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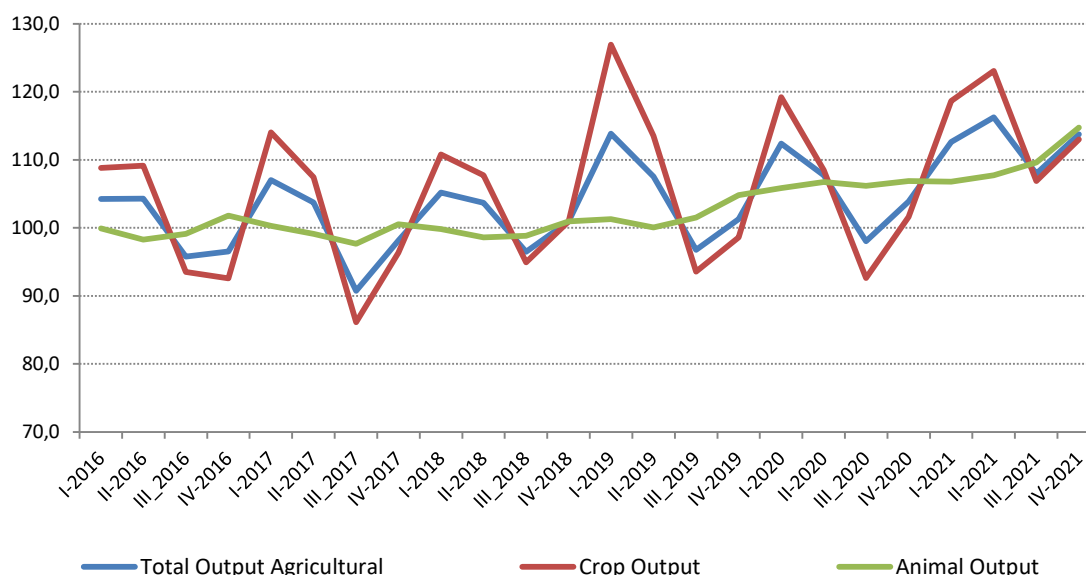# Agricultural Output Price Index

Year 2021

Tirana, 05 July 2022: Price indices in agriculture are calculated based on prices collected through a Monthly Survey gained from farms, slaughter-houses and weekly markets as well as on other places where agricultural products are sold[1].

In 2021, the annual agricultural output price index reached 112.6, from 104.8 in 2020, showing an increase by 7.4 % compared to the previous year. During this year the output price index of crop products increased by 10.8 %, while the output price index of animal products increased by 3.1 %, compared to the last year.

The biggest increase in prices was for the group "Potatoes" followed by the prices of the group "Forage plants", "Cereals", "Permanent crops", "Vegetables", "Industrial Crops", "Milk" and "Animal production live weight".

Fig. 1 Quarterly Output Price Indices in Agricultural products, (2015=100)

[1] For more information refer to the "Methodology" section

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Tab. 1 Annual Output price Index in Agricultural products, (2015=100)

Code	Products	in %	Index	2021 Annual change in %
	Total Output Agriculture	**100**	**112.6**	**7.4**
I	**Crop Output**	**56**	**114.8**	**10.8**
1	Cereals	4.2	96.7	12.5
2	Industrial crops	0.4	140.0	4.0
3	Forage plants	3.8	99.1	20.7
4	Vegetables	23.2	117.2	9.8
5	Potatoes	3.1	126.5	28.0
6	Permanent crops	17.2	115.0	10.8
6.1	*Fruits*	8.2	132.7	15.3
6.2	*Citrus fruit*	1	89.5	-7.5
6.3	*Grapes*	5.5	102.2	4.7
6.4	*Olives*	2.5	95.0	14.5
7	Wine	2.6	131.9	-1.1
8	Olive oil	1.5	104.9	-0.3
II	**Animal Output**	**44**	**109.7**	**3.1**
9	Animal production	18.6	110.3	3.0
9.1	*Cattle*	8.3	105.2	1.8
9.2	*Pigs*	3.1	116.9	2.3
9.3	*Sheep & goats*	5.1	115.7	5.0
9.4	*Poultry*	2.1	108.2	4.0
10	Milk	19.7	111.3	3.3
10.1	*Cow milk*	14.8	111.7	4.5
10.2	*Other milk*	4.9	110.2	-0.4
11	Other animal products	5.7	102.3	2.7
11.1	*Eggs*	2.8	104.5	2.6
11.1	*Honey*	2.9	100.2	2.8

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Tab. 2 Quarterly Output price Index in Agricultural products 2021 (2015=100)

Code	Products	Weight in %	Quarter I 2021		Quarter II 2021		Quarter III 2021		Quarter IV 2021	
			Index	Annual change in %	Index	Annual change in %	Index	Annual change in %	Index	Annual change in %
	Total Output Agriculture	100	112.6	0.2	116.3	7.9	108	10.1	113.8	9.5
I	**Crop Output**	56	118.6	-0.5	123.1	13.5	106.9	15.4	113.0	11.2
1	Cereals	4.2	86.2	-1	94.8	7.0	98.1	16.1	108.6	28.9
2	Industrial crops	0.4	141.6	1.2	133.3	-3.6	139.0	6.4	144.5	10.9
3	Forage plants	3.8	92.8	5.7	96.4	20.3	96.2	23.1	108.3	30.8
4	Vegetables	23.2	128.8	-5.9	122.1	14.7	102.8	20.0	117.3	7.8
5	Potatoes	3.1	119.4	14.1	119.2	19.8	114.3	27.7	155.4	53.3
6	Permanent crops	17.2	126.5	8.9	137.6	13.2	110.4	13.2	103.4	6.7
6.1	*Fruits*	8.2	143.5	25.5	141.3	15.6	125.0	19.7	121.8	3.5
6.2	*Citrus fruit*	1	79.1	-34.3	-	-	-	-	95.0	12.5
6.3	*Grapes*	5.5	-	-	-	-	101.9	9.9	103.1	-5.8
6.4	*Olives*	2.5	126.6	7.7	100.2	-12.6	102.9	-4.0	88.3	28.3
7	Wine	2.6	131.7	-0.9	137.4	0.3	128.1	-0.3	132.5	-3.3
8	Olive oil	1.5	105	0.0	104.9	0.1	104.7	0.4	104.9	-1.1
II	**Animal Output**	44	106.8	0.9	107.7	0.9	109.6	3.2	114.7	7.3
9	Animal production	18.6	107.8	1.5	107.6	0.8	109.4	2.6	115.8	6.7
9.1	*Cattle*	8.3	104.8	1.4	103.6	1.3	104.7	2.0	107.8	2.4
9.2	*Pigs*	3.1	117.2	8.8	117.0	0.6	116.6	1.4	116.7	-1.1
9.3	*Sheep & goats*	5.1	110.3	-1.7	109.2	-0.2	113.7	4.0	125.5	13.8
9.4	*Poultry*	2.1	101.8	-3.4	105.6	1.3	107.4	3.1	118	15.2
10	Milk	19.7	108.1	0.6	110.1	1.6	111.8	3.9	115.2	7.2
10.1	*Cow milk*	14.8	108.5	0.8	110.3	3.4	112.5	6.1	115.4	7.5
10.2	*Other milk*	4.9	106.7	-0.2	109.5	-2.9	110.0	-1.8	114.4	6.4
11	*Other animal products*	5.7	100.4	-0.1	97.9	-1.9	101.4	2.6	109.5	10.2
11.1	Eggs	2.8	103.6	-0.2	96.9	-6.6	101.4	1.3	116.2	16.3
11.1	Honey	2.9	97.4	0.1	98.9	2.7	101.5	3.9	103.0	4.6

(-) Seasonal products

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Methodology

Price indices in agriculture are calculated based on the standards and guidelines outlined in the Handbook for EU agricultural price statistics. Agricultural output prices are collected through a Monthly Survey in the entire territory of the Republic of Albania. The information is gained from farms, slaughterhouses and weekly markets as well as on other places where agricultural products are sold. For domestic products the prices are collected at farm-gate level excluding taxes. They are surveyed in Albanian Lek, while the measuring units are in kg, litre or pieces.

Output price index in agricultural products is divided into two main groups: Crop and animal products. For crop products prices are collected for the following groups: cereals, industrial crops, forage plants, vegetables, potatoes and permanent crops. For animal products prices are collected for animals and animal products. Within this framework prices are surveyed for four main categories of animals: Cattle, pigs, sheep and goats as well as poultry based on the live weight of animals for slaughter. Within animal products, prices are collected for the categories: milk, eggs and honey.

Weighting scheme of Output price Index in Agricultural products

To calculate the Output price Index in Agricultural products a weighting scheme is used. The weighting factor attached to each elementary index and aggregate index corresponds to the sales value of the respective product (excluding VAT) during the base period (2015=100) according to Eurostat methodology. Weights are also used to join indices of main groups and aggregate indices. The weighting scheme used complies with the methodology of the Economic Accounts for Agriculture. The total and quarterly weights are fixed over a base period. The weighting scheme of the producer price index for agricultural products changes every 5 years.

Calculation of elementary price index

The elementary index is calculated according to the following formula using absolute average prices.

$$R_i^t = \frac{\frac{1}{n}\sum P_{ij}^t}{\frac{1}{n}\sum P_{ij}^0} \cdot 100$$

R_i^t : Elementary price index for month "t" and production "i"

P: Collected prices

i: Production "i"

j: The registered production price (generally the price for district 1.2. .... n)

t: Month observed

o: Base month

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Calculation of aggregate price index

The aggregate index for product groups, subgroups and the total output of agricultural products is calculated using the following formula:

$$I^t = \sum \left(R_i^t \cdot \frac{w_i^o}{\sum w_i^o} \right) \cdot 100$$

I: Aggregate index for period "t"

w_i^o: Weighting factor in base period for production "i"

i: Production "i"

t: Month observed

o: Base month