

INTEGRATED FARM STATISTICS, 2023 (FARM STRUCTURE SURVEY, 2023)

The Hellenic Statistical Authority (ELSTAT) announces the results of the 2023 Integrated Farm Statistics (formerly named Farm Structure Survey).

Integrated Farm Statistics 2023 is a sample survey, conducted pursuant to Regulation (EU) 2018/1091 and Implementing Regulation (EU) 2021/2286, within the framework of a special programme of structural surveys established by the European Union to monitor the evolution of the structure of agricultural and livestock holdings. The programme consists of sample surveys conducted every three years and of a Basic Farm Structure Survey, conducted once every decade, in the form of a Census covering all the holdings.

This press release presents the results of the 2023 Integrated Farm Statistics, concerning the number and type of holdings, the agricultural areas, livestock populations and employment in agriculture, in comparison with the corresponding results of the 2020 Agricultural - Livestock Census.

Summary

In 2023, compared with 2020, the total number of holdings in the country recorded a slight decrease, while the utilised agricultural area (UAA) experienced a small increase.

The number of holdings decreased across all land-use categories. Reductions are also recorded in areas under “Arable crops”, “Vineyards” (grapes and raisins), and “Irrigated land”. On the contrary, following the increase in total UAA, areas under “Permanent (tree) crops”, “Areas under greenhouses”, and “Other crop areas” recorded an increase.

With regards to livestock holdings, the total number of holdings raising animals increased in 2023 compared with 2020. Specifically, the number of holdings raising poultry and beehives recorded an increase, while the number of holdings raising other animal species decreased. The number of animals increased across all livestock categories except goats.

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In 2023, compared with 2020, the number of persons employed in all agricultural–livestock employment categories decreased. A decline is also recorded in the total number of workdays across all agricultural–livestock employment categories, except those of non-regularly employed (seasonal) workers. Family labour force accounts for the majority of the workdays in agriculture.

1. Structure of Agricultural and Livestock Holdings

1.1 Number of holdings and utilised agricultural area (UAA)

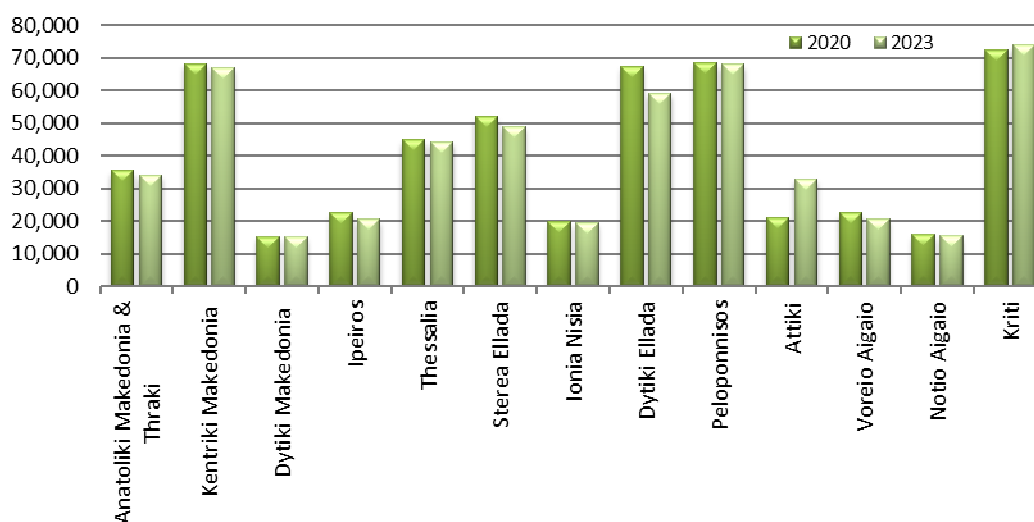
In 2023, compared with 2020, at Country level, both the total number of holdings and the total number of holdings with UAA presented a decrease of 0.7% and 1.1%, respectively. Specifically, the number of holdings amounted to 527,186 in 2023 and 530,679 in 2020, while holdings with UAA amounted to 519,764 in 2023 and 525,284 in 2020 (Table 1).

As regards to UAA, a slight increase of 1.2% is recorded in 2023 relative to 2020. Total utilised agricultural area amounted to 28,570 thousand stremmas in 2023, compared with 28,229 thousand stremmas in 2020 (Table 1).

According to Table 1 and Graph 1, in 2023 the largest number of holdings with UAA is recorded in Kriti (73,874), followed by Peloponnisos (68,088) and Kentriki Makedonia (67,109). According to Table 1 and Graph 2, the largest utilized agricultural areas are recorded in Kentriki Makedonia (5,294 thousand stremmas), followed by Kriti (3,672 thousand stremmas) and Thessalia (3,495 thousand stremmas).

Graph 1: Number of holdings with utilised agricultural area, by region

2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics

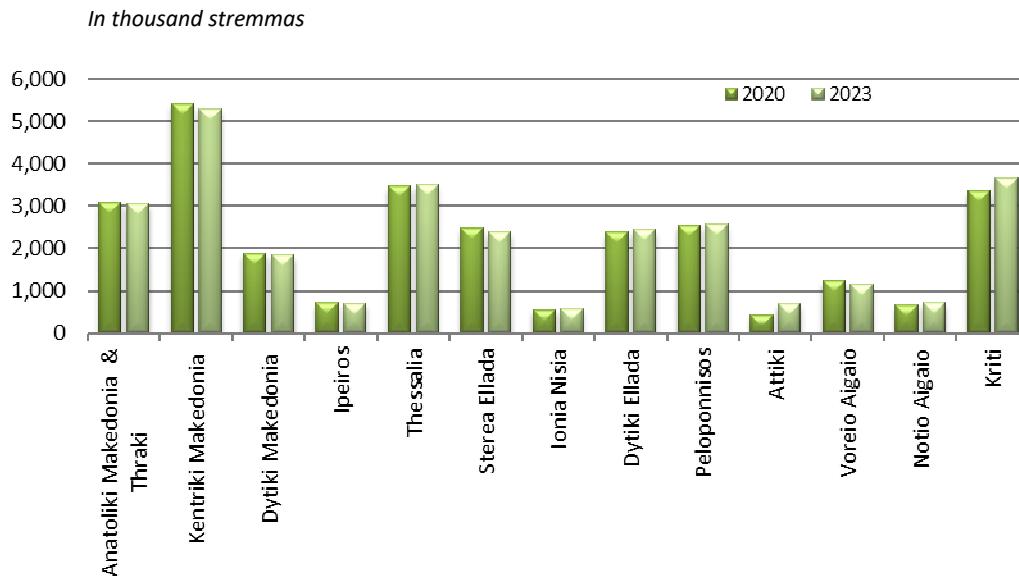


Regarding the number of holdings with UAA by region, the largest decreases between 2023 and 2020 are observed in Dytiki Ellada (-12.1%), Ipeiros (-9.1%), and Voreio Aigaio (-8.0%), while the largest increase is recorded in Attica (+56.1%) (Table 1).

Concerning UAA by region, the largest decreases between 2020 and 2023 are recorded in Voreio Aigaio (-7.2%) and Sterea Ellada (-4.0%), while increases are observed in Attiki (+57.9%), Kriti (+9.7%) and Notio Aigaio (+9.3%) (Table 1).

Graph 2: Utilised agricultural area, by region

2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics

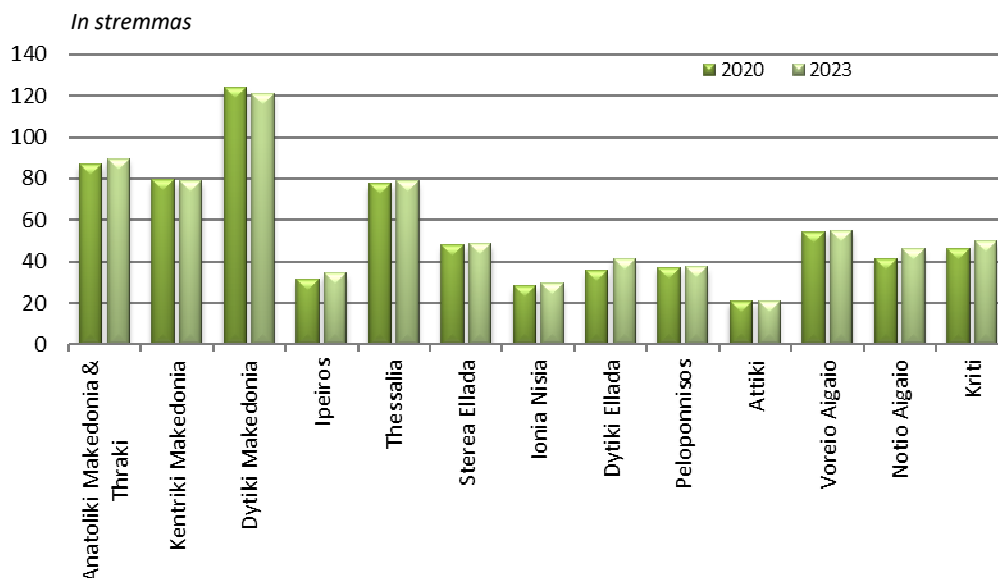


Average UAA per holding at Country level recorded a slight rise (+2.3%) in 2023 relative to 2020. More specifically, average UAA per holding amounted to 54.97 stremmas in 2023, compared with 53.74 stremmas in 2020 (Table 2).

The highest average UAA per holding, in 2023, is recorded in Dytiki Makedonia (121.21 stremmas), followed by Anatoliki Makedonia and Thraki (89.79 stremmas), Thessalia (79.01 stremmas), and Kentriki Makedonia (78.89 stremmas). The lowest average UAA per holding is recorded in Attiki (21.17 stremmas), followed by Ionian Nisia (29.42 stremmas) and Ipeiros (34.46 stremmas) (Table 2, Graph 3).

Graph 3: Average utilised agricultural area per holding, by region

2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics

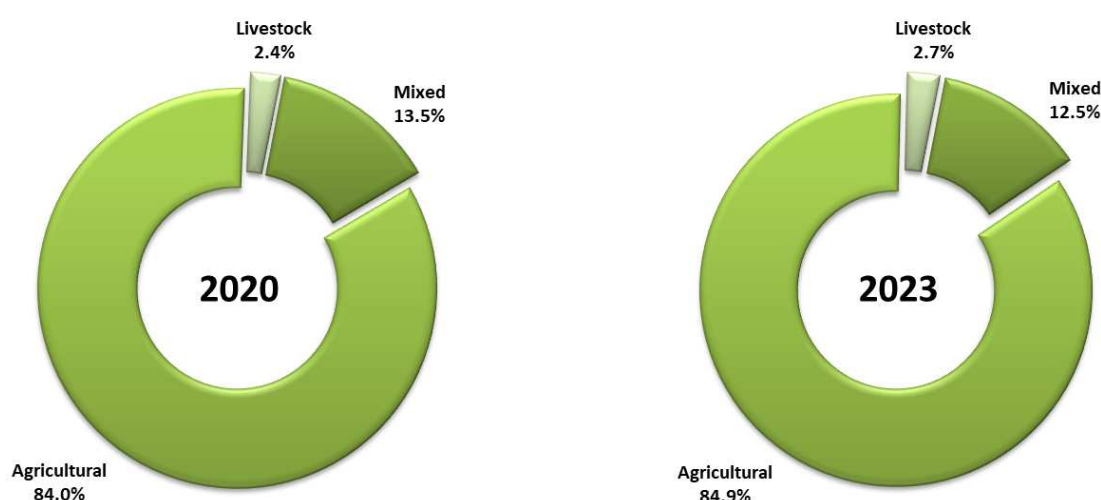


1.2 Production type of the holdings

As far as production type is concerned, at Country level, in 2023, 84.9% of holdings are agricultural, 12.5% are mixed, and 2.7% are livestock holdings, while in 2020, 84.0% are agricultural holdings, 13.5% are mixed and 2.4% are livestock holdings (Graph 4).

Specifically, in 2023, 447,371 holdings are agricultural with 19,268 thousand stremmas of UAA, 65,746 holdings are mixed, with 8,397 thousand stremmas of UAA, and 14,069 are livestock holdings with 905 thousand stremmas of UAA, while in 2020, 445,977 are agricultural holdings with 19,041 thousand stremmas UAA, 71,727 holdings are mixed with 8,462 thousand stremmas UAA and 12,974 are livestock holdings with 726 thousand stremmas UAA (Tables 3a, 3b).

Graph 4: Percentage distribution of mixed, agricultural and livestock holdings
2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics



Between 2023 and 2020, at Country level, the number of mixed holdings records a decrease of 8.3%, while livestock holdings and agricultural holdings increased by 8.4% and 0.3%, respectively (Table 3a).

With regard to the UAA of the above holdings, at Country level, in 2023 in comparison with 2020, the UAA of mixed holdings decreased by 0.8%, while that of livestock holdings and agricultural holdings increased by 24.7% and 1.2%, respectively (Table 3b).

2. Land use

Data on the distribution of holdings by basic land use categories, in 2023 compared with 2020, at Country level, indicate there is a decrease in the number of holdings cultivating “Arable crops” (-3.6%), “Vineyards” (-9.3%), “Permanent (tree) crops” (-0.4%), “Areas under greenhouses” (-1.5%), and “Other crop areas” (-16.0%) (Table 4a).

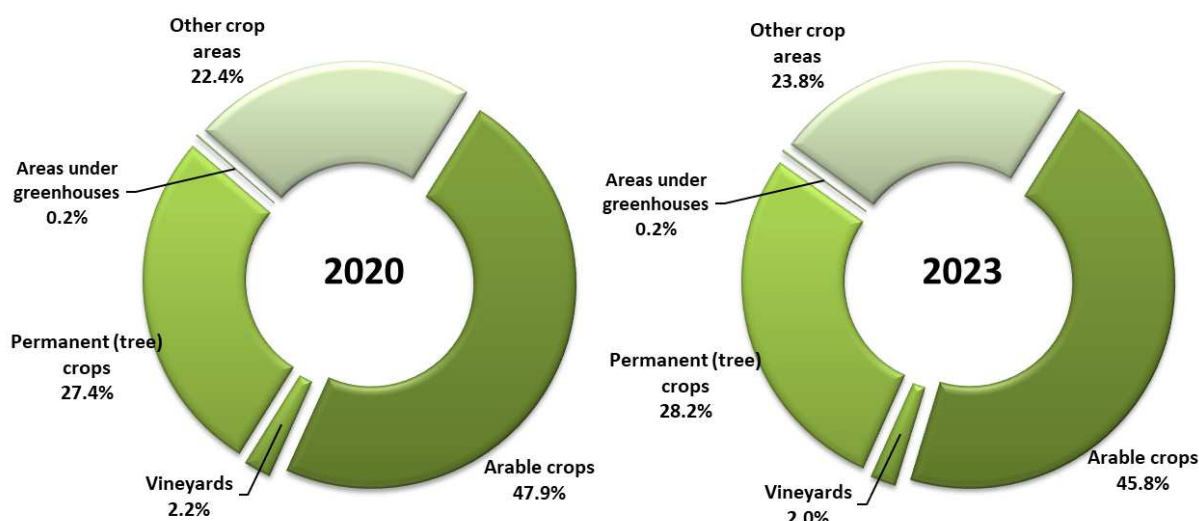
In 2023, compared with 2020, at Country level, in terms of cultivated area, increases are recorded in “Permanent (tree) crops”, “Areas under greenhouses”, and “Other crop areas” by 4.0%, 19.6% and 7.6%, respectively. Decreases are recorded in “Arable crops” and “Vineyards” by 3.2% and 4.6%, respectively (Table 4b).

More specifically, the 2023 data indicate that the largest areas under “Arable crops” are recorded in Kentriki Makedonia (3,836,113 stremmas) followed by Anatoliki Makedonia and Thraki (2,491,367 stremmas) and Thessalia (2,468,509 stremmas). The largest areas under “Vineyards” are recorded in Peloponnisos (138,636 stremmas), followed by Kriti (87,387 stremmas) and Dytiki Ellada (87,170 stremmas). Concerning “Permanent (tree) crops” the largest areas are mostly found in Peloponnisos (1,816,117 stremmas), followed by Kriti (1,382,863 stremmas) and Dytiki Ellada (902,260 stremmas). Finally, regarding “Areas under greenhouses”, the largest areas are recorded in Dytiki Ellada (23,331 stremmas) and Kriti (18,141 stremmas) (Table 4b).

Furthermore, in 2023, “Arable Crops” represented 45.8% of the total UAA, “Permanent (tree) crops” 28.2%, “Vineyards” 2.0%, “Other crop areas” 23.8%, and “Areas under greenhouses” 0.2% (Graph 5).

Graph 5: Percentage distribution of utilised agricultural area, by basic categories of land use

2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics



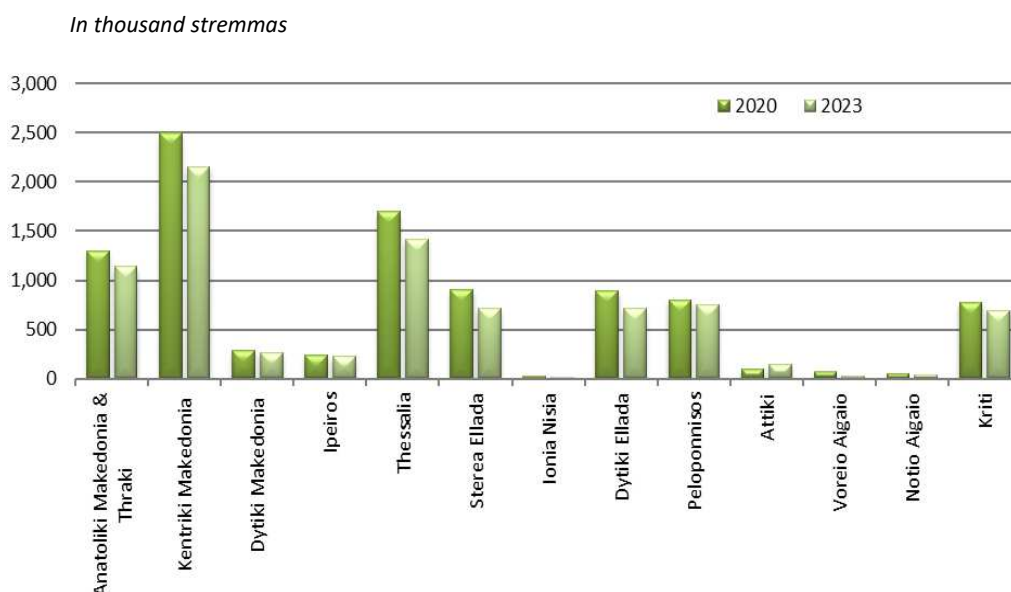
3. Irrigation

At Country level, irrigated UAA recorded a decrease of 13.9% in 2023 compared with 2020, while the number of holdings with irrigated areas also decreased by 22.3%. Total irrigated area, at Country level, amounted to 8,311 thousand stremmas in 2023, corresponding to 48.5% of the total UAA, of holdings with irrigable areas, excluding rough grazings (Table 5).

Graph 6 illustrates that the largest irrigated areas are located in Kentriki Makedonia (2,155 thousand stremmas), followed by Thessalia (1,417 thousand stremmas) and Anatoliki Makedonia and Thraki (1,138 thousand stremmas).

Graph 6: Irrigated areas, by region

2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics



4. Livestock capital

Between 2020 and 2023, at Country level, decreases are recorded in the number of holdings raising cattle (-7.4%), sheep (-5.4%), goats (-13.6%), and pigs (-18.3%). On the contrary, increases are recorded in the number of holdings raising poultry (+8.3%) and beehives (+12.5%) (Tables 6a and 7).

Concerning livestock populations, in 2023, compared with 2020, at Country level, increases are observed in cattle (+1.3%), sheep (+3.5%), pigs (+3.8%), and poultry (+10.4%). Goat numbers decreased by 9.9%, whereas the number of beehives increased by 15.3% (Tables 6b and 7).

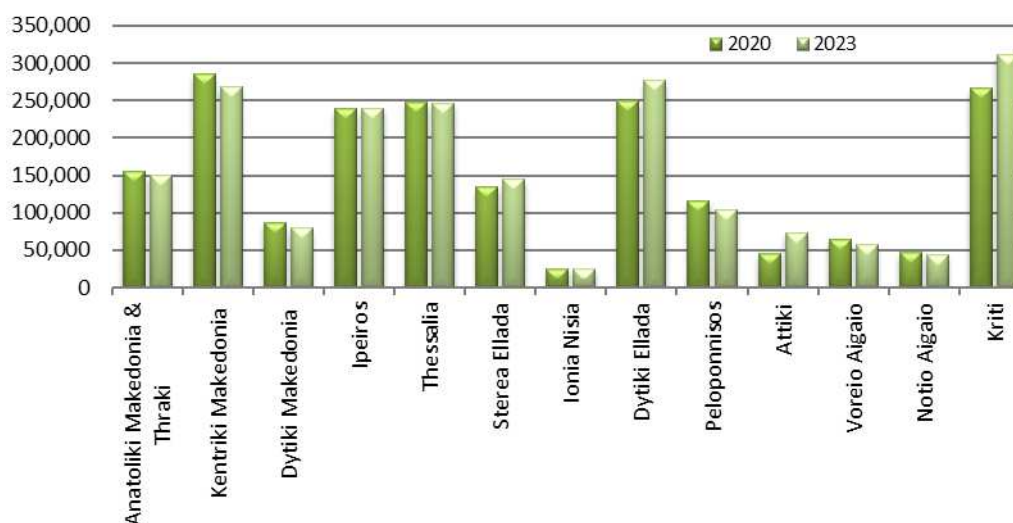
Data on livestock populations by region, indicate that the largest cattle populations are recorded in Kentriki Makedonia (142,860 animals). Kriti and Dytiki Ellada recorded the largest populations of sheep (2,379,775 and 1,526,053 animals, respectively) and goats (553,066 and 402,347 animals, respectively). Ipeiros recorded the largest populations of pigs (168,664 animals) and poultry (11,318,800 animals). The regions with the largest number of beehives are Crete and Central Macedonia (Tables 6b and 7).

Table 8 presents Livestock Units (LSU) by region for 2020 and 2023. The livestock unit, abbreviated as LSU (or sometimes as LU), is a reference unit which facilitates the aggregation of livestock from various species and age as per convention, using specific coefficients established initially on the basis of the nutritional or feed requirement of each kind of animal. The reference unit used for the calculation of livestock units (=1 LSU) is the grazing equivalent of one adult dairy cow producing 3,000 kg of milk annually, without additional concentrated foodstuffs.

In 2023, according to Table 8 and Graph 7, the highest number of livestock units is recorded in Kriti (312,008), followed by Dytiki Ellada (276,615) and Kentriki Makedonia (267,609). Ionia Nisia, Voreio Aigaio, and Notio Aigaio recorded the lowest LSU figures.

Graph 7: Distribution of livestock units, by region

2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics



In 2023 compared with 2020, at Country level, an increase of 6.7% is recorded in the number of animal-raising holdings, and of 2.8% in the number of livestock units. The regions with the largest increases in the number of animal-raising holdings are Attiki (+54.3%), Kriti (+27.9%), Ionia Nisia (+25.7%), and Ipeiros (+22.2%). Decreases are observed in Voreio Aigaio (-17.2%) and Thessalia (-6.2%) (Table 8).

5. Employment and agriculture

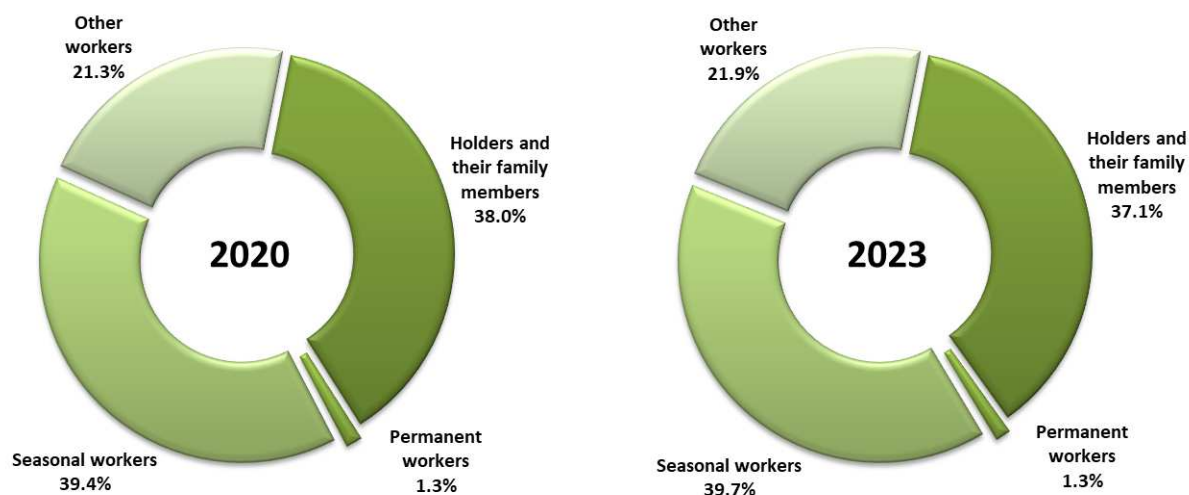
In 2023 compared with 2020, at Country level, all employment categories in agriculture recorded decreases. Specifically, reductions are observed in the number of holders and their family members who worked in the holding (-6.3%), the number of permanent workers (-9.2%), the number of seasonal (non-regularly employed) workers (-3.2%), and the number of other workers (not directly employed by the holding) (-1.2%) (Table 9a).

In terms of workdays, comparing 2023 and 2020, at Country level, increases are recorded in workdays of seasonal workers (+10.9%) and other workers (+1.2%). On the other hand, decreases are observed in the workdays of holders and their family members who worked in the holding (-6.8%) and the workdays of permanent workers (-2.1%) (Table 9b).

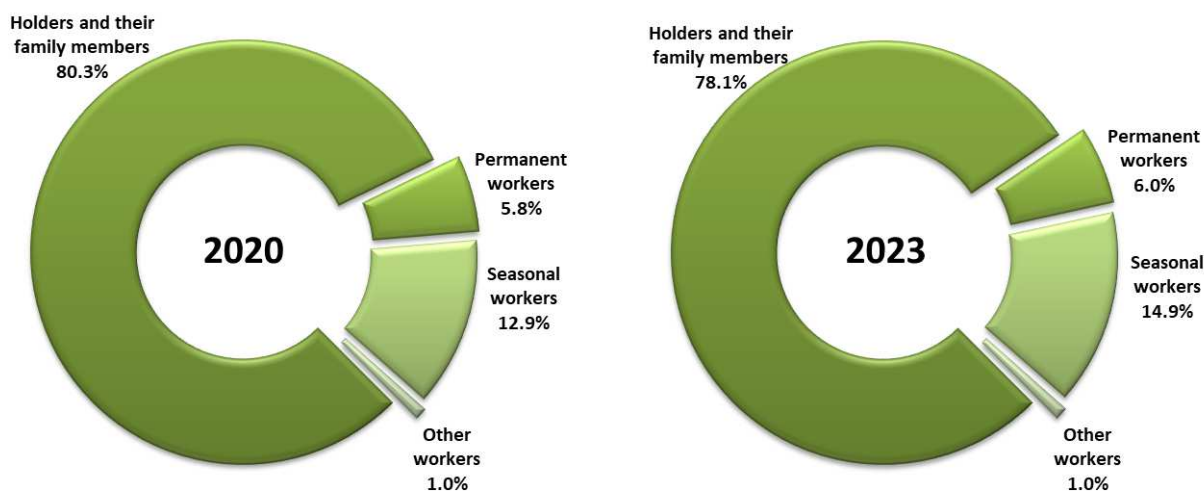
According to Graph 8, in 2023, at Country level, family labour (holders and their family members who worked in the holding) accounted for 37.1% of total labour input in agricultural activities. Seasonal workers accounted for 39.7%, other workers for 21.9%, and permanent workers for 1.3%.

In 2023, at Country level, family labour contributed 78.1% of the total number of workdays in agricultural activities, while seasonal workers accounted for 14.9%, permanent workers for 6.0%, and other workers for 1.0% (Graph 9).

Graph 8: Percentage distribution of employed in agriculture, by category
2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics



Graph 9: Percentage distribution of workdays of persons employed in agriculture, by category
2020 Agricultural - Livestock Census and 2023 Integrated Farm Statistics



Regarding the employment status of family labour, in 2023, at Country level, out of 770,435 holders and family members, 555,444 individuals (72.1%) are employed “exclusively” in the holding, 16,999 (2.2%) “mainly”, and 197,991 (25.7%) “secondarily”. Compared with 2020, the number of those employed “exclusively” decreased by 9.8 %, while those employed “mainly” and “secondarily” increased by 8.5 % and 3.5%, respectively (Table 10).

ANNEX

Table 1: Number of holdings and utilised agricultural area (UAA), by region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

In thousand stremmas ⁽¹⁾

Regions (NUTS2)	2020			2023			Change (%) 2023/2020		
	Number of holdings	Thereof with UAA	UAA	Number of holdings	Thereof with UAA	UAA	Number of holdings	Thereof with UAA	UAA
Total	530,679	525,284	28,229	527,186	519,764	28,570	-0.7	-1.1	1.2
Anatoliki Makedonia & Thraki	36,188	35,512	3,087	34,911	33,990	3,052	-3.5	-4.3	-1.1
Kentriki Makedonia	69,186	68,162	5,423	68,269	67,109	5,294	-1.3	-1.5	-2.4
Dytiki Makedonia	15,354	15,139	1,878	15,452	15,123	1,833	0.6	-0.1	-2.4
Ipeiros	23,186	22,546	715	21,492	20,498	706	-7.3	-9.1	-1.2
Thessalia	45,648	44,778	3,470	45,370	44,235	3,495	-0.6	-1.2	0.7
Stereia Ellada	52,609	51,966	2,485	50,000	49,073	2,385	-5.0	-5.6	-4.0
Ionia Nisia	19,846	19,824	561	19,512	19,500	574	-1.7	-1.6	2.3
Dytiki Ellada	67,816	67,364	2,391	60,027	59,224	2,450	-11.5	-12.1	2.5
Peloponnisos	68,576	68,357	2,549	68,372	68,088	2,560	-0.3	-0.4	0.4
Attiki	21,181	21,028	440	33,174	32,827	695	56.6	56.1	57.9
Voreio Aigaio	22,659	22,522	1,229	20,848	20,720	1,140	-8.0	-8.0	-7.2
Notio Aigaio	15,913	15,764	654	15,644	15,503	715	-1.7	-1.7	9.3
Kriti	72,518	72,322	3,347	74,117	73,874	3,672	2.2	2.1	9.7

⁽¹⁾ 1 Stremma = 0,1 ha

Note: Any differences between the total and the sum of individual values are due to rounding.

Table 2: Average utilised agricultural area per holding, by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

In stremmas

Regions (NUTS 2)	Average utilised agricultural area		Change (%) 2023/2020
	2020	2023	
Total	53.74	54.97	2.3
Anatoliki Makedonia & Thraki	86.93	89.79	3.3
Kentriki Makedonia	79.56	78.89	-0.8
Dytiki Makedonia	124.05	121.21	-2.3
Ipeiros	31.71	34.46	8.7
Thessalia	77.49	79.01	2.0
Stereia Ellada	47.82	48.60	1.6
Ionia Nisia	28.30	29.42	4.0
Dytiki Ellada	35.49	41.37	16.6
Peloponnisos	37.29	37.60	0.8
Attiki	20.92	21.17	1.2
Voreio Aigaio	54.57	55.02	0.8
Notio Aigaio	41.49	46.09	11.1
Kriti	46.28	49.71	7.4

Table 3a: Number of mixed, agricultural and livestock holdings, by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020				2023				Change (%) 2023/2020			
	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock
Total	530,679	71,727	445,977	12,974	527,186	65,746	447,371	14,069	-0.7	-8.3	0.3	8.4
Anatoliki Makedonia & Thraki	36,188	4,888	30,291	1,008	34,911	4,352	29,424	1,135	-3.5	-11.0	-2.9	12.6
Kentriki Makedonia	69,186	5,957	61,825	1,404	68,269	5,103	61,473	1,693	-1.3	-14.3	-0.6	20.6
Dytiki Makedonia	15,354	3,148	11,783	423	15,452	2,615	12,280	557	0.6	-16.9	4.2	31.7
Ipeiros	23,186	4,944	15,864	2,377	21,492	4,757	14,851	1,884	-7.3	-3.8	-6.4	-20.7
Thessalia	45,648	6,782	37,040	1,827	45,370	5,800	37,548	2,021	-0.6	-14.5	1.4	10.6
Stereia Ellada	52,609	5,492	45,507	1,609	50,000	5,228	43,364	1,407	-5.0	-4.8	-4.7	-12.6
Ionia Nisia	19,846	1,711	17,959	176	19,512	1,568	17,722	221	-1.7	-8.4	-1.3	25.6
Dytiki Ellada	67,816	12,576	53,792	1,448	60,027	11,796	46,645	1,586	-11.5	-6.2	-13.3	9.5
Peloponnisos	68,576	6,213	61,875	488	68,372	5,304	62,491	577	-0.3	-14.6	1.0	18.2
Attiki	21,181	614	20,331	236	33,174	734	31,943	497	56.6	19.5	57.1	110.6
Voreio Aigaio	22,659	4,432	17,683	544	20,848	3,506	16,863	479	-8.0	-20.9	-4.6	-11.9
Notio Aigaio	15,913	3,666	11,711	536	15,644	3,117	11,935	591	-1.7	-15.0	1.9	10.3
Kriti	72,518	11,303	60,317	898	74,117	11,865	60,831	1,421	2.2	5.0	0.9	58.2

Table 3b: Utilised agricultural area of mixed, agricultural and livestock holdings, by region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

In thousand stremmas

Regions (NUTS 2)	2020				2023				Change (%) 2023/2020			
	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock
Total	28,229	8,462	19,041	726	28,570	8,397	19,268	905	1.2	-0.8	1.2	24.7
Anatoliki Makedonia & Thraki	3,087	482	2,585	21	3,052	492	2,542	18	-1.1	2.1	-1.7	-14.3
Kentriki Makedonia	5,423	770	4,615	38	5,294	704	4,531	60	-2.4	-8.6	-1.8	57.9
Dytiki Makedonia	1,878	624	1,215	38	1,833	576	1,219	38	-2.4	-7.7	0.3	0.0
Ipeiros	715	307	302	105	706	309	304	94	-1.3	0.7	0.7	-10.5
Thessalia	3,470	791	2,618	61	3,495	775	2,621	98	0.7	-2.0	0.1	60.7
Stereia Ellada	2,485	530	1,888	67	2,385	465	1,873	46	-4.0	-12.3	-0.8	-31.3
Ionia Nisia	561	239	282	40	574	218	306	50	2.3	-8.8	8.5	25.0
Dytiki Ellada	2,391	1,053	1,291	47	2,450	1,123	1,256	72	2.5	6.6	-2.7	53.2
Peloponnisos	2,549	567	1,957	25	2,560	543	1,982	34	0.4	-4.2	1.3	36.0
Attiki	440	56	377	6	695	41	643	10	58.0	-26.8	70.6	66.7
Voreio Aigaio	1,229	705	440	84	1,140	638	429	74	-7.2	-9.5	-2.5	-11.9
Notio Aigaio	654	426	187	41	715	432	198	85	9.3	1.4	5.9	107.3
Kriti	3,347	1,910	1,283	154	3,672	2,080	1,364	228	9.7	8.9	6.3	48.1

Table 4a: Distribution of holdings by basic land use categories and by region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020					2023					Change (%) 2023/2020				
	Arable crops ⁽¹⁾	Vineyards	Perma- nent (tree) crops ⁽²⁾	Areas under green- houses	Other crop areas ⁽³⁾	Arable crops ⁽¹⁾	Vineyards	Perma- nent (tree) crops ⁽²⁾	Areas under green- houses	Other crop areas ⁽³⁾	Arable crops ⁽¹⁾	Vineyards	Perma- nent (tree) crops ⁽²⁾	Areas under green- houses	Other crop areas ⁽³⁾
Total	187,573	77,390	401,909	8,319	223,817	180,804	70,203	400,405	8,193	187,996	-3.6	-9.3	-0.4	-1.5	-16.0
Anatoliki Makedonia & Thraki	28,125	3,655	12,686	280	22,438	26,312	3,447	13,560	222	15,366	-6.4	-5.7	6.9	-20.7	-31.5
Kentriki Makedonia	44,505	4,899	39,136	1,470	29,321	43,907	4,830	38,822	1,124	25,275	-1.3	-1.4	-0.8	-23.5	-13.8
Dytiki Makedonia	13,485	2,535	3,856	156	9,073	13,448	2,600	4,301	120	8,508	-0.3	2.6	11.5	-23.1	-6.2
Ipeiros	7,296	1,126	15,981	534	12,548	6,231	645	14,131	404	11,492	-14.6	-42.7	-11.6	-24.3	-8.4
Thessalia	30,154	4,385	19,372	628	19,910	29,026	4,409	19,398	458	16,136	-3.7	0.5	0.1	-27.1	-19.0
Stereia Ellada	17,829	5,859	43,268	130	19,724	16,647	4,433	40,815	102	14,456	-6.6	-24.3	-5.7	-21.5	-26.7
Ionia Nisia	2,697	4,669	19,334	90	9,643	3,028	4,520	19,103	137	8,463	12.3	-3.2	-1.2	52.2	-12.2
Dytiki Ellada	21,303	7,911	58,433	774	28,999	19,439	6,730	51,442	1,041	20,674	-8.7	-14.9	-12.0	34.5	-28.7
Peloponnisos	6,855	10,556	65,705	644	20,601	7,248	8,990	65,338	586	17,036	5.7	-14.8	-0.6	-9.0	-17.3
Attiki	1,702	3,065	19,743	275	2,837	2,376	3,437	30,648	403	2,549	39.6	12.1	55.2	46.5	-10.2
Voreio Aigaio	3,328	3,783	20,543	182	11,047	2,923	3,115	18,804	146	8,764	-12.2	-17.7	-8.5	-19.8	-20.7
Notio Aigaio	4,518	3,919	13,604	226	6,405	4,184	3,309	13,092	165	5,647	-7.4	-15.6	-3.8	-27.0	-11.8
Kriti	5,776	21,029	70,246	2,932	31,271	6,033	19,738	70,953	3,286	33,629	4.4	-6.1	1.0	12.1	7.5

⁽¹⁾ Fallow land and arable crops under greenhouses are not included.⁽²⁾ Permanent crops under greenhouses, vineyards, nurseries and other permanent crops are not included.⁽³⁾ Included: Kitchen gardens, permanent grassland, rough grazings, nurseries, other permanent crops and fallow land.

Table 4b: Distribution of utilised agricultural area, by basic categories of land use and by region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

In stremmas

Regions (NUTS 2)	2020					2023					Change (%) 2023/2020				
	Arable crops ⁽¹⁾	Vineyards	Permanent (tree) crops ⁽²⁾	Areas under green- houses	Other crop areas ⁽³⁾	Arable crops ⁽¹⁾	Vineyards	Permanent (tree) crops ⁽²⁾	Areas under green- houses	Other crop areas ⁽³⁾	Arable crops ⁽¹⁾	Vineyards	Permanent (tree) crops ⁽²⁾	Areas under green- houses	Other crop areas ⁽³⁾
Total	13,513,193	607,101	7,741,089	48,720	6,318,756	13,082,532	579,252	8,048,023	58,276	6,801,637	-3.2	-4.6	4.0	19.6	7.6
Anatoliki Makedonia & Thraki	2,478,192	40,227	165,765	890	402,295	2,491,367	38,072	185,942	1,054	335,394	0.5	-5.4	12.2	18.4	-16.6
Kentriki Makedonia	3,937,451	47,339	909,491	5,334	523,511	3,836,113	44,685	895,879	4,369	512,933	-2.6	-5.6	-1.5	-18.1	-2.0
Dytiki Makedonia	1,405,898	16,257	68,939	167	386,522	1,327,448	17,281	69,736	146	418,166	-5.6	6.3	1.2	-12.6	8.2
Ipeiros	218,985	3,447	230,000	1,633	260,753	209,272	3,258	221,021	1,567	271,303	-4.4	-5.5	-3.9	-4.0	4.0
Thessalia	2,576,337	32,062	403,091	1,726	456,482	2,468,509	32,661	447,466	1,563	544,443	-4.2	1.9	11.0	-9.4	19.3
Stereia Ellada	1,231,599	40,111	738,229	478	474,626	1,180,137	40,796	761,149	490	402,111	-4.2	1.7	3.1	2.5	-15.3
Ionia Nisia	38,866	22,641	277,243	193	222,243	40,475	22,084	296,275	226	214,713	4.1	-2.5	6.9	17.1	-3.4
Dytiki Ellada	906,216	93,368	902,126	15,627	473,465	833,532	87,170	902,260	23,331	603,734	-8.0	-6.6	0.0	49.3	27.5
Peloponnisos	234,393	150,533	1,818,894	3,401	341,531	237,240	138,636	1,816,117	3,249	364,769	1.2	-7.9	-0.2	-4.5	6.8
Attiki	77,614	31,147	273,022	2,534	55,741	89,892	33,175	506,833	3,237	61,708	15.8	6.5	85.6	27.7	10.7
Voreio Aigaio	133,152	16,152	472,460	451	606,808	112,151	14,220	429,076	359	584,149	-15.8	-12.0	-9.2	-20.4	-3.7
Notio Aigaio	136,803	21,870	134,723	778	360,313	111,066	19,827	133,408	545	449,697	-18.8	-9.3	-1.0	-29.9	24.8
Kriti	137,689	91,947	1,347,107	15,509	1,754,468	145,330	87,387	1,382,863	18,141	2,038,519	5.5	-5.0	2.7	17.0	16.2

⁽¹⁾ Fallow land and arable crops under greenhouses are not included.⁽²⁾ Permanent crops under greenhouses, vineyards, nurseries and other permanent crops are not included.⁽³⁾ Included: Kitchen gardens, permanent grassland, rough grazings, nurseries, other permanent crops and fallow land.

Table 5: Holdings with irrigated areas, by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

In thousand stremmas

Regions (NUTS 2)	2020					2023					Change (%) 2023/2020	
	Holdings		Thereof with irrigable areas			Holdings		Thereof with irrigable areas			Holdings with irrigable areas	
	Total	UAA ⁽¹⁾	Holdings	Total UAA ⁽¹⁾	Irrigated	Total	UAA ⁽¹⁾	Holdings	Total UAA ⁽¹⁾	Irrigated	Holdings	Irrigated
Total	530,679	25,770	362,323	20,008	9,655	527,186	26,042	281,528	17,138	8,311	-22.3	-13.9
Anatoliki Makedonia & Thraki	36,188	3,076	29,526	2,713	1,295	34,911	3,026	24,446	2,480	1,138	-17.2	-12.1
Kentriki Makedonia	69,186	5,400	52,104	4,237	2,491	68,269	5,271	46,053	3,656	2,155	-11.6	-13.5
Dytiki Makedonia	15,354	1,730	9,049	1,138	288	15,452	1,700	7,944	1,035	268	-12.2	-6.9
Ipeiros	23,186	634	16,907	506	246	21,492	697	13,387	450	229	-20.8	-6.9
Thessalia	45,648	3,434	34,863	2,903	1,696	45,370	3,452	29,584	2,587	1,417	-15.1	-16.5
Stereia Ellada	52,609	2,337	28,250	1,743	904	50,000	2,337	19,612	1,448	716	-30.6	-20.8
Ionia Nisia	19,846	465	11,348	281	26	19,512	503	7,406	197	13	-34.7	-50.0
Dytiki Ellada	67,816	2,317	46,325	1,831	893	60,027	2,335	28,273	1,442	711	-39.0	-20.4
Peloponnisos	68,576	2,484	42,884	1,760	802	68,372	2,502	34,399	1,480	757	-19.8	-5.6
Attiki	21,181	431	10,752	241	105	33,174	689	10,754	277	148	0.0	41.0
Voreio Aigaio	22,659	837	11,486	480	71	20,848	835	6,184	333	25	-46.2	-64.8
Notio Aigaio	15,913	504	10,145	365	57	15,644	502	5,607	233	37	-44.7	-35.1
Kriti	72,518	2,122	58,685	1,809	781	74,117	2,193	47,877	1,523	698	-18.4	-10.6

⁽¹⁾ Rough grazings are not included.

Table 6a: Holdings with animals, by kind of animal and by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS2)	2020					2023					Change (%) 2023/2020				
	Bovine (Cattle)	Sheep	Goats	Pigs	Poultry	Bovine (Cattle)	Sheep	Goats	Pigs	Poultry	Bovine (Cattle)	Sheep	Goats	Pigs	Poultry
Total	10,865	56,761	36,978	5,906	72,550	10,065	53,710	31,958	4,823	78,539	-7.4	-5.4	-13.6	-18.3	8.3
Anatoliki Makedonia & Thraki	1,919	2,537	1,735	284	6,635	1,625	2,263	1,511	235	5,980	-15.3	-10.8	-12.9	-17.3	-9.9
Kentriki Makedonia	1,809	3,148	2,263	254	4,389	1,621	2,552	1,952	225	4,599	-10.4	-18.9	-13.7	-11.4	4.8
Dytiki Makedonia	803	2,141	1,478	234	1,906	716	1,861	1,133	83	1,962	-10.8	-13.1	-23.3	-64.5	2.9
Ipeiros	1,030	5,074	2,259	165	5,181	1,090	4,410	1,852	81	8,259	5.8	-13.1	-18.0	-50.9	59.4
Thessalia	1,311	5,517	2,505	386	7,347	1,255	4,651	1,919	274	6,503	-4.3	-15.7	-23.4	-29.0	-11.5
Stereia Ellada	589	4,697	3,389	543	4,591	610	4,568	2,928	322	4,892	3.6	-2.7	-13.6	-40.7	6.6
Ionia Nisia	194	1,196	1,182	115	3,551	164	1,221	1,142	89	4,465	-15.5	2.1	-3.4	-22.6	25.7
Dytiki Ellada	1,299	11,269	5,443	1,178	14,164	1,312	11,002	4,809	993	12,804	1.0	-2.4	-11.6	-15.7	-9.6
Peloponnisos	514	4,001	3,563	334	6,856	479	3,441	2,852	263	7,375	-6.8	-14.0	-20.0	-21.3	7.6
Attiki	48	443	326	50	687	34	535	290	37	815	-29.2	20.8	-11.0	-26.0	18.6
Voreio Aigaio	429	3,660	2,554	926	4,065	318	3,080	1,606	417	3,001	-25.9	-15.8	-37.1	-55.0	-26.2
Notio Aigaio	840	2,731	2,890	736	2,467	755	2,433	2,335	528	2,427	-10.1	-10.9	-19.2	-28.3	-1.6
Kriti	80	10,348	7,394	700	10,711	86	11,693	7,631	1,277	15,457	7.5	13.0	3.2	82.4	44.3

Table 6b: Number of animals, by kind and by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020					2023					Change (%) 2023/2020				
	Bovine (Cattle)	Sheep	Goats	Pigs	Poultry	Bovine (Cattle)	Sheep	Goats	Pigs	Poultry	Bovine (Cattle)	Sheep	Goats	Pigs	Poultry
Total	624,397	7,721,799	3,149,008	742,963	27,412,120	632,600	7,994,140	2,836,064	771,480	30,270,679	1.3	3.5	-9.9	3.8	10.4
Anatoliki Makedonia & Thraki	88,323	406,823	287,870	66,463	517,930	81,501	356,017	237,478	62,348	1,200,963	-7.7	-12.5	-17.5	-6.2	131.9
Kentriki Makedonia	153,772	614,581	369,519	101,458	5,255,488	142,860	532,164	309,821	94,572	5,010,452	-7.1	-13.4	-16.2	-6.8	-4.7
Dytiki Makedonia	40,233	392,391	146,500	9,093	104,356	37,031	339,607	115,787	18,841	109,665	-8.0	-13.5	-21.0	107.2	5.1
Ipeiros	71,908	466,506	127,224	142,081	12,401,622	80,463	410,049	103,082	168,664	11,318,800	11.9	-12.1	-19.0	18.7	-8.7
Thessalia	120,276	1,004,806	299,968	110,796	472,753	133,432	928,642	242,068	121,729	518,659	10.9	-7.6	-19.3	9.9	9.7
Stereia Ellada	32,558	438,463	241,107	90,510	2,613,390	35,166	426,415	221,397	94,294	3,245,093	8.0	-2.7	-8.2	4.2	24.2
Ionia Nisia	4,075	110,528	101,308	719	95,472	4,034	115,515	87,347	414	95,993	-1.0	4.5	-13.8	-42.4	0.5
Dytiki Ellada	71,695	1,287,840	382,132	101,733	675,156	84,194	1,526,053	402,347	83,026	455,294	17.4	18.5	5.3	-18.4	-32.6
Peloponnisos	16,403	354,190	365,201	67,043	1,390,470	13,470	322,000	312,369	63,278	1,173,927	-17.9	-9.1	-14.5	-5.6	-15.6
Attiki	2,892	46,462	20,777	20,762	2,709,887	1,762	59,294	20,972	39,298	5,774,063	-39.1	27.6	0.9	89.3	113.1
Voreio Aigaio	6,381	468,528	94,962	3,648	307,856	4,677	436,189	80,349	1,625	117,064	-26.7	-6.9	-15.4	-55.5	-62.0
Notio Aigaio	14,676	157,182	169,545	5,460	155,232	12,394	162,421	149,982	3,752	130,291	-15.5	3.3	-11.5	-31.3	-16.1
Kriti	1,206	1,973,499	542,896	23,196	712,506	1,617	2,379,775	553,066	19,638	1,120,414	34.1	20.6	1.9	-15.3	57.2

Table 7: Holdings with bees and number of beehives, by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020		2023		Change (%) 2023/2020	
	Holdings	Beehives	Holdings	Beehives	Holdings	Beehives
Total	8,704	952,063	9,796	1,097,351	12.5	15.3
Anatoliki Makedonia & Thraki	617	68,609	876	97,617	42.0	42.3
Kentriki Makedonia	985	147,955	1,276	178,531	29.5	20.7
Dytiki Makedonia	326	22,176	333	31,006	2.1	39.8
Ipeiros	494	42,322	548	52,242	10.9	23.4
Thessalia	766	99,881	1,035	119,818	35.1	20.0
Stereia Ellada	949	82,259	1,056	99,317	11.3	20.7
Ionia Nisia	366	15,959	291	15,082	-20.5	-5.5
Dytiki Ellada	750	78,643	795	102,630	6.0	30.5
Peloponnisos	973	120,224	989	105,406	1.6	-12.3
Attiki	154	12,785	367	30,105	138.3	135.5
Voreio Aigaio	455	35,300	351	31,068	-22.9	-12.0
Notio Aigaio	625	45,220	612	46,162	-2.1	2.1
Kriti	1,243	180,729	1,267	188,364	1.9	4.2

Table 8: Holdings and livestock units (LSU), by region
2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020		2023		Change (%) 2023/2020	
	Holdings	LSU	Holdings	LSU	Holdings	LSU
Total	124,204	1,961,624	132,580	2,016,803	6.7	2.8
Anatoliki Makedonia & Thraki	10,451	155,061	9,995	149,260	-4.4	-3.7
Kentriki Makedonia	9,899	285,304	10,680	267,609	7.9	-6.2
Dytiki Makedonia	4,481	86,203	4,497	79,494	0.4	-7.8
Ipeiros	9,307	238,992	11,374	239,800	22.2	0.3
Thessalia	12,703	247,775	11,919	246,121	-6.2	-0.7
Stereia Ellada	8,982	134,173	9,656	144,221	7.5	7.5
Ionia Nisia	4,460	25,464	5,605	24,430	25.7	-4.1
Dytiki Ellada	21,333	248,836	20,522	276,615	-3.8	11.2
Peloponnisos	10,755	116,575	11,609	103,862	7.9	-10.9
Attiki	1,131	45,386	1,745	73,477	54.3	61.9
Voreio Aigaio	7,140	64,701	5,909	56,802	-17.2	-12.2
Notio Aigaio	4,720	46,820	4,965	43,103	5.2	-7.9
Kriti	18,842	266,334	24,106	312,008	27.9	17.1

Table 9a: Number of persons employed in agriculture, by category and by region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020				2023				Change (%) 2023/2020			
	Holders and their family members who worked in the holding	Permanent workers	Seasonal workers	Other workers	Holders and their family members who worked in the holding	Permanent workers	Seasonal workers	Other workers	Holders and their family members who worked in the holding	Permanent workers	Seasonal workers	Other workers
Total	822,430	28,710	852,921	460,988	770,435	26,063	825,910	455,624	-6.3	-9.2	-3.2	-1.2
Anatoliki Makedonia & Thraki	60,158	2,382	48,627	44,462	55,373	2,718	36,461	43,448	-8.0	14.1	-25.0	-2.3
Kentriki Makedonia	104,187	6,496	132,416	75,394	95,088	5,552	118,048	71,455	-8.7	-14.5	-10.9	-5.2
Dytiki Makedonia	24,139	1,454	15,003	23,534	23,102	1,025	13,875	22,607	-4.3	-29.5	-7.5	-3.9
Ipeiros	33,786	1,086	24,641	20,100	28,716	987	28,380	26,725	-15.0	-9.1	15.2	33.0
Thessalia	66,003	2,659	58,250	59,786	70,282	2,283	58,843	58,252	6.5	-14.1	1.0	-2.6
Stereia Ellada	78,113	2,021	81,045	32,559	66,578	1,445	75,285	36,831	-14.8	-28.5	-7.1	13.1
Ionia Nisia	32,663	266	11,207	4,574	26,212	180	14,968	6,337	-19.8	-32.3	33.6	38.5
Dytiki Ellada	103,701	2,088	180,261	54,477	94,806	1,936	145,550	46,650	-8.6	-7.3	-19.3	-14.4
Peloponnisos	107,889	3,144	141,286	106,713	105,926	2,926	156,246	94,876	-1.8	-6.9	10.6	-11.1
Attiki	32,600	1,897	34,816	6,070	48,770	2,209	47,588	14,536	49.6	16.4	36.7	139.5
Voreio Aigaio	33,995	437	16,431	4,879	27,102	517	15,663	3,989	-20.3	18.3	-4.7	-18.2
Notio Aigaio	24,936	343	5,863	5,866	22,637	336	3,282	4,678	-9.2	-2.0	-44.0	-20.3
Kriti	120,259	4,437	103,077	22,572	105,843	3,948	111,721	25,240	-12.0	-11.0	8.4	11.8

Table 9b: Number of workdays of persons employed in agriculture, by category and by region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020				2023				Change (%) 2023/2020			
	Holders and their family members who worked in the holding	Permanent workers	Seasonal workers	Other workers	Holders and their family members who worked in the holding	Permanent workers	Seasonal workers	Other workers	Holders and their family members who worked in the holding	Permanent workers	Seasonal workers	Other workers
Total	81,576,798	5,917,584	13,067,873	979,157	76,035,870	5,791,529	14,489,331	990,471	-6.8	-2.1	10.9	1.2
Anatoliki Makedonia & Thraci	7,805,706	482,761	748,844	60,392	6,542,610	612,656	708,672	74,240	-16.2	26.9	-5.4	22.9
Kentriki Makedonia	12,473,107	1,317,667	3,269,083	144,748	11,688,012	1,205,250	2,723,563	141,252	-6.3	-8.5	-16.7	-2.4
Dytiki Makedonia	2,959,399	369,186	194,672	28,332	2,709,480	232,686	273,644	34,382	-8.4	-37.0	40.6	21.4
Ipeiros	4,642,842	246,118	317,466	46,877	3,854,600	263,842	377,693	73,113	-17.0	7.2	19.0	56.0
Thessalia	8,093,747	626,094	824,652	105,131	7,810,768	576,027	825,610	97,272	-3.5	-8.0	0.1	-7.5
Sterea Ellada	6,403,369	463,507	973,558	61,416	6,102,635	327,592	911,075	86,230	-4.7	-29.3	-6.4	40.4
Ionia Nisia	2,752,318	45,574	191,141	7,181	2,140,670	41,182	355,021	12,088	-22.2	-9.6	85.7	68.3
Dytiki Ellada	9,515,105	484,727	2,636,719	144,782	8,739,188	465,731	2,749,933	106,449	-8.2	-3.9	4.3	-26.5
Peloponnisos	9,553,711	503,755	1,731,452	290,978	9,188,224	555,496	2,982,450	250,870	-3.8	10.3	72.3	-13.8
Attiki	1,535,179	415,552	441,478	10,661	2,062,039	460,877	434,336	43,529	34.3	10.9	-1.6	308.3
Voreio Aigaio	3,272,998	79,069	282,372	15,458	3,183,931	80,715	276,762	15,299	-2.7	2.1	-2.0	-1.0
Notio Aigaio	2,241,694	70,539	65,405	13,807	2,192,782	80,241	43,880	9,629	-2.2	13.8	-32.9	-30.3
Kriti	10,327,623	813,036	1,391,031	49,395	9,820,931	889,236	1,826,693	46,117	-4.9	9.4	31.3	-6.6

Table 10: Employment of holders and their family members in agriculture, by category and region

2020 Agricultural – Livestock Census and 2023 Integrated Farm Statistics

Regions (NUTS 2)	2020				2023				Change (%) 2023/2020			
	Holders and their family members who worked in the holding	Thereof, employed in the holding			Holders and their family members who worked in the holding	Thereof, employed in the holding			Holders and their family members who worked in the holding	Thereof, employed in the holding		
		Exclusively	Mainly	Secondarily		Exclusively	Mainly	Secondarily		Exclusively	Mainly	Secondarily
Total	822,430	615,528	15,668	191,234	770,435	555,444	16,999	197,991	-6.3	-9.8	8.5	3.5
Anatoliki Makedonia & Thraki	60,158	48,867	1,381	9,910	55,373	43,234	1,119	11,021	-8.0	-11.5	-19.0	11.2
Kentriki Makedonia	104,187	83,230	3,096	17,861	95,088	71,176	2,793	21,119	-8.7	-14.5	-9.8	18.2
Dytiki Makedonia	24,139	20,004	508	3,627	23,102	17,829	468	4,804	-4.3	-10.9	-7.9	32.5
Ipeiros	33,786	27,718	531	5,537	28,716	23,000	382	5,335	-15.0	-17.0	-28.1	-3.6
Thessalia	66,003	54,402	1,493	10,108	70,282	54,516	1,862	13,904	6.5	0.2	24.7	37.6
Stereia Ellada	78,113	56,487	839	20,787	66,578	48,804	752	17,022	-14.8	-13.6	-10.4	-18.1
Ionia Nisia	32,663	21,558	711	10,394	26,212	17,180	1,077	7,956	-19.8	-20.3	51.5	-23.5
Dytiki Ellada	103,701	80,545	1,593	21,564	94,806	67,945	1,634	25,227	-8.6	-15.6	2.6	17.0
Peloponnisos	107,889	81,619	1,970	24,301	105,926	74,450	3,554	27,921	-1.8	-8.8	80.4	14.9
Attiki	32,600	20,213	250	12,137	48,770	30,052	519	18,199	49.6	48.7	107.6	49.9
Voreio Aigaio	33,995	25,050	779	8,166	27,102	19,222	838	7,041	-20.3	-23.3	7.6	-13.8
Notio Aigaio	24,936	15,872	471	8,593	22,637	14,904	350	7,383	-9.2	-6.1	-25.7	-14.1
Kriti	120,259	79,963	2,046	38,250	105,843	73,133	1,651	31,060	-12.0	-8.5	-19.3	-18.8

SUMMARY QUALITY REPORT FOR USERS

INTEGRATED FARM STATISTICS, YEAR 2023

- General** The Integrated Farm Statistics Survey (IFS), formerly named Farm Structure Survey (FSS), is a wide-range, periodic statistical procedure aiming at collecting quantitative information in order to determine the basic structural characteristics of agricultural and livestock holdings in Greece. The survey was conducted as part of a special survey program on the structure of agricultural and livestock holdings, established by the European Union, to monitor the evolution of the structure of agricultural and livestock holdings. This program has been carried out in Europe since 1966 and entails conducting sample surveys every three years, along with the Agricultural and Livestock Census, during which all holdings are surveyed, every ten years. The IFS for 2023 was co-funded by the European Union and was carried out in line with common standards and methods, based on Regulation (EU) 2018/1091 and Implementing Regulation (EU) 2021/2286.
- Reference period** The reference period of the 2023 IFS data, with regard to crops, employment in the agricultural sector and other characteristics, except livestock, was the cultivation period from 01/10/2022 till 30/09/2023. The reference date, with regard to the livestock of the holding, was 01/11/2023.
- Purpose** The IFS survey provides statistical data regarding the structure of agricultural and livestock holdings, their specific characteristics, as well as the employment of the rural population in them, at national, regional and local level. The IFS survey collects data on:
- the number of agricultural and livestock holdings,
 - the legal form of holdings,
 - the status of agricultural land tenure,
 - the geographical location of holdings,
 - the distribution of the Utilized Agricultural Area (UAA) by type of crop (arable crops, family gardens, permanent meadows and pastures, multiannual permanent crops, greenhouse crops, etc.),
 - irrigable and irrigated areas,
 - farmed animals and poultry,
 - cultivation techniques,
 - animal husbandry methods,
 - machines and equipment used by the holding,
 - rural development measures from which the holding benefitted,
 - employment in agriculture and livestock, as well as
 - other characteristics of agricultural and livestock farms.
- The Agricultural Statistical Register, which constitutes the basic framework for conducting statistical surveys in the agriculture and livestock sector, is updated on the basis of the data collected in the IFS survey.
- Methodology** The sampling method used for the survey was the one-stage stratified random sampling. The sampling unit is the agricultural, livestock or mixed holding, which is a single unit both technically and economically, operating under a single manager and producing agricultural products.
- The statistical frame of IFS survey is the Agricultural Statistical Register which is compiled on the basis of the Agricultural and Livestock Census and is updated, on a regular basis, from administrative sources, as well as other agricultural surveys conducted by ELSTAT.
- The Agricultural Statistical Register includes all agricultural, livestock or mixed holdings in Greece, regardless of their legal form (natural or legal person) and irrespective of the holder's place of residence or the location of their land or livestock.
- Stratification was based on the NUTS3 region, the Type (techno-economical orientation of production) and the Economic Size of the holding. In each stratum

the sample has been selected with equal probabilities through systematic random sampling from the population of holdings belonging to this stratum.

The final sample size was 137,587 holdings, representing more than 22% of the total of agricultural and livestock holdings of Greece.

Definitions The term agricultural, livestock or mixed holding means a single unit, both technically and economically, operating under a single manager and producing agricultural products. The statistical unit of the IFS survey, in accordance with the thresholds set out in Regulation (EC) 2018/1091, was any holding whose owner, a natural or legal person or legal entity:

- a) cultivates at least: fifty (50) stremmas (1 stremma = 0.1 ha) of utilized agricultural area or twenty (20) stremmas of arable land or five (5) stremmas of potatoes or five (5) stremmas of fresh vegetables and strawberries or two (2) stremmas of aromatic, medicinal and spice plants, flowers and ornamental plants, seeds for sowing and seedlings, as well as nurseries or three (3) stremmas of fruit trees or one (1) stremma of vineyards or three (3) stremmas of olive trees or one hundred (100) square meters (0.1 stremma) of greenhouses or one hundred (100) square meters of cultivated mushrooms, regardless of the ownership titles and the place where it is located, or
- b) raises privately owned animals corresponding to 1.7 livestock units.

In Greece, for national purposes and in order to have comparability with the data of previous surveys, a sample of smaller farms, outside the above-defined thresholds, was also surveyed.

Detailed definitions of all surveyed variables are included in Implementing Regulation (EU) 2021/2286.

Survey Organisation and Quality Control **Data collection method:** The IFS 2023 data collection was carried out with a hybrid system, which included two phases:

- **Phase A:** Online self-enumeration of farms through a special application, with the help of the enumerator.
- **Phase B:** Online completion of questionnaires through interviews conducted by ELSTAT's enumerators with the owner or manager of the holding, either at his/her residence or via phone, for holdings where the online self-enumeration was not feasible.

Data was collected using an electronic questionnaire, through a special online application, while portable computers (laptops) and touch-screen computers (tablets) were used to complete the questionnaires.

Questionnaire: The questionnaire for the IFS 2023 survey was designed in accordance with the provisions of the applicable Union legislation. The survey questionnaire included all mandatory variables required by the European Regulation (EU) 2018/1091, as well as variables that meet national statistical information requirements. The survey also collected the Tax Identification Number (TIN) and the Police ID card number of the holder, aiming at a unique identification number that serves as a unique identifier for linking the survey data to relevant data from other administrative sources, thereby updating the Agricultural Statistical Register. As part of the survey, geolocation data of the holdings were also gathered. Specifically, in addition to collecting information regarding the settlement in which the holder resides permanently (individual farm) or the legal seat of the farm (legal entity), information was also collected regarding the exact location of the primary agricultural parcel or the largest part of the utilised agricultural area, in case of agricultural farms, or the exact location of livestock facilities, in case of livestock or mixed farms.

Data processing: The electronic questionnaire of the survey, by design, integrated automatic controls for the most error-free and complete collection of data. When completing the questionnaires, either through self-enumeration or

by the enumerator, automatic logical and completeness checks were performed. Immediately after completing and submitting each questionnaire, the data were automatically stored in the ELSTAT database and upon completion of the collection they were ready for processing. In addition, quality checks were carried out using data from other ELSTAT surveys and data from administrative sources (e.g. from the Ministry of Rural Development and Food and the Greek Payment Authority of Common Agricultural Policy Aid Schemes - OPEKEPE). The aim was to investigate the coverage of farms, as well as to complete any missing values. The collection of the holder's TIN served as a unique identifier for the connection with administrative registers and archives. In cases where it was deemed necessary, additional interviews were carried out with farm owners.

Data Publication The IFS/FSS data are available for the following years: 1983, 1985, 1987, 1993, 1995, 1997, 2003, 2005, 2007, 2013, 2016 and 2023. Furthermore, census data are available for the years 1961, 1971, 1981, 1991, 2000, 2009 and 2020. Data, for the time period between 2000 and 2016 are available in electronic form, while for the rest of the years the data are available in hardcopy.

Reference More information concerning the results of the survey and the implemented methodology can be found on the webpage of ELSTAT (<https://www.statistics.gr/en/home/>) at the link <https://www.statistics.gr/en/statistics/agr>.