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

Input Price Index in Agriculture

Q3 2022 (2015=100)

November, 2022

Prishtina, 11.11.2022, 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 fifty- nine (59) 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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To consult other publications, visit the KAS website: <http://ask.rks-gov.net>

Abbreviations and Acronyms

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

Key to symbols

.	-	Not aplicable
‰	-	Promile

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

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Input Price Index for agriculture products

The data presented in this publication include data on the monthly index covering the period from Jul to September of the year 2022 with the base year 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).

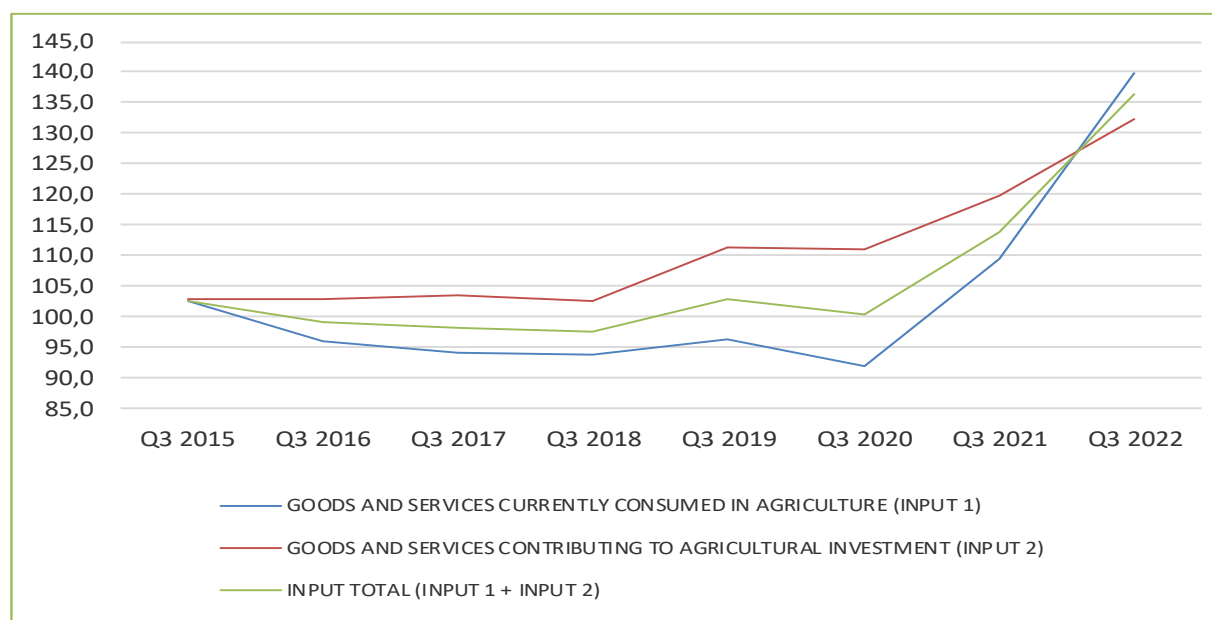
Figure 1 shows the second quarter for Input Price Index from 2015 - 2022 for Total Input as well as for Input 1 and Input 2 (2015 = 100).

The index changes in Q3 2022 compared to Q3 2021 (change in %)

In the third quarter 2022 the Input 1 has increased by (27,9%) compared the third quarter 2021. The Index for **Input 2** has increased by (10,4%) compared the third quarter 2021

Total Input Index (**Input 1 + Input 2**) has also increased by (19,7%) compared to the third quarter 2021.

Fig. 1: Q3 Agricultural Input Price Index 2015 – 2022, (2015 = 100)



Agricultural Input Price Index Q3**Tab. 1: Q3 Agricultural Input price Index 2015-2022, (2015=100)**

Input 1 (Goods and services currently consumed in agriculture)											
API code	Description	Weight		Q3	Q3	Q3	Q3	Q3	Q3	Q3	Q3
		%	1000 Euro	2015	2016	2017	2018	2019	2020	2021	2022
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)	556	126.490	102,4	96,0	94,1	93,9	96,3	92,1	109,4	139,9
201000	SEEDS AND PLANTING STOCK	91	20.777	115,9	86,2	82,7	75,4	84,5	81,7	82,3	87,3
202000	ENERGY; LUBRICANTS	103	23.433	99,3	93,3	100,3	109,2	107,4	89,3	109,6	145,1
202100	Electricity	17	4.637	87,2	86,4	105,9	95,6	95,6	95,6	100,8	97,3
202300	Motor fuels	137	17.480	102,2	95,1	99,4	114,0	111,7	87,2	112,6	158,7
202400	Lubricants	3	1.316	104,2	93,3	92,6	92,6	91,9	96,3	101,8	132,4
203000	FERTILISERS AND SOIL IMPROVERS	149	33.958	100,0	97,7	88,4	85,4	88,9	87,7	130,9	213,8
203100	Straight fertilizers	56	12.777	99,2	93,1	86,6	83,0	85,1	83,4	125,2	225,0
203200	Compound fertilizers	93	21.181	100,5	100,6	89,4	86,8	91,3	90,3	134,3	207,0
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	23	5.137	97,8	103,7	104,3	106,4	106,0	103,3	103,7	118,0
205000	VETERINARY EXPENSES	38	8.732	99,5	99,8	96,9	97,8	100,0	100,8	100,6	105,3
206000	ANIMAL FEEDINGSTUFFS	3	741	97,7	101,0	100,0	102,4	104,5	108,2	118,7	157,2
206100	Straight feeding stuffs	104	630	97,3	101,4	98,2	101,5	105,5	108,0	116,8	158,4
206200	Compound feeding stuffs	12	111	99,9	98,7	109,8	107,5	99,1	109,2	129,4	150,4
207000	MAINTENANCE OF MATERIALS	48	10.883	100,1	100,2	99,5	99,5	99,4	98,7	98,9	104,1
208000	MAINTENANCE OF BUILDINGS	4	833	100,2	98,0	98,7	98,5	99,5	101,6	104,2	115,5
209000	OTHER GOODS AND SERVICES	97	21.996	100,3	99,8	100,7	100,8	101,5	101,2	111,6	107,2
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	111,1	119,8	132,2
211210	TRACTORS	208	47.375	105,7	107,7	107,8	105,2	121,1	120,7	137,3	146,6
211290	OTHER	236	53.596	100,3	98,5	99,7	100,0	102,5	102,5	104,3	119,5
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	100,5	114,0	136,5

Monthly Agricultural Input Price Index

Tab. 2: Monthly Agricultural Input price Index Jul– September 2022 (2015 = 100)

Input 1 (Goods and services currently consumed in agriculture)						
API code	Description	Weight		2022		
		%	1000 Euro	Jul	Aug	Sep
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE (INPUT 1)	556	126.490	140,4	140,0	139,5
201000	SEEDS AND PLANTING STOCK	91	20.777	87,3	87,4	87,3
202000	ENERGY; LUBRICANTS	103	23.433	148,5	145,1	141,5
202100	Electricity	17	4.637	97,3	97,3	97,3
202300	Motor fuels	137	17.480	163,4	158,9	153,8
202400	Lubricants	3	1.316	131,1	131,1	134,9
203000	FERTILISERS AND SOIL IMPROVERS	149	33.958	213,8	213,8	213,8
203100	Straight fertilizers	56	12.777	225,0	225,0	225,0
203200	Compound fertilizers	93	21.181	207,0	207,0	207,0
204000	PLANT PROTECTION PRODUCTS AND PESTICIDES	23	5.137	117,4	118,3	118,3
205000	VETERINARY EXPENSES	38	8.732	105,4	104,0	106,5
206000	ANIMAL FEEDINGSTUFFS	3	741	154,8	156,6	160,2
206100	Straight feeding stuffs	104	630	156,1	157,5	161,7
206200	Compound feeding stuffs	12	111	147,7	151,7	151,7
207000	MAINTENANCE OF MATERIALS	48	10.883	103,9	104,1	104,3
208000	MAINTENANCE OF BUILDINGS	4	833	114,5	115,8	116,2
209000	OTHER GOODS AND SERVICES	97	21.996	106,3	107,6	107,6
Input 2 (Goods and services contributing to agricultural investment)						
210000	GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT (INPUT 2)	444	100.971	129,6	132,8	132,9
211210	TRACTORS	208	47.375	144,0	147,9	147,9
211290	OTHER	236	53.596	116,9	119,4	119,6
Input total (Input 1 + Input 2)						
220000	INPUT TOTAL (INPUT 1 + INPUT 2)	1.000	227.461	135,6	136,8	136,6

Methodological explanations

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.

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

- I^t – Aggregated index for period t
- w_i⁰ – 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						

Enumerators notes

- 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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