,3	91,3
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	23	5 137	106,0	106,0	106,0
205000	VETERINARY EXPENSES	38	8 732	100,0	100,0	100,0
206000	ANIMAL FEEDINGSTUFFS	3	741	106,1	103,4	104,0
206100	Straight feeding stuffs	104	630	107,4	104,2	104,9
206200	Compound feeding stuffs	12	111	99,1	99,1	99,1
207000	MAINTENANCE OF MATERIALS	48	10 883	99,5	99,3	99,4
208000	MAINTENANCE OF BUILDINGS	4	833	99,9	99,5	99,2
209000	OTHER GOODS AND SERVICES	97	21 996	101,6	101,5	101,5
Input 2 (Goods and services contributing to agricultural investment)						
210000	GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)	444	100 971	111,9	111,7	111,7
211210	TRACTORS	208	47 375	121,1	121,1	121,0
211290	OTHER	236	53 596	103,7	103,5	103,4
Input total (Input 1 + Input 2)						
220000	INPUT TOTAL (INPUT 1 + INPUT 2)	1 000	227 461	103,2	103,2	103,1

Changes in Input price Index

Table 3 : Changes in Input price Index for same month Jul – September 2019/ 2018 (2015=100)

Input 1 (Goods and services currently consumed in agriculture)						
API code	Description	Wheight		Jul 18 / Jul 19 Changes. in %	Aug 18/ Aug 19 Changes. in %	Sep 18 /Sep 19 Changes in %
		%	1000 Euro			
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)	556	126 490	2,9	2,7	2,1
201000	SEEDS AND PLANTING STOCK	91	20 777	14,0	12,3	10,0
202000	ENERGY; LUBRICANTS	103	23 433	-1,2	-0,8	-2,9
202100	Electricity	17	4 637	0,0	0,0	0,0
202300	Motor fuels	137	17 480	-1,5	-1,0	-3,6
202400	Lubricants	3	1 316	-0,8	-0,8	-0,8
203000	FERTILISERS AND SOIL IMPROVERS	149	33 958	3,9	4,1	4,7
203100	Straight fertilizers	56	12 777	2,6	2,3	2,6
203200	Compound fertilizers	93	21 181	4,6	5,1	5,9
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	23	5 137	-0,4	-0,3	-0,3
205000	VETERINARY EXPENSES	38	8 732	2,6	2,2	1,9
206000	ANIMAL FEEDINGSTUFFS	3	741	3,9	-0,3	2,7
206100	Straight feeding stuffs	104	630	5,9	1,0	5,0
206200	Compound feeding stuffs	12	111	-6,9	-7,3	-9,3
207000	MAINTENANCE OF MATERIALS	48	10 883	0,0	-0,3	-0,1
208000	MAINTENANCE OF BUILDINGS	4	833	1,5	1,1	0,6
209000	OTHER GOODS AND SERVICES	97	21 996	1,0	0,7	0,4
Input 2 (Goods and services contributing to agricultural investment)						
210000	GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)	444	100 971	9,4	8,7	7,7
211210	TRACTORS	208	47 375	16,5	15,2	13,6
211290	OTHER	236	53 596	3,0	2,7	2,2
Input total (Input 1 + Input 2)						
220000	INPUT TOTAL (INPUT 1 + INPUT 2)	1 000	227 461	5,9	5,5	4,7

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 have been collected since 2003 and are collected in seven regions: Pristina, Mitrovica, Peja, Gjakova, Prizren, Ferizaj and Gjilan. Prices are collected around the 15th in every month. Since the start the number 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 Economic Account 2015, which is the base year in the index (2015=100). These weights are fixed as long as the base of the index is 2015. 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.

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

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

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

<p>Enumerators notes</p> <ul style="list-style-type: none"> - Detailed description of specific variety selected for re-pricing - Changes in the detailed description, date for changes - Treatment of quality change when description changed (information of over-lap price observation, alt. valuation of quality change)
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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. Programme of Official Statistics 2013/2017 is in 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, Department of 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 are also established Regional Offices**; Gjakove, Gjilan, Mitrovica, Peja, Prizren, Pristina and Ferizaj

In KAS are employed in total 159 workers, of whom 100 (68,0 %) at the headquarters of the Agency, while in the Regional Offices, 47 (32,0%). Agency's educational qualifying structure is as follows: 75,5% with university education, 12,3% with with non-tertiary education, and 12.3% 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.

In 2011, the project of Population Census , Households and Dwellings was successfully implemented, and in 2014 was successfully carried out the Agriculture Census. The result obtained from these censuses will have an important role in 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.

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