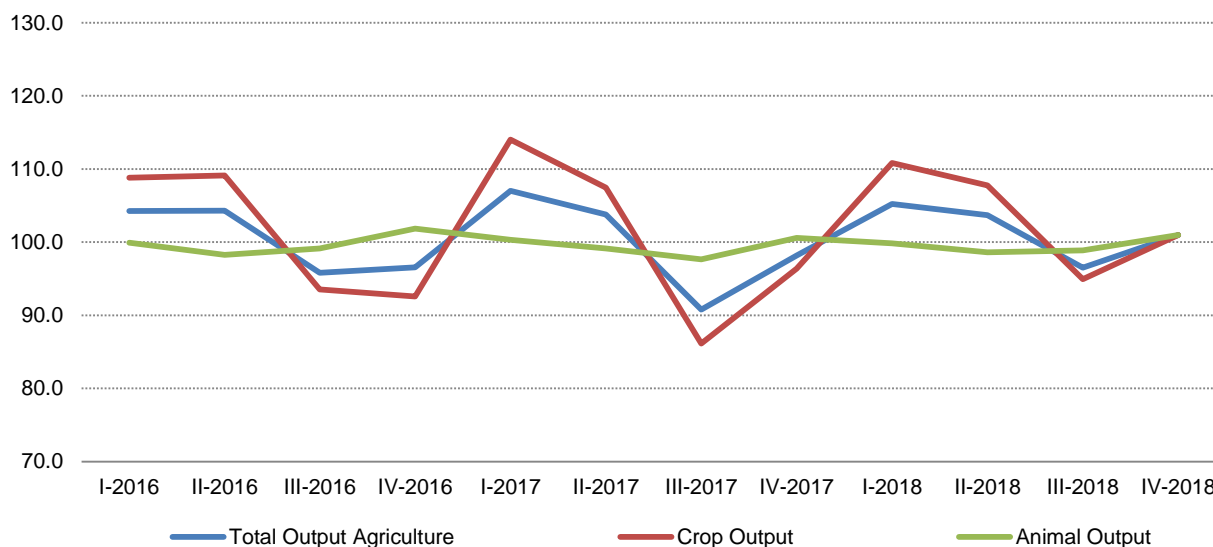


# Output Price Index in Agricultural

## Year 2018

**Tirana, 02 September 2019:** In 2018, the annual producer price index for agricultural products (2015=100) reached 101.2, coming from 99.2 the level reached in 2017. Accordingly, in 2018 the output price index increased by 2.03 % compared to the previous year. In 2018, the output price index of crop products increased by 3.5 % and the index of animal products increased by 0.2 %, compared with the last year.

**Fig. 1 Annual Output price Index in Agricultural products, (2015=100) (%)**



### Annual price changes by main groups:

The biggest increase in prices with 9.52 % was for the group "Industrial crops" followed by the prices of the group "Vegetables" increased by 8.92 %, prices of animal production "Live weight" increase by 1.04 % and prices of "Permanent crops" increased by 0.21 %.

Prices of the group "Forage plants" decreased by 6.43 %, followed by the prices of the group "Potatoes" decreased by 3.61%, the prices of the group 'Cereals' decreased by 0.84 % and the prices of the group "Milk and other animal products" decreased by 0.44 %.

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

Code	Product	Weight in %	2016	2017	2018
	<b>Total Output Agriculture</b>	<b>100</b>	<b>99.9</b>	<b>99.2</b>	<b>101.2</b>
1	Cereals	4.2	100.3	88.7	87.9
2	Industrial crops	0.4	102.1	124.4	133.9
3	Forage plants	3.8	102.1	95.1	88.6
4	Vegetables	23.2	98.2	98.3	107.2
5	Potatoes	3.1	106.1	97.7	94.1
6	Permanent crops	17.2	99.4	99.7	99.9
6.1	Fruits	8.2	105.8	106.7	106.3
6.2	Citrus fruit	1.0	98.1	100.8	99.7
6.3	Grapes	5.5	99.9	96.3	97.8
6.4	Olives	2.5	77.9	83.3	83.4
7	Wine	2.6	108.0	122.5	127.2
8	Olive oil	1.5	102.0	100.0	104.5
	<b>Crop Output</b>	<b>56.0</b>	<b>100.0</b>	<b>99.1</b>	<b>102.6</b>
9	Animal production	18.6	99.5	102.2	103.2
9.1	Cattle	8.3	99.9	101.0	101.6
9.2	Pigs	3.1	101.8	107.1	106.7
9.3	Sheep & goats	5.1	97.2	101.5	105.0
9.4	Poultry	2.1	100.2	101.4	100.3
10	Milk	19.7	101.3	97.6	96.9
10.1	Cow milk	14.8	99.4	97.5	97.2
10.2	Other milk	4.9	107.0	97.7	96.1
11	Other animal products	5.7	95.0	96.3	96.6
11.1	Eggs	2.8	89.5	99.2	97.5
11.2	Honey	2.9	99.8	93.2	95.2
	<b>Animal Output</b>	<b>44.0</b>	<b>99.7</b>	<b>99.3</b>	<b>99.5</b>

**Tab. 2 Quarterly Output price Index in Agricultural. 2016 (2015=100)**

(%)

Code	Products	Weight in %	Quarter I 2016	Quarter II 2016	QuarterIII 2016	QuarterIV 2016
	<b>Total Output Agriculture</b>	<b>100</b>	<b>104.3</b>	<b>104.3</b>	<b>95.8</b>	<b>96.6</b>
1	Cereals	4.2	102.8	106.5	99.4	93.2
2	Industrial crops	0.4	99.6	95.8	99.4	111.6
3	Forage plants	3.8	108.5	104.6	98.8	99.0
4	Vegetables	23.2	113.8	105.4	83.0	91.8
5	Potatoes	3.1	102.9	125.2	93.7	90.1
6	Permanent crops	17.2	102.7	115.0	97.8	90.9
6.1	Fruits	8.2	97.7	118.3	99.7	95.9
6.2	Citrus fruit	1.0	120.6			86.3
6.3	Grapes	5.5			97.8	104.9
6.4	Olives	2.5	97.4	82.3	77.6	74.2
7	Wine	2.6	114.8	110.4	115.7	94.3
8	Olive oil	1.5	103.5	105.1	104.2	97.8
	<b>Crop Output</b>	<b>56.0</b>	<b>108.8</b>	<b>109.1</b>	<b>93.5</b>	<b>92.6</b>
9	Animal production	18.6	100.0	98.4	99.3	100.4
9.1	Cattle	8.3	100.9	99.9	99.3	99.8
9.2	Pigs	3.1	98.6	99.6	104.4	104.4
9.3	Sheep & goats	5.1	100.7	95.1	95.5	98.2
9.4	Poultry	2.1	97.6	98.9	100.6	103.7
10	Milk	19.7	102.3	100.2	100.4	103.1
10.1	Cow milk	14.8	99.7	98.8	99.3	100.0
10.2	Other milk	4.9	112.7	104.0	103.5	113.4
11	Other animal products	5.7	93.5	89.4	93.7	103.4
11.1	Eggs	2.8	86.8	79.1	86.8	105.5
11.2	Honey	2.9	99.4	98.6	100.2	101.1
	<b>Animal Output</b>	<b>44.0</b>	<b>99.9</b>	<b>98.3</b>	<b>99.1</b>	<b>101.8</b>

(-) Seasonal products

Tab.3 Quarterly Output price Index in Agricultural. 2017 (2015=100)

(%)

Code	Products	Weight in %	Quarter I 2017	Quarter II 2017	Quarter III 2017	Quarter IV 2017
<b>Total Output Agriculture</b>		<b>100</b>	<b>107.0</b>	<b>103.8</b>	<b>90.8</b>	<b>98.2</b>
1	Cereals	4.2	91.8	91.1	86.0	86.8
2	Industrial crops	0.4	125.2	122.3	122.3	126.9
3	Forage plants	3.8	106.7	97.4	90.9	88.9
4	Vegetables	23.2	127.7	109.1	70.6	89.3
5	Potatoes	3.1	103.9	104.3	90.1	88.8
6	Permanent crops	17.2	101.5	108.7	93.6	100.6
6.1	Fruits	8.2	105.3	109.9	99.4	111.8
6.2	Citrus fruit	1.0	102.3	-	-	100.0
6.3	Grapes	5.5	-	-	89.9	111.6
6.4	Olives	2.5	85.8	96.6	95.6	78.9
7	Wine	2.6	119.9	119.6	123.4	124.7
8	Olive oil	1.5	100.3	97.6	96.8	103.4
<b>Crop Output</b>		<b>56.0</b>	<b>114.0</b>	<b>107.5</b>	<b>86.1</b>	<b>96.4</b>
9	Animal production	18.6	102.0	101.5	101.4	103.6
9.1	Cattle	8.3	100.7	100.3	101.2	101.8
9.2	Pigs	3.1	106.0	108.2	107.4	106.7
9.3	Sheep & goats	5.1	100.5	98.7	99.4	105.7
9.4	Poultry	2.1	103.9	103.5	98.0	100.2
10	Milk	19.7	98.6	98.4	96.0	97.5
10.1	Cow milk	14.8	97.9	99.0	96.1	96.9
10.2	Other milk	4.9	101.8	96.7	95.7	99.6
11	Other animal products	5.7	99.4	94.6	92.7	98.7
11.1	Eggs	2.8	103.9	98.7	92.0	102.1
11.2	Honey	2.9	94.7	90.6	92.6	94.7
<b>Animal Output</b>		<b>44.0</b>	<b>100.3</b>	<b>99.1</b>	<b>97.7</b>	<b>100.6</b>

(-) Seasonal products

**Tab.4 Quarterly Output price Index in Agricultural products. 2018 (2015=100)**

Code	Products	Weight in %	Quarter I 2018	Quarter II 2018	Quarter III 2018	Quarter IV 2018
	<b>Total Output Agriculture</b>	<b>100</b>	<b>105.2</b>	<b>103.7</b>	<b>96.5</b>	<b>101.0</b>
1	Cereals	4.2	91.9	92.6	84.6	83.6
2	Industrial crops	0.4	137.5	134.4	131.7	132.0
3	Forage plants	3.8	98.0	97.3	84.3	80.6
4	Vegetables	23.2	116.5	110.1	94.0	111.7
5	Potatoes	3.1	80.5	86.9	96.5	114.8
6	Permanent crops	17.2	125.0	110.3	93.7	93.6
6.1	Fruits	8.2	132.3	111.0	97.0	95.9
6.2	Citrus fruit	1.0	120.6	-	-	88.7
6.3	Grapes	5.5	-	-	91.5	112.7
6.4	Olives	2.5	102.6	103.9	97.3	75.0
7	Wine	2.6	122.6	130.2	128.4	125.4
8	Olive oil	1.5	104.7	104.8	104.0	104.7
	<b>Crop Output</b>	<b>56.0</b>	<b>110.8</b>	<b>107.7</b>	<b>94.9</b>	<b>101.0</b>
9	Animal production	18.6	103.3	102.7	102.7	104.0
9.1	Cattle	8.3	102.0	101.2	101.2	101.9
9.2	Pigs	3.1	107.2	106.4	106.2	107.2
9.3	Sheep & goats	5.1	106.3	104.1	104.5	105.3
9.4	Poultry	2.1	98.0	99.8	99.8	103.7
10	Milk	19.7	96.9	96.8	96.8	97.2
10.1	Cow milk	14.8	97.5	97.1	96.7	97.4
10.2	Other milk	4.9	94.3	95.9	96.9	96.5
11	Other animal products	5.7	97.0	93.2	94.9	101.4
11.1	Eggs	2.8	98.6	90.3	94.2	107.0
11.1	Honey	2.9	94.8	95.0	95.0	96.0
	<b>Animal Output</b>	<b>44.0</b>	<b>99.8</b>	<b>98.6</b>	<b>98.9</b>	<b>101.0</b>

(-) Seasonal products

# 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, liter 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

### 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:

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

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