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HELLENIC STATISTICAL AUTHORITY

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PRESS RELEASE

FARM STRUCTURE SURVEY, 2016

The Hellenic Statistical Authority (ELSTAT) announces the results of the Farm Structure Survey of the year 2016.

This Press Release presents the results of the Survey and the changes observed as regards the number and type of holdings, the agricultural areas, the number of animals and employment in agriculture-livestock, in comparison with the relevant data of the 2013 Farm Structure Survey and the 2009 Agricultural – Livestock Census. The data are presented in the form of graphs and tables (presented in the Annex).

Summary

In 2016 compared with 2013, a decrease is recorded, at Country level, both in the total number of holdings and the utilised agricultural area (UAA).

More specifically, areas under vineyards, annual crops, “other” areas, as well as irrigated areas decreased, whereas a slight increase was observed in areas under tree crops.

Furthermore, in 2016 compared with 2013, a decrease is observed in the total number of livestock holdings for all animal categories. A decrease was recorded in the number of heads for sheep and goats, an increase for pigs and poultry, while no change was actually recorded for bovine animals.

As regards employment, in 2016 an increase was recorded in paid labour schemes (permanent and seasonal workers) compared with 2013, while a decrease was observed in family and other forms of labour. It should be noted that family labour force accounts for the majority of the work days in agriculture.

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1. Structure of agricultural and livestock holdings

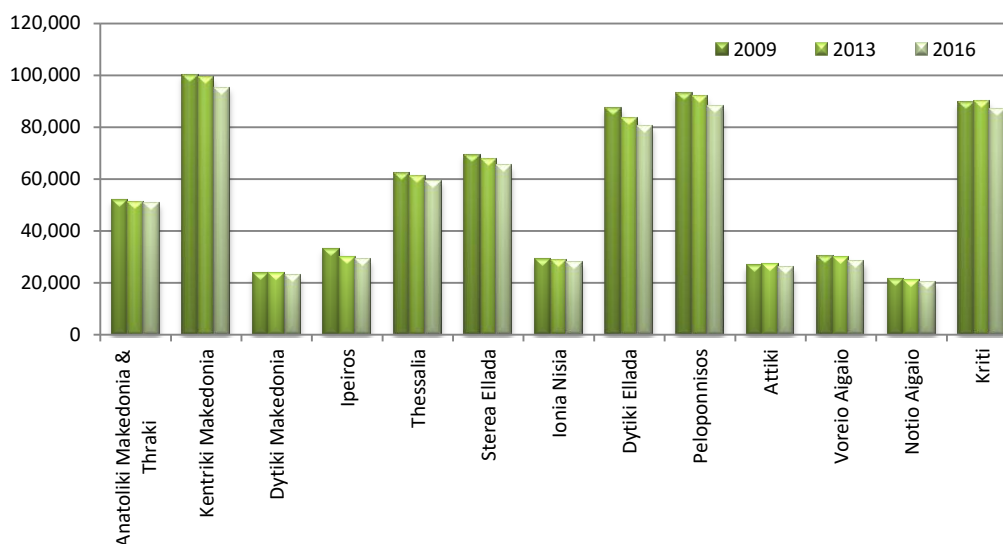
1.1 Number of holdings and utilised agricultural area (UAA)

In 2016 compared with 2013, at Country level, a 3.5% decrease is observed both in the total number of holdings and in the number of holdings with utilised agricultural area (UAA). Similarly, in 2013 compared with 2009, a decrease of 1.9% had been recorded in the corresponding figures. More specifically, the number of holdings was 684,902 in 2016, 709,449 in 2013 and 723,007 in 2009, whereas the holdings with UAA amounted to 678,702 in 2016, 703,535 in 2013 and 716,823 in 2009 (Tables 1a and 1b - Annex).

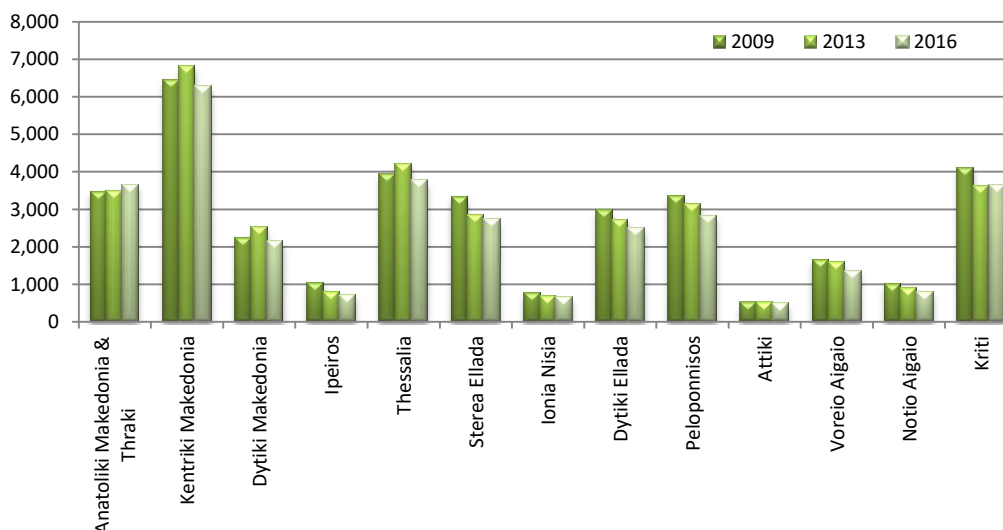
The UAA, at Country level, decreased by 6.8% in 2016 in comparison with 2013 and by 2.8% in 2013 compared with 2009. More specifically, the total utilised area amounted to 31,526 thousand stremmas (1 stremma = 0.1 ha) in 2016, 33,815 thousand stremmas in 2013, while the utilised area in 2009 was 34,779 thousand stremmas (Tables 1a and 1b - Annex).

According to Table 1a of Annex and Graph 1, in 2016 the biggest number of holdings with UAA is recorded in Kentriki Makedonia (95,187), followed by Peloponnisos (88,221) and Kriti (86,961), while according to same table and Graph 2, the largest areas are recorded in Kentriki Makedonia (6,289 thousand stremmas), followed by Thessalia (3,756 thousand stremmas) and Kriti (3,641 thousand stremmas).

Graph 1: Numbers of holdings with utilised agricultural area, by NUTS 2 Region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



Graph 2: Utilised agricultural area, by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



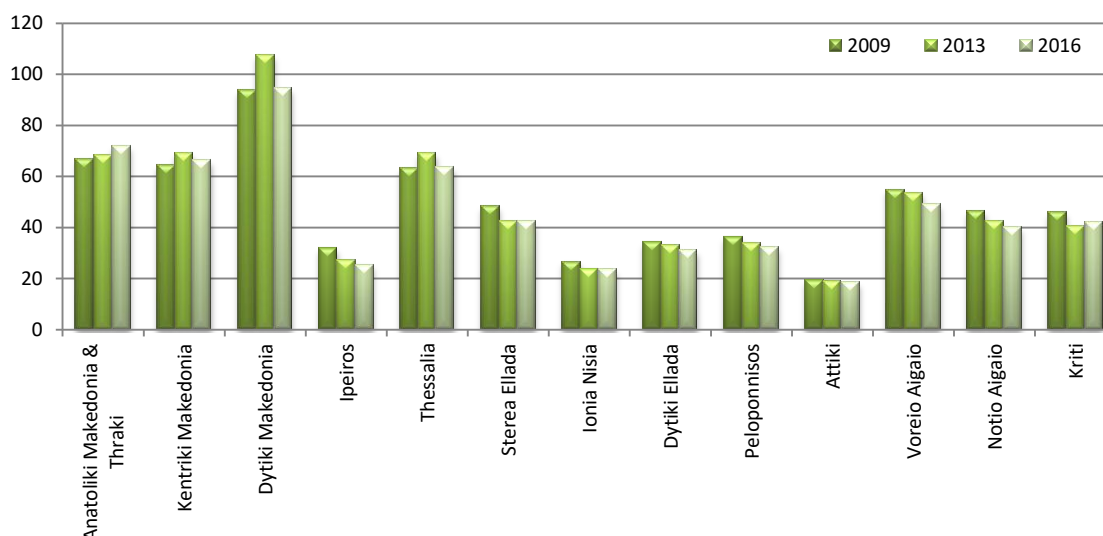
It should be noted that in 2016 compared with 2013, as regards the number of holdings with UAA per region, the biggest decrease is observed in Voreio Aigaio (5.9%), Notio Aigaio (4.6%), Kentriki Makedonia (4.1%) and Peloponnisos (4.1%). In 2013 compared to 2009, the biggest decrease was observed in Ipeiros (9.4%) and Dytiki Ellada (4.5%), whereas an increase was observed only in Attiki (0.8%) and Kriti (0.4%) (Table 1a - Annex).

With respect to the UAA per region, in 2016 compared with 2013, the biggest decrease is observed in Dytiki Makedonia (14.9%) and Voreio Aigaio (14.0%), while an increase is recorded in Anatoliki Makedonia and Thraki (4.3%) and Kriti (0.7%). In 2013 compared with 2009, the biggest decrease in the UAA is observed in Ipeiros (22.3%), Sterea Ellada (14.4%) and Ionia Nisia (12.3%), while an increase is recorded in Dytiki Makedonia (13.3%), Thessalia (7.3%), Kentriki Makedonia (6.2%) and Anatoliki Makedonia and Thraki (0.4%) (Table 1b - Annex).

The average UAA per holding presents a decrease (3.3%) in 2016 in comparison with 2013 and a small decrease (0.9%) in 2013 in comparison with 2009. More specifically, in 2016 the average UAA amounted to 46.45 stremmas per holding, while in 2013 to 48.06 stremmas and in 2009 to 48.52 stremmas (Table 2 - Annex).

The largest average UAA per holding in 2016 is found in Dytiki Makedonia (94.43 stremmas), while the smallest average UAA per holding is recorded in Attiki (18.51 stremmas) (Table 2 - Annex, Graph 3).

Graph 3: Average utilised agricultural area of holdings, by NUTS 2 Region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



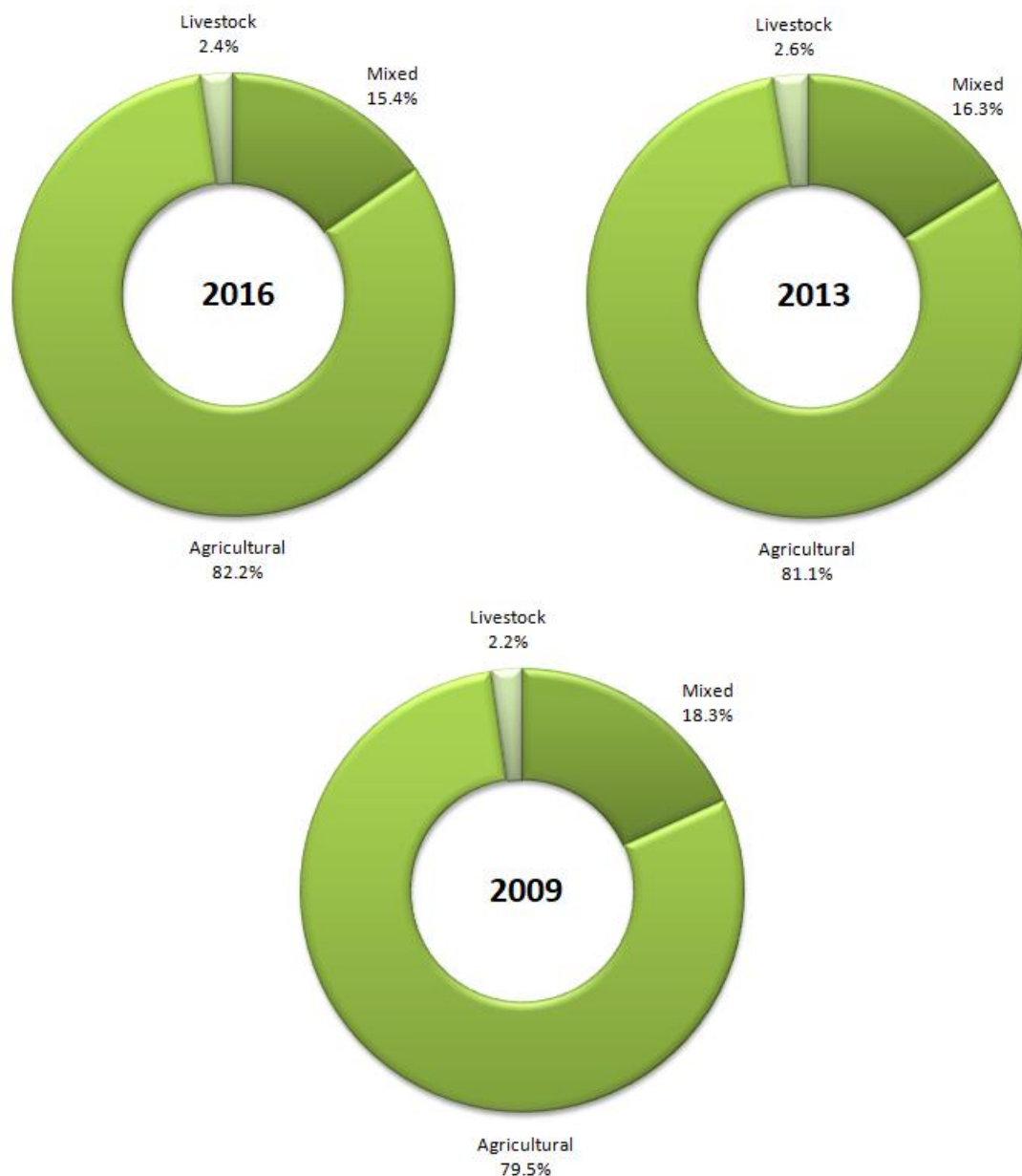
1.2 Production type of the holdings

As regards the production type of the holdings, in 2016, 82.2% of the holdings were agricultural, 15.4% are mixed and 2.4% are livestock farms, whereas in 2013, 81.1% of the holdings were agricultural, 16.3% were mixed and 2.6% were livestock farms and in 2009, 79.5% of the holdings were agricultural, 18.3% were mixed and 3.5% were livestock farms. More specifically, in 2016, there were 562,965 agricultural holdings with 20,973 thousand stremmas of UAA, 105,709 mixed holdings with 9,886 thousand stremmas of UAA and 16,227 livestock holdings with 666 thousand stremmas of UAA, in 2013 there were 575,525 agricultural holdings with 20,910 thousand stremmas of UAA, 115,461 mixed holdings with 11,722 thousand stremmas of UAA and 18,463 livestock holdings with 1,184 thousand stremmas of UAA and in 2009, 574,812 agricultural holdings with 19,683 thousand stremmas of UAA, 131,988 holdings with 13,730 thousand stremmas of UAA and 16,207 livestock holdings with 1,366 thousand stremmas of UAA (Tables 3a, 4a – Annex, Graph 4).

In 2016 in comparison with 2013, the number of mixed holdings recorded a decrease of 8.4%, agricultural holdings decreased by 2.2% and so did livestock holdings by 12.1%, In 2013 compared with 2009, the number of mixed holdings decreased by 12.5%, agricultural holdings slightly decreased by 0.1%, while livestock holdings increased by 13.9% (Table 3b –Annex).

With regard to the UAA of the above holdings, in 2016 compared with 2013, the UAA of mixed holdings decreased by 15.7%, the UAA of the agricultural holdings increased by 0.3% and the UAA of the livestock holdings decreased by 43.8%. In 2013 compared with 2009, the UAA of mixed holdings decreased by 14.6%, the UAA of the agricultural holdings increased by 6.2% and the UAA of the livestock holdings decreased by 13.3% (Table 4b- Annex).

Graph 4: Percentage distribution of mixed, agricultural and livestock holdings
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



2. Land use

Available survey data on the distribution of the UAA by basic categories of land use indicate that in 2016 compared with 2013, at Country level, the number of holdings with annual crops decreased by 5.2%, with vineyards (grapes and raisins) by 5.1%, with areas under trees by 1.0%, and with “other” areas by 5.0%. In 2013 compared with 2009, the number of holdings with annual crops decreased by 3.6%, with areas under trees by 3.4% and with “other” areas by 5.2%, while a larger decrease amounting to 21.8% is observed in the number of holdings under vineyards (grapes and raisins) (Table 5b-Annex).

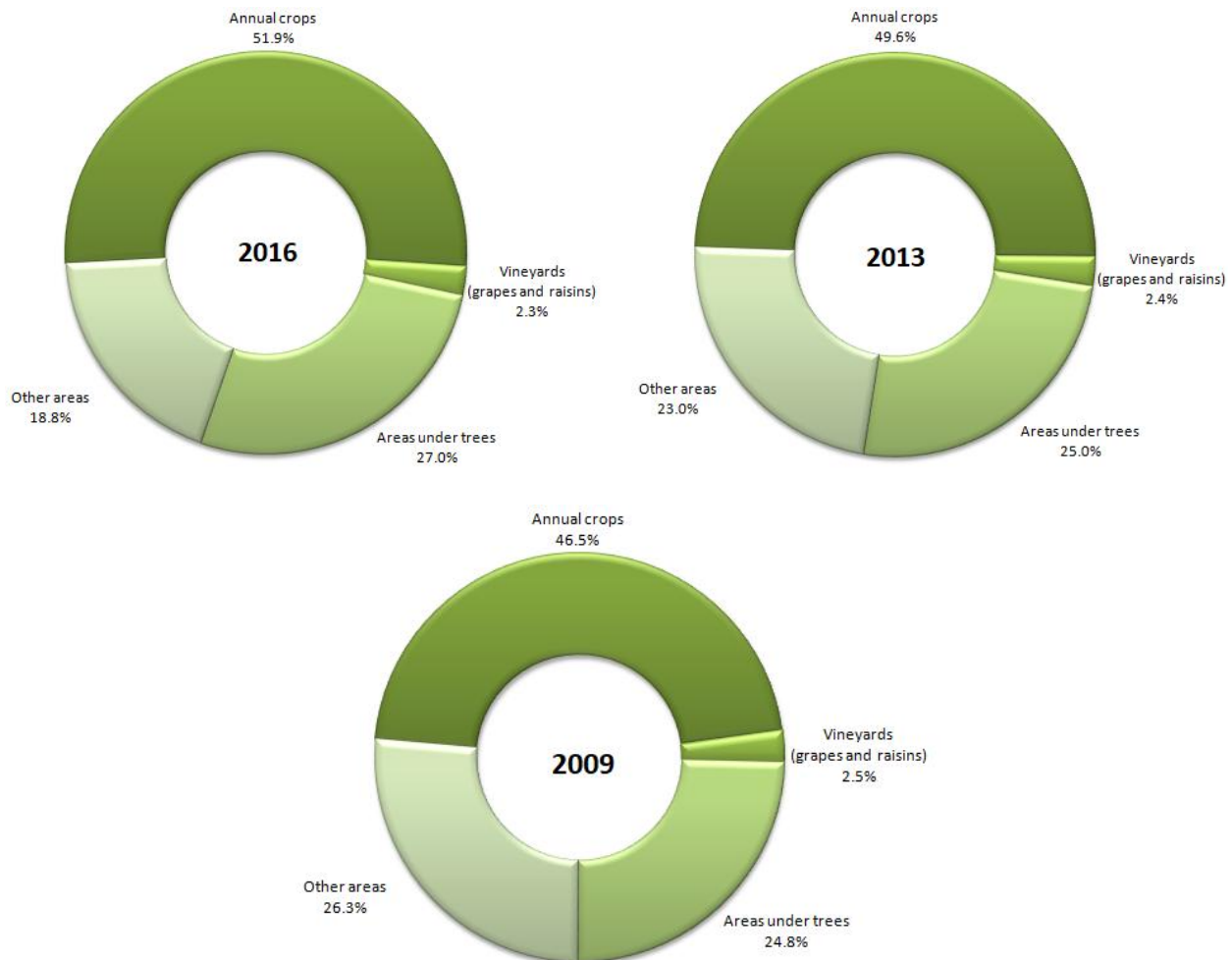
In 2016 compared with 2013, the areas under annual crops, vineyards and “other” crops, recorded a decrease of 2.5%, 8.0% and 23.8%, respectively, while areas under trees presented a slight increase of 0.4%. In 2013 in comparison with 2009, areas under annual crops recorded an increase of 3.7%, while the areas under vineyards, trees and “other” crops recorded a decrease of 7.3%, 1.8% and 14.7%, respectively (Table 6b - Annex).

More specifically, it is observed that in 2016 the largest areas under annual crops are located in Kentriki Makedonia (4,979 thousand stremmas), followed by Anatoliki Makedonia and Thraki (3,062 thousand

stremmas) and Thessalia (2,883 thousand stremmas). The largest areas under vineyards (grapes and raisins) are found in Peloponnisos (168 thousand stremmas), followed by Kriti (123 thousand stremmas) and Dytiki Ellada (118 thousand stremmas). The largest areas under trees are found in Peloponnisos (2,064 thousand stremmas), followed by Kriti (1,484 thousand stremmas) and Kentriki Makedonia (978 thousand stremmas) (Table 6a – Annex).

Furthermore, in 2016, the areas under annual crops accounted for 51.9% of the UAA, the areas under trees for 27.0%, vineyards for 2.3% and the “other” areas for 18.8% of the UAA (Graph 5).

Graph 5: Percentage distribution of utilised agricultural area, by basic categories of land use
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

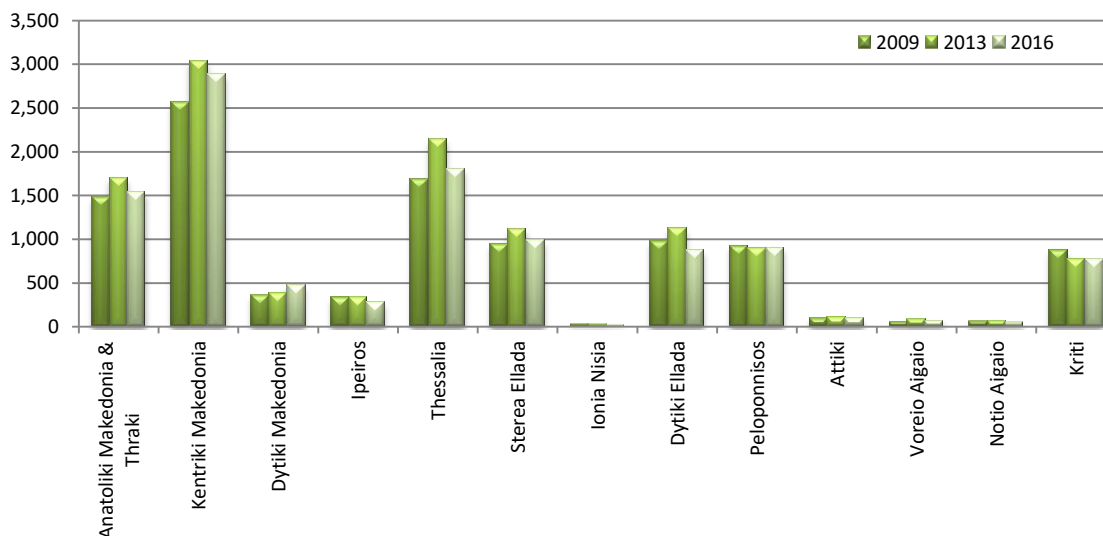


3. Irrigation

The irrigated UAA in 2016, compared with 2013, recorded a decrease of 8.7%, while in 2013 compared with 2009 they increased by 13.4%. In 2016 compared with 2013, the number of holdings with irrigated land decreased by 12.8% while in 2013 it was 2.4% higher than in 2009. More specifically, in 2016 the total irrigated land of the Country amounted to 10,749 thousand stremmas, representing 50.6% of the total UAA, excluding rough grazing land, while in 2013 it amounted to 11,779 thousand stremmas, representing 50% of the corresponding total UAA (Tables 7a, 7b –Annex).

According to Graph 6, in 2016, most of the irrigated areas are located in Kentriki Makedonia (2,886 thousand stremmas), followed by Thessalia (1,800 thousand stremmas) and Anatoliki Makedonia and Thraki (1,538 thousand stremmas).

Graph 6: Holdings with irrigated areas, by NUTS 2 Region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



4. Livestock capital

In 2016 compared with 2013, number of holdings with cattle decreased by 7.5%, with sheep by 8.9%, with goats by 6.2%, with pigs by 5.9% and with poultry by 6.6%, while in 2013 compared with 2009, the number of holdings with cattle decreased by 4.7%, with goats by 4.6%, with pigs by 2.0% and with poultry by 12.1%, while the number of holdings with sheep increased by 2.7% (Table 8b - Annex).

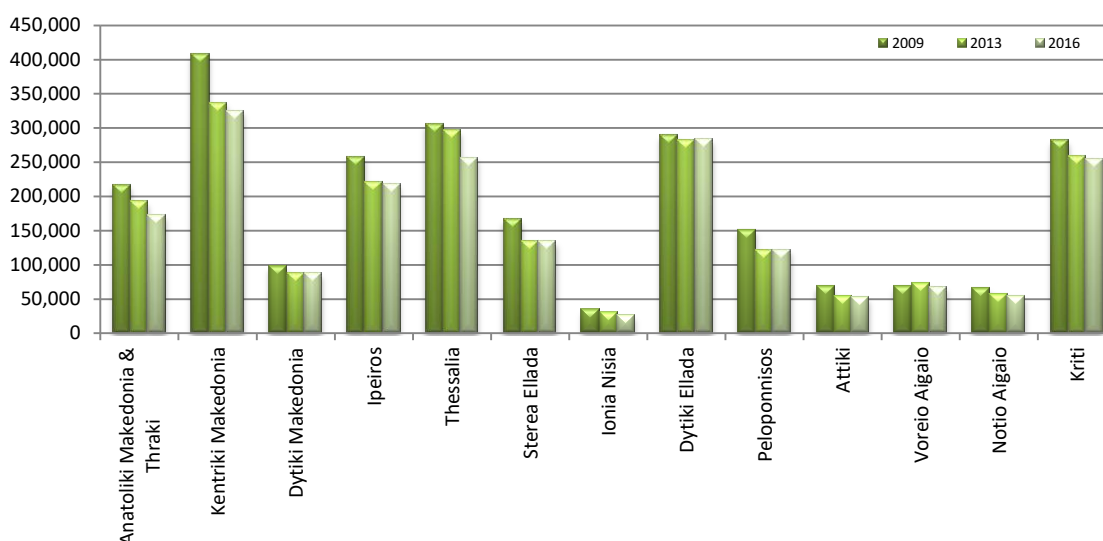
As regards the number of animals, comparing 2016 with 2013, a decrease of 5.3% and 3.1% is observed in sheep and goats, respectively, an increase of 0.2% and 9.0% in pigs and poultry, respectively, while the number of cattle remains practically the same. In 2013 compared with 2009, the number of sheep decreased by 5.1%, of goats by 13.3%, of pigs by 18.9% of poultry by 24.2 % and the number of cattle decreased by 5.1% (Table 9b - Annex).

Available survey data on the number of animals by region indicate that Kentriki Makedonia remains one of the largest livestock regions of the Country, with all categories of animals. The largest number of cattle is recorded in Kentriki Makedonia (168,859). The largest population of sheep (1,741,529) and goats (509,514) was recorded in Kriti. Finally, Dytiki Ellada is at the top of the list as regards the number of pigs (139,980) and Ipeiros as regards poultry (9,829,539) (Table 9a - Annex).

Table 10 illustrates livestock units by region, for the years 2009, 2013 and 2016. 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.

According to Graph 7, in 2016, the largest number of livestock units is recorded in Kentriki Makedonia (324,670), followed by Dytiki Ellada (282,414) and Thessalia (256,606). The smallest number of livestock units is recorded in Attiki, Voreio Aigaio, Notio Aigaio and Ionia Nisia.

Graph 7: Distribution of livestock units, by NUTS 2 Region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



In 2016 compared with 2013, at Country level, a decrease of 6.9% is recorded in the number of holdings and a 4.3% decrease in the number of livestock units, whereas in 2013 compared with 2009, a decrease of 6.2% is recorded in the number of holdings and an 11.0% decrease in the number of livestock units. Between 2013 and 2016, the largest decrease is observed for Ionia Nisia (21.5%) followed by Anatoliki Makedonia and Thraki (19.8%) and Peloponnisos (15.5%), whereas Dytiki Ellada and Kriti present an increase (4.8% and 3.7%, respectively). Between 2009 and 2013, the regions recording the largest decrease are Kentriki Makedonia (25.9%), followed by Sterea Ellada (15.3%) and Thessalia (10.1%), while the regions of Attiki, Voreio Aigaio and Notio Aigaio record an upward trend (17.7%, 9.2% and 5.4%, respectively) (Table 10 - Annex).

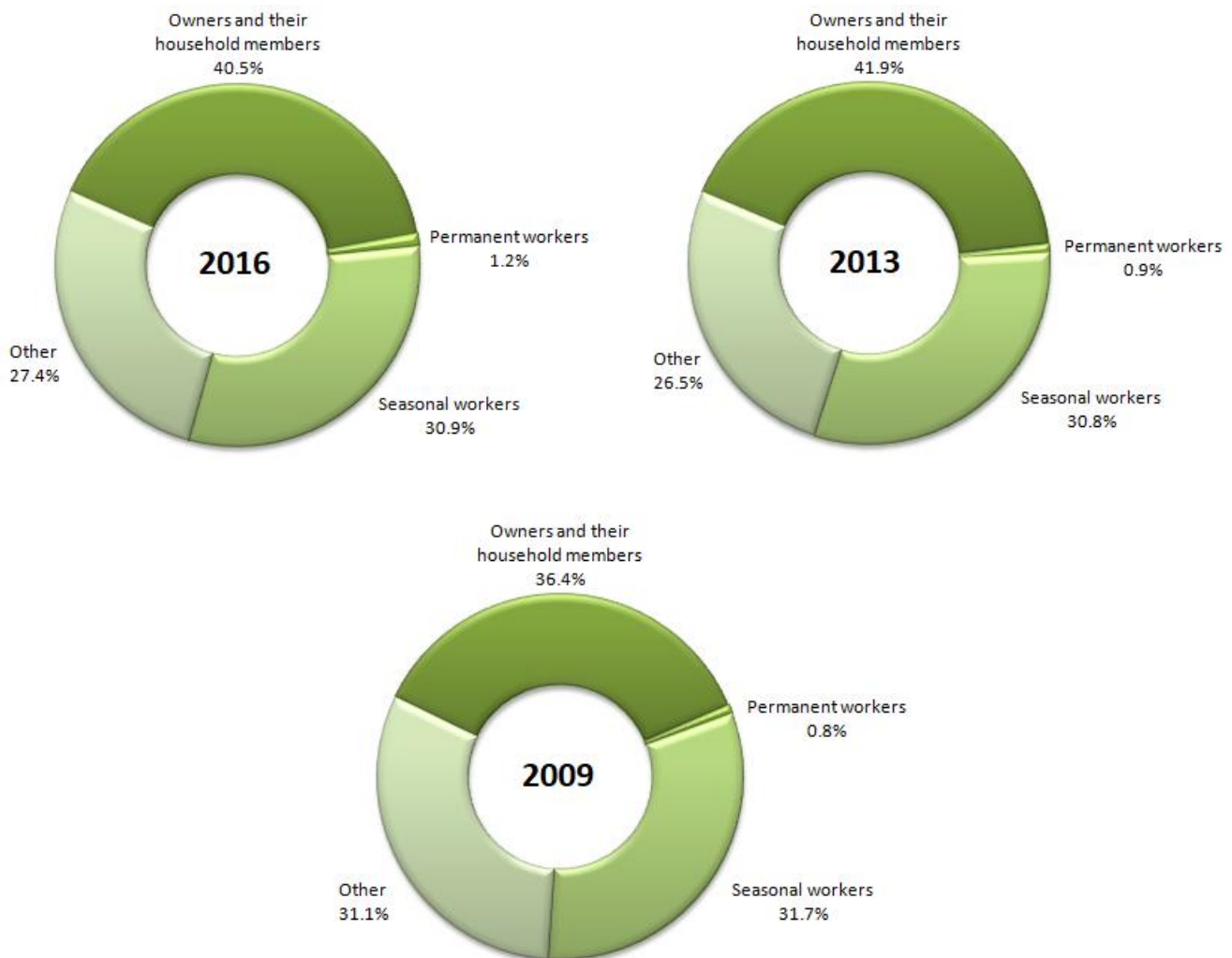
5. Employment in agriculture

In 2016 compared with 2013, at Country level, a decrease is recorded in the number of family labour force, as well as in the seasonal workers, while an increase is observed in the number of permanent workers (regularly employed) and the other forms of labour (mutual assistance and piece rate work). Specifically, the number of owners and their household members who worked in the holding decreased by 4.1% and seasonal workers also decreased, slightly, by 0.4%. The number of permanent workers increased by 35.2% and that of "other workers" (mutual assistance and piece rate work) increased by 2.5%. In 2013 compared with 2009, at Country level, a decrease is recorded in the number of all categories of workers in agriculture, except for the number of family labour force. Specifically, the number of owners and their household members who worked in the holding increased by 2.3%, while permanent workers decreased by 4.6%, seasonal workers by 13.6% and "other workers" decreased by 24.5% (Table 11b – Annex).

As regards the number of work-days, comparing 2016 with 2013, the work-days of owners and household members decreased by 7.3% and that of "other workers" by 3.9%. On the contrary, the work-days of permanent workers increased by 43.5% and of seasonal workers by 7.6%. In 2013 compared with 2009, the number of work-days of owners and household members increased by 13.5% and of "other workers" by 15.7%. On the contrary, the work-days of permanent workers decreased by 5.5% and of seasonal workers by 14.8% (Table 12b - Annex).

According to Graph 8 in 2016, the family labour force represents 40.5% of the total labour force in agriculture. Seasonal workers accounted for 30.9% of the total, "other workers" for 27.4% and permanent workers for 1.2%.

Graph 8: Percentage distribution of persons employed in agriculture, by category
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

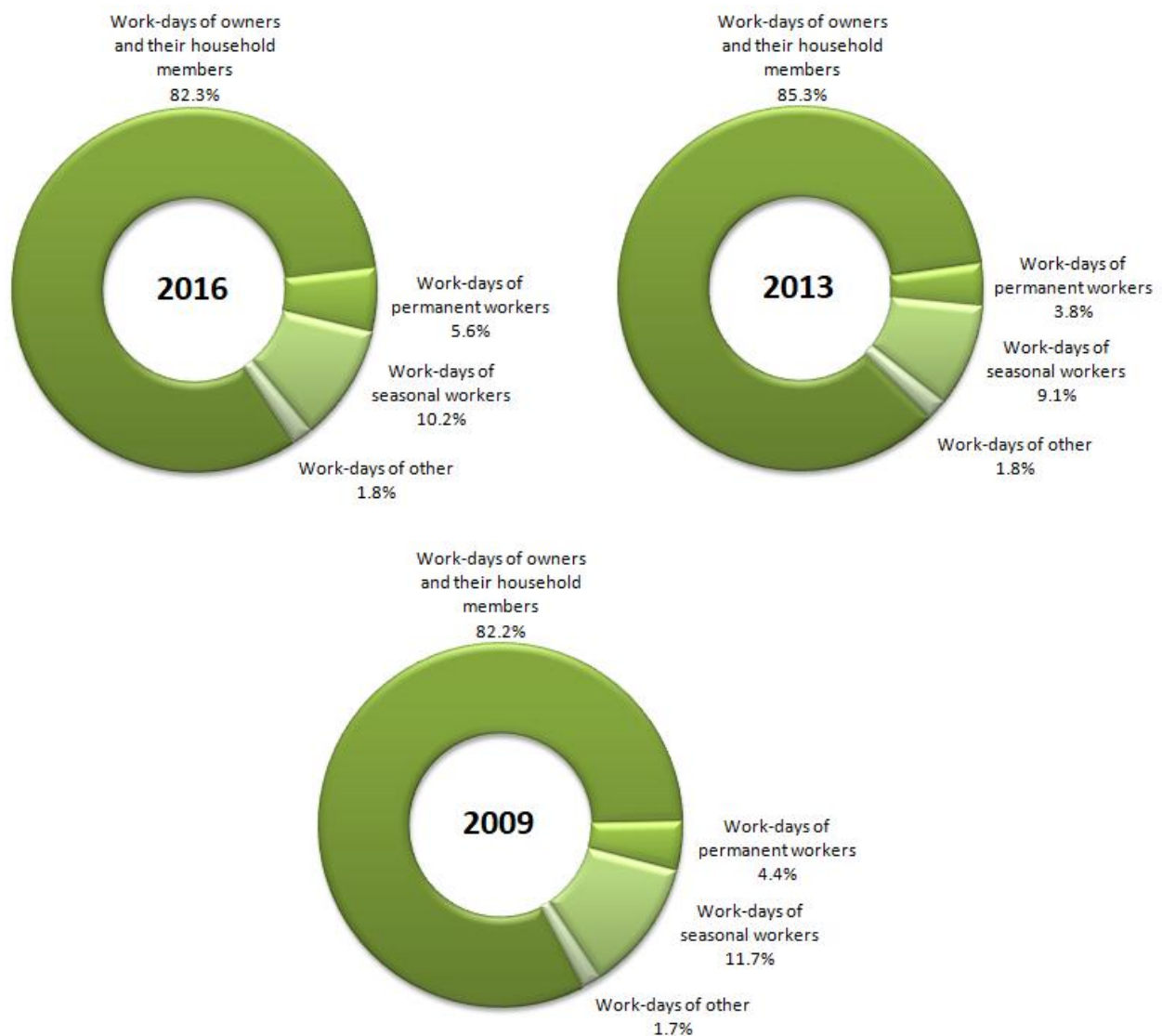


Furthermore in 2016, the family labour force held 82.3% of the total number of work-days in agriculture, while the work-days of seasonal workers accounted for 10.2%, the work-days of permanent workers for 5.6% and of the other employees for 1.8% of the total number of work-days (Graph 9).

As regards the labour scheme of the family labour force, in 2016, 880,277 out of 1,168,324 (75.3%) owners and household members are employed exclusively in agriculture, 24,940 persons (2.1%) are employed mainly in agriculture and 263,107 persons (22.5%) are secondarily employed in agriculture (Table 13a- Annex).

In 2016 compared with 2013, the family labour force employed exclusively and mainly in agriculture decreased by 6.2% and 37.5%, respectively, while the family labour force employed secondarily in agriculture increased by 9.7%. Between 2009 and 2013 the family labour force employed exclusively and mainly in agriculture increased by 7.2% and 10.4%, respectively, while the family labour force employed secondarily in agriculture decreased by 14.1% (Table 13b- Annex).

Graph 9: Percentage distribution of work-days of persons employed in agriculture, by category
 2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys



ANNEX

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

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

In thousand stremmas ⁽¹⁾

Regions (NUTS2)	2009			2013			2016		
	Number of holdings	Thereof with UAA	UAA	Number of holdings	Thereof with UAA	UAA	Number of holdings	Thereof with UAA	UAA
Total	723,007	716,823	34,779	709,449	703,535	33,815	684,902	678,702	31,526
Anatoliki Makedonia and Thraki	53,148	51,952	3,468	52,066	51,219	3,483	51,628	50,683	3,634
Kentriki Makedonia	101,337	100,027	6,420	100,451	99,226	6,819	96,482	95,187	6,289
Dytiki Makedonia	24,230	23,758	2,227	23,857	23,504	2,522	23,089	22,736	2,147
Ipeiros	33,464	33,069	1,041	30,559	29,946	809	29,462	28,764	726
Thessalia	63,456	62,111	3,921	62,467	61,114	4,209	60,323	59,208	3,756
Stereia Ellada	69,660	69,214	3,336	68,095	67,631	2,856	65,859	65,094	2,734
Ionia Nisia	28,972	28,960	769	28,383	28,372	675	27,707	27,700	650
Dytiki Ellada	87,560	87,164	2,977	83,703	83,245	2,719	80,502	80,196	2,480
Peloponnisos	93,188	92,984	3,369	92,162	91,946	3,120	88,410	88,221	2,826
Attiki	26,837	26,614	509	27,032	26,836	508	26,147	25,933	480
Voreio Aigaio	30,197	30,165	1,648	29,661	29,640	1,585	27,971	27,906	1,363
Notio Aigaio	21,493	21,390	992	21,088	21,081	895	20,283	20,114	801
Kriti	89,465	89,415	4,103	89,926	89,774	3,617	87,040	86,961	3,641

⁽¹⁾ 1 stremma = 0.1 ha

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

Table 1b: Change (%) in the number of holdings and utilised agricultural area (UAA), by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009			Change (%) 2016/2013		
	Number of holdings	Thereof with UAA	UAA	Number of holdings	Thereof with UAA	UAA
Total	-1.9	-1.9	-2.8	-3.5	-3.5	-6.8
Anatoliki Makedonia and Thraki	-2.0	-1.4	0.4	-0.8	-1.0	4.3
Kentriki Makedonia	-0.9	-0.8	6.2	-4.0	-4.1	-7.8
Dytiki Makedonia	-1.5	-1.1	13.2	-3.2	-3.3	-14.9
Ipeiros	-8.7	-9.4	-22.3	-3.6	-3.9	-10.3
Thessalia	-1.6	-1.6	7.3	-3.4	-3.1	-10.8
Stereia Ellada	-2.2	-2.3	-14.4	-3.3	-3.8	-4.3
Ionia Nisia	-2.0	-2.0	-12.2	-2.4	-2.4	-3.7
Dytiki Ellada	-4.4	-4.5	-8.7	-3.8	-3.7	-8.8
Peloponnisos	-1.1	-1.1	-7.4	-4.1	-4.1	-9.4
Attiki	0.7	0.8	-0.2	-3.3	-3.4	-5.5
Voreio Aigaio	-1.8	-1.7	-3.8	-5.7	-5.9	-14.0
Notio Aigaio	-1.9	-1.4	-9.8	-3.8	-4.6	-10.5
Kriti	0.5	0.4	-11.8	-3.2	-3.1	0.7

Table 2: Average utilised agricultural area of holdings, by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

In stremmas

Regions (NUTS2)	Average utilised agricultural area			Change (%) 2013/2009	Change (%) 2016/2013
	2009	2013	2016		
Total	48.52	48.06	46.45	-0.9	-3.3
Anatoliki Makedonia and Thraki	66.75	68.00	71.70	1.9	5.4
Kentriki Makedonia	64.18	68.72	66.07	7.1	-3.9
Dytiki Makedonia	93.74	107.30	94.43	14.5	-12.0
Ipeiros	31.48	27.02	25.24	-14.2	-6.6
Thessalia	63.13	68.87	63.44	9.1	-7.9
Stereia Ellada	48.20	42.23	42.00	-12.4	-0.5
Ionia Nisia	26.55	23.79	23.47	-10.4	-1.3
Dytiki Ellada	34.15	32.66	30.92	-4.4	-5.3
Peloponnisos	36.23	33.93	32.03	-6.3	-5.6
Attiki	19.13	18.93	18.51	-1.0	-2.2
Voreio Aigaio	54.63	53.48	48.84	-2.1	-8.7
Notio Aigaio	46.38	42.46	39.82	-8.5	-6.2
Kriti	45.89	40.29	41.87	-12.2	3.9

Table 3a: Number of mixed, agricultural and livestock holdings, by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009				2013				2016			
	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock
Total	723,007	131,988	574,812	16,207	709,449	115,461	575,525	18,463	684,902	105,709	562,965	16,227
Anatoliki Makedonia and Thraki	53,148	9,943	41,674	1,531	52,066	8,751	42,108	1,207	51,628	7,720	42,512	1,396
Kentriki Makedonia	101,337	11,563	87,934	1,840	100,451	9,736	88,908	1,806	96,482	8,847	85,843	1,792
Dytiki Makedonia	24,230	5,278	18,224	728	23,857	4,629	18,596	632	23,089	4,320	18,157	611
Ipeiros	33,464	10,008	20,423	3,033	30,559	8,728	17,846	3,984	29,462	7,281	18,338	3,843
Thessalia	63,456	14,290	46,714	2,452	62,467	11,540	47,878	3,049	60,323	10,051	47,846	2,426
Stereia Ellada	69,660	11,886	56,189	1,585	68,095	9,395	56,996	1,705	65,859	8,676	55,672	1,511
Ionia Nisia	28,972	3,805	24,965	202	28,383	3,318	24,857	208	27,707	2,334	25,233	139
Dytiki Ellada	87,560	23,823	61,993	1,744	83,703	21,051	60,402	2,251	80,502	20,504	58,219	1,778
Peloponnisos	93,188	12,808	79,873	507	92,162	10,901	80,521	740	88,410	9,415	78,475	520
Attiki	26,837	1,440	25,042	355	27,032	1,543	25,172	316	26,147	1,096	24,756	295
Voreio Aigaio	30,197	5,609	23,949	639	29,661	6,004	23,000	657	27,971	5,720	21,700	551
Notio Aigaio	21,493	5,780	15,178	535	21,088	5,518	15,079	491	20,283	5,155	14,594	533
Kriti	89,465	15,755	72,654	1,056	89,926	14,347	74,162	1,417	87,040	14,590	71,619	831

Table 3b: Change (%) in the number of mixed, agricultural and livestock holdings, by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock
Total	-1.9	-12.5	0.1	13.9	-3.5	-8.4	-2.2	-12.1
Anatoliki Makedonia and Thraki	-2.0	-12.0	1.0	-21.2	-0.8	-11.8	1.0	15.7
Kentriki Makedonia	-0.9	-15.8	1.1	-1.8	-4.0	-9.1	-3.4	-0.8
Dytiki Makedonia	-1.5	-12.3	2.0	-13.2	-3.2	-6.7	-2.4	-3.3
Ipeiros	-8.7	-12.8	-12.6	31.4	-3.6	-16.6	2.8	-3.5
Thessalia	-1.6	-19.2	2.5	24.3	-3.4	-12.9	-0.1	-20.4
Stereia Ellada	-2.2	-21.0	1.4	7.6	-3.3	-7.7	-2.3	-11.4
Ionia Nisia	-2.0	-12.8	-0.4	3.0	-2.4	-29.7	1.5	-33.2
Dytiki Ellada	-4.4	-11.6	-2.6	29.1	-3.8	-2.6	-3.6	-21.0
Peloponnisos	-1.1	-14.9	0.8	46.0	-4.1	-13.6	-2.5	-29.7
Attiki	0.7	7.2	0.5	-11.0	-3.3	-29.0	-1.7	-6.6
Voreio Aigaio	-1.8	7.0	-4.0	2.8	-5.7	-4.7	-5.7	-16.1
Notio Aigaio	-1.9	-4.5	-0.7	-8.2	-3.8	-6.6	-3.2	8.6
Kriti	0.5	-8.9	2.1	34.2	-3.2	1.7	-3.4	-41.4

Table 4a: Utilised agricultural area of mixed, agricultural and livestock holdings, by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

In thousand stremmas

Regions (NUTS2)	2009				2013				2016			
	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock
Total	34,779	13,730	19,683	1,366	33,815	11,722	20,910	1,184	31,526	9,886	20,973	666
Anatoliki Makedonia and Thraki	3,468	867	2,582	18	3,483	763	2,697	23	3,634	642	2,978	14
Kentriki Makedonia	6,420	1,356	4,953	110	6,819	1,142	5,539	138	6,289	835	5,448	6
Dytiki Makedonia	2,227	868	1,312	46	2,522	1,034	1,449	39	2,147	665	1,456	26
Ipeiros	1,041	560	318	163	809	432	280	97	726	346	294	86
Thessalia	3,921	1,253	2,576	92	4,209	1,095	2,951	163	3,756	884	2,795	76
Stereia Ellada	3,336	1,263	1,916	157	2,856	843	1,915	98	2,734	635	2,051	48
Ionia Nisia	769	367	339	63	675	309	311	54	650	301	315	35
Dytiki Ellada	2,977	1,731	1,189	57	2,719	1,362	1,295	62	2,480	1,228	1,210	42
Peloponnisos	3,369	1,220	2,086	63	3,120	982	2,095	43	2,826	710	2,090	26
Attiki	509	84	409	17	508	73	404	32	480	57	410	12
Voreio Aigaio	1,648	956	499	192	1,585	955	476	154	1,363	773	478	111
Notio Aigaio	992	693	241	59	895	614	217	65	801	552	195	53
Kriti	4,103	2,510	1,264	329	3,617	2,119	1,282	216	3,641	2,259	1,252	130

Table 4b: Change(%) in the utilised agricultural area of mixed, agricultural and livestock holdings, by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Total	Mixed	Agricultural	Livestock	Total	Mixed	Agricultural	Livestock
Total	-2.8	-14.6	6.2	-13.3	-6.8	-15.7	0.3	-43.8
Anatoliki Makedonia and Thraki	0.4	-12.0	4.5	27.8	4.3	-15.9	10.4	-39.1
Kentriki Makedonia	6.2	-15.8	11.8	25.5	-7.8	-26.9	-1.6	-95.7
Dytiki Makedonia	13.2	19.1	10.4	-15.2	-14.9	-35.7	0.5	-33.3
Ipeiros	-22.3	-22.9	-11.9	-40.5	-10.3	-19.9	5.0	-11.3
Thessalia	7.3	-12.6	14.6	77.2	-10.8	-19.3	-5.3	-53.4
Stereia Ellada	-14.4	-33.3	-0.1	-37.6	-4.3	-24.7	7.1	-51.0
Ionia Nisia	-12.2	-15.8	-8.3	-14.3	-3.7	-2.6	1.3	-35.2
Dytiki Ellada	-8.7	-21.3	8.9	8.8	-8.8	-9.8	-6.6	-32.3
Peloponnisos	-7.4	-19.5	0.4	-31.7	-9.4	-27.7	-0.2	-39.5
Attiki	-0.2	-13.1	-1.2	88.2	-5.5	-21.9	1.5	-62.5
Voreio Aigaio	-3.8	-0.1	-4.6	-19.8	-14.0	-19.1	0.4	-27.9
Notio Aigaio	-9.8	-11.4	-10.0	10.2	-10.5	-10.1	-10.1	-18.5
Kriti	-11.8	-15.6	1.4	-34.3	0.7	6.6	-2.3	-39.8

Table 5a: Distribution of holdings, by basic categories of land use and by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009				2013				2016			
	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾
Total	291,354	131,753	520,813	263,546	280,917	103,052	502,909	249,768	266,209	97,792	497,745	237,199
Anatoliki Makedonia and Thraki	41,650	4,678	14,491	25,794	41,501	4,205	13,793	23,787	40,478	4,092	15,283	24,392
Kentriki Makedonia	69,808	7,022	49,114	29,014	69,503	5,669	47,726	27,666	64,355	6,329	49,773	27,302
Dytiki Makedonia	19,731	5,636	4,576	12,488	20,071	4,423	4,237	13,870	19,522	4,304	4,679	12,844
Ipeiros	13,963	3,281	21,673	18,263	10,544	1,283	19,403	15,851	10,587	1,793	19,123	14,648
Thessalia	42,597	7,938	25,444	26,127	41,923	5,832	23,626	24,983	40,182	5,317	24,510	24,303
Stereia Ellada	25,899	11,373	56,966	25,373	25,351	7,247	53,547	20,701	23,356	6,757	53,736	19,103
Ionia Nisia	9,005	9,508	28,225	14,706	5,689	6,541	27,558	12,349	5,035	6,216	26,710	10,736
Dytiki Ellada	28,370	15,389	75,111	34,778	26,290	12,079	69,790	36,731	26,163	9,934	67,874	33,214
Peloponnisos	12,601	17,855	88,902	24,005	11,095	14,892	87,475	23,791	9,950	12,963	84,262	18,398
Attiki	3,073	6,275	24,410	3,389	3,024	5,192	24,719	2,756	2,484	5,310	24,350	2,310
Voreio Aigaio	4,593	5,651	27,314	10,182	4,733	4,734	27,086	10,257	5,395	4,669	25,542	10,567
Notio Aigaio	7,347	6,233	17,836	8,985	7,268	4,769	17,511	7,843	6,737	4,655	17,133	7,721
Kriti	12,717	30,914	86,751	30,442	13,926	26,187	86,439	29,184	11,966	25,454	84,770	31,662

⁽¹⁾ Fallow land is not included.⁽²⁾ Included: kitchen gardens, permanent grassland, rough grazing land, nurseries and other permanent crops and fallow land.

Table 5b: Change (%) in the distribution of holdings, by basic categories of land use and by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾
Total	-3.6	-21.8	-3.4	-5.2	-5.2	-5.1	-1.0	-5.0
Anatoliki Makedonia and Thraki	-0.4	-10.1	-4.8	-7.8	-2.5	-2.7	10.8	2.5
Kentriki Makedonia	-0.4	-19.3	-2.8	-4.6	-7.4	11.6	4.3	-1.3
Dytiki Makedonia	1.7	-21.5	-7.4	11.1	-2.7	-2.7	10.4	-7.4
Ipeiros	-24.5	-60.9	-10.5	-13.2	0.4	39.8	-1.4	-7.6
Thessalia	-1.6	-26.5	-7.1	-4.4	-4.2	-8.8	3.7	-2.7
Stereia Ellada	-2.1	-36.3	-6.0	-18.4	-7.9	-6.8	0.4	-7.7
Ionia Nisia	-36.8	-31.2	-2.4	-16.0	-11.5	-5.0	-3.1	-13.1
Dytiki Ellada	-7.3	-21.5	-7.1	5.6	-0.5	-17.8	-2.7	-9.6
Peloponnisos	-12.0	-16.6	-1.6	-0.9	-10.3	-13.0	-3.7	-22.7
Attiki	-1.6	-17.3	1.3	-18.7	-17.9	2.3	-1.5	-16.2
Voreio Aigaio	3.0	-16.2	-0.8	0.7	14.0	-1.4	-5.7	3.0
Notio Aigaio	-1.1	-23.5	-1.8	-12.7	-7.3	-2.4	-2.2	-1.6
Kriti	9.5	-15.3	-0.4	-4.1	-14.1	-2.8	-1.9	8.5

⁽¹⁾ Fallow land is not included.⁽²⁾ Included: kitchen gardens, permanent grassland, rough grazing land, nurseries and other permanent crops and fallow land.

Table 6a: Distribution of utilised agricultural area, by basic categories of land use and by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

In thousand stremmas

Regions (NUTS2)	2009				2013				2016			
	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾
Total	16,169	863	8,613	9,134	16,764	800	8,462	7,789	16,353	736	8,497	5,939
Anatoliki Makedonia and Thraki	2,859	41	160	408	2,857	41	166	419	3,062	40	175	357
Kentriki Makedonia	4,760	53	864	744	5,168	51	946	654	4,979	55	978	277
Dytiki Makedonia	1,628	22	60	517	1,739	20	64	699	1,721	21	72	333
Ipeiros	306	7	281	447	285	4	243	276	256	4	248	217
Thessalia	2,970	42	429	480	3,172	38	433	565	2,883	37	466	369
Stereia Ellada	1,494	57	811	975	1,431	48	758	618	1,472	45	782	436
Ionia Nisia	61	35	346	328	62	27	310	276	59	25	304	262
Dytiki Ellada	1,106	134	976	761	1,084	141	952	542	1,020	118	936	406
Peloponnisos	350	212	2,130	678	315	198	2,064	543	274	168	2,064	320
Attiki	100	51	283	76	95	49	291	72	82	54	300	43
Voreio Aigaio	150	24	583	892	157	20	594	814	161	20	546	636
Notio Aigaio	226	31	172	563	216	25	167	487	184	25	142	449
Kriti	161	155	1,521	2,266	183	138	1,474	1,821	199	123	1,484	1,835

⁽¹⁾ Fallow land is not included.⁽²⁾ Included: kitchen gardens, permanent grassland, rough grazing land, nurseries and other permanent crops and fallow land.

Table 6b: Change (%) in the distribution of utilised agricultural area, by basic categories of land use and by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾	Annual crops ⁽¹⁾	Vineyards (grapes and raisins)	Areas under trees	Other areas ⁽²⁾
Total	3.7	-7.3	-1.8	-14.7	-2.5	-8.0	0.4	-23.8
Anatoliki Makedonia and Thraki	-0.1	0.0	3.8	2.7	7.2	-2.4	5.4	-14.8
Kentriki Makedonia	8.6	-3.8	9.5	-12.1	-3.7	7.8	3.4	-57.6
Dytiki Makedonia	6.8	-9.1	6.7	35.2	-1.0	5.0	12.5	-52.4
Ipeiros	-6.9	-42.9	-13.5	-38.3	-10.2	0.0	2.1	-21.4
Thessalia	6.8	-9.5	0.9	17.7	-9.1	-2.6	7.6	-34.7
Stereia Ellada	-4.2	-15.8	-6.5	-36.6	2.9	-6.3	3.2	-29.4
Ionia Nisia	1.6	-22.9	-10.4	-15.9	-4.8	-7.4	-1.9	-5.1
Dytiki Ellada	-2.0	5.2	-2.5	-28.8	-5.9	-16.3	-1.7	-25.1
Peloponnisos	-10.0	-6.6	-3.1	-19.9	-13.0	-15.2	0.0	-41.1
Attiki	-5.0	-3.9	2.8	-5.3	-13.7	10.2	3.1	-40.3
Voreio Aigaio	4.7	-16.7	1.9	-8.7	2.5	0.0	-8.1	-21.9
Notio Aigaio	-4.4	-19.4	-2.9	-13.5	-14.8	0.0	-15.0	-7.8
Kriti	13.7	-11.0	-3.1	-19.6	8.7	-10.9	0.7	0.8

⁽¹⁾ Fallow land is not included.⁽²⁾ Included: kitchen gardens, permanent grassland, rough grazing land, nurseries and other permanent crops and fallow land.

Table 7a: Holdings with irrigated areas, by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

In thousand stremmas

Regions (NUTS2)	2009					2013					2016				
	Holdings		Thereof with irrigated areas			Holdings		Thereof with irrigated areas			Holdings		Thereof with irrigated areas		
	Total	UAA ⁽¹⁾	Holdings	Total UAA ⁽¹⁾	Irrigated	Total	UAA ⁽¹⁾	Holdings	Total UAA ⁽¹⁾	Irrigated	Total	UAA ⁽¹⁾	Holdings	Total UAA ⁽¹⁾	Irrigated
Total	723,007	30,169	484,607	22,893	10,386	709,449	29,780	496,149	23,554	11,779	684,902	28,203	432,472	21,262	10,749
Anatoliki Makedonia and Thraki	53,148	3,410	44,146	3,078	1,480	52,066	3,460	44,828	3,206	1,696	51,628	3,605	41,014	3,124	1,538
Kentriki Makedonia	101,337	6,384	76,368	4,752	2,574	100,451	6,811	78,958	5,227	3,027	96,482	6,278	71,839	4,869	2,886
Dytiki Makedonia	24,230	2,220	14,993	1,488	360	23,857	2,173	15,483	1,605	382	23,089	2,012	14,602	1,416	473
Ipeiros	33,464	866	25,270	702	331	30,559	711	24,075	608	327	29,462	676	20,124	496	278
Thessalia	63,456	3,817	49,813	3,308	1,681	62,467	4,052	50,202	3,557	2,140	60,323	3,687	46,467	3,160	1,800
Stereia Ellada	69,660	2,905	37,733	2,097	941	68,095	2,721	46,116	2,224	1,112	65,859	2,580	33,183	1,878	990
Ionia Nisia	28,972	589	15,696	348	27	28,383	539	13,943	300	28	27,707	477	11,642	222	18
Dytiki Ellada	87,560	2,752	57,611	2,069	976	83,703	2,624	60,822	2,170	1,123	80,502	2,377	52,230	1,803	872
Peloponnisos	93,188	3,125	57,296	2,200	926	92,162	2,819	55,828	1,946	898	88,410	2,727	47,569	1,746	903
Attiki	26,837	478	12,892	258	101	27,032	471	12,280	268	117	26,147	474	9,697	214	97
Voreio Aigaio	30,197	981	11,636	470	58	29,661	867	14,394	454	87	27,971	834	12,308	449	73
Notio Aigaio	21,493	603	12,104	392	63	21,088	499	12,003	324	71	20,283	461	9,642	282	50
Kriti	89,465	2,041	69,049	1,731	868	89,926	2,033	67,216	1,665	770	87,040	2,014	62,154	1,604	771

⁽¹⁾ Rough grazing land is not included.

Table 7b: Change (%) of holdings with irrigated areas, by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009		Change (%) 2016/2013	
	Holdings with irrigated areas		Holdings with irrigated areas	
	Holdings	Irrigated	Holdings	Irrigated
Total	2.4	13.4	-12.8	-8.7
Anatoliki Makedonia and Thraki	1.5	14.6	-8.5	-9.3
Kentriki Makedonia	3.4	17.6	-9.0	-4.7
Dytiki Makedonia	3.3	6.1	-5.7	23.8
Ipeiros	-4.7	-1.2	-16.4	-15.0
Thessalia	0.8	27.3	-7.4	-15.9
Stereia Ellada	22.2	18.2	-28.0	-11.0
Ionia Nisia	-11.2	3.7	-16.5	-35.7
Dytiki Ellada	5.6	15.1	-14.1	-22.4
Peloponnisos	-2.6	-3.0	-14.8	0.6
Attiki	-4.7	15.8	-21.0	-17.1
Voreio Aigaio	23.7	50.0	-14.5	-16.1
Notio Aigaio	-0.8	12.7	-19.7	-29.6
Kriti	-2.7	-11.3	-7.5	0.1

Table 8a: Holdings with animals, by kind of animal and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009					2013					2016				
	Bovine	Sheep	Goats	Pigs	Poultry	Bovine	Sheep	Goats	Pigs	Poultry	Bovine	Sheep	Goats	Pigs	Poultry
Total	16,679	91,933	71,585	19,332	215,373	15,899	94,448	68,274	18,941	189,252	14,699	86,030	64,049	17,829	176,837
Anatoliki Makedonia and Thraki	3,373	4,220	2,877	1,152	19,839	3,244	4,241	2,762	1,019	17,342	2,946	3,897	2,627	934	13,562
Kentriki Makedonia	3,140	5,422	4,194	1,514	22,108	2,809	5,245	3,612	1,351	13,634	2,642	4,798	3,482	952	13,968
Dytiki Makedonia	1,369	2,887	2,270	1,714	8,440	1,278	2,970	2,057	1,232	8,014	1,099	2,645	1,949	795	6,764
Ipeiros	1,103	9,834	5,317	571	15,614	1,234	9,673	5,360	506	12,569	1,103	8,499	4,261	327	10,505
Thessalia	1,548	9,392	4,930	1,901	24,539	1,657	9,886	5,006	1,557	19,744	1,564	8,251	4,201	1,332	18,589
Stereia Ellada	723	9,163	7,590	1,578	16,842	655	8,374	6,527	1,469	12,963	573	7,877	6,428	890	9,689
Ionia Nisia	407	2,490	2,961	553	9,965	328	2,343	2,720	492	9,915	274	1,761	2,118	349	7,832
Dytiki Ellada	1,742	17,974	11,534	3,911	36,708	1,728	19,019	10,664	3,379	34,780	1,591	17,855	12,122	5,695	38,538
Peloponnisos	903	8,198	8,203	1,278	23,168	768	8,388	7,708	1,516	21,714	920	7,281	6,265	952	17,264
Attiki	106	989	748	139	1,660	71	1,025	801	164	1,954	53	801	611	159	1,991
Voreio Aigaio	707	4,467	4,008	1,402	7,650	727	5,145	4,116	2,136	8,269	551	4,670	3,606	1,798	8,698
Notio Aigaio	1,349	3,698	4,678	1,837	6,118	1,309	3,594	4,426	1,965	6,358	1,183	3,498	4,125	1,675	5,557
Kriti	209	13,199	12,275	1,782	22,722	91	14,545	12,514	2,155	21,994	200	14,196	12,254	1,971	23,881

Table 8b: Change (%) in the number of holdings with animals, by kind of animal and by region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009					Change (%) 2016/2013				
	Bovine	Sheep	Goats	Pigs	Poultry	Bovine	Sheep	Goats	Pigs	Poultry
Total	-4.7	2.7	-4.6	-2.0	-12.1	-7.5	-8.9	-6.2	-5.9	-6.6
Anatoliki Makedonia and Thraki	-3.8	0.5	-4.0	-11.5	-12.6	-9.2	-8.1	-4.9	-8.3	-21.8
Kentriki Makedonia	-10.5	-3.3	-13.9	-10.8	-38.3	-5.9	-8.5	-3.6	-29.5	2.4
Dytiki Makedonia	-6.6	2.9	-9.4	-28.1	-5.0	-14.0	-10.9	-5.3	-35.5	-15.6
Ipeiros	11.9	-1.6	0.8	-11.4	-19.5	-10.6	-12.1	-20.5	-35.4	-16.4
Thessalia	7.0	5.3	1.5	-18.1	-19.5	-5.6	-16.5	-16.1	-14.5	-5.8
Stereia Ellada	-9.4	-8.6	-14.0	-6.9	-23.0	-12.5	-5.9	-1.5	-39.4	-25.3
Ionia Nisia	-19.4	-5.9	-8.1	-11.0	-0.5	-16.5	-24.8	-22.1	-29.1	-21.0
Dytiki Ellada	-0.8	5.8	-7.5	-13.6	-5.3	-7.9	-6.1	13.7	68.5	10.8
Peloponnisos	-15.0	2.3	-6.0	18.6	-6.3	19.8	-13.2	-18.7	-37.2	-20.5
Attiki	-33.0	3.6	7.1	18.0	17.7	-25.4	-21.9	-23.7	-3.0	1.9
Voreio Aigaio	2.8	15.2	2.7	52.4	8.1	-24.2	-9.2	-12.4	-15.8	5.2
Notio Aigaio	-3.0	-2.8	-5.4	7.0	3.9	-9.6	-2.7	-6.8	-14.8	-12.6
Kriti	-56.5	10.2	1.9	20.9	-3.2	119.8	-2.4	-2.1	-8.5	8.6

Table 9a: Number of animals, by kind and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009					2013					2016				
	Bovine	Sheep	Goats	Pigs	Poultry	Bovine	Sheep	Goats	Pigs	Poultry	Bovine	Sheep	Goats	Pigs	Poultry
Total	648,067	9,156,821	4,213,230	947,222	36,767,565	614,992	8,686,117	3,654,793	767,958	27,882,413	615,123	8,227,631	3,541,675	769,127	30,385,557
Anatoliki Makedonia and Thraki	107,067	626,511	426,058	81,681	920,948	100,580	585,760	368,533	56,868	820,448	92,762	539,302	360,338	70,812	395,771
Kentriki Makedonia	186,766	892,252	521,445	140,730	9,888,246	164,503	815,981	478,325	125,109	5,966,671	168,859	741,831	442,724	84,527	7,343,638
Dytiki Makedonia	40,230	400,301	163,732	22,209	307,141	35,502	384,392	146,981	16,025	239,064	37,019	366,202	160,611	12,832	300,714
Ipeiros	61,368	805,156	198,690	108,429	10,588,644	60,585	622,393	156,696	132,814	8,323,766	61,211	559,771	149,790	125,545	9,829,539
Thessalia	110,694	1,197,979	413,217	211,450	1,215,041	117,763	1,211,464	408,252	146,749	1,712,708	120,157	1,134,925	330,391	123,474	624,606
Stereia Ellada	27,727	547,925	371,849	100,037	2,929,127	24,905	511,263	306,062	71,765	1,729,717	25,549	496,464	284,988	94,276	3,256,878
Ionia Nisia	5,523	123,701	120,445	4,259	307,402	4,256	116,256	112,663	1,929	217,385	3,572	103,703	111,303	1,498	147,676
Dytiki Ellada	59,097	1,478,883	476,381	121,809	1,647,280	62,895	1,511,280	448,996	101,497	1,662,109	62,947	1,444,118	476,681	139,980	1,474,642
Peloponnisos	17,005	508,201	517,081	78,321	1,368,105	13,533	448,194	393,976	53,838	1,182,831	17,988	407,552	375,250	59,166	1,446,227
Attiki	4,361	80,195	39,611	6,504	5,141,997	3,240	83,805	33,672	3,281	3,579,529	2,284	69,843	22,538	3,361	3,623,791
Voreio Aigaio	8,755	428,037	105,747	8,304	281,987	9,048	485,001	107,680	9,239	211,106	6,279	453,592	114,332	5,579	172,939
Notio Aigaio	17,071	190,000	226,451	16,751	353,181	16,362	168,257	200,865	13,450	277,037	14,832	168,800	203,216	8,414	232,186
Kriti	2,403	1,877,680	632,523	46,738	1,818,466	1,819	1,742,072	492,092	35,395	1,960,044	1,663	1,741,529	509,514	39,664	1,536,952

Table 9b: Change (%) in the number of animals, by kind and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009					Change (%) 2016/2013				
	Bovine	Sheep	Goats	Pigs	Poultry	Bovine	Sheep	Goats	Pigs	Poultry
Total	-5.1	-5.1	-13.3	-18.9	-24.2	0.0	-5.3	-3.1	0.2	9.0
Anatoliki Makedonia and Thraki	-6.1	-6.5	-13.5	-30.4	-10.9	-7.8	-7.9	-2.2	24.5	-51.8
Kentriki Makedonia	-11.9	-8.5	-8.3	-11.1	-39.7	2.6	-9.1	-7.4	-32.4	23.1
Dytiki Makedonia	-11.8	-4.0	-10.2	-27.8	-22.2	4.3	-4.7	9.3	-19.9	25.8
Ipeiros	-1.3	-22.7	-21.1	22.5	-21.4	1.0	-10.1	-4.4	-5.5	18.1
Thessalia	6.4	1.1	-1.2	-30.6	41.0	2.0	-6.3	-19.1	-15.9	-63.5
Stereia Ellada	-10.2	-6.7	-17.7	-28.3	-40.9	2.6	-2.9	-6.9	31.4	88.3
Ionia Nisia	-22.9	-6.0	-6.5	-54.7	-29.3	-16.1	-10.8	-1.2	-22.3	-32.1
Dytiki Ellada	6.4	2.2	-5.7	-16.7	0.9	0.1	-4.4	6.2	37.9	-11.3
Peloponnisos	-20.4	-11.8	-23.8	-31.3	-13.5	32.9	-9.1	-4.8	9.9	22.3
Attiki	-25.7	4.5	-15.0	-49.6	-30.4	-29.5	-16.7	-33.1	2.4	1.2
Voreio Aigaio	3.3	13.3	1.8	11.3	-25.1	-30.6	-6.5	6.2	-39.6	-18.1
Notio Aigaio	-4.2	-11.4	-11.3	-19.7	-21.6	-9.4	0.3	1.2	-37.4	-16.2
Kriti	-24.3	-7.2	-22.2	-24.3	7.8	-8.6	0.0	3.5	12.1	-21.6

Table 10: Holdings and livestock units (LSU), by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009		2013		2016		Change (%) 2013/2009		Change (%) 2016/2013	
	Holdings	LSU	Holdings	LSU	Holdings	LSU	Holdings	LSU	Holdings	LSU
Total	268,214	2,406,842	251,486	2,142,977	234,073	2,049,976	-6.2	-11.0	-6.9	-4.3
Anatoliki Makedonia and Thraki	24,916	217,125	22,886	192,952	18,354	171,566	-8.1	-11.1	-19.8	-11.1
Kentriki Makedonia	29,412	407,047	21,786	336,689	21,236	324,670	-25.9	-17.3	-2.5	-3.6
Dytiki Makedonia	10,907	97,924	10,618	87,927	9,486	87,562	-2.6	-10.2	-10.7	-0.4
Ipeiros	19,403	257,244	17,496	221,298	15,803	218,601	-9.8	-14.0	-9.7	-1.2
Thessalia	29,912	305,546	26,888	296,272	24,089	256,606	-10.1	-3.0	-10.4	-13.4
Stereia Ellada	21,620	165,962	18,321	134,363	15,944	133,726	-15.3	-19.0	-13.0	-0.5
Ionia Nisia	11,222	33,576	11,357	29,474	8,920	26,328	1.2	-12.2	-21.5	-10.7
Dytiki Ellada	42,567	289,448	42,590	280,933	44,645	282,414	0.1	-2.9	4.8	0.5
Peloponnisos	27,055	150,614	26,146	120,839	22,081	121,655	-3.4	-19.8	-15.5	0.7
Attiki	2,530	68,299	2,978	54,369	2,667	51,919	17.7	-20.4	-10.4	-4.5
Voreio Aigaio	10,423	67,360	11,378	72,259	11,511	66,274	9.2	7.3	1.2	-8.3
Notio Aigaio	8,081	65,410	8,516	57,143	7,690	54,035	5.4	-12.6	-9.7	-5.4
Kriti	30,166	281,287	30,515	258,436	31,646	254,619	1.2	-8.1	3.7	-1.5

Table 11a: Number of persons employed in agriculture, by category and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009				2013				2016			
	Owners and their household members employed in the holdings	Permanent workers	Seasonal workers	Other workers (mutual assistance and piece-rate)	Owners and their household members employed in the holdings	Permanent workers	Seasonal workers	Other workers (mutual assistance and piece-rate)	Owners and their household members employed in the holdings	Permanent workers	Seasonal workers	Other workers (mutual assistance and piece-rate)
Total	1,191,006	26,207	1,036,524	1,019,653	1,218,274	25,014	895,610	769,802	1,168,324	33,826	891,798	789,204
Anatoliki Makedonia and Thraki	94,846	2,104	69,264	116,196	97,498	2,159	70,789	87,408	92,257	2,526	63,292	89,961
Kentriki Makedonia	166,678	6,419	134,323	204,555	175,356	4,964	147,282	157,637	160,036	7,728	150,720	134,076
Dytiki Makedonia	40,889	1,364	11,741	66,310	42,052	1,267	11,858	41,956	41,149	1,385	18,391	42,564
Ipeiros	52,530	1,239	31,333	41,721	51,683	874	24,023	29,906	47,665	1,076	23,418	30,413
Thessalia	104,484	2,728	71,151	127,630	110,555	2,495	63,042	103,442	103,233	3,165	66,245	104,415
Stereia Ellada	114,414	1,750	116,364	95,298	111,908	1,235	81,347	57,482	110,924	2,800	84,001	53,806
Ionia Nisia	45,891	589	20,074	7,569	43,750	240	22,511	11,992	42,651	249	14,476	7,947
Dytiki Ellada	139,605	1,595	177,124	75,553	140,837	1,986	152,422	64,170	133,844	3,483	142,370	64,532
Peloponnisos	155,537	2,511	191,681	192,458	160,703	2,195	149,211	131,178	146,870	3,188	168,832	175,566
Attiki	44,212	3,089	39,333	11,838	44,064	3,536	29,687	13,679	47,213	2,502	27,229	9,595
Voreio Aigaio	47,697	319	24,923	13,309	49,222	984	18,069	8,301	45,161	800	14,095	4,977
Notio Aigaio	36,293	301	7,997	8,958	36,311	297	16,640	13,273	35,010	547	8,972	9,375
Kriti	147,930	2,199	141,216	58,258	154,333	2,782	108,728	49,377	162,311	4,377	109,757	61,977

Table 11b: Change (%) in the number of persons employed in agriculture, by category and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Owners and their household members employed in the holdings	Permanent workers	Seasonal workers	Other workers (mutual assistance and piece-rate)	Owners and their household members employed in the holdings	Permanent workers	Seasonal workers	Other workers (mutual assistance and piece-rate)
Total	2.3	-4.6	-13.6	-24.5	-4.1	35.2	-0.4	2.5
Anatoliki Makedonia and Thraki	2.8	2.6	2.2	-24.8	-5.4	17.0	-10.6	2.9
Kentriki Makedonia	5.2	-22.7	9.6	-22.9	-8.7	55.7	2.3	-14.9
Dytiki Makedonia	2.8	-7.1	1.0	-36.7	-2.1	9.3	55.1	1.4
Ipeiros	-1.6	-29.5	-23.3	-28.3	-7.8	23.1	-2.5	1.7
Thessalia	5.8	-8.5	-11.4	-19.0	-6.6	26.9	5.1	0.9
Stereia Ellada	-2.2	-29.4	-30.1	-39.7	-0.9	126.7	3.3	-6.4
Ionia Nisia	-4.7	-59.3	12.1	58.4	-2.5	3.8	-35.7	-33.7
Dytiki Ellada	0.9	24.5	-13.9	-15.1	-5.0	75.4	-6.6	0.6
Peloponnisos	3.3	-12.6	-22.2	-31.8	-8.6	45.2	13.1	33.8
Attiki	-0.3	14.5	-24.5	15.6	7.1	-29.2	-8.3	-29.9
Voreio Aigaio	3.2	208.5	-27.5	-37.6	-8.3	-18.7	-22.0	-40.0
Notio Aigaio	0.0	-1.3	108.1	48.2	-3.6	84.2	-46.1	-29.4
Kriti	4.3	26.5	-23.0	-15.2	5.2	57.3	0.9	25.5

Table 12a: Number of work-days of persons employed in agriculture, by category and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009				2013				2016			
	Number of work-days of owners and their household members employed in the holdings	Number of work-days of permanent workers	Number of work-days of seasonal workers	Number of work-days of other workers (mutual assistance and piece-rate)	Number of work-days of owners and their household members employed in the holdings	Number of work-days of permanent workers	Number of work-days of seasonal workers	Number of work-days of other workers (mutual assistance and piece-rate)	Number of work-days of owners and their household members employed in the holdings	Number of work-days of permanent workers	Number of work-days of seasonal workers	Number of work-days of other workers (mutual assistance and piece-rate)
Total	102,823,559	5,464,108	14,658,407	2,175,954	116,681,559	5,162,620	12,483,833	2,518,368	108,111,425	7,407,778	13,430,657	2,419,644
Anatoliki Makedonia and Thraki	10,286,025	492,408	937,656	165,389	11,613,237	442,248	812,583	194,951	10,714,543	614,509	830,116	203,827
Kentriki Makedonia	15,654,517	1,298,624	2,861,925	293,293	18,579,256	1,035,800	2,672,960	541,165	17,210,138	1,669,872	2,857,865	340,368
Dytiki Makedonia	3,530,265	335,275	274,852	83,729	4,149,269	260,405	182,044	80,252	3,929,245	329,340	318,371	130,955
Ipeiros	6,206,740	266,108	338,844	81,592	6,675,084	207,225	290,890	106,506	5,747,102	259,874	312,043	111,299
Thessalia	9,450,064	604,964	1,026,834	143,023	11,410,558	577,336	1,030,765	197,050	10,256,401	777,422	1,534,724	173,909
Stereia Ellada	7,626,466	350,239	1,192,562	155,339	9,019,609	268,282	1,062,560	178,699	9,072,017	556,900	975,090	169,581
Ionia Nisia	3,885,642	88,606	331,505	32,692	3,056,994	47,403	290,129	69,571	3,027,819	47,585	233,944	21,734
Dytiki Ellada	12,325,569	296,619	2,437,617	246,766	14,292,927	361,473	2,120,164	206,129	13,013,405	817,996	1,631,088	252,423
Peloponnisos	12,737,785	415,809	2,577,524	518,684	14,152,719	359,463	1,814,964	498,999	12,493,278	684,430	2,733,878	505,352
Attiki	2,103,455	767,678	409,537	65,353	2,431,161	867,032	355,663	44,363	2,238,376	505,164	304,230	64,926
Voreio Aigaio	3,728,296	63,878	385,506	122,463	4,576,994	140,497	365,121	95,353	4,190,742	130,067	251,312	70,775
Notio Aigaio	3,147,369	66,455	100,973	82,968	2,891,297	63,523	246,775	70,218	3,187,925	126,318	118,857	62,084
Kriti	12,141,366	417,445	1,783,072	184,665	13,832,455	531,935	1,239,214	235,113	13,030,434	888,302	1,329,140	312,412

Table 12b: Change (%) in the number of work-days of persons employed in agriculture, by category and by region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Number of work-days of owners and their household members employed in the holdings	Number of work-days of permanent workers	Number of work-days of seasonal workers	Number of work-days of other workers (mutual assistance and piece-rate)	Number of work-days of owners and their household members employed in the holdings	Number of work-days of permanent workers	Number of work-days of seasonal workers	Number of work-days of other workers (mutual assistance and piece-rate)
Total	13.5	-5.5	-14.8	15.7	-7.3	43.5	7.6	-3.9
Anatoliki Makedonia and Thraki	12.9	-10.2	-13.3	17.9	-7.7	39.0	2.2	4.6
Kentriki Makedonia	18.7	-20.2	-6.6	84.5	-7.4	61.2	6.9	-37.1
Dytiki Makedonia	17.5	-22.3	-33.8	-4.2	-5.3	26.5	74.9	63.2
Ipeiros	7.5	-22.1	-14.2	30.5	-13.9	25.4	7.3	4.5
Thessalia	20.7	-4.6	0.4	37.8	-10.1	34.7	48.9	-11.7
Stereia Ellada	18.3	-23.4	-10.9	15.0	0.6	107.6	-8.2	-5.1
Ionia Nisia	-21.3	-46.5	-12.5	112.8	-1.0	0.4	-19.4	-68.8
Dytiki Ellada	16.0	21.9	-13.0	-16.5	-9.0	126.3	-23.1	22.5
Peloponnisos	11.1	-13.6	-29.6	-3.8	-11.7	90.4	50.6	1.3
Attiki	15.6	12.9	-13.2	-32.1	-7.9	-41.7	-14.5	46.4
Voreio Aigaio	22.8	119.9	-5.3	-22.1	-8.4	-7.4	-31.2	-25.8
Notio Aigaio	-8.1	-4.4	144.4	-15.4	10.3	98.9	-51.8	-11.6
Kriti	13.9	27.4	-30.5	27.3	-5.8	67.0	7.3	32.9

Table 13a: Employment of owners and their household members in agriculture, by category and region
2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	2009				2013				2016			
	Owners and their household members employed in the holdings	Thereof, employed in the owner's holdings			Owners and their household members employed in the holdings	Thereof, employed in the owner's holdings			Owners and their household members employed in the holdings	Thereof, employed in the owner's holdings		
		Exclusively	Mainly	Secondarily		Exclusively	Mainly	Secondarily		Exclusively	Mainly	Secondarily
Total	1,191,006	875,563	36,164	279,279	1,218,274	938,526	39,931	239,816	1,168,324	880,277	24,940	263,107
Anatoliki Makedonia and Thraki	94,846	74,482	3,282	17,082	97,498	80,224	2,930	14,344	92,257	75,023	1,486	15,748
Kentriki Makedonia	166,678	128,064	6,796	31,818	175,356	141,223	7,214	26,919	160,036	127,067	5,289	27,680
Dytiki Makedonia	40,889	30,494	1,769	8,626	42,052	32,212	1,814	8,026	41,149	32,000	1,190	7,960
Ipeiros	52,530	42,586	1,669	8,275	51,683	43,216	1,010	7,457	47,665	38,914	718	8,033
Thessalia	104,484	80,663	4,251	19,570	110,555	89,022	4,623	16,910	103,233	82,682	2,532	18,019
Stereia Ellada	114,414	82,404	3,188	28,822	111,908	84,327	2,543	25,038	110,924	83,846	1,290	25,787
Ionia Nisia	45,891	31,006	1,221	13,664	43,750	33,610	874	9,266	42,651	29,646	835	12,170
Dytiki Ellada	139,605	105,584	3,161	30,860	140,837	110,090	3,959	26,789	133,844	106,364	1,791	25,688
Peloponnisos	155,537	117,046	3,962	34,529	160,703	122,301	4,929	33,472	146,870	112,239	3,831	30,800
Attiki	44,212	28,328	629	15,255	44,064	30,599	1,477	11,988	47,213	30,852	1,012	15,349
Voreio Aigaio	47,697	34,235	1,112	12,350	49,222	36,346	1,547	11,329	45,161	31,679	1,098	12,384
Notio Aigaio	36,293	22,462	1,210	12,621	36,311	24,869	1,527	9,915	35,010	21,871	479	12,660
Kriti	147,930	98,209	3,914	45,807	154,333	110,485	5,484	38,363	162,311	108,093	3,389	50,829

Table 13b: Change (%) in employment of owners and their household members in agriculture, by category and region

2009 Agricultural – Livestock Census and 2013 and 2016 Farm Structure Surveys

Regions (NUTS2)	Change (%) 2013/2009				Change (%) 2016/2013			
	Owners and their household members employed in the holdings	Thereof, employed in the owner's holdings			Owners and their household members employed in the holdings	Thereof, employed in the owner's holdings		
		Exclusively	Mainly	Secondarily		Exclusively	Mainly	Secondarily
Total	2.3	7.2	10.4	-14.1	-4.1	-6.2	-37.5	9.7
Anatoliki Makedonia and Thraki	2.8	7.7	-10.7	-16.0	-5.4	-6.5	-49.3	9.8
Kentriki Makedonia	5.2	10.3	6.2	-15.4	-8.7	-10.0	-26.7	2.8
Dytiki Makedonia	2.8	5.6	2.5	-7.0	-2.1	-0.7	-34.4	-0.8
Ipeiros	-1.6	1.5	-39.5	-9.9	-7.8	-10.0	-28.9	7.7
Thessalia	5.8	10.4	8.8	-13.6	-6.6	-7.1	-45.2	6.6
Stereia Ellada	-2.2	2.3	-20.2	-13.1	-0.9	-0.6	-49.3	3.0
Ionian Islands	-4.7	8.4	-28.4	-32.2	-2.5	-11.8	-4.5	31.3
Dytiki Ellada	0.9	4.3	25.2	-13.2	-5.0	-3.4	-54.8	-4.1
Peloponnisos	3.3	4.5	24.4	-3.1	-8.6	-8.2	-22.3	-8.0
Attiki	-0.3	8.0	134.8	-21.4	7.1	0.8	-31.5	28.0
Voreio Aigaio	3.2	6.2	39.1	-8.3	-8.3	-12.8	-29.0	9.3
Notio Aigaio	0.0	10.7	26.2	-21.4	-3.6	-12.1	-68.6	27.7
Kriti	4.3	12.5	40.1	-16.3	5.2	-2.2	-38.2	32.5

EXPLANATORY NOTES / BRIEF USER ORIENTED QUALITY REPORT

General The Farm Structure Survey (FSS) is a wide-range, periodic statistical procedure aiming at collecting objective and quantitative information in order to determine the basic characteristics of the structure of agricultural holdings in Greece. The FSS had been carried out in 1966/67, 1977/78 and since 1983 it was conducted every 2 years, except for the census years 1991, 2000 and 2010. From 2010 onwards, it is conducted every 3 years, i.e., it was conducted in 2013 and 2016 and was co-funded by the European Union.

Scope The FSS aims at collecting statistical data on the number of agriculture and livestock holdings at national, regional and local level, on the characteristics of those holdings as regards their legal form, type of tenure, structure (type of crops, livestock and poultry, farming techniques, etc), as well as on the utilised methods of agricultural production. The data are necessary for drawing National and Community policy in the Agricultural Sector. Furthermore, these data fulfil national and international needs and obligations, as well.

Legal framework The legal framework for the FSS is set out in National and Community Legislation. The survey was conducted concomitantly in all European Union Member States in accordance with Council Regulation (EC) 1166/2008. The 2016 FSS was conducted pursuant to the Decisions of the President of ELSTAT 6184/Γ2-492/4.7.2016 (Government Gazette No 2193/B/15.7.2016) amended and corrected in Government Gazette No 716/B/8.3.2017.

Reference period The reference period of the 2016 FSS data as regards crops, labour force and other characteristics was the cultivation period from 1st October 2015 to 30th September 2016. The reference date of the survey data as regards livestock was 1st November 2016.

Methodology – Coverage The sampling method used for this survey was the one-stage stratified random sampling. The sampling unit is the agricultural, livestock or mixed holding (a unified unit both in terms of technical and economic perspective, which is run by a unified management body and produces agricultural products) which:

- a) has at least 1 stremma of utilised land, or
- b) has at least 0.5 stremma of greenhouses, regardless of the production type, ownership, or the location of the holding, or
- c) has animals of its own and more specifically at least: one (1) cow or two (2) other "large animals" of any type and age (oxen, bufaloes, donkeys, mules), or five (5) "small animals" (sheep, goats, pigs) of any age and type, or fifty (50) poultry birds, or fifty (50) rabbits, or twenty (20) hives of "domestic" or "European" bees or five (5) ostriches, or
- d) cultivates mushrooms.

The statistical frame of FSS is the Farm Register which is generated from the Agricultural Census. Furthermore, the Farm Register is periodically updated from administrative sources (Registers of the Ministry of Rural Development and Food, IACS and of the Ministry of Finance, specifically on New Farmers and Organic Farming), as well as the agricultural surveys conducted by ELSTAT.

The stratification was based on the Department (NUTS3), the Type (techno-economic orientation of production) and the Economic Size of the holding. In each stratum the sample has been selected with equal probabilities by systematic random sampling from the population of holdings belonging to this stratum.

The final sample size was 93,485 holdings, corresponding to more than 12% of the total of agricultural and livestock holdings of Greece.

Survey Organisation and Quality Control	<p>The personnel necessary for the implementation of the survey, the processing and the presentation of the data consisted of ELSTAT staff, as well as enumerators properly trained by ELSTAT on data collection. The data of the FSS 2016 were collected with face-to-face interviews with the owners of the agricultural holdings, on the basis of a specially designed questionnaire.</p> <p>After the collection of the questionnaires, logical and completeness checks were performed. Then the data, by means of OCR (optical character reading), were entered into the electronic database. The OCR software was used also for the preliminary validation of the data. Then the data were exported in ELSTAT's database for further validation according to Eurostat's validation rules. During the quality control phase, which followed, major differences were investigated and corrections were attempted at holding level, mostly by identifying abnormally high or low values. At this stage, some follow-up interviews were also considered necessary, resulting in a number of questionnaires being completed by phone interviews. There are detailed manuals describing the various tests and control procedures and only ELSTAT employees with sufficient experience are authorised to participate in the data validation and quality control process.</p> <p>Finally, the results of the FSS 2016 were compared with the results of other surveys and with the available administrative data in order to identify the longitudinal trend and to assess the results. In cases of variables where large variations were detected, in depth analyses were carried out in close cooperation with the regional statistical offices and the former Ministry of Rural Development and Food.</p>
Data Publication	<p>The FSS data are available for the following years: 1983, 1985, 1987, 1993, 1995, 1997, 2003, 2005, 2007, 2013 and 2016. Furthermore, census data are available for the years 1991, 2000 and 2009. Data, for 2000-2016 are available in electronic form, while for the rest of the years the data are available in hardcopy. Sole responsibility for this publication lies with ELSTAT.</p>
Reference	<p>More information concerning the results of relevant surveys and the implemented methodology can be found on the webpage of ELSTAT (www.statistics.gr) at: Statistics>Agriculture,Livestock,Fishery.</p>