HELLENIC REPUBLIC

HELLENIC STATISTICAL AUTHORITY

LIVESTOCK SURVEYS (Pigs - Bovine animals - Sheep - Goats): YEAR 2022

The Hellenic Statistical Authority (ELSTAT) announces the results of the Livestock Surveys (Pigs, Bovine animals, Sheep and Goats) for the year 2022.

According to the livestock surveys results, the changes in the number of animals and the number of holdings, which are observed for the period 2020 -2021 -2022, are as follows.

The number of bovine[1] animals decreased by 5.3% in 2022 compared with 2021 and by 2.8% in 2021 compared with 2020. Specifically, the number of bovine animals amounted to 581,598 in 2022, compared with 614,066 in 2021 and 631,521 in 2020 (Table 1, Graph 1a).

Accordingly, a decrease of 6.4% is observed in the number of bovine animals-breeding holdings in 2022 compared with 2021 and of 6.3% in 2021 compared with 2020. Specifically, the number of bovine-breeding holdings amounted to 9,533 in 2022 compared with 10,180 in 2021 and 10,865 in 2020 (Table 1, Graph 2a).

The number of pigs decreased by 2.3% in 2022 compared with 2021, whereas it increased by 2.2% in 2021 compared with 2020. Specifically, the number of pigs amounted to 741,639 in 2022 compared with 758,942 in 2021 and 742,963 in 2020 (Table 1, Graph 1a).

A decrease of 7.2% is observed, in the number of pigs-breeding holdings in 2022 compared with 2021 and of 12.7% in 2021 compared with 2020. Specifically, the number of pigs-breeding holdings amounted to 4,783 in 2022 compared to 5,156 in 2021 and 5,906 in 2020 (Table 1, Graph 2a).

The number of sheep decreased by 4.1% in 2022 compared with 2021 and by 0.4% in 2021 compared with 2020. Specifically, the number of sheep amounted to 7,378,357 in 2022 compared with 7,690,930 in 2021 and 7,721,800 in 2020 (Table 1, Graph 1b).

A decrease of 2.6% is also observed in the number of sheep-breeding holdings in 2022 compared with 2021 and of 7.8% in 2021 compared with 2020. Specifically, the number of sheep-breeding holdings amounted to 51,014 in 2022 compared to 52,353 in 2021 and 56,761 in 2020 (Table 1, Graph 2b).

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[1] Bovine animals include buffaloes.

The number of goats decreased by 5.6% in 2022 compared with 2021 and by 0.4% in 2021 compared with 2020. Specifically, the number of goats amounted to 2,960,884 in 2022 compared with 3,135,087 in 2021 and 3,149,008 in 2020 (Table 1, Graph 1b).

Finally, a decrease of 3.9% is observed in the number of goats-breeding holdings in 2022 compared with 2021 and of 9.8% in 2021 compared with in 2020. Specifically, the number of goats-breeding holdings amounted to 32,037 in 2022 compared with 33,346 in 2021 and 36,978 in 2020 (Table 1, Graph 2b).

According to the afore-mentioned livestock surveys results, the number of bovine animals per holding increased by 1.1% in 2022 compared with 2021 and by 3.8% in 2021 compared with 2020. Specifically, the number of bovine animals per holding was 61.0 in 2022 compared with 60.3 in 2021 and 58.1 in 2020 (Table 1).

The number of pigs per holding increased by 5.3% in 2022 compared with 2021 and by 17.0% in 2021 compared with 2020. Specifically, the number of pigs per holding was 155.1 in 2022 compared with 147.2 in 2021 and 125.8 in 2020 (Table 1).
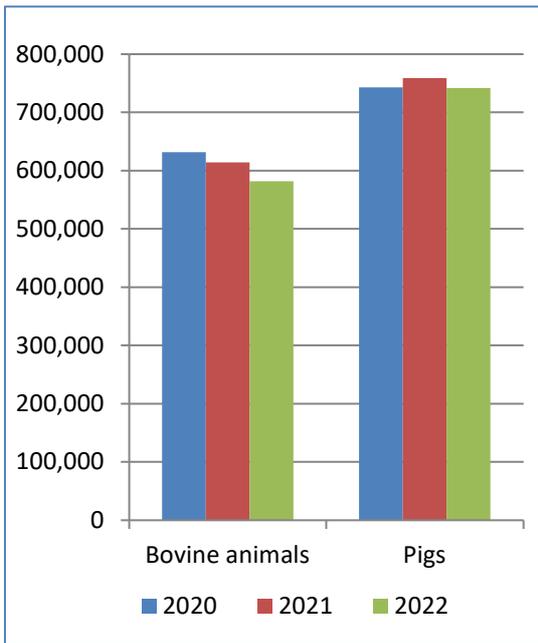
The number of sheep per holding decreased by 1.5% in 2022 compared with 2021, whereas it increased by 8.0% in 2021 compared with 2020. Specifically, the number of sheep per holding was 144.6 in 2022 compared with 146.9 in 2021 and 136.0 in 2020 (Table 1).

The number of goats per holding decreased by 1.7% in 2022 compared with 2021, whereas it increased by 10.4% in 2021 compared with 2020. Specifically, the number of goats per holding was 92.4 in 2022 compared with 94.0 in 2021 and 85.2 in 2020 (Table 1).
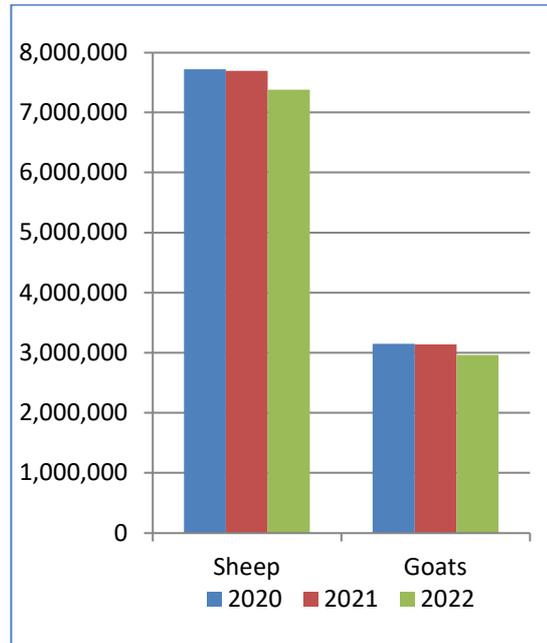
Table 1: Number of animals and holdings, 2020 – 2022

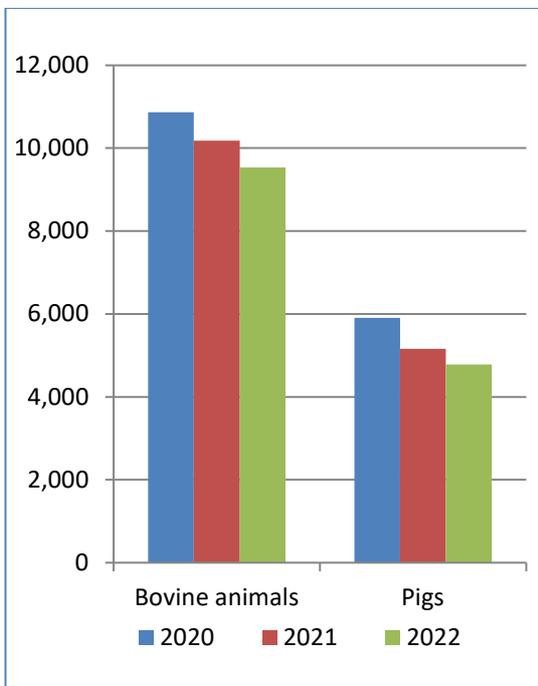|	2020	2021	2022	Change (%) 2021/2020	Change (%) 2022/2021
Number of Animals					
Bovine animals	631,521	614,066	581,598	-2.8	-5.3
Pigs	742,963	758,942	741,639	2.2	-2.3
Sheep	7,721,800	7,690,930	7,378,357	-0.4	-4.1
Goats	3,149,008	3,135,087	2,960,884	-0.4	-5.6
Holdings					
Bovine animals	10,865	10,180	9,533	-6.3	-6.4
Pigs	5,906	5,156	4,783	-12.7	-7.2
Sheep	56,761	52,353	51,014	-7.8	-2.6
Goats	36,978	33,346	32,037	-9.8	-3.9
Number of animals/holding					
Bovine animals	58.1	60.3	61.0	3.8	1.1
Pigs	125.8	147.2	155.1	17.0	5.3
Sheep	136.0	146.9	144.6	8.0	-1.5
Goats	85.2	94.0	92.4	10.4	-1.7

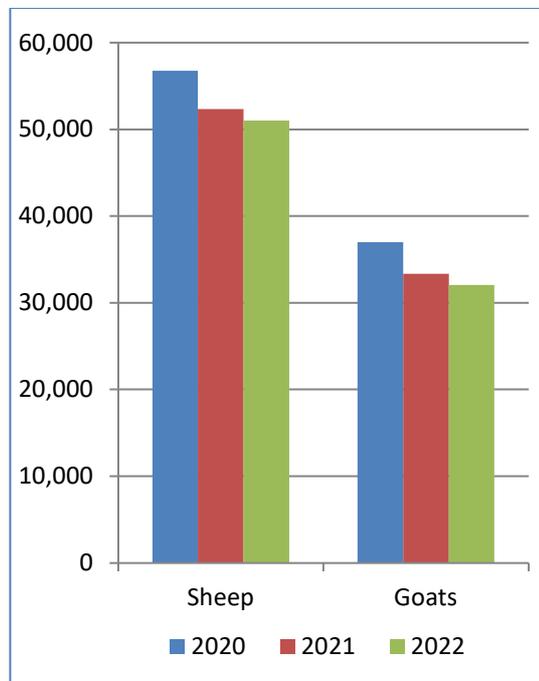## Graph 1a: Number of bovine animals - pigs 2020-2022

Graph 1b: Number of sheep - goats 2020-2022

Graph 2a: Holdings with bovine animals - pigs 2020-2022

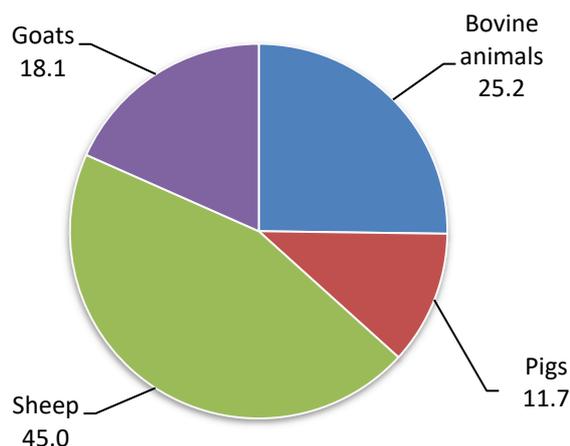## Graph 2b: Holdings with sheep - goats 2020-2022

The total livestock (bovine animals, pigs, sheep, goats) expressed in livestock units (LSU)[2] decreased by 4.3% in 2022 compared with 2021 and by 0.3% in 2021 compared with 2020. Specifically, the total LSU in 2022 was 1,637,970 broken down as follows: 412,099 LSU corresponding to bovine animals, 191,947 LSU to pigs, 737,836 LSU to sheep and 296,088 LSU to goats (Table 2, Graph 3).

Table 2: Livestock units, 2020 – 2022

	2020	(%)	2021	(%)	2022	(%)	Change (%) 2021/2020	Change (%) 2022/2021
Bovine animals	449,196	26.2	431,494	25.2	412,099	25.2	-3.9	-4.5
Pigs	180,105	10.5	197,263	11.5	191,947	11.7	9.5	-2.7
Sheep	772,180	45.0	769,093	44.9	737,836	45.0	-0.4	-4.1
Goats	314,901	18.3	313,509	18.3	296,088	18.1	-0.4	-5.6
Total	1,716,381	100.0	1,711,359	100.0	1,637,970	100.0	-0.3	-4.3

Graph 3: Percentage distribution of livestock units by animal species (Bovine animals, Pigs, Sheep and Goats), 2022

[2] The livestock unit is a common unit of reference of the various classes of animals, in relation to their nutritional requirements. The amount of dietary energy needed for maintenance and production requirements (reproduction, growth, etc.) of any animal, is associated with this value. This unit is used, among other things, for the grouping of different species. The coefficients used to convert restocking animal units are as follows:

Bovine animals less than one year old	0.4
Bovine animals between 1 and 2 years old, males	0.7
Bovine animals between 1 and 2 years old, females	0.7
Bovine animals 2 years old and over, males	1.0
Bovine animals 2 years old and over, heifers	0.8
Bovine animals 2 years old and over, dairy	1.0
Bovine animals 2 years old and over, other cows	0.8
Sheep	0.1
Goats	0.1
Pigs with a live weigh of less than 20 kg (per 100 heads)	2.7
Breeding sows weighing 50 kg and over	0.5
Other pigs	0.3

METHODOLOGICAL NOTES

Generally　　The Hellenic Statistical Authority conducts special surveys on bovine animals, pigs, sheep and goats for the collection of detailed data on livestock production. These surveys are conducted on a yearly basis since 1982 without interruption.

Purpose　　The purpose of the surveys is to collect detailed statistical data on livestock production. These data are necessary for the development of the agricultural policy of the country, as well as the Common Agricultural Policy of the EU. In addition, the data also cover other national and international needs and obligations.

Legal basis　　The surveys are governed by National and European Legislation (Regulation (EC) No 1165/2008 of the European Parliament and of the Council concerning statistics on livestock and meat). The 2022 Livestock Surveys were conducted pursuant to the Decision of the President of ELSTAT No 6052/B2-/8.8.2022 (Government Gazette 4265/B'/10.8.2022).

Reference Period　　The reference period is the 1st November of each year.

Methodology Coverage　　<u>Sample surveys</u> with the livestock holding as the survey unit. The sampling method applied is the one-step stratified sampling. The holdings included in the survey are stratified as follows:

- By Region - NUTS 2
- By size class of the holding. In each geographic area, the holdings are stratified according to their size, which is determined by the number of animals in the updated register of agricultural holdings as follows: L = 12 size classes for pigs, L = 13 size classes for bovine animals and goats and L = 15 size classes for sheep.

Livestock holdings belonging to the 8th class and above for pigs, the 12th class and above for bovine animals and goats and the 13th class and above for sheep, are surveyed exhaustively.

As regards the accuracy of the survey results, it should be noted that there are some minor sampling errors (less than 1% for Greece total) concerning the estimates of the number of animals. However, some coverage errors may also exist, concerning the number of holdings, which cannot be accurately measured by using only data from the sample.

Especially for the year 2020, the data derive from the 2021 Agricultural and Livestock Census, with 2020 as reference year. The livestock holdings with animals corresponding to 1.7 livestock units or more, were surveyed on a census basis. A sample survey was carried out for the small holdings, below the afore mentioned threshold.

Data publication　　The surveys' results are available since 1998, annually, in electronic format.

References　　More information about the surveys' results and the methodology followed can be found on the website of Hellenic Statistical Authority (www.statistics.gr) at the link "Statistics"> Agriculture, Livestock, Fishery > Livestock/Crops Surveys > Livestock Surveys.