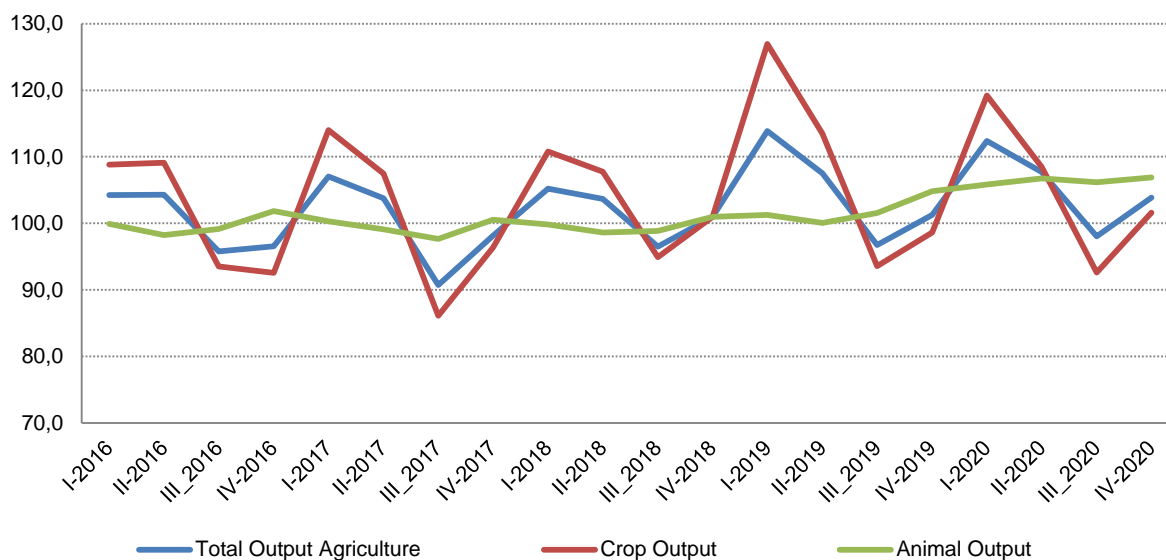# Agricultural Output Price Index

Year 2020

Tirana, 02 July 2020: In 2020, the annual agricultural output price index reached 104.8, from 104.0 in 2019, showing an increase by 0.8 % compared to the previous year. During this year the output price index of crop products decreased by 2.0 %, while the output price index of animal products increased by 4.5 %, compared to the last year.

The biggest increase in prices was for the group "Milk" with 8.1 %, followed by the prices of the group "Permanent crops" by 2.6 %. The prices of the group "Animal production live weight" increased by 2.0%, while the prices of the group "Cereals" by 1.5 %. On the other hand, prices of the group "Potatoes" decreased by 29.4 % followed by the prices of the group "Forage plants" with a decrease of 2.9 %. The annual prices of the group "Vegetables" and of the group "Industrial crops" also decreased by respectively 1.4 % and 0.8 %.

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

For more information please visit our website: http://www.instat.gov.al/

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

Code	Products	Weight in %	2015 Base Year	2018 Index	2018 Annual change in %	2019 Index	2019 Annual change in %	2020 Index	2020 Annual change in %
	Total Output Agriculture	**100**	**100**	**101.2**	**2.0**	**104.0**	**2.7**	**104.8**	**0.8**
I	**Crop Output**	**56.0**	**100**	**102.6**	**3.5**	**105.7**	**3.0**	**103.6**	**-2.0**
1	Cereals	4.2	100	87.9	-1.0	84.7	-3.6	85.9	1.5
2	Industrial crops	0.4	100	133.9	7.7	135.7	1.3	134.6	-0.8
3	Forage plants	3.8	100	88.6	-6.8	84.6	-4.6	82.1	-2.9
4	Vegetables	23.2	100	107.2	9.1	108.2	0.9	106.7	-1.4
5	Potatoes	3.1	100	94.1	-3.7	140.1	49.0	98.9	-29.4
6	Permanent crops	17.2	100	99.9	0.2	101.2	1.4	103.8	2.6
6.1	*Fruits*	8.2	100	106.3	-0.4	102.2	-3.8	115.2	12.7
6.2	*Citrus fruit*	1.0	100	99.7	-1.1	89.6	-10.1	96.8	8.1
6.3	*Grapes*	5.5	100	97.8	1.6	103.0	5.4	97.7	-5.2
6.4	*Olives*	2.5	100	83.4	0.1	98.7	18.3	82.9	-16.0
7	Wine	2.6	100	127.2	3.8	131.1	3.1	133.4	1.8
8	Olive oil	1.5	100	104.5	4.5	104.9	0.4	105.2	0.2
II	**Animal Output**	**44.0**	**100**	**99.5**	**0.2**	**101.9**	**2.4**	**106.4**	**4.5**
9	Animal production	18.6	100	103.2	1.0	105.0	1.8	107.1	2.0
9.1	*Cattle*	8.3	100	101.6	0.6	102.2	0.6	103.4	1.1
9.2	*Pigs*	3.1	100	106.7	-0.3	107.5	0.7	114.3	6.3
9.3	*Sheep & goats*	5.1	100	105.0	3.5	108.8	3.7	110.2	1.3
9.4	*Poultry*	2.1	100	100.3	-1.0	103.5	3.2	104.0	0.5
10	Milk	19.7	100	96.9	-0.7	99.7	2.9	107.8	8.1
10.1	*Cow milk*	14.8	100	97.2	-0.3	100.1	3.0	106.8	6.7
10.2	*Other milk*	4.9	100	96.1	-1.7	98.3	2.4	110.6	12.5
11	Other animal products	5.7	100	96.6	0.3	99.2	2.7	99.6	0.4
11.1	*Eggs*	2.8	100	97.5	-1.6	102.4	5.0	101.9	-0.5
11.1	*Honey*	2.9	100	95.2	2.2	96.2	1.0	97.4	1.3

Tab. 2 Quarterly Output price Index in Agricultural products 2020 (2015=100)

Code	Products	Weight in %	Quarter I 2020		Quarter II 2020		Quarter III 2020		Quarter IV 2020	
			Index	Annual change in %	Index	Annual change in %	Index	Annual change in %	Index	Annual change in %
	Total Output Agriculture	**100**	**112.4**	**-1.3**	**107.7**	**0.2**	**98.1**	**1.3**	**103.9**	**2.6**
I	**Crop Output**	**56**	**119.2**	**-6.1**	**108.5**	**-4.4**	**92.6**	**-1.0**	**101.6**	**3.1**
1	Cereals	4.2	87.0	**1.1**	88.6	**2.8**	84.5	**0.6**	84.2	**1.9**
2	Industrial crops	0.4	139.9	**0.4**	138.3	**-0.3**	130.6	**-3.0**	130.3	**-0.4**
3	Forage plants	3.8	87.8	**1.8**	80.1	**-3.7**	78.1	**-7.9**	82.8	**-1.4**
4	Vegetables	23.2	136.9	**-10.6**	106.4	**-5.4**	85.6	**0.4**	108.8	**20.9**
5	Potatoes	3.1	104.6	**-37.2**	99.5	**-40.9**	89.5	**-17.8**	101.4	**0.3**
6	Permanent crops	17.2	116.2	**22.8**	121.5	**13.9**	97.5	**-0.2**	97.0	**-7.0**
6.1	*Fruits*	8.2	114.3	**13.4**	122.2	**14.5**	104.4	**6.1**	117.7	**15.6**
6.2	*Citrus fruit*	1	120.4	**74.0**	-	**-**	-	**-**	84.5	**-15.7**
6.3	*Grapes*	5.5	-	**-**	-	**-**	92.8	**-4.0**	109.4	**-7.6**
6.4	*Olives*	2.5	117.5	**11.2**	114.6	**8.1**	107.2	**-2.5**	68.8	**-27.4**
7	Wine	2.6	132.8	**2.2**	137.0	**0.1**	128.4	**2.4**	137.0	**2.2**
8	Olive oil	1.5	105.0	**0.0**	104.8	**0.4**	104.3	**-0.2**	106.0	**0.5**
II	**Animal Output**	**44**	**105.8**	**4.5**	**106.8**	**6.7**	**106.2**	**4.6**	**106.9**	**2.0**
9	Animal production	18.6	106.2	**2.0**	106.8	**2.4**	106.7	**1.9**	108.5	**1.7**
9.1	*Cattle*	8.3	103.3	**1.1**	102.2	**0.2**	102.6	**0.6**	105.2	**2.6**
9.2	*Pigs*	3.1	107.7	**0.3**	116.3	**8.6**	115.1	**7.1**	117.9	**9.0**
9.3	*Sheep & goats*	5.1	112.1	**4.6**	109.4	**2.2**	109.3	**1.1**	110.3	**-1.2**
9.4	*Poultry*	2.1	105.4	**3.2**	104.2	**1.8**	104.1	**1.2**	102.4	**-4.0**
10	Milk	19.7	107.5	**8.6**	108.4	**11.1**	107.6	**7.8**	107.4	**4.0**
10.1	*Cow milk*	14.8	107.6	**9.2**	106.7	**8.9**	106.0	**5.4**	107.4	**3.3**
10.2	*Other milk*	4.9	106.9	**6.0**	112.7	**17.0**	112.0	**14.7**	107.5	**6.4**
11	*Other animal products*	5.7	100.5	**1.9**	99.8	**2.8**	98.9	**0.5**	99.3	**-3.2**
11.1	Eggs	2.8	103.8	**1.1**	103.7	**4.4**	100.1	**0.7**	99.9	**-7.5**
11.1	Honey	2.9	97.3	**2.7**	96.2	**1.3**	97.6	**0.3**	98.5	**1.0**

(-) Seasonal products

For more information please visit our website: http://www.instat.gov.al/

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, slaughter-houses 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.

$$Ri \quad t = \frac{\frac{1}{n}\sum P_{ij}^t}{\frac{1}{n}\sum P_{ij}^0} . 100$$

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

For more information please visit our website: http://www.instat.gov.al/

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