



## PRESS RELEASE

### INPUT AND OUTPUT PRICE INDICES IN AGRICULTURE – LIVESTOCK: NOVEMBER 2018

The evolution of the Input and Output Price Indices with base year 2015=100.0 for November 2018, according to provisional data, is as follows:

The Output Price Index in Agriculture – Livestock (excluding subsidies) decreased by 0.3% in November 2018, compared with November 2017. The corresponding index in November 2017 had recorded an increase of 2.6% compared with November 2016 (Table 1).

The Output Price Index in November 2018 decreased by 3.2% in comparison with October 2018 (Table 2).

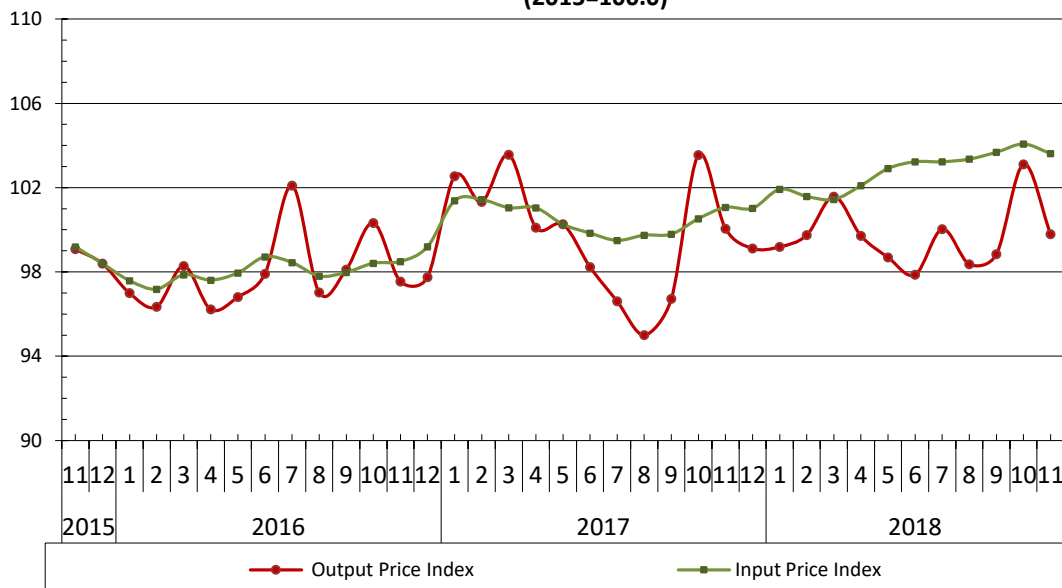
The twelve-month weighted average index from December 2017 to November 2018 increased by 0.1%, compared with the corresponding index of the period from December 2016 to November 2017 (Table 3).

The Input Price Index in Agriculture – Livestock increased by 2.5% in November 2018, compared with November 2017. The corresponding index in November 2017 had recorded an increase of 2.6% compared with November 2016 (Table 4).

The Input Price Index in November 2018 decreased by 0.4% in comparison with October 2018 (Table 5).

The twelve-month average index from December 2017 to November 2018 increased by 2.3%, compared with the corresponding index of the period from December 2016 to November 2017 (Table 6).

**Graph 1. Evolution of Input and Output Price Indices in Agriculture – Livestock  
(2015=100.0)**



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The decrease of 0.3% in the Output Price Index in November 2018 compared with November 2017 is on account of (Table 1):

- decrease 1.9% of the price index in animal output group; and mainly on the rates of change of the group: animals.

The increase of 2.5% in the Input Price Index in November 2018 compared with November 2017 is on account of (Table 4):

- increase 3.0% of the price index in goods and services currently consumed in agriculture group and mainly on the rates of change of the groups: energy and lubricants, animal feedingstuffs.
- increase 0.2% of the price index in goods and services contributing to agricultural investment group and mainly on the rates of change of the group: materials.

**Table 1. Annual rates of change of the Output Price Indices in Agriculture – Livestock**

**Base year: 2015=100.0**

Code	Main groups	Weighting coefficient	November			Change (%)	
			2018	2017	2016	2018/2017	2017/2016
140000	AGRICULTURAL GOODS OUTPUT	8,370	99.8	100.1	97.5	-0.3	2.6
100000	CROP OUTPUT	7,169	100.1	100.1	97.7	0.0	2.5
010000	Cereals (including seeds)	1,625	96.1	93.6	94.2	2.7	-0.7
020000	Industrial crops	932	113.5	115.3	113.7	-1.6	1.4
030000	Forage plants	385	82.6	79.5	84.6	3.8	-6.0
040000	Vegetables and horticultural Products	1,114	100.0	89.8	94.0	11.4	-4.5
050000	Potatoes (including seeds)	114	128.8	78.1	99.2	64.9	-21.3
060000	Fruits	2,004	99.7	100.6	93.6	-0.9	7.4
070000	Wine (incl. must)	25	98.5	98.3	100.6	0.2	-2.3
080000	Olive oil	944	98.6	118.1	105.6	-16.5	11.9
090000	Other crop products	25	106.9	106.7	96.9	0.2	10.1
130000	ANIMAL OUTPUT	1,200	97.7	99.6	96.8	-1.9	2.9
110000	Animals	685	97.8	102.2	100.6	-4.3	1.6
120000	Animal products	515	97.6	96.2	91.7	1.5	4.9

*Note: The indices and the percentage changes are published rounded up to one decimal figure.*

**Table 2. Monthly rates of change of the Output Price Indices in Agriculture – Livestock**

**Base year: 2015=100.0**

Code	Main groups	Weighting coefficient	November 2018	October 2018	Change (%)	November 2017	October 2017	Change (%)
140000	AGRICULTURAL GOODS OUTPUT	100,000	99.8	103.1	-3.2	100.1	103.6	-3.4
100000	CROP OUTPUT	71,720	100.1	103.8	-3.5	100.1	104.0	-3.7
010000	Cereals (including seeds)	8,270	96.1	96.0	0.0	93.6	94.4	-0.9
020000	Industrial crops	5,602	113.5	115.2	-1.5	115.3	117.6	-1.9
030000	Forage plants	4,839	82.6	82.9	-0.3	79.5	79.2	0.5
040000	Vegetables and horticultural products	16,410	100.0	105.0	-4.7	89.8	93.5	-3.9
050000	Potatoes (including seeds)	2,129	128.8	119.7	7.6	78.1	77.4	1.0
060000	Fruits	22,692	99.7	100.5	-0.8	100.6	99.8	0.7
070000	Wine (incl. must)	295	98.5	98.5	0.0	98.3	98.3	0.0
080000	Olive oil	11,330	98.6	100.2	-1.5	118.1	122.6	-3.6
090000	Other crop products	153	106.9	106.9	0.0	106.7	106.7	0.0
130000	ANIMAL OUTPUT	28,280	97.7	97.8	-0.1	99.6	100.5	-0.8
110000	Animals	12,883	97.8	98.1	-0.3	102.2	103.4	-1.1
120000	Animal products	15,397	97.6	97.4	0.1	96.2	95.8	0.4

*Note: The indices and the percentage changes are published rounded up to one decimal figure.*

Table 3. Evolution of the Output Price Index in Agriculture – Livestock

Base year: 2015=100.0

Year and month		Overall Index	Monthly rates of change (%)	Annual rates of change (%)	12-month weighted average index (moving average)	12-month weighted moving average rates of change (%)
<b>2016:</b>	1	97.0	-1.4	-2.0	99.9	5.7
	2	96.3	-0.7	-4.5	99.6	5.0
	3	98.3	2.0	-5.6	99.1	3.8
	4	96.2	-2.1	-6.7	98.6	2.3
	5	96.8	0.6	-4.4	98.2	1.1
	6	97.9	1.1	1.0	98.3	0.6
	7	102.1	4.3	5.1	98.7	0.7
	8	97.0	-5.0	-3.5	98.4	-0.3
	9	98.1	1.1	-2.2	98.2	-0.7
	10	100.3	2.3	0.7	98.2	-1.3
	11	97.5	-2.8	-1.6	98.1	-1.9
	12	97.8	0.2	-0.7	98.1	-1.9
<b>Annual average</b>		<b>98.1</b>			<b>98.1</b>	
<b>2017:</b>	1	102.5	4.9	5.7	98.4	-1.5
	2	101.3	-1.2	5.2	98.7	-0.8
	3	103.6	2.2	5.4	99.1	0.0
	4	100.1	-3.3	4.0	99.4	0.9
	5	100.3	0.2	3.6	99.7	1.6
	6	98.2	-2.0	0.3	99.8	1.5
	7	96.6	-1.7	-5.4	99.3	0.7
	8	95.0	-1.7	-2.1	99.2	0.8
	9	96.7	1.8	-1.4	99.0	0.9
	10	103.6	7.1	3.2	99.4	1.2
	11	100.1	-3.4	2.6	99.6	1.5
	12	99.1	-0.9	1.4	99.7	1.7
<b>Annual average</b>		<b>99.7</b>			<b>99.7</b>	
<b>2018:</b>	1	99.2	0.1	-3.3	99.5	1.1
	2	99.8	0.6	-1.6	99.4	0.7
	3	101.6	1.8	-1.9	99.3	0.1
	4	99.7	-1.8	-0.4	99.2	-0.2
	5	98.7	-1.0	-1.6	99.1	-0.6
	6	97.9	-0.8	-0.4	99.1	-0.7
	7	100.0	2.2	3.5	99.3	0.0
	8	98.4	1.7	3.5	99.6	0.4
	9	98.8	0.5	2.2	99.8	0.8
	10	103.1	4.3	-0.4	99.8	0.4
	11	99.8	-3.2	-0.3	99.7	0.1

Note: The indices and the percentage changes are published rounded up to one decimal figure.

**Table 4. Annual rates of change of the Input Price Indices in Agriculture – Livestock**

**Base year: 2015=100.0**

Code	Main groups	Weighting coefficient	November			Change (%)	
			2018	2017	2016	2018/2017	2017/2016
220000	INPUT TOTAL	100,000	103.6	101.1	98.5	2.5	2.6
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE	83,208	104.0	101.0	98.1	3.0	2.9
201000	Seeds and planting stock	4,809	101.5	100.9	101.7	0.5	-0.8
202000	Energy and lubricants	22,319	117.3	108.1	95.5	8.5	13.2
203000	Fertilizers and soil improvers	5,234	97.8	97.4	97.3	0.4	0.1
204000	Plant protection products and pesticides	4,590	101.2	101.0	100.5	0.3	0.4
205000	Veterinary expenses	1,466	101.4	101.8	100.0	-0.4	1.8
206000	Animal feedingstuffs	34,571	98.8	96.3	97.9	2.6	-1.6
207000	Maintenance of materials	3,821	103.2	102.9	99.9	0.3	3.0
208000	Maintenance of buildings	319	100.1	100.2	99.1	-0.1	1.2
209000	Other goods and services	6,081	95.7	103.1	103.3	-7.2	-0.2
210000	GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT	16,792	101.8	101.6	100.4	0.2	1.2
211000	Materials	14,519	102.6	102.1	100.8	0.5	1.3
211110	Rotovators and other 2 wheel equipment	1,436	100.0	99.6	98.7	0.4	0.9
211120	Machinery and plant for cultivation	2,899	103.6	102.8	101.9	0.8	0.9
211130	Machinery and plant for harvesting	2,372	102.2	102.0	101.0	0.2	1.0
211140	Farm machinery and installations	3,260	101.8	101.3	101.1	0.5	0.2
211210	Tractors	858	100.3	99.4	99.9	0.9	-0.5
211290	Other vehicles	3,695	104.3	103.8	100.5	0.4	3.3
212000	Buildings	2,273	96.5	98.3	97.9	-1.9	0.5

*Note: The indices and the percentage changes are published rounded up to one decimal figure.*

**Table 5. Monthly rates of change of the Input Price Indices in Agriculture – Livestock**

**Base year: 2015=100.0**

Code	Main groups	Weighting coefficient	November 2018	October 2018	Change (%)	November 2017	October 2017	Change (%)
220000	INPUT TOTAL	100,000	103.6	104.1	-0.4	101.1	100.5	0.5
200000	GOODS AND SERVICES CURRENTLY CONSUMED IN AGRICULTURE	83,208	104.0	104.5	-0.5	101.0	100.3	0.6
201000	Seeds and planting stock	4,809	101.5	101.7	-0.2	100.9	101.2	-0.2
202000	Energy and lubricants	22,319	117.3	120.3	-2.5	108.1	105.7	2.3
203000	Fertilizers and soil improvers	5,234	97.8	97.5	0.3	97.4	97.5	-0.2
204000	Plant protection products and pesticides	4,590	101.2	101.1	0.1	101.0	100.9	0.0
205000	Veterinary expenses	1,466	101.4	101.4	0.0	101.8	101.7	0.1
206000	Animal feedingstuffs	34,571	98.8	98.2	0.5	96.3	95.6	0.7
207000	Maintenance of materials	3,821	103.2	103.2	0.0	102.9	101.2	1.7
208000	Maintenance of buildings	319	100.1	99.9	0.1	100.2	100.1	0.1
209000	Other goods and services	6,081	95.7	95.2	0.5	103.1	107.8	-4.3
210000	GOODS AND SERVICES CONTRIBUTING TO AGRICULTURAL INVESTMENT	16,792	101.8	101.7	0.0	101.6	101.6	0.0
211000	Materials	14,519	102.6	102.5	0.1	102.1	102.1	0.0
211110	Rotovators and other 2 wheel equipment	1,436	100.0	99.9	0.1	99.6	99.6	0.0
211120	Machinery and plant for cultivation	2,899	103.6	103.5	0.1	102.8	102.8	0.0
211130	Machinery and plant for harvesting	2,372	102.2	102.2	0.0	102.0	102.0	0.0
211140	Farm machinery and installations	3,260	101.8	101.8	0.1	101.3	101.3	0.0
211210	Tractors	858	100.3	100.3	0.0	99.4	99.4	0.0
211290	Other vehicles	3,695	104.3	104.3	0.0	103.8	103.8	0.0
212000	Buildings	2,273	96.5	96.5	0.0	98.3	98.3	0.1

*Note: The indices and the percentage changes are published rounded up to one decimal figure.*

Table 6. Evolution of the Input Price Index in Agriculture – Livestock

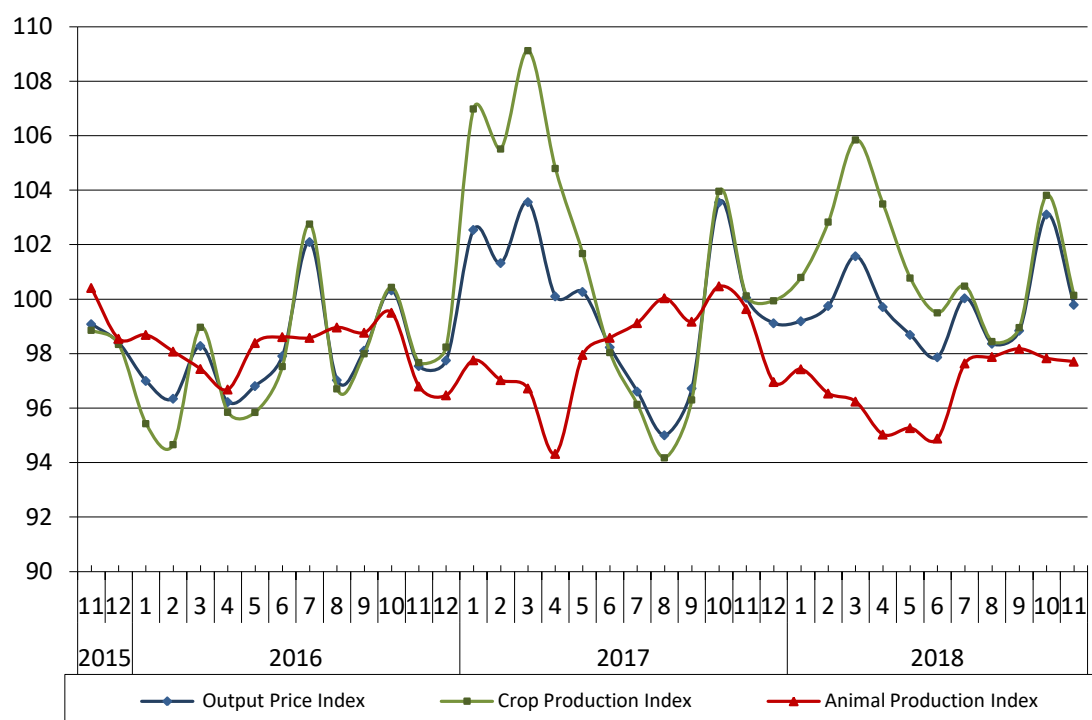
Base year: 2015=100.0

Year and month		Overall Index	Monthly rates of change (%)	Annual rates of change (%)	12-month average index (moving average)	12-month moving average rates of change (%)
<b>2016:</b>	1	97.6	-0.8	-1.4	99.9	-6.8
	2	97.2	-0.4	-3.0	99.6	-6.4
	3	97.9	0.7	-3.1	99.4	-6.1
	4	97.6	-0.3	-3.4	99.1	-5.9
	5	97.9	0.3	-3.4	98.8	-5.6
	6	98.7	0.8	-2.2	98.6	-5.2
	7	98.4	-0.3	-2.3	98.4	-4.8
	8	97.8	-0.7	-1.8	98.3	-4.3
	9	98.0	0.2	-1.3	98.2	-3.7
	10	98.4	0.4	-0.9	98.1	-3.1
	11	98.5	0.1	-0.7	98.0	-2.6
	12	99.2	0.7	0.8	98.1	-1.9
<b>Annual average</b>		<b>98.1</b>			<b>98.1</b>	
<b>2017:</b>	1	101.4	2.2	3.9	98.4	-1.5
	2	101.4	0.1	4.4	98.8	-0.9
	3	101.0	-0.4	3.3	99.0	-0.3
	4	101.0	0.0	3.5	99.3	0.2
	5	100.3	-0.8	2.4	99.5	0.7
	6	99.8	-0.4	1.1	99.6	1.0
	7	99.5	-0.3	1.1	99.7	1.3
	8	99.7	0.3	2.0	99.9	1.6
	9	99.8	0.0	1.9	100.0	1.9
	10	100.5	0.7	2.1	100.2	2.1
	11	101.1	0.5	2.6	100.4	2.4
	12	101.0	0.0	1.8	100.6	2.5
<b>Annual average</b>		<b>100.6</b>			<b>100.6</b>	
<b>2018:</b>	1	101.9	0.9	0.5	100.6	2.2
	2	101.6	-0.3	0.1	100.6	1.9
	3	101.4	-0.1	0.4	100.6	1.6
	4	102.1	0.6	1.0	100.7	1.4
	5	102.9	0.8	2.6	101.0	1.4
	6	103.2	0.3	3.4	101.2	1.6
	7	103.2	0.0	3.8	101.5	1.9
	8	103.4	0.1	3.6	101.8	2.0
	9	103.7	0.3	3.9	102.2	2.2
	10	104.1	0.4	3.5	102.5	2.3
	11	103.6	-0.4	2.5	102.7	2.3

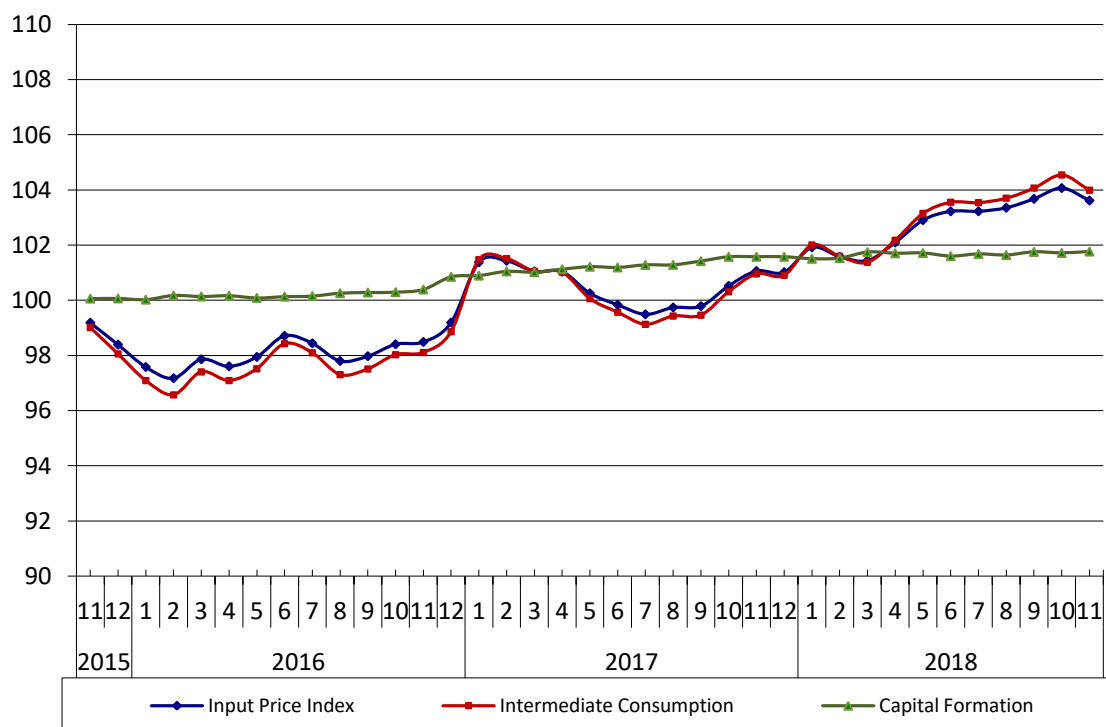
Note: The indices and the percentage changes are published rounded up to one decimal figure.



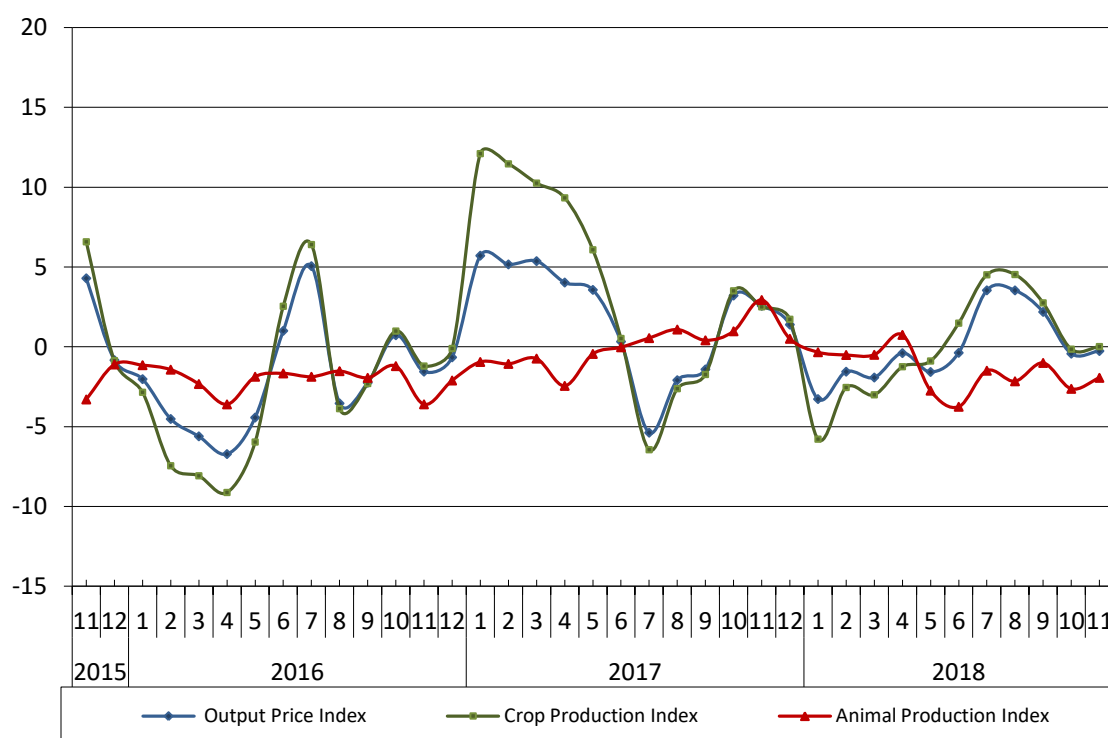
**Graph 2. Evolution of the Output Price Index in Agriculture – Livestock and of the sub-indices of Crop and Animal Production (2015=100.0)**



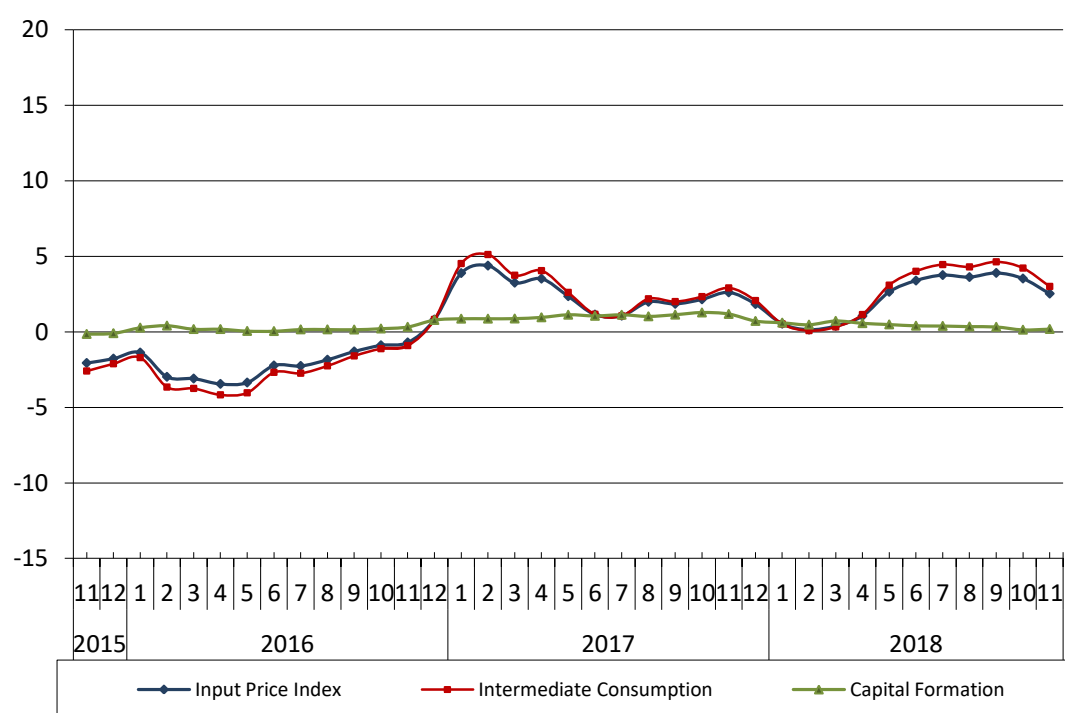
**Graph 3. Evolution of the Input Price Index in Agriculture – Livestock and of the sub-indices of Intermediate Consumption and Capital Formation (2015=100.0)**



**Graph 4. Annual rates of change (%) of the Output Price Index in Agriculture – Livestock and of the sub-indices of Crop and Animal Production (2015=100.0)**



**Graph 5. Annual rates of changes (%) of the Input Price Index in Agriculture – Livestock and of the sub-indices of Intermediate Consumption and Capital Formation (2015=100.0)**



## METHODOLOGICAL NOTES

<b>Generally</b>	The compilation of the Input and Output Price Indices in Agriculture and Livestock started in 1967 with base year 1966=100.0.
<b>Purpose of the indices– definitions</b>	<p>The purpose of the Output Price Index is to measure the relative change in the prices that the producers receive in the agricultural – livestock sector from the sale of their products. The purpose of the Input Price Index is to measure the change in the prices paid by producers for the purchase of the means, goods and services used in the production process.</p> <p>The Output Price Index is composed of the crop and the animal output sub-indices. The Input Price Index consists of the sub-indices of intermediate consumption and of fixed capital formation goods.</p> <p>As regards the Output Price Index, the prices collected are the market prices of the products. The market price is defined as the price received by the producer without subsidies, transport expenses and excluding VAT or other taxes or levies.</p> <p>As regards the Input Price Index, the collected prices refer to the prices paid for by the producers to buy the goods and services they need for their agricultural and livestock production, excluding VAT and transport expenses.</p>
<b>Legal basis</b>	The compilation of the Input and Output Price Indices in the Agriculture and Livestock sector is based on voluntary agreements between Eurostat and the Member States. The foundations for these agreements were laid in the early seventies.
<b>Reference period</b>	Month.
<b>Base year</b>	2015=100.0.
<b>Revision</b>	The Input and Output Price Indices are fixed-basis indices. The most recent revision took place with base year 2015=100.0, with April 2018 as first reference month. The revision was carried out in the framework of the agreement between EU Member States and the European Union (EU), according to which, for reasons of comparability, these indices have to be revised every five (5) years and more specifically in the years ending in 0 and 5.
<b>Statistical classification</b>	According to the common methodology used by the EU Member States and Eurostat, the groups of products of the Agricultural Price Indices follow the same classification of the groups as in EAA (Economic Agricultural Accounts).
<b>Geographical coverage</b>	The indices cover the whole country.
<b>Coverage of economic activities</b>	The Input and Output Price Indices cover the transactions for products and services in the sector of agriculture and livestock. In addition, the transactions for olive oil and must - wine are covered, which are included in the manufacturing sector when their production – manufacturing process takes place at the level of agricultural unit, thus it is considered to be an activity of the agricultural sector.
<b>Seasonality</b>	Seasonality of products influences the agricultural and livestock production and as a result some products are not available every month in a calendar year. For this reason, the weighting coefficients of output products differ per month in the year.
<b>Statistical survey</b>	<p>The sources of price collection are the agricultural cooperatives (unions), which collect the final products, as well as, the commercial and the industrial enterprises, which buy the final products directly from the producers.</p> <p>The price data for the output price index are collected from approximately 745 sources and price data for input prices are collected from approximately 665 sources.</p>
<b>Publication of data</b>	The Input and Output Price Indices with the new base year (2015) are released since June 2018 with April 2018 data as first reference month. The retrospective calculations of the time series of indicators before 2015 were calculated by dividing the product and group price indices by the corresponding price index of 2015 (with b.y. 2010=100.0), so that the changes (monthly and annual) of the time series indicators remain the same.
<b>References</b>	<p>More information on the methodology concerning the compilation and calculation of the indices, as well as the time series is available on the website of ELSTAT, at:</p> <p><a href="http://www.statistics.gr/en/statistics/-/publication/DKT30/-">http://www.statistics.gr/en/statistics/-/publication/DKT30/-</a></p>