HELLENIC REPUBLIC
HELLENIC STATISTICAL AUTHORITY

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PRESS RELEASE

ANNUAL AGRICULTURAL STATISTICAL SURVEY: 2017

The Hellenic Statistical Authority (ELSTAT) announces the results of the 2017 Annual Agricultural Statistical Survey.

A. CULTIVATED AREAS

The **total utilized agricultural area** (arable land, crops under vegetables, permanent crops and fallow land) in 2017 amounted to 32,209.0 thousand stremmas.

Cultivated areas by main crop type and by year as presented in Table 1 and Graph 1, are distributed as follows:

- in 2017, 53.3% of the cultivated area (17,201.3 thousand stremmas) was used for arable farming (net area), 2.0% (633.1 thousand stremmas) was used for vegetables (net area), 33.7% (10,826.9 thousand stremmas) for permanent crops and 11.0% (3,547.6 thousand stremmas) was fallow land,
- in 2016, 53.5% of the cultivated area (17,240.4 thousand stremmas) was used for arable farming (net area), 2.0% (634.3 thousand stremmas) was used for vegetables (net area), 33.6% (10,852.0 thousand stremmas) for permanent crops and 10.9% (3,529.6 thousand stremmas) was fallow land.

Table 1. Areas under cultivation by type of crop (Greece total), 2016 – 2017
In thousand stremmas (1 stremma=0.1 ha)

Crop type	2016	2017	Change (%) 2017/2016
Total cultivated agricultural area	**32,256.3**	**32,209.0**	**-0.1**
Irrigated	12,083.0	12,341.6	2.1
1. Arable land (net area)	**17,240.4**	**17,201.3**	**-0.2**
Irrigated	6,987.1	7,187.1	2.9
2. Horticulture land (net area)	**634.3**	**633.1**	**-0.2**
Irrigated	631.8	636.4	0.7
3. Permanent crops	**10,852.0**	**10,826.9**	**-0.2**
Irrigated	4,464.1	4,518.1	1.2
4. Fallow land	**3,529.6**	**3,547.6**	**0.5**
of which: lands preserved in good agricultural and environmental condition	1,855.8	1,969.7	6.1

Note: Any discrepancies in the sums and percentages are due to rounding

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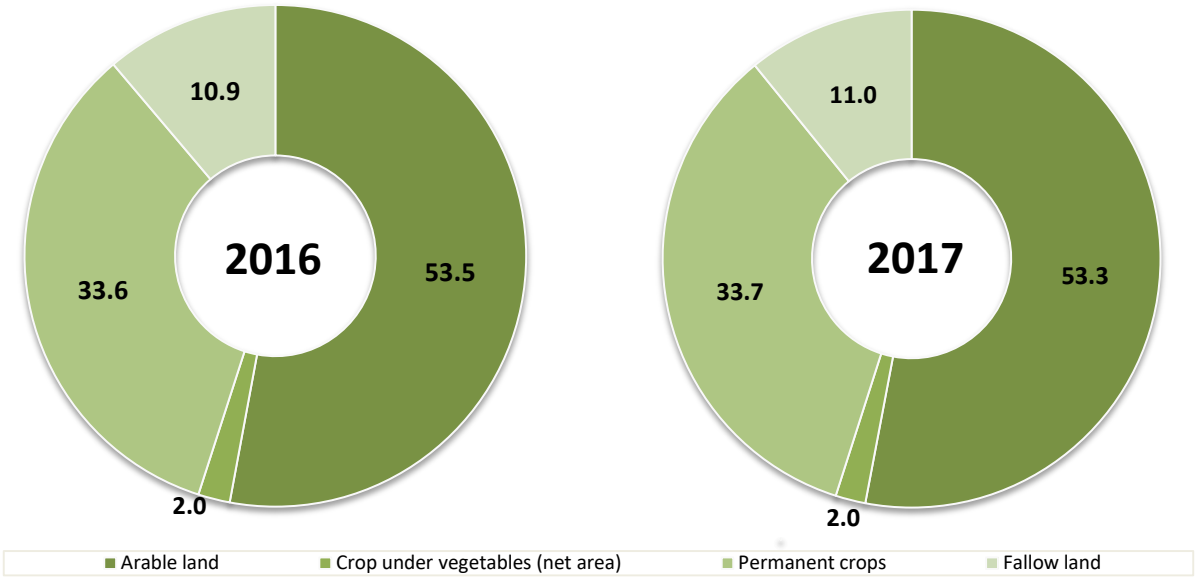
Graph 1. Percentage (%) distribution of the cultivated agricultural area by categories (Greece total), 2016 – 2017



The change of the most important (in terms of coverage of the total agricultural land) cultivated species, as recorded by type of crop and presented in Table 2, are the following:

- the cultivated areas under **durum wheat** decreased by 13.9% in 2017 compared with 2016. More specifically, the cultivated areas under durum wheat amounted to 3,365.4 thousand stremmas in 2017 and 3,907.5 thousand stremmas in 2016,
- the cultivated areas under **grain maize** decreased by 5.1% in 2017 compared with 2016. More specifically, the areas under maize amounted to 1,260.3 thousand stremmas in 2017 and 1,328.3 thousand stremmas in 2016,
- the cultivated areas under **cotton** increased by 5.6% in 2017 compared with 2016. More specifically, the areas under cotton amounted to 2,601.8 thousand stremmas in 2017 and 2,463.8 thousand stremmas in 2016,
- the cultivated areas under **vineyards** (**total**) decreased by 0.9% in 2017 compared with 2016. More specifically, the areas under vines amounted to 903.6 thousand stremmas in 2017 and 911.4 thousand stremmas in 2016,
- the cultivated areas under **orange trees** decreased by 1.0% in 2017 compared with 2016. More specifically, the areas under oranges amounted to 293.8 thousand stremmas in 2017 and 296.9 thousand stremmas in 2016,
- the cultivated areas under **peach – nectarine trees** increased by 0.5% in 2017 compared with 2016. More specifically, the areas under peaches - nectarines amounted to 399.2 thousand stremmas in 2017 and 397.3 thousand stremmas in 2016,
- the cultivated area under **olive trees (total)** decreased by 0.6% in 2017 compared with 2016. More specifically, the cultivated areas under olives for oil amounted 7,926.4 thousand stremmas in 2017 and 7,978.2 thousand stremmas in 2016.

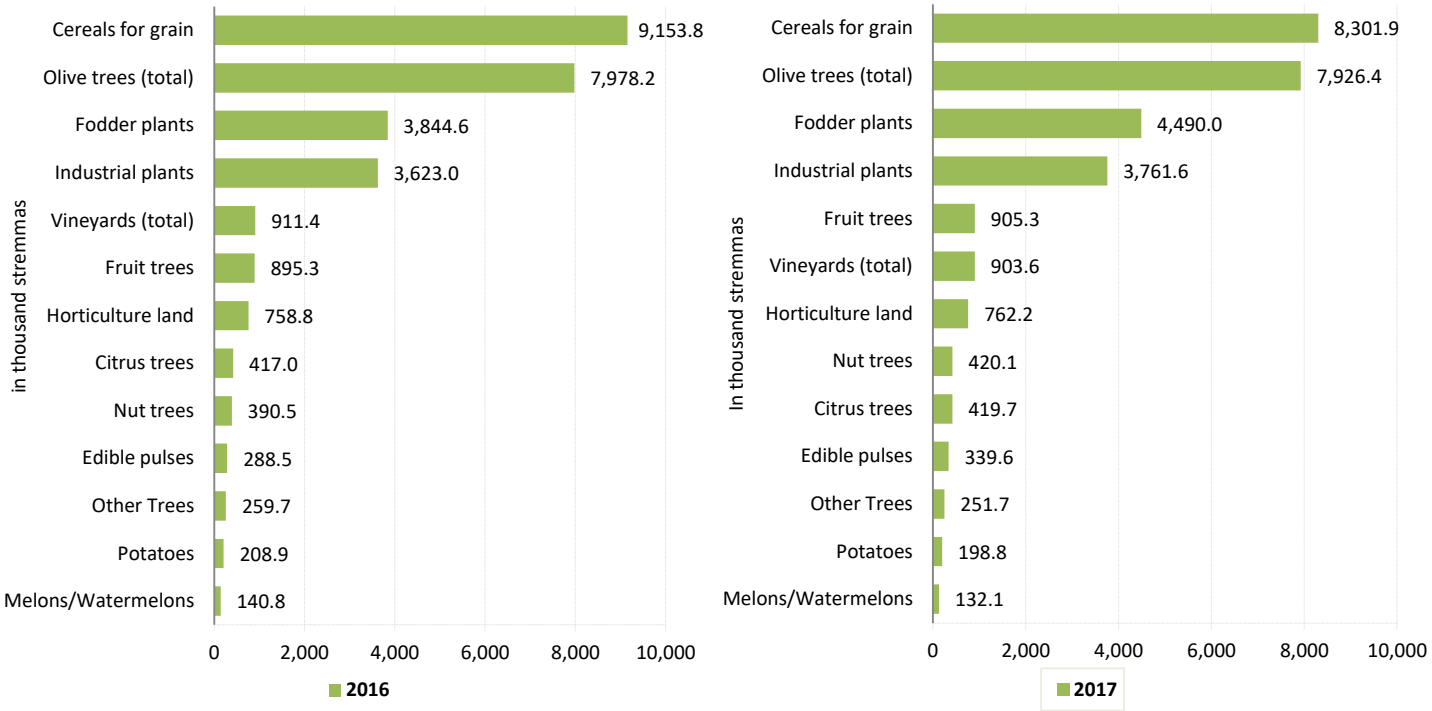
Table 2. Cultivated land, by category and crop (Greece total), 2016 – 2017
In thousand stremmas

Cultivated species by category	2016	2017	Change (%) 2017/2016
1. Arable land	**17,294.4**	**17,277.3**	**-0.1**
1.1 Cereals for grain	**9,153.8**	**8,301.9**	**-9.3**
Common wheat	1,487.8	1,267.7	-14.8
Durum wheat	3,907.5	3,365.4	-13.9
Barley	1,325.4	1,293.2	-2.4
Grain Maize	1,328.3	1,260.3	-5.1
Other cereals	1,105.0	1,115.0	1.0
1.2 Edible pulses	**288.5**	**339.6**	**17.7**
1.3 Industrial Plants	**3,623.0**	**3,761.6**	**3.8**
Tobacco	187.6	174.0	-7.2
Cotton	2,463.8	2,601.8	5.6
Other industrial plants	971.6	985.9	1.5

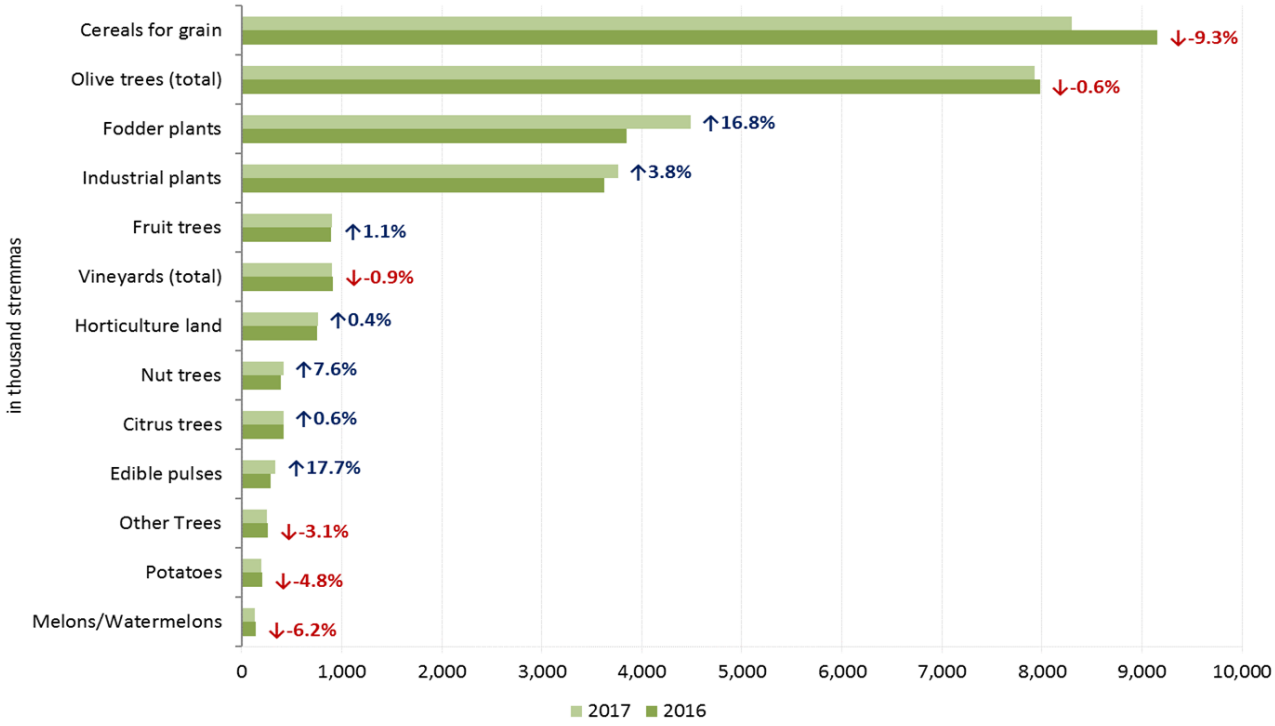
Cultivated species by category	2016	2017	Change (%) 2017/2016
1.4 Aromatic plants	**35.1**	**53.1**	**51.3**
1.5 Fodder plants	**3,844.6**	**4,490.0**	**16.8**
1.6 Melons and watermelons	**140.8**	**132.1**	**-6.2**
1.7 Potatoes	**208.9**	**198.8**	**-4.8**
2. Horticulture land	**758.8**	**762.2**	**0.4**
3. Permanent crops	**10,852.1**	**10,826.9**	**-0.2**
3.1 Vineyards (total)	**911.4**	**903.6**	**-0.9**
Vines for wine	517.2	512.7	**-0.9**
Vines for table grapes	96.2	97.1	**1.0**
Vines for currants	298.0	293.8	**-1.4**
3.2 Trees in compact plantations	**9,940.7**	**9,923.3**	**-0.2**
3.2.1 Citrus trees	**417.0**	**419.7**	**0.6**
Lemon trees	43.5	43.4	-0.1
Orange trees	296.9	293.8	-1.0
Mandarin trees	73.9	79.6	7.7
Other citrus trees	2.7	2.8	4.7
3.2.2 Fruit trees	**895.3**	**905.3**	**1.1**
Pear trees	39.3	39.2	-0.4
Apple trees	96.8	92.9	-4.0
Peach - Nectarine trees	397.3	399.2	0.5
Other fruit trees	361.9	374.0	3.4
3.2.3 Nut trees	**390.5**	**420.1**	**7.6**
Almond trees	121.3	131.7	8.6
Walnut trees	102.5	117.9	15.1
Other nut trees	166.8	170.6	2.3
3.2.4 Olive trees (total)	**7,978.2**	**7,926.4**	**-0.6**
3.2.5 Other trees	**259.7**	**251.7**	**-3.1**

Note: Any discrepancies in the sums and percentages are due to rounding.

Graph 2: Coverage of utilized agricultural land, by crop category, (Greece total), 2016 – 2017



Graph 3. Utilized agricultural land and percentage change (%), by crop category (Greece total), 2016 – 2017



B. PRODUCTION OF AGRICULTURAL PRODUCTS

The major changes, in terms of volume of production of agricultural products, by group and species of products as presented in Table 3 and Graph 4 are the following:

- the production of **durum wheat** decreased by 12.6% in 2017 compared with 2016. More specifically, the production of durum wheat amounted to 989.8 thousand tonnes in 2017 and 1,131.9 thousand tonnes in 2016,
- the production of **grain maize** decreased by 2.9% in 2017 compared with 2016. More specifically, the production of grain maize amounted to 1,461.7 thousand tonnes in 2017 and 1,505.0 thousand tonnes in 2016,
- the production of **cotton** increased by 9.4% in 2017 compared to 2016. More specifically, the production of cotton amounted to 808.9 thousand tonnes in 2017 and 739.1 thousand tonnes in 2016,
- the production of **oranges** decreased by 9.7% in 2017 compared with 2016. More specifically, the production of oranges amounted to 727.5 thousand tonnes in 2017 and 805.9 thousand tonnes in 2016,
- the production of **grapes (total)** decreased by 0.8% in 2017 compared with 2016. More specifically, the production of grapes amounted to 827.5 thousand tonnes in 2017, and 833.8 thousand tonnes in 2016,
- the production of **must** decreased by 1.6% in 2017 compared with 2016. More specifically, the production of must amounted to 297.6 thousand tonnes in 2017, and 302.5 thousand tonnes in 2016,
- the production of **olives (total)** increased by 3.0% in 2017 compared with 2016. More specifically, the production of olives amounted to 2,837.8 thousand tonnes in 2017 and 2,755.5 thousand tonnes in 2016,
- the production of **olive oil** decreased by 5.0% in 2017 compared with 2016. More specifically, the production of olive oil amounted to 311.7 thousand tonnes in 2017 and 328.0 thousand tonnes in 2016.

Table 3. Production of basic agricultural products (Greece total), 2016 – 2017

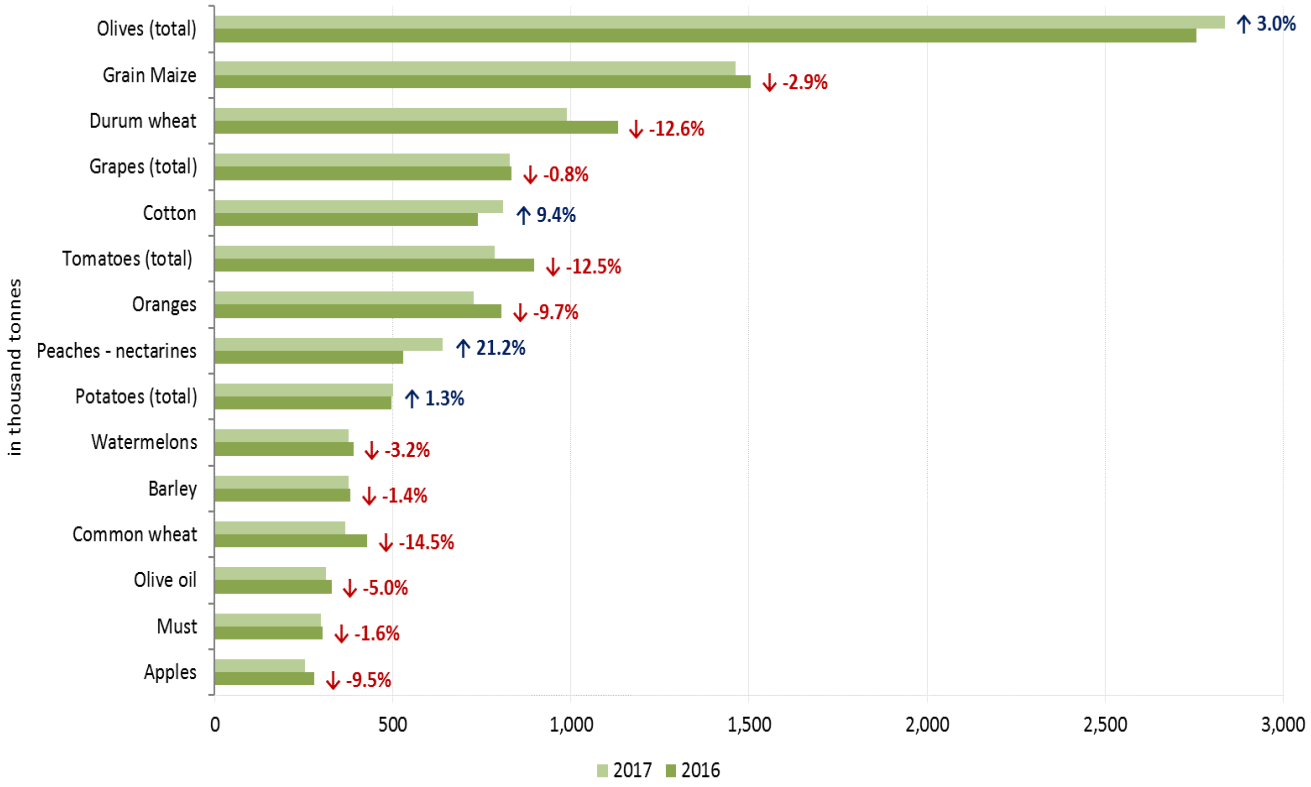
In thousand tonnes

Agricultural products	2016	2017	Change (%) 2017/2016
Common wheat	428.9	366.9	-14.5
Durum wheat	1,131.9	989.8	-12.6
Barley	381.7	376.5	-1.4
Grain Maize	1,505.0	1,461.7	-2.9
Cotton	739.1	808.9	9.4
Fodder plants (total)	3,033.6	3,391.0	11.8
Watermelons	389.2	376.9	-3.2
Potatoes (total)	495.5	501.7	1.3
Tomatoes (total)	897.7	785.3	-12.5

Agricultural products	2016	2017	Change (%) 2017/2016
Grapes (total)	833.8	827.5	-0.8
Must	302.5	297.6	-1.6
Oranges	805.9	727.5	-9.7
Apples	279.7	253.1	-9.5
Peaches - Nectarines	528.7	641.0	21.2
Olives (total)	2,755.5	2,837.8	3.0
Olive oil	328.0	311.7	-5.0

Note: Any discrepancies in the sums and percentages are due to rounding.

Graph 4. Production and percentage change (%) of basic agricultural products, (Greece total), 2016 – 2017



C. LIVESTOCK: NUMBER OF ANIMALS AND PRODUCTION OF LIVESTOCK PRODUCTS

1. Number of animals

The changes in the number of the most important animal species, as presented in Table 4 and Graph 5, are the following:

- the total number of **bovine animals** increased by 0.3% in 2017 compared with 2016. More specifically, the number of bovine animals amounted to 615,273 in 2017 and 613,390 in 2016,
- the total number of **pigs** increased by 2.7% in 2017 compared with 2016. More specifically, the number of pigs amounted to 716,856 in 2017 and 697,724 in 2016,
- the total number of **sheep** increased by 1.7% in 2017 compared with 2016. More specifically, the number of sheep amounted to 8,827,820 in 2017 and 8,680,235 in 2016,
- the total number of **goats** increased by 0.6% in 2017 compared with 2016. More specifically, the number of goats amounted to 3,998,205 in 2017 and 3,975,504 in 2016,
- the total number of **hens** increased by 4.8% in 2017 compared with 2016. More specifically, the number of hens amounted to 37,262,320 in 2017 and 35,544,837 in 2016.

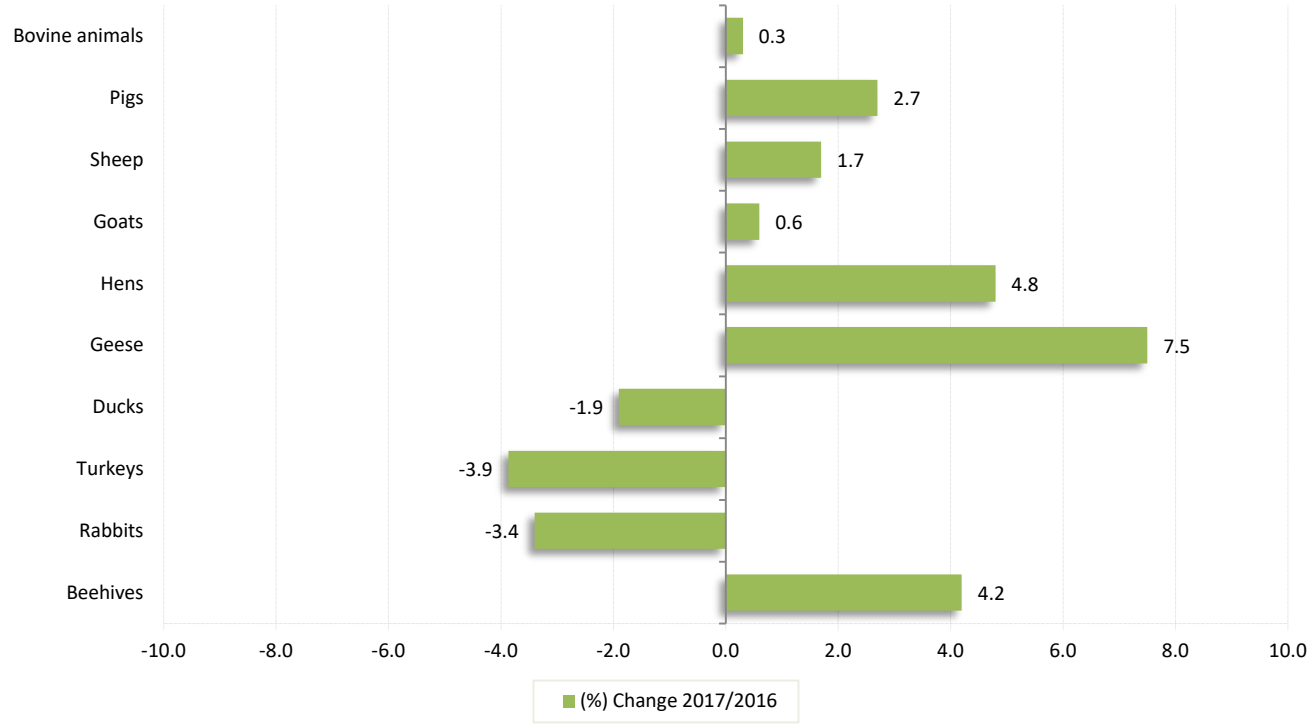
Table 4. Livestock by animal species (Greece total), 2016 – 2017

Number of animals or beehives

Animal Species	2016	2017	Change (%) 2017/2016
Bovine animals	613,390	615,273	0.3
Pigs	697,724	716,856	2.7
Sheep	8,680,235	8,827,820	1.7
Goats	3,975,504	3,998,205	0.6
Hens	35,544,837	37,262,320	4.8
Geese	19,241	20,682	7.5
Ducks	25,600	25,107	-1.9
Turkeys	267,346	257,011	-3.9
Rabbits	900,165	869,247	-3.4
Beehives	1,579,786	1,646,535	4.2

Note: Any discrepancies in the sums and percentages are due to rounding.

Graph 5: Livestock percentage change (%) by animal species (Greece total), 2016 – 2017



2. Meat Production

The changes in meat production, by animal species, as presented in Table 5 and Graph 6, are the following:

- the total production of **beef** increased by 6.6% in 2017 compared with 2016. More specifically, the production of beef amounted to 41.8 thousand tonnes in 2017 and 39.2 thousand tonnes in 2016,
- the total production of **pork meat** increased by 0.8% in 2017 compared with 2016. More specifically, the production of pork meat amounted to 77.3 thousand tonnes in 2017 and 76.7 thousand tonnes in 2016,
- the total production of **sheep meat** decreased by 6.2% in 2017 compared with 2016. More specifically, the production of sheep meat amounted to 53.9 thousand tonnes in 2017 and 57.5 thousand tonnes in 2016,
- the total production of **goat meat** decreased by 13.0% in 2017 compared with 2016. More specifically, the production of goat meat amounted 21.9 thousand tonnes in 2017 and 25.2 thousand tonnes in 2016,
- the total production of **poultry meat** (except ostriches) decreased by 4.4% in 2017 compared with 2016. More specifically, the production of poultry meat amounted to 243.7 thousand tonnes in 2017 and 254.9 thousand tonnes in 2016.

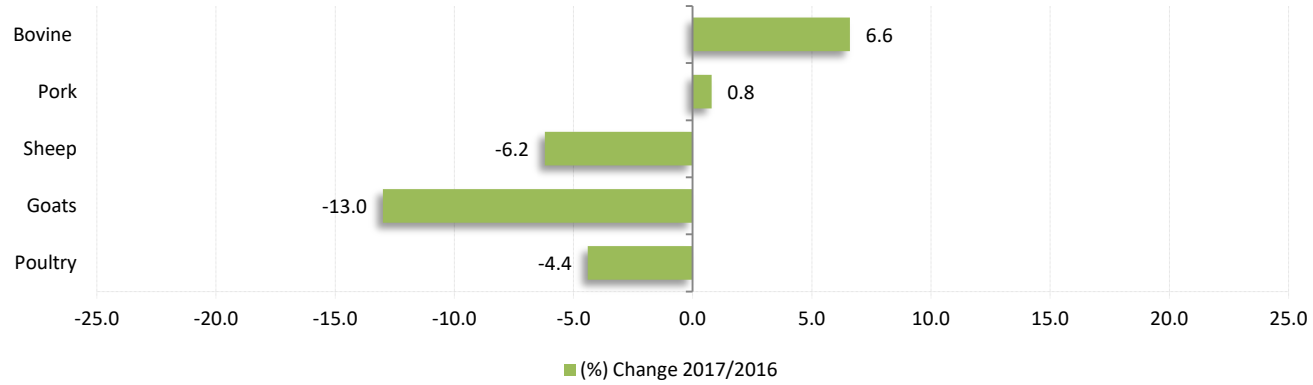
Table 5. Meat production by animal species (Greece total), 2016 – 2017

In thousand tonnes

Animal species	2016	2017	Change (%) 2017/2016
Bovine animals	**39.2**	**41.8**	**6.6**
Calves younger than 1 year	7.2	8.3	14.6
Calves 1-2 years	24.2	25.8	6.5
Heifers and cattle more than 2 years	7.7	7.7	-0.4
Pork	**76.7**	**77.3**	**0.8**
Piglets	4.3	4.1	-2.9
Pigs	72.4	73.2	1.0
Sheep	**57.5**	**53.9**	**-6.2**
Lambs	46.2	43.2	-6.5
Sheep older than 1 year	11.3	10.7	-5.2
Goats	**25.2**	**21.9**	**-13.0**
Goat kids	20.0	17.1	-14.8
Goats older than 1 year	5.2	4.9	-5.9
Poultry (except ostriches)	**254.9**	**243.7**	**-4.4**
Rabbits	**3.5**	**3.0**	**-13.0**

Note: Any discrepancies in the sums and percentages are due to rounding.

Graph 6: Meat production percentage change (%) by animal species (Greece total), 2016 – 2017



3. Production of livestock products

The changes in the production of the most important livestock products, in terms of volume of production, as presented in Table 6 and Graph 7, are the following:

- the total production of **milk** increased by 0.6% in 2017 compared with 2016. More specifically, the total production of milk amounted to 1,921.2 thousand tonnes in 2017 and 1,910.2 thousand tonnes in 2016,
- the production of **soft cheese** increased by 3.3% in 2017 compared with 2016. More specifically, the production of soft cheese amounted to 99.1 thousand tonnes in 2017 and 96.0 thousand tonnes in 2016,
- the production of **eggs** increased by 0.4% in 2017 compared with 2016. More specifically, the production of eggs amounted to 1,344.5 million pieces in 2017 and 1,339.0 million pieces in 2016.

Table 6. Milk production and livestock products by animal species (Greece total), 2016 – 2017

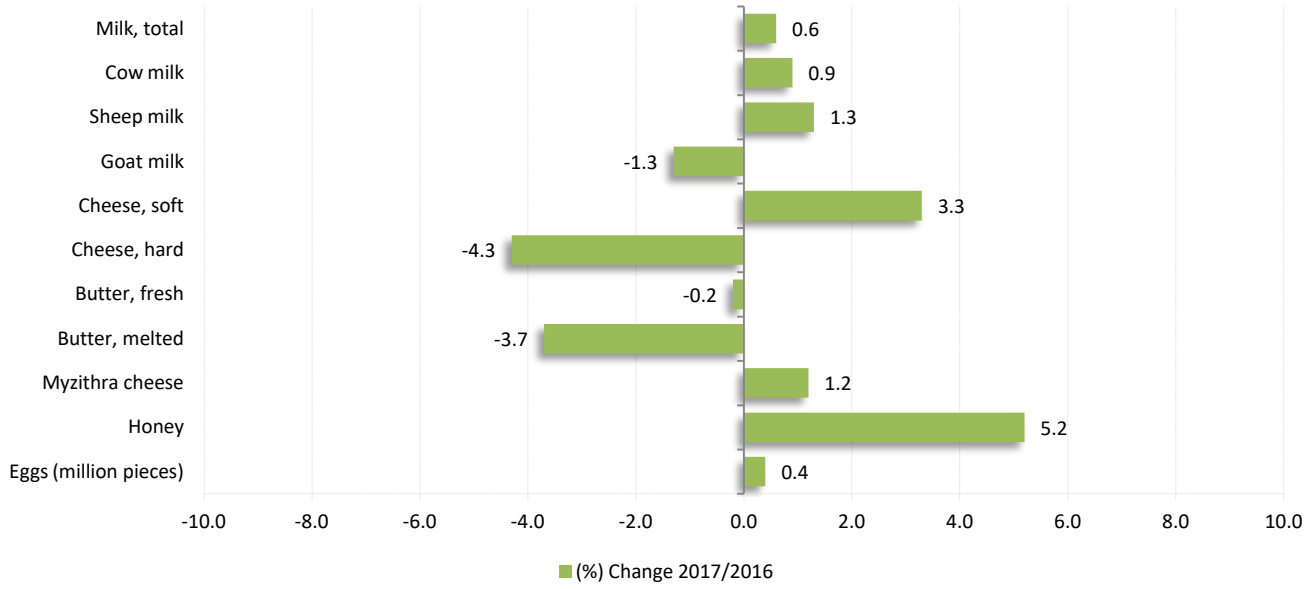
In thousand tonnes

Livestock products	2016	2017	Change (%) 2017/2016
Milk, total	**1,910.2**	**1,921.2**	**0.6**
Cow milk	659.5	665.3	0.9
Sheep milk	841.0	851.7	1.3
Goat milk	409.7	404.1	-1.3

Livestock products	2016	2017	Change (%) 2017/2016
Livestock products			
Cheese, soft	96.0	99.1	3.3
Cheese, hard	35.5	34.0	-4.3
Butter, fresh	0.8	0.7	-0.2
Butter, melted	0.4	0.4	-3.7
Myzithra cheese	13.0	13.2	1.2
Honey	20.9	21.9	5.2
Eggs (million pieces)	1,339.0	1,344.5	0.4

Note: Any discrepancies in the sums and percentages are due to rounding.

Graph 7. Percentage change (%) of milk and livestock products (Greece total), 2016 – 2017



D. AGRICULTURAL MACHINERY

The changes in the number of agricultural machinery as presented in Table 7 are as follows:

- **Agricultural tractors** decreased by 1.0% in 2017 compared with 2016. More specifically, the number of the agricultural tractors, which were used, amounted to 378,196 in 2017 and 382,176 in 2016,
- **Sprayers** decreased by 1,3% in 2017 compared with 2016. More specifically, the number of the spraying machines, which were used, amounted to 252,688 in 2017 and 256,048 in 2016,
- **Irrigation systems** increased by 0.0% in 2017 compared with 2016. More specifically, the number of irrigation systems, which were used, amounted to 371,197 in 2017 and 371,059 in 2016.

Table 7. Agricultural machinery (Greece total), 2016 – 2017

Number of agricultural machinery

Type of machinery	2016	2017	Change (%) 2017/2016
Agricultural tractors	382,176	378,196	-1.0
Seeders	60,961	60,119	-1.4
Sprayers	256,048	252,688	-1.3
Threshers and harvesters	35,170	34,275	-2.5
Irrigation pumps	241,589	239,737	-0.8
Irrigation systems	371,059	371,197	0.0
Other agricultural machines	411,713	412,120	0.1

EXPLANATORY NOTES

Annual Agricultural Statistical Survey

The Hellenic Statistical Authority in cooperation with the central and regional offices of the Ministry of Rural Development and Food, the local authorities, the local government bodies, as well as with the experienced inhabitants of the rural settlements has been conducting since 1961 the Annual Statistical Survey on Agriculture and Livestock.

Purpose of the survey

The purpose of the survey is to collect statistical data on the cultivated areas under several crops and on the production of agricultural and livestock products, as well as the agricultural machinery used. The data are necessary for drawing the agricultural policy of the country but also for covering other national and international needs and obligations.

Legal Framework

The legal framework for the conduct of the annual statistical agricultural survey is the Royal Decree No 111/15-2-1962 and the Joint Ministerial Decisions No 8710/C2-1246/5-8-2010 and 2198/C2-248/24-2-2012 signed by the Minister of National Economy and the Deputy Minister of Interior, Public Administrations and Decentralization, as well as the relevant decision of the President of ELSTAT issued annually, on the approval, procurement, assignment and cost allocation on conducting the Annual Agricultural Statistical Survey and approval for using private bodies for the conduct of the survey and their remuneration.

Reference Period

Year 2017

Definitions

1 stremma = 0.1 ha

Arable Crops (table 1): net area of arable crops i.e. without secondary/successive crops.
Irrigated arable land (table 1): includes secondary/successive arable or horticulture crops.
Arable land (table 2): includes secondary/successive crops.
Other cereals: oats, rice, rye, sorghum, meslin, millet, canary seed.
Other industrial plants: sesame, sorghum, soybeans, pumpkin seed, etc.
Horticulture land (table 1): net area of land under vegetables i.e. without secondary/successive crops.
Irrigated horticulture land (table 1): includes secondary/successive horticulture (land under vegetables).
Horticulture land (table 2): areas under vegetables including secondary/successive crops as well as the net areas of greenhouses, seedbeds, nurseries and ornamental plants.
Greenhouses: net areas of greenhouse flowers and vegetables.
Seedbeds: includes tobacco seedbeds and seedbeds for producing plantlets for transplantation.
Nurseries: areas for producing fruit and forest trees, ornamental plants and American vines.
Tomatoes (total): industrial tomatoes, tomato grown in the open and greenhouse tomato.
Olive trees (total area): edible and oil producing olives.
Olives (total production): edible and oil producing olives
Other citrus trees: cherry, quince, sloe, plum, kiwi and pomegranate trees.
Other nut trees: hazelnut trees and chestnut trees.
Other trees: carob, avocado, mastic, loquat, banana and other trees (palm, willow trees etc.).
Grapes (total): includes the production of wine and raisin grapes.
Agricultural tractors: Single-axle (dredgers, mowers, mini-mowers, etc.) and Biaxial tractors
Seeders: Wheat, cotton, maize, bean seeders, high technology seeders for linear sowing (e.g. carrots, onions) and potato mowers.
Sprayers: High-pressure sprinklers, Motorized sprayers, Motorized sprayers of linear crops, Motorized mufflers
Agricultural machinery: refers to the agricultural machinery which was used, except state agricultural machinery.
Threshers and harvesters: Combine harvesters, Simple mowers of all types, thresher machines of all types, Simple windrowers, Cotton collectors, Beet extractors, Potato extractors, Other harvesting machines (for industrial tomatoes, onions, carrots)
Irrigation pumps: Diesel-fueled, Gas powered, Electrically driven and other pumps (steam-driven, wind-powered, animal-powered, etc.) and fuel pumps
Irrigation systems: Sprinkling units - fast coupling pipes with injectors, Self-propelled gun sprinkling units with injectors, Horizontal irrigation ramp self-propelled sprinkling units, Drop irrigation systems.
Other agricultural machinery: incubators, milking machines – portable, milking machines with milk transfer lines, cream separators, wheat sorting machines, maize ginners, cotton ginners, tobacco threading machines, pruning saws, honey extractors.

Methodology and Coverage	The statistical unit of this survey is the land area within the administrative boundaries of each communal/municipal department of the country according to "Kallikratis Plan". The survey covers, on a census basis, all the above-mentioned administrative departments except the area of Agion Oros, for which no data are collected. In the framework of quality improvement of the relative results, it is pointed out that from the reference year 2014 onwards, the private partners and statistical correspondents (people responsible for the collection of the relative data) were replaced by graduates holding a degree (certificate, MSc, Phd) in geotechnical sciences. Data collection is conducted via electronic questionnaires (in excel format) using a wide range of sources, namely administrative (decentralized services of the Ministry of Agriculture e.g. OPEKEPE, Directorates of the first and second degree of Self – Governance e.g. Municipalities and Regional Administration Units, as well as farmers possessing large farms and agronomists). For this purpose a relative communication with all of the above actors was in place well before the actual conducting of the Annual Agricultural Survey, via circulars and memoranda of mutual understanding. Finally, in the framework of data quality control preparation, proactive channels of communication with all the relative sources that could be used as verification sources during the comparability checks were established.
Publication of data	The survey results are available on a yearly basis since 1961.
References	More information on the results of the survey is available on the ELSTAT website www.statistics.gr, under the link http://www.statistics.gr/en/statistics/-/publication/SPG06/-