



PRESS RELEASE

ANNUAL AGRICULTURAL STATISTICAL SURVEY: 2018

The Hellenic Statistical Authority (ELSTAT) announces the results of the 2018 Annual Agricultural Statistical Survey.

A. CULTIVATED AREAS

The **total utilized agricultural area** (arable land, crops under vegetables, permanent crops and fallow land) in 2018 amounted to 32,216.8 thousand stremmas.

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

- in 2018, 53.4% of the cultivated area (17,195.6 thousand stremmas) was used for arable farming (net area), 1.9% (618.9 thousand stremmas) was used for vegetables (net area), 33.7% (10,851.0 thousand stremmas) for permanent crops and 11.0% (3,551.3 thousand stremmas) was fallow land.
- 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.

Table 1. Areas under cultivation by type of crop (Greece total), 2017 – 2018

In thousand stremmas (1 stremma=0.1 ha)

Crop type	2017	2018	Change (%) 2018/2017
Total cultivated agricultural area	32,209.0	32,216.8	0.0
Irrigated	12,371.1	12,278.7	-0.7
1. Arable land (net area)	17,201.3	17,195.6	0.0
Irrigated	7,187.1	7,144.1	-0.6
2. Horticulture land (net area)	633.1	618.9	-2.2
Irrigated	636.4	623.5	-2.0
3. Permanent crops	10,826.9	10,851.0	0.2
Irrigated	4,547.6	4,511.1	-0.8
4. Fallow land	3,547.6	3,551.3	0.1
of which: lands preserved in good agricultural and environmental condition	1,969.7	1,955.8	-0.7

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

Information:

Stergios Spyroulis

Directorate General of Statistics

Agriculture, Livestock, Fishery and Environment Statistics Division

Agriculture, Livestock and Fishery Statistics Section

☎ (0030) 213 135 2050

☎ (0030) 213 135 2474

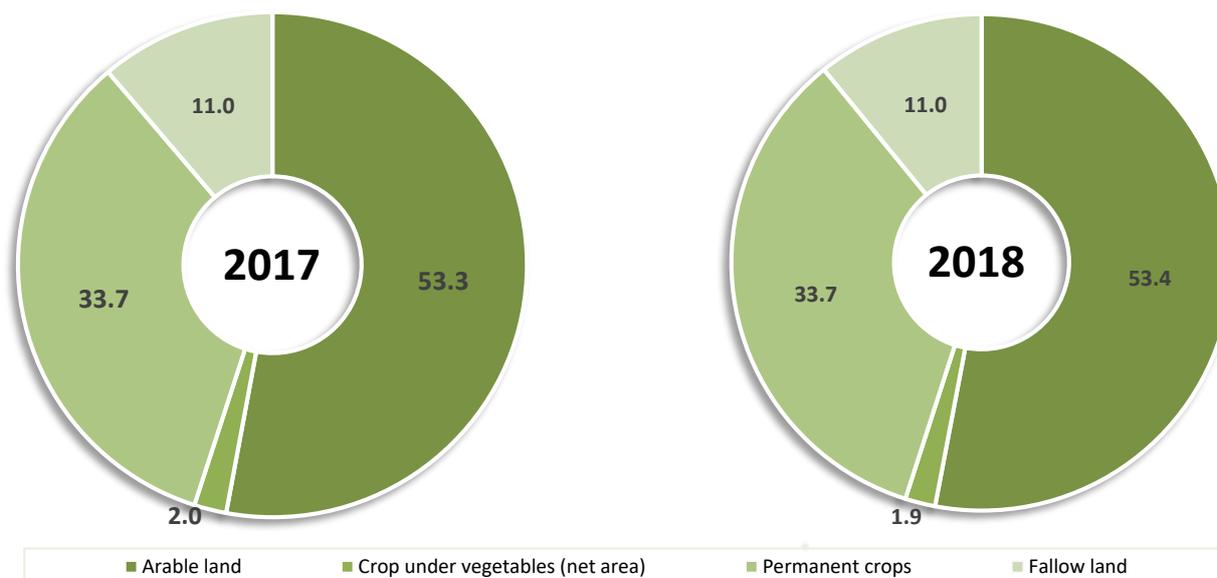
✉ s.spyroulis@statistics.gr

Information for data provision:

☎ +30 213 135 2022, 2308, 2310

✉ data.dissem@statistics.gr

Graph 1. Percentage (%) distribution of the cultivated agricultural area by categories (Greece total), 2017 – 2018



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 and Graph 2, are the following:

- the cultivated areas under **durum wheat** decreased by 7.2% in 2018 compared with 2017. More specifically, areas under durum wheat amounted to 3,365.4 and 3,123.1 thousand stremmas in 2017 and 2018 respectively,
- the cultivated areas under **grain maize** decreased by 12.0% in 2018 compared with 2017. More specifically, areas under grain maize amounted to 1,260.3 and 1,108.7 thousand stremmas in 2017 and 2018 respectively,
- the cultivated areas under **cotton** increased by 7.8% in 2018 compared with 2017. More specifically, areas under cotton amounted to 2,601.8 and 2,805.3 thousand stremmas in 2017 and 2018 respectively,
- the cultivated areas under **vineyards (total)** decreased by 1.2% in 2018 compared with 2017. More specifically, areas under vines amounted to 903.6 and 892.5 thousand stremmas in 2017 and 2018 respectively,
- the cultivated areas under **orange trees** decreased by 0.2% in 2018 compared with 2017. More specifically, areas under oranges amounted to 293.8 and 293.1 thousand stremmas in 2017 and 2018 respectively,
- the cultivated areas under **peach – nectarine trees** decreased by 0.8% in 2018 compared with 2017. More specifically, areas under peaches - nectarines amounted to 399.2 and 395.8 thousand stremmas in 2017 and 2018 respectively,
- the cultivated area under **olive trees (total)** decreased by 0.1% in 2018 compared with 2017. More specifically, areas under olives trees (total) amounted to 7,926.4 and 7,921.0 thousand stremmas in 2017 and 2018 respectively.

Table 2. Cultivated land, by category and crop (Greece total), 2017 – 2018

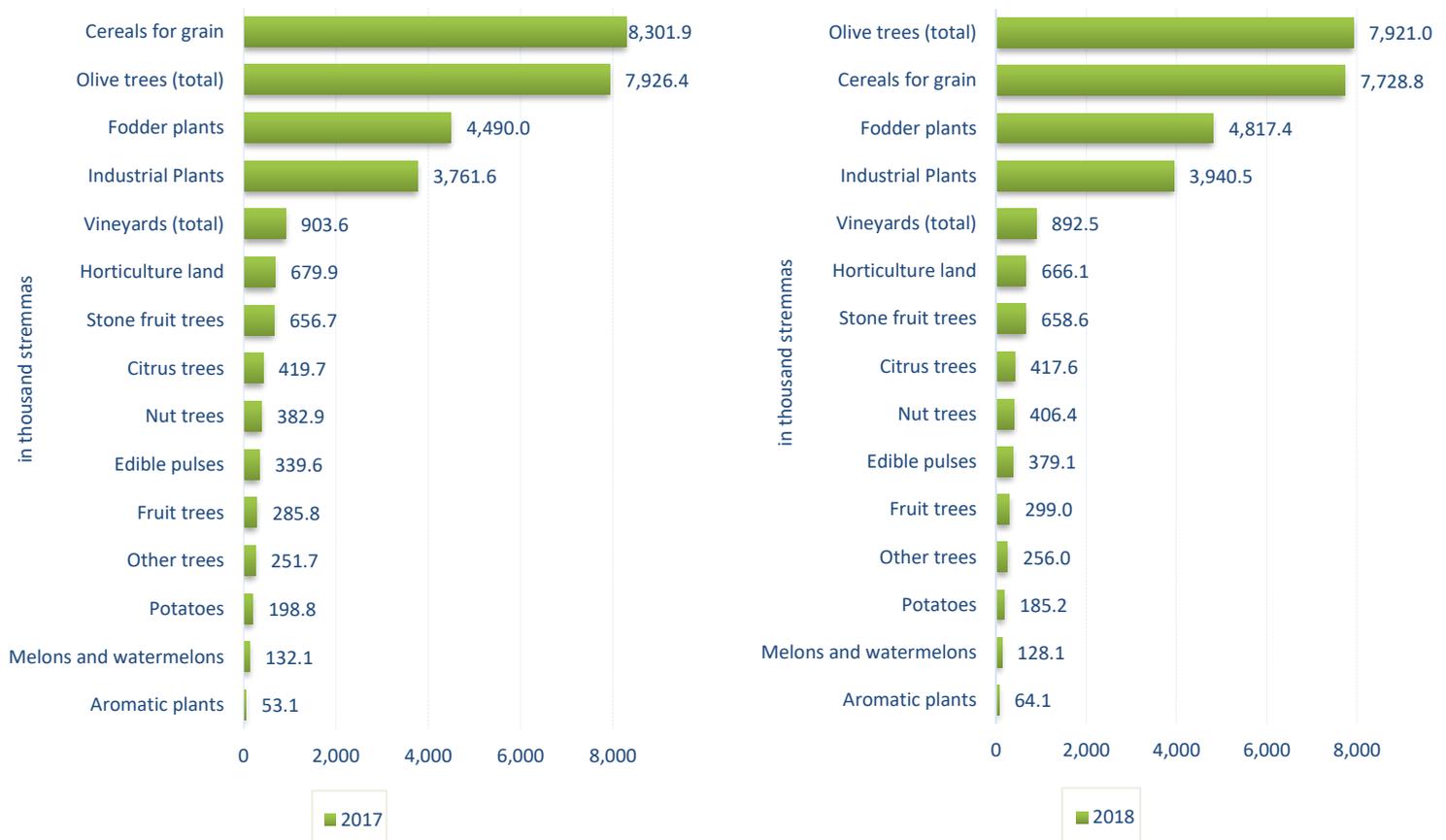
In thousand stremmas

Cultivated species by category	2017	2018	Change (%) 2018/2017
1. Arable land	17,277.3	17,243.1	-0.2
1.1 Cereals for grain	8,301.9	7,728.8	-6.9
Common wheat	1,267.7	1,162.5	-8.3
Durum wheat	3,365.4	3,123.1	-7.2
Barley	1,293.2	1,262.6	-2.4
Grain Maize	1,260.3	1,108.7	-12.0
Other cereals	1,115.3	1,071.9	-3.9
1.2 Edible pulses	339.6	379.1	11.6
1.3 Industrial Plants	3,761.6	3,940.5	4.8
Tobacco	174.0	169.7	-2.5
Cotton	2,601.8	2,805.3	7.8
Other industrial plants	985.9	965.5	-2.1
1.4 Aromatic plants	53.1	64.1	20.6
1.5 Fodder plants	4,490.0	4,817.4	7.3
1.6 Melons and watermelons	132.1	128.1	-3.1
1.7 Potatoes	198.8	185.2	-6.9
2. Horticulture land	679.9	666.1	-2.0
3. Permanent crops	10,826.9	10,851.0	0.2

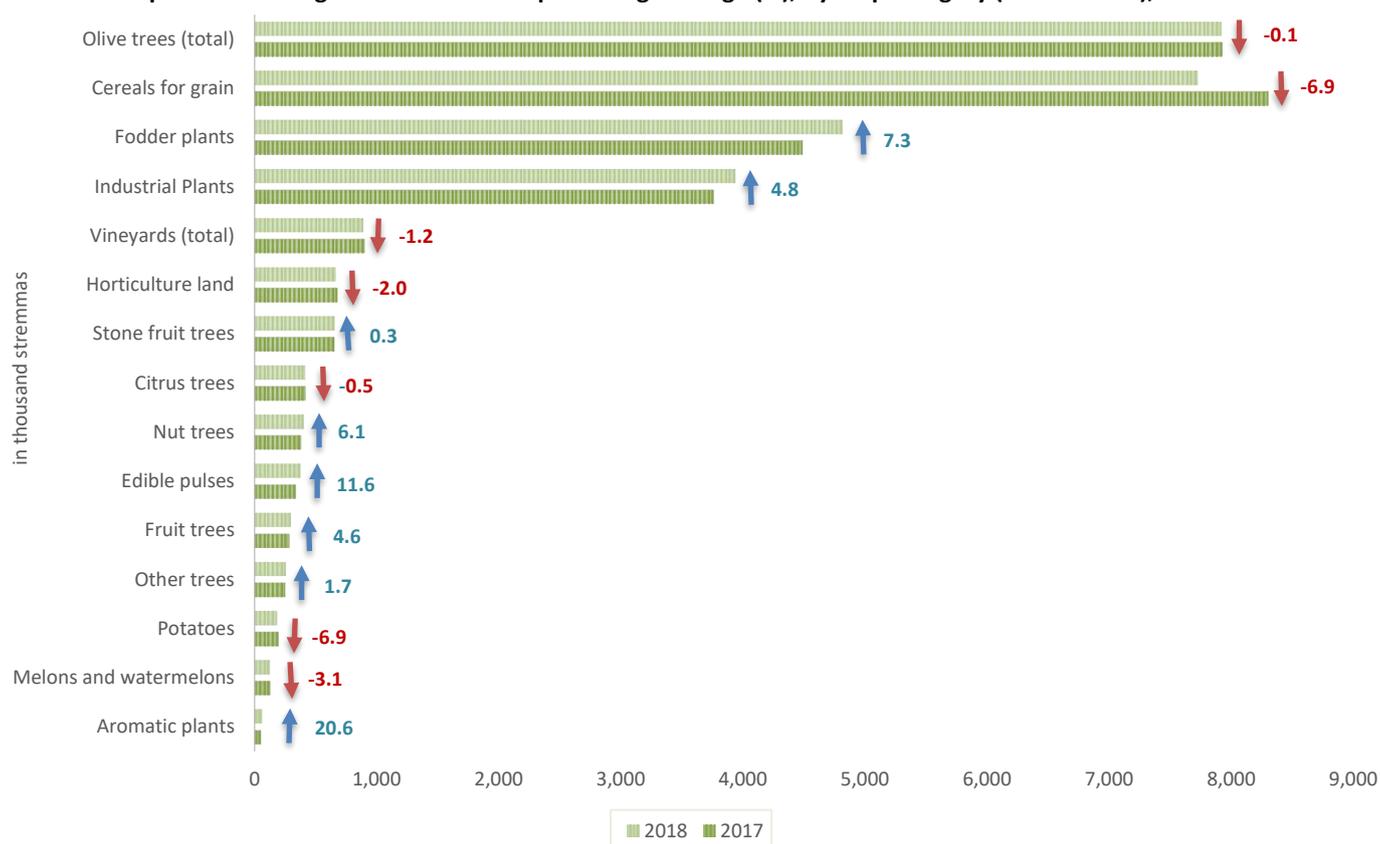
Cultivated species by category	2017	2018	Change (%) 2018/2017
3.1 Vineyards (total)	903.6	892.5	-1.2
Vines for wine	512.7	506.5	-1.2
Vines for table grapes	97.1	99.1	2.0
Vines for currants	293.8	286.9	-2.4
3.2 Trees in compact plantations	9,923.3	9,958.6	0.4
3.2.1 Citrus trees	419.7	417.6	-0.5
Lemon trees	43.4	41.0	-5.7
Orange trees	293.8	293.1	-0.2
Mandarin trees	79.6	80.7	1.4
Other citrus trees	2.8	2.7	-1.2
3.2.2 Fruit trees	285.8	299.0	4.6
Pear trees	39.2	42.3	8.0
Apple trees	92.9	93.3	0.4
Kiwi trees	83.9	92.9	10.7
Other fruit trees	69.8	70.5	1.0
3.2.3. Stone fruit trees	656.7	658.6	0.3
Peach - Nectarine trees	399.2	395.8	-0.8
Cherry trees	153.1	157.7	3.0
Apricot trees	79.9	79.9	0.0
Other stone fruit trees	24.5	25.1	2.7
3.2.4. Nut trees	382.9	406.4	6.1
Almond trees	131.7	139.8	6.2
Walnut trees	117.9	129.5	9.8
Chestnut trees	86.5	86.1	-0.4
Other nut trees	46.9	51.0	8.9
3.2.5. Olive trees (total)	7,926.4	7,921.0	-0.1
3.2.6. Other trees	251.7	256.0	1.7

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

Graph 2: Coverage of utilized agricultural land, by crop category, (Greece total), 2017 – 2018



Graph 3. Utilized agricultural land and percentage change (%), by crop category (Greece total), 2017 – 2018



B. PRODUCTION OF AGRICULTURAL PRODUCTS

The changes of the most important agricultural products in terms of production volume, by product or group of products, as presented in Table 3 and Graph 4, are the following:

- the production of **durum wheat** decreased by 6.2% in 2018 compared with 2017. More specifically, durum wheat production amounted to 989.8 and 928.5 thousand tonnes in 2017 and 2018 respectively,
- the production of **grain maize** decreased by 11.9% in 2018 compared with 2017. More specifically, grain maize production amounted to 1,461.7 and 1,287.9 thousand tonnes in 2017 and 2018 respectively,
- the production of **cotton** increased by 6.3% in 2018 compared with 2017. More specifically, cotton production amounted to 808.9 and 859.6 thousand tonnes in 2017 and 2018 respectively,
- the production of **grapes (total)** decreased by 1.4% in 2018 compared with 2017. More specifically, grape production amounted to 827.5 and 815.6 thousand tonnes in 2017 and 2018 respectively,
- the production of **must** increased by 0.8% in 2018 compared with 2017. More specifically, must production amounted to 297.6 and 300.0 thousand tonnes in 2017 and 2018 respectively,
- the production of **oranges** increased by 2.4% in 2018 compared with 2017. More specifically, oranges production amounted to 727.5 and 744.8 thousand tonnes in 2017 and 2018 respectively,
- the production of **olives (total)** decreased by 2.6% in 2018 compared with 2017. More specifically, olive production amounted to 2,837.8 and 2,764.6 thousand tonnes in 2017 and 2018 respectively,
- the production of **olive oil** increased by 5.1% in 2018 compared with 2017. More specifically, olive oil production amounted to 311.7 and 327.7 thousand tonnes in 2017 and 2018 respectively,

Table 3. Production of basic agricultural products (Greece total), 2017 – 2018

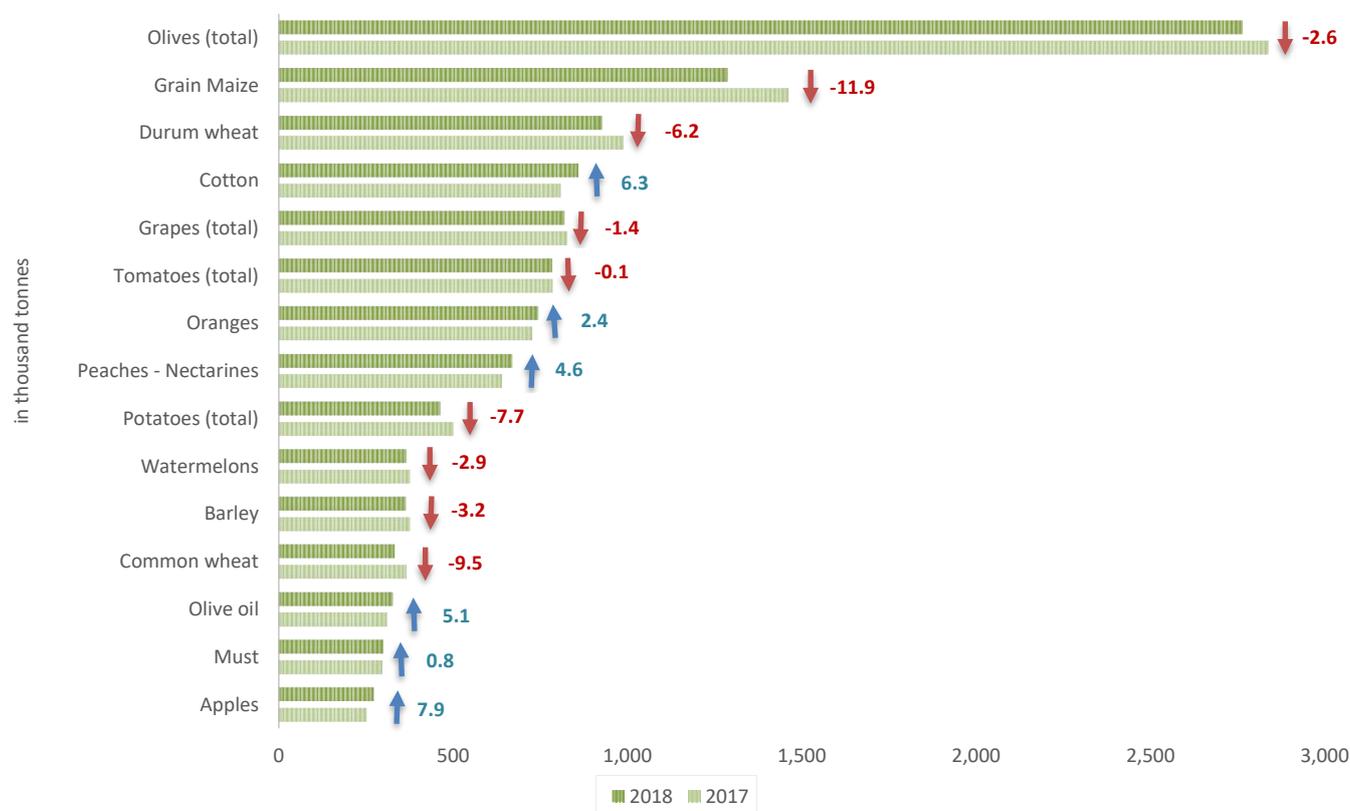
In thousand tonnes

Agricultural products	2017	2018	Change (%) 2018/2017
Common wheat	366.9	332.1	-9.5
Durum wheat	989.8	928.5	-6.2
Barley	376.5	364.5	-3.2
Grain Maize	1,461.7	1,287.9	-11.9
Cotton	808.9	859.6	6.3
Fodder plants (total)	3,391.0	3,613.9	6.6

Agricultural products	2017	2018	Change (%) 2018/2017
Watermelons	376.9	365.9	-2.9
Potatoes (total)	501.7	463.3	-7.7
Tomatoes (total)	785.3	784.3	-0.1
Grapes (total)	827.5	815.6	-1.4
Must	297.6	300.0	0.8
Oranges	727.5	744.8	2.4
Apples	253.1	273.1	7.9
Peaches - Nectarines	641.0	670.4	4.6
Olives (total)	2,837.8	2,764.6	-2.6
Olive oil	311.7	327.7	5.1

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

Graph 4. Production and percentage change (%) of basic agricultural products, (Greece total), 2017 – 2018



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

1. Number of animals

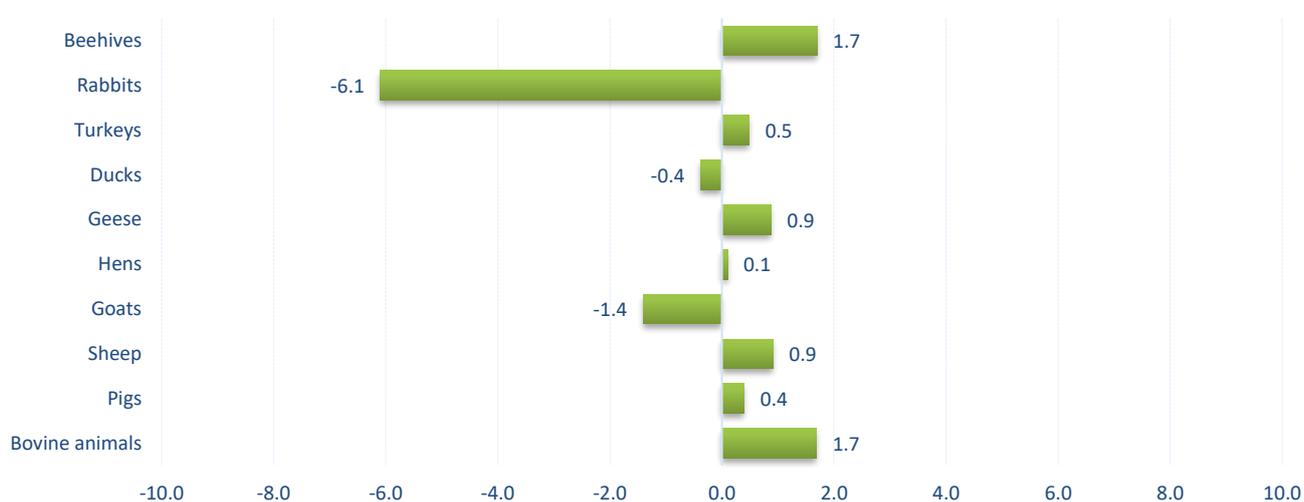
The changes in the number of the most important animal species, as presented in Table 4 and Graph 5, are the following:

- the total number of **bovine animals** increased by 1.7% in 2018 compared with 2017. More specifically, bovine animals amounted to 615,273 and 625,673 heads in 2017 and 2018 respectively
- the total number of **pigs** increased by 0.4% in 2018 compared with 2017. More specifically, pigs amounted to 716,856 and 719,727 heads in 2017 and 2018 respectively,
- the total number of **sheep** increased by 0.9% in 2018 compared with 2017. More specifically, sheep amounted to 8,827,820 and 8,908,739 heads in 2017 and 2018 respectively,
- the total number of **goats** decreased by 1.4% in 2018 compared with 2017. More specifically, goats amounted to 3,998,205 and 3,941,960 heads in 2017 and 2018 respectively,
- the total number of **hens** increased by 0.1% in 2018 compared with 2017. More specifically, hens amounted to 37,262,320 and 37,299,748 heads in 2017 and 2018 respectively.

Table 4. Livestock by animal species (Greece total), 2017 – 2018*Number of animals or beehives*

Animal Species	2017	2018	Change (%) 2018/2017
Bovine animals	615,273	625,673	1.7
Pigs	716,856	719,727	0.4
Sheep	8,827,820	8,908,739	0.9
Goats	3,998,205	3,941,960	-1.4
Hens	37,262,320	37,299,748	0.1
Geese	20,682	20,864	0.9
Ducks	25,107	25,012	-0.4
Turkeys	257,011	258,266	0.5
Rabbits	869,247	816,275	-6.1
Beehives	1,646,535	1,674,494	1.7

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

Graph 5: Livestock percentage change (%) by animal species (Greece total), 2017 – 2018

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 1.5% in 2018 compared with 2017. More specifically, beef meat production amounted to 41.8 and 42.4 thousand tonnes in 2017 and 2018 respectively,
- the total production of **pork meat** increased by 3.3% in 2018 compared with 2017. More specifically, pork meat production amounted to 77.3 and 79.9 thousand tonnes in 2017 and 2018 respectively,
- the total production of **sheep meat** decreased by 2.8% in 2018 compared with 2017. More specifically, sheep meat production amounted to 53.9 and 52.4 thousand tonnes in 2017 and 2018 respectively,
- the total production of **goat meat** decreased by 7.9% in 2018 compared with 2017. More specifically, goat meat production amounted to 21.9 and 20.2 thousand tonnes in 2017 and 2018 respectively,
- the total production of **poultry meat** (except ostriches) increased by 0.2% in 2018 compared with 2017. More specifically, poultry meat production amounted to 243.7 and 244.3 thousand tonnes in 2017 and 2018 respectively.

Table 5. Meat production by animal species (Greece total), 2017 – 2018*In thousand tonnes*

Animal species	2017	2018	Change (%) 2018/2017
Bovine animals	41.8	42.4	1.5
Calves younger than 1 year	8.3	8.3	0.4
Calves 1-2 years	25.8	24.7	-4.2
Heifers and cattle more than 2 years	7.7	9.4	22.2

Animal species	2017	2018	Change (%) 2018/2017
Pork	77.3	79.9	3.3
Piglets	4.1	4.1	-0.5
Pigs	73.2	75.8	3.6
Sheep	53.9	52.4	-2.8
Lambs	43.2	41.1	-4.8
Sheep older than 1 year	10.7	11.3	5.4
Goats	21.9	20.2	-7.9
Goat kids	17.1	15.4	-9.8
Goats older than 1 year	4.9	4.8	-0.9
Poultry (except ostriches)	243.7	244.3	0.2

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

Graph 6: Meat production percentage change (%) by animal species (Greece total), 2017 – 2018



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** decreased by 0.1% in 2018 compared with 2017. More specifically, total milk production amounted to 1,921.2 and 1,919.9 thousand tonnes in 2017 and 2018 respectively,
- the production of **soft cheese** increased by 2.6% in 2018 compared with 2017. More specifically, soft cheese production amounted to 99.1 and 101.7 thousand tonnes in 2017 and 2018 respectively,
- the production of **eggs** increased by 2.3% in 2018 compared with 2017. More specifically, egg production amounted to 1,344.5 and 1,376.0 million pieces in 2017 and 2018 respectively.

Table 6. Milk production and livestock products by animal species (Greece total), 2017 – 2018

In thousand tonnes

Livestock products	2017	2018	Change (%) 2018/2017
Milk, total	1,921.2	1,919.9	-0.1
Cow milk	665.3	638.4	-4.0
Sheep milk	851.7	873.7	2.6
Goat milk	404.1	407.7	0.9
Livestock products			
Cheese, soft	99.1	101.7	2.6
Cheese, hard	34.0	33.2	-2.3
Myzithra cheese	13.2	12.8	-2.6
Butter	1.1	1.2	7.4
Cream	5.4	5.4	1.7

Livestock products	2017	2018	Change (%) 2018/2017
Honey	21.9	22.3	1.6
Eggs (million pieces)	1,344.5	1,376.0	2.3

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

Graph 7. Percentage change (%) of milk and livestock products (Greece total), 2017 – 2018



D. AGRICULTURAL MACHINERY

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

- **Agricultural tractors** decreased by 0.4% in 2018 compared with 2017. More specifically, the number of the agricultural tractors used, amounted to 378,196 and 376,593 in 2017 and 2018 respectively
- **Sprayers** increased by 0.1% in 2018 compared with 2017. More specifically, the number of the spraying machines used, amounted to 252,688 and 252,963 in 2017 and 2018 respectively,
- **Irrigation systems** increased by 1.1% in 2018 compared with 2017. More specifically, the number of irrigation systems used, amounted to 371,197 and 375,403 in 2017 and 2018 respectively.

Table 7. Agricultural machinery (Greece total), 2017 – 2018

Number of agricultural machinery

Type of machinery	2017	2018	Change (%) 2018/2017
Agricultural tractors	378,196	376,593	-0.4
Seeders	60,119	61,699	2.6
Sprayers	252,688	252,963	0.1
Threshers and harvesters	34,275	35,252	2.9
Irrigation pumps	239,737	239,485	-0.1
Irrigation systems	371,197	375,403	1.1
Other agricultural machines	412,120	410,252	-0.5

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 2018
Definitions	<p><u>1 stremma</u> = 0.1 ha</p> <p><u>Arable Crops (table 1)</u>: net area of arable crops i.e. without secondary/successive crops.</p> <p><u>Irrigated arable land (table 1)</u>: includes secondary/successive arable or horticulture crops.</p> <p><u>Horticulture land (table 1)</u>: net area of land under vegetables i.e. without secondary/successive crops.</p> <p><u>Irrigated horticulture land (table 1)</u>: includes secondary/successive horticulture (land under vegetables).</p> <p><u>Arable land (table 2)</u>: includes secondary/successive crops.</p> <p><u>Horticulture land (table 2)</u>: areas under vegetables including secondary/successive crops as well as the net areas of greenhouses, seedbeds, nurseries and ornamental plants.</p> <p><u>Cotton</u>: includes cotton cultivated on irrigated and dry land.</p> <p><u>Tobacco</u>: includes Bernley and Virginia tobacco.</p> <p><u>Greenhouses</u>: net areas of greenhouse flowers and vegetables.</p> <p><u>Seedbeds</u>: includes tobacco seedbeds and seedbeds for producing plantlets for transplantation.</p> <p><u>Nurseries</u>: areas for producing fruit and forest trees, ornamental plants and American vines.</p> <p><u>Tomatoes (total)</u>: industrial tomatoes, tomato grown in the open and greenhouse tomato.</p> <p><u>Other cereals</u>: oats, rice, rye, sorghum, meslin, millet, canary seed.</p> <p><u>Other industrial plants</u>: sesame, sorghum, soybeans, pumpkin seed, etc.</p> <p><u>Olive trees (total area)</u>: edible and oil producing olives.</p> <p><u>Olives (total production)</u>: edible and oil producing olives</p> <p><u>Other citrus trees</u>: cherry, quince, sloe, plum, kiwi and pomegranate trees.</p> <p><u>Other fruit trees</u>: quince, pomegranates, figs for fresh and dried use</p> <p><u>Other stonefruit trees</u>: sour-cherry, cherry-plum and plum trees</p> <p><u>Other nut trees</u>: hazelnut trees and chestnut trees.</p> <p><u>Other trees</u>: carob, avocado, mastic, loquat, banana and other trees (palm, willow trees etc.).</p> <p><u>Grapes (total)</u>: includes the production of wine, table and raisin grapes.</p> <p><u>Butter</u>: includes fresh and melted butter</p> <p><u>Agricultural tractors</u>: Single-axle (dredgers, mowers, mini-mowers, etc.) and Biaxial tractors</p> <p><u>Seeders</u>: Wheat, cotton, maize, bean seeders, high technology seeders for linear sowing (e.g. carrots, onions) and potato mowers.</p> <p><u>Sprayers</u>: High-pressure sprinklers, Motorized sprayers, Motorized sprayers of linear crops, Motorized mufflers</p> <p><u>Agricultural machinery</u>: refers to the agricultural machinery which was used, except state agricultural machinery.</p> <p><u>Threshers and harvesters</u>: 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)</p> <p><u>Irrigation pumps</u>: Diesel-fueled, Gas powered, Electrically driven and other pumps (steam-driven, wind-powered, animal-powered, etc.) and fuel pumps</p> <p><u>Irrigation systems</u>: Sprinkling units - fast coupling pipes with injectors, Self-propelled gun sprinkling</p>

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, from the reference year 2014 onwards, statistical correspondents i.e. public servants responsible for the collection of the relative data, were replaced by private partners holding a University degree (certificate, MSc, Phd) in agricultural or 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 ELSTAT website www.statistics.gr, under the link <http://www.statistics.gr/en/statistics/-/publication/SPG06/>