



ANNUAL AGRICULTURAL STATISTICAL SURVEY: 2022

The Hellenic Statistical Authority (ELSTAT) announces the results of the 2022 Annual Agricultural Statistical Survey.

A. CULTIVATED AREAS

The **total agricultural land** (arable land, horticulture land, permanent crops, and fallow land) in 2022 amounted to 28,959.7 thousand stremmas.

Cultivated areas by main crop type and by year are distributed as follows (Table 1, Graphs 1 and 2):

- in 2022, 56.6% of the agricultural land (16,381.6 thousand stremmas) is covered by arable crops (net area), 1.6% (451.0 thousand stremmas) by vegetable crops (net area), 35.7% (10,348.1 thousand stremmas) by permanent crops, whereas 6.1% (1,778.9 thousand stremmas) is fallow land,
- in 2021, 56.9% of the agricultural land (16,178.9 thousand stremmas) is covered by arable crops (net area), 1.7% (493.5 thousand stremmas) by vegetable crops (net area), 36.2% (10,295.7 thousand stremmas) by permanent crops, whereas 5.1% (1,451.9 thousand stremmas) is fallow land.

Table 1. Agricultural land, by crop category (Greece total), 2021 – 2022

In thousand stremmas (1 stremma=0.1 ha)

Crop category	2021	2022	Change (%) 2022/2021
Total cultivated agricultural land	28,420.0	28,959.7	1.9
Irrigated	12,190.8	11,955.8	-1.9
1. Arable land	16,178.9	16,381.6	1.3
Irrigated	7,341.1	7,389.2	0.7
2. Horticulture land	493.5	451.0	-8.6
Irrigated	479.2	444.9	-7.2
3. Permanent crops	10,295.7	10,348.1	0.5
Irrigated	4,370.6	4,121.7	-5.7
4. Fallow land	1,451.9	1,778.9	22.5

Notes:

1. Arable and horticulture land of the table above, refer to net areas, i.e., do not include successive/secondary crops.
2. Irrigated areas include the secondary / successive crops and do not refer to the net area.
3. Any discrepancies between sums, totals and percentages are due to rounding.

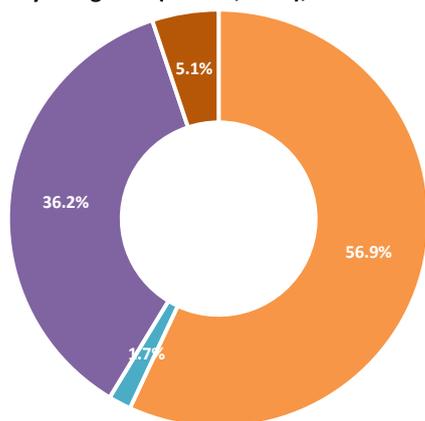
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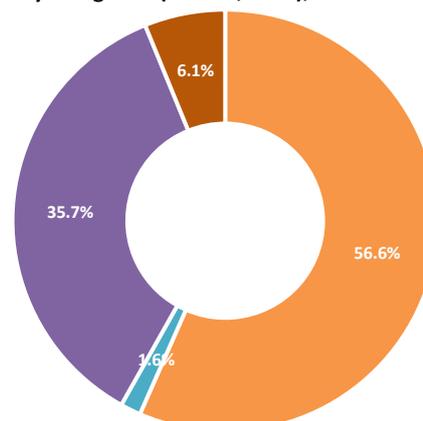
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Graph 1. Percentage (%) distribution of agricultural land by categories (Greece, total), 2021



Graph 2. Percentage (%) distribution of agricultural land by categories (Greece, total), 2022



■ Arable crops ■ Horticulture crops ■ Permanent crops ■ Fallow land

■ Arable crops ■ Horticulture crops ■ Permanent crops ■ Fallow land

The change of the most important cultivated crops, between 2021 and 2022, in terms of land area coverage, are the following (Table2):

- **durum wheat** increased by 0.9% in 2022 compared with 2021. More specifically, areas under durum wheat amounted to 3,127.8 and 3,155.2 thousand stremmas in 2021 and 2022 respectively,
- **grain maize** increased by 6.9% in 2022 compared with 2021. More specifically, areas under grain maize amounted to 906.9 and 969.1 thousand stremmas in 2021 and 2022 respectively,
- **cotton** decreased by 3.3% in 2022 compared with 2021. More specifically, areas under cotton amounted to 2,628.2 and 2,540.7 thousand stremmas in 2021 and 2022 respectively,
- **alfalfa (multiannual clover)** decreased by 3.5% in 2022 compared with 2021. More specifically, areas under alfalfa amounted to 1,691.0 and 1,631.6 thousand stremmas in 2021 and 2022 respectively,
- **vineyards (total)** decreased by 1.3% in 2022 compared with 2021. More specifically, areas under vineyards amounted to 697.0 and 687.9 thousand stremmas in 2021 and 2022 respectively,
- **orange trees** decreased by 0.2% in 2022 compared with 2021. More specifically, areas under orange trees amounted to 277.8 and 277.3 thousand stremmas in 2021 and 2022 respectively,
- **peach – nectarine trees** decreased by 1.5% in 2022 compared with 2021. More specifically, areas under peach – nectarine trees amounted to 371.3 and 365.8 thousand stremmas in 2021 and 2022 respectively,
- **olive trees (total)** increased by 0.5% in 2022 compared with 2021. More specifically, areas under olive trees amounted to 7,531.6 and 7,566.6 thousand stremmas in 2021 and 2022 respectively.

Table 2. Crop land, by category and cultivated species (Greece total), 2021 – 2022

In thousand stremmas (1 stremma=0.1 ha)

Cultivated species by category	2021	2022	Change (%) 2022/2021
1. Arable land	16,228.8	16,467.7	1.5
1.1 Cereals for grain	6,861.1	6,965.5	1.5
Common wheat	934.7	895.4	-4.2
Durum wheat	3,127.8	3,155.2	0.9
Barley	988.4	1,044.8	5.7
Grain maize	906.9	969.1	6.9
Other cereals	903.2	900.9	-0.3
1.2 Edible pulses	301.8	271.4	-10.1
1.3 Industrial Plants	3,788.5	3,666.7	-3.2
Tobacco	101.8	79.5	-21.9
Cotton	2,628.2	2,540.7	-3.3
Sunflower	810.3	844.2	4.2
Rapeseed	190.4	159.0	-16.5
Other industrial plants	57.7	43.4	-24.8
1.4 Aromatic plants	91.3	93.8	2.8
1.5 Fodder plants	4,902.5	5,236.4	6.8
1.5.1 for grain	701.7	837.7	19.4
Vetch	325.8	432.3	32.7

Cultivated species by category	2021	2022	Change (%) 2022/2021
Lupin	116.1	114.4	-1.5
Fodder peas	119.0	119.2	0.2
Other fodder plants for grain	140.8	171.8	22.0
1.5.2 for hay	4,200.8	4,398.8	4.7
Barley for hay	129.1	152.2	17.9
Oats for hay	212.0	228.0	7.5
Vetch for hay	239.9	276.5	15.3
Alfalfa (multiannual clover)	1,691.0	1,631.6	-3.5
Clover (annual and other multiannual)	385.0	407.4	5.8
Lowland hay meadows	898.0	1,081.8	20.5
Maize green or for silage	307.5	328.1	6.7
Other fodder plants for hay	338.3	293.2	-13.3
1.6 Clover grain	48.6	28.4	-41.7
1.7 Melons and watermelons	110.8	87.9	-20.7
1.8 Potatoes	124.2	117.6	-5.3
2. Horticulture land	517.8	487.1	-5.9
3. Permanent crops	10,295.7	10,348.1	0.5
3.1 Vineyards (total)	697.0	687.9	-1.3
Vines for wine	390.9	399.4	2.2
Vines for table grapes	125.3	84.1	-32.9
Vines for currants	180.9	204.3	13.0
3.2 Trees in compact plantations	9,598.6	9,660.3	0.6
3.2.1 Citrus trees	401.5	400.9	-0.2
Lemon trees	28.8	28.0	-3.0
Orange trees	277.8	277.3	-0.2
Tangerine trees	92.8	93.5	0.7
Other citrus trees	2.1	2.2	5.1
3.2.2 Fruit trees	334.0	348.5	4.3
Pear trees	42.0	40.4	-3.7
Apple trees	94.2	98.1	4.1
Kiwi trees	125.8	138.6	10.1
Other fruit trees	71.9	71.4	-0.7
3.2.3. Stone fruit trees	653.3	647.5	-0.9
Peach - Nectarine trees	371.3	365.8	-1.5
Cherry trees	167.2	165.4	-1.1
Apricot trees	89.9	92.8	3.2
Other stone fruit trees	24.8	23.5	-5.5
3.2.4. Nut trees	480.6	498.6	3.7
Almond trees	173.2	180.2	4.0
Walnut trees	157.4	163.6	4.0
Chestnut trees	88.1	89.1	1.1
Other nut trees	61.9	65.8	6.2
3.2.5. Olive trees	7,531.6	7,566.6	0.5
3.2.6. Other trees	197.6	198.3	0.3

Notes:

1. Arable and horticulture land include secondary/successive crops.
2. Any discrepancies between sums, totals and percentages are due to rounding.

B. PRODUCTION OF AGRICULTURAL PRODUCTS

The changes in the production of the most important agricultural products, in terms of production volume, are the following (Table 3):

- **durum wheat** increased by 1.2% in 2022 compared with 2021. More specifically, durum wheat production amounted to 934.6 and 945.8 thousand tonnes in 2021 and 2022 respectively,
- the production of **grain maize** increased by 6.8% in 2022 compared with 2021. More specifically, grain maize production amounted to 1,090.5 and 1,164.8 thousand tonnes in 2021 and 2022 respectively,

- **cotton** decreased by 4.1% in 2022 compared with 2021. More specifically, cotton production amounted to 847.4 and 813.0 thousand tonnes in 2021 and 2022 respectively,
- **tomatoes** decreased by 4.5% in 2022 compared with 2021. More specifically, tomatoes production amounted to 659.8 and 629.8 thousand tonnes in 2021 and 2022 respectively,
- **grapes (total)** increased by 1.7% in 2022 compared with 2021. More specifically, grapes production amounted to 695.6 and 707.6 thousand tonnes in 2021 and 2022 respectively,
- **must** decreased by 4.9% in 2022 compared with 2021. More specifically, must production amounted to 263.7 and 250.8 thousand tonnes in 2021 and 2022 respectively,
- **oranges** increased by 8.0% in 2022 compared with 2021. More specifically, oranges production amounted to 631.1 and 681.8 thousand tonnes in 2021 and 2022 respectively,
- **apples** increased by 8.5% in 2022 compared with 2021. More specifically, apples production amounted to 301.5 and 327.0 thousand tonnes in 2021 and 2022 respectively,
- **olives** increased by 5.4% in 2022 compared with 2021. More specifically, olives production amounted to 3,045.1 and 3,208.9 thousand tonnes in 2021 and 2022 respectively,
- **olive oil** decreased by 2.9% in 2022 compared with 2021. More specifically, olive oil production amounted to 255.7 and 248.3 thousand tonnes in 2021 and 2022 respectively.

Table 3. Production of basic agricultural products (Greece total), 2021 – 2022

In thousand tonnes

Agricultural products	2021	2022	Change (%) 2022/2021
Common wheat	287.4	265.0	-7.8
Durum wheat	934.6	945.8	1.2
Barley	291.3	305.8	5.0
Oats	99.0	114.1	15.2
Grain maize	1,090.5	1,164.8	6.8
Rice	254.7	178.5	-29.9
Cotton	847.4	813.0	-4.1
Sunflower	206.3	219.6	6.4
Rapeseed	38.5	32.5	-15.7
Fodder vetch for grain	61.3	79.2	29.1
Fodder lupins for grain	21.3	19.6	-8.2
Fodder peas for grain	24.9	23.9	-3.9
Barley for hay	42.3	50.3	18.9
Oats for hay	81.5	86.7	6.4
Fodder vetch for hay	102.0	109.8	7.6
Alfalfa (multiannual clover)	1,901.7	1,872.6	-1.5
Clover (annual and other multiannual)	408.9	432.5	5.8
Lowland hay meadows	341.1	413.6	21.2
Maize green or for silage	1,301.1	1,304.9	0.3
Watermelons	346.8	266.6	-23.1
Melons	71.9	62.0	-13.7
Potatoes	355.2	311.1	-12.4
Onions, dry	90.8	86.5	-4.8
Tomatoes	659.8	629.8	-4.5
Cucumbers	130.1	148.5	14.1
Peppers	128.4	117.8	-8.2
Strawberries	80.3	89.5	11.5
Olives	3,045.1	3,208.9	5.4
Olive oil	255.7	248.3	-2.9
Grapes	695.6	707.6	1.7
Must	263.7	250.8	-4.9

Agricultural products	2021	2022	Change (%) 2022/2021
Lemons	53.3	53.3	0.1
Oranges	631.1	681.8	8.0
Tangerines	166.6	184.6	10.8
Pears	85.0	86.6	1.9
Apples	301.5	327.0	8.5
Kiwi	298.6	345.3	15.6
Peaches – Nectarines	352.0	753.0	113.9
Cherries	91.6	134.1	46.3
Apricots	67.0	132.0	97.0
Almonds	60.4	69.6	15.3
Walnuts	50.1	54.8	9.4
Chestnuts	37.6	38.2	1.6
Pomegranates	45.7	50.0	9.4

Notes:

1. The production of agricultural products refers to cultivated agricultural land in 2021 and 2022.
2. The production of arable and horticulture crops includes the production of the main and secondary/successive crops.
3. Any discrepancies between sums, totals and percentages are due to rounding.

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

1. Number of animals

The changes in the number of the most important animal and poultry species, are the following (Table 4):

- **bovine animals** increased by 3.4% in 2022 compared with 2021. More specifically, bovine animals amounted to 766,755 and 792,935 heads in 2021 and 2022 respectively,
- **pigs** increased by 2.1% in 2022 compared with 2021. More specifically, pigs amounted to 664,636 and 678,299 heads in 2021 and 2022 respectively,
- **sheep** decreased by 0.4% in 2022 compared with 2021. More specifically, sheep amounted to 9,052,105 and 9,017,390 heads in 2021 and 2022 respectively,
- **goats** decreased by 1.7% in 2022 compared with 2021. More specifically, goats amounted to 3,751,549 and 3,686,589 heads in 2021 and 2022 respectively,
- **hens** increased by 5.6% in 2022 compared with 2021. More specifically, hens amounted to 36,596,568 and 38,649,420 heads in 2021 and 2022 respectively,
- **turkeys** decreased by 2.2% in 2022 compared with 2021. More specifically, turkeys amounted to 554,573 and 542,142 heads in 2021 and 2022 respectively.

Table 4. Livestock (Greece total), 2021 – 2022

Number of animals or beehives

Livestock	2021	2022	Change (%) 2022/2021
Bovine animals	766,755	792,935	3.4
Pigs	664,636	678,299	2.1
Sheep	9,052,105	9,017,390	-0.4
Goats	3,751,549	3,686,589	-1.7
Hens	36,596,568	38,649,420	5.6
Geese	23,390	18,207	-22.2
Ducks	18,284	14,376	-21.4
Turkeys	554,573	542,142	-2.2
Rabbits	550,336	449,497	-18.3
Beehives	1,850,697	1,929,908	4.3

2. Meat Production

The changes in meat production by animal and poultry species, are the following (Table 5):

- **beef meat** increased by 7.2% in 2022 compared with 2021. More specifically, beef meat production amounted to *39.6 and 42.4 thousand tonnes in 2021 and 2022 respectively,
- **pork meat** decreased by 6.0% in 2022 compared with 2021. More specifically, pork meat production amounted to *74.4 and 69.9 thousand tonnes in 2021 and 2022 respectively,
- **sheep meat** decreased by 1.7% in 2022 compared with 2021. More specifically, sheep meat production amounted to *47.1 and 46.3 thousand tonnes in 2021 and 2022 respectively,
- **goat meat** decreased by 7.0% in 2022 compared with 2021. More specifically, goat meat production amounted to 18.1 and 16.8 thousand tonnes in 2021 and 2022 respectively,
- **rabbit meat** decreased by 3.0% in 2022 compared with 2021. More specifically, rabbit meat production amounted to 1.9 and 1.8 thousand tonnes in 2021 and 2022 respectively,
- **poultry meat** (except ostriches) increased by 1.0% in 2022 compared with 2021. More specifically, poultry meat production amounted to 241.0 and 243.4 thousand tonnes in 2021 and 2022 respectively.

Table 5. Meat production by animal and poultry species (Greece total), 2021 – 2022

In thousand tonnes

Animal species	2021	2022	Change (%) 2022/2021
Bovine animals	*39.6	42.4	7.2
Calves younger than 1 year	*8.2	8.4	1.9
Calves 1-2 years	22.8	23.0	0.8
Heifers, cattle more than 2 years and buffaloes	8.5	11.1	29.5
Pork	*74.4	69.9	-6.0
Piglets	*3.3	2.5	-25.9
Pigs	71.0	67.4	-5.1
Sheep	*47.1	46.3	-1.7
Lambs	*34.9	34.0	-2.3
Sheep older than 1 year	*12.2	12.2	0.2
Goats	18.1	16.8	-7.0
Goat less than 1 year	13.4	12.6	-5.8
Goats older than 1 year	4.8	4.3	-10.4
Rabbits	1.9	1.8	-3.0
Poultry (except ostriches)	241.0	243.4	1.0

Note: Any discrepancies between sums, totals and percentages are due to rounding.

(*): Revised data

3. Production of livestock products

The changes in the production of milk and other livestock products, are the following (Table 6):

- **milk** increased by 0.3% in 2022 compared with 2021. More specifically, total milk production amounted to 1,874.8 and 1,879.9 thousand tonnes in 2021 and 2022 respectively,
- **soft cheese** decreased by 7.6% in 2022 compared with 2021. More specifically, soft cheese production amounted to 114.1 and 105.4 thousand tonnes in 2021 and 2022 respectively,
- **eggs** increased by 5.0% in 2022 compared with 2021. More specifically, total eggs amounted to 1,495.9 and 1,570.2 million pieces in 2021 and 2022 respectively.

Table 6. Milk production and other livestock products (Greece total), 2021 – 2022

In thousand tonnes

Livestock products	2021	2022	Change (%) 2022/2021
Milk, total	1,874.8	1,879.9	0.3
Cow milk	604.0	606.8	0.5
Sheep milk	883.2	893.1	1.1
Goat milk	387.5	380.0	-1.9

Livestock products			
Cheese, soft	114.1	105.4	-7.6
Cheese, hard	27.2	26.0	-4.7
Myzithra cheese	11.3	11.2	-0.5
Creme	6.6	6.3	-4.3
Eggs (million pieces)	1,495.9	1,570.2	5.0
Honey	23.5	27.6	17.7

Note: Any discrepancies between sums, totals and percentages are due to rounding.

D. AGRICULTURAL MACHINERY

The changes in the number of agricultural machineries, are as follows (Table 7):

- **Agricultural tractors** decreased by 2.4% in 2022 compared with 2021. More specifically, the number of agricultural tractors amounted to 361,481 and 352,800 in 2021 and 2022 respectively,
- **Sprayers** decreased by 5.3% in 2022 compared with 2021. More specifically, the number of sprayers amounted to 248,527 and 235,386 in 2021 and 2022 respectively,
- **Irrigation systems** decreased by 1.7% in 2022 compared with 2021. More specifically, the number of irrigation systems amounted to *383,940 and 377,505 in 2021 and 2022 respectively.

Table 7. Agricultural machinery (Greece total), 2021 – 2022

Number of agricultural machineries

Type of machinery	2021	2022	Change (%) 2022/2021
Agricultural tractors	361,481	352,800	-2.4
Seeders	57,940	56,443	-2.6
Sprayers	248,527	235,386	-5.3
Threshers and harvesters	*35,867	36,176	0.9
Irrigation pumps	236,955	229,782	-3.0
Irrigation systems	*383,940	377,505	-1.7
Other agricultural machines	*400,574	398,232	-0.6

(*): Revised data

EXPLANATORY NOTES

Annual Agricultural Statistical Survey The Hellenic Statistical Authority (ELSTAT) is conducting the Annual Agricultural Statistical Survey (AGR) since 1961 with the aim of collecting the basic characteristics of agriculture and livestock. The survey is conducted at Community level on a census basis.

Purpose of the survey The purpose of the survey is to collect statistical data on the cultivated areas under several crops, the number of animals and poultry, the production of agricultural and livestock products, as well as the agricultural machinery. The data are used for drawing the agricultural policy of the country and they also cover other national and international needs and obligations for statistical information.

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 for conducting the Annual Agricultural Statistical Survey and approval for using private bodies for the conduct of the survey and their remuneration.

Reference Period – The reference period for crops is the 2022 calendar year.
– The reference date, as far as livestock is concerned, is December 31 of 2022.

Methodology and Coverage ELSTAT is conducting the survey with the cooperation of the Central and Regional Services of the Ministry of Rural Development and Food (YP.A.A.T.), the OPEKEPE, the Directorates of Rural Economy and Veterinary Medicine of the second level of Local Government (Regions), the Departments of Agriculture of the first degree of Local Government (Municipalities), as well as owners of large agricultural holdings.
The collection of data and the data entry are carried out using a questionnaire in the form of an electronic workbook (excel).
The statistical unit of the survey is the territorial area included within the administrative boundaries of each Municipal Unit of the Country, according to the "Kleisthenis Plan". The survey covers the total of the above administrative subdivisions, except for the region of Mount Athos, for which no relevant data is collected.
The persons responsible for the collection and cross-checking of the data are private enumerators having geotechnical Universities background

Definitions 1 stemma = 0.1 ha
Agricultural land: is defined as the coverage of the land of a Community with vegetation that originated from anthropogenic intervention either on the reference year of the survey or historically.
Other cereals for grain: oats, rye, rice, sorghum, semolina, millet, triticale and other cereals for grain.
Edible pulses: beans, broad beans, lentils, chickpeas, peas and other edible pulses.
Cotton: cotton cultivated on irrigated and dry land.
Tobacco: Bernley and Virginia tobacco.
Other industrial plants: sesame, sorghum, peanut, soy, sugar beet, pumpkins, flax, hemp, saffron, stevia, aloe, and other.
Other fodder plants for grain: bitter vetch, vetchling, broad bean, fodder lentil and other fodder plants for grain.
Other fodder plants for hay: green sorghum and other hays (bitter vetch, vetchling, peas, lentils, etc.).
Horticulture land: areas under vegetables including secondary/successive crops as well as the net areas of greenhouses, seedbeds, nurseries, and ornamental plants.
Tomatoes production: industrial, greenhouse, and field tomatoes.
Potatoes production: winter, spring, summer, and sweet potatoes.
Peppers production: greenhouse, and field peppers.
Strawberries production: greenhouse, and field strawberries.
Greenhouses: net areas of greenhouse flowers and vegetables.
Seedbeds: tobacco seedbeds and seedbeds for producing plantlets for transplantation.
Nurseries: areas for producing fruit and forest trees, ornamental plants, and American vines.
Olive trees: edible and oil producing olives.
Olive production: table and oil producing olives.

Other citrus trees: cherry, quince, sloe, plum, kiwi and pomegranate trees.

Other fruit trees: quince, pomegranates, figs for fresh and dried use.

Other stone fruit trees: sour-cherry, cherry-plum and plum trees.

Other nut trees: hazelnut trees and chestnut trees.

Other trees: carob, avocado, mastic, loquat, banana, and other trees (palm, willow trees etc.).

Grape production: wine, table, and raisin grapes.

Agricultural machinery, except state agricultural machinery:

- 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.
- 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.

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, at the link <http://www.statistics.gr/en/statistics/-/publication/SPG06/>