

# **Studies on the Dynamics of Livestock Production in Romania**

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## **Abstract**

In the agricultural production in our country, zootechnics currently holds second place. For the future, is provided that the share of livestock production to exceed 50% of the total production achieved in the sphere of agriculture.

Expanding livestock production is necessary for several reasons, some of which are generally valid for all forms of ownership, while others require especially in private-family holdings.

Livestock industries provide higher quality food as compared with those of plant origin, they are characterized by higher energy value per unit weight and volume, high quality protein and raw materials as very valuable for manufacturing industries (food, light).

In the present paper we analyzed the dynamics of livestock production in Romania, finding that the livestock were negative trends characterized by a reduction of livestock with an impact on animal production.

**Keywords:** agricultural area, agricultural production, agriculture, producers, farms

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## **1. Introduction**

Livestock sector development, modernization and organization of scientific production includes animals with the growth of the new ownership structure.

Expansion and strengthening of private property in family farms and businesses that will focus associative areas and resources important technical materials, and will boost the adoption of scientific technologies and systems of farming based on the structure of production, agricultural area and individual character or private associative unity, existing capital.

Already before 1989, five each in Directives was drawn primarily to increase the share of livestock sector in total agricultural production at least 50%. This standard was never, even now, as can be seen.

## **2. Materials and methods**

In this paper we analyzed the problems faced by the livestock. Issues pursued in this paper are the following: developments in the number of animals existing in Romania and the evolution of the structure of agricultural production in the period 1990 to 2011.

The information required zootechnical production analysis we obtained from the National Institute of Statistics.

## **3. Results and discussion**

A second component of agricultural production is represented by animal production. If the plant is not as I should, we see the problems that are faced by the livestock.

In order to do this analysis we should, first, to see the evolution of animal number in Romania during 1990-2011.

This is shown in table 1 from which we find that the livestock sector were negative trends

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characterized by a reduction of livestock with an impact on animal productions.

**Table 1.** Number of animals in Romania

Years	Cattle	Swine	Sheep	Goats	Horses	Birds
1990	6291	11671	15435	1017	663	113968
1991	5381	12003	14062	1005	670	121379
1992	4355	10954	13879	954	749	106032
1993	3683	9852	12079	805	721	87725
1994	3597	9262	11499	776	751	76532
1995	3481	7758	10897	745	784	70157
1996	3496	7960	10381	705	806	80524
1997	3435	8235	9663	654	816	78478
1998	3235	7097	8937	610	822	66620
1999	3143	7194	8409	585	839	69480
2000	3051	5848	8121	558	858	69143
2001	2870	4797	7657	538	865	70076
2002	2800	4447	7251	525	860	71413
2003	2878	5058	7312	633	879	77379
2004	2808	6495	7425	661	840	87014
2005	2862	6622	7611	687	834	86552
2006	2934	6815	7678	727	805	84990
2007	2819	6565	8469	865	862	82036
2008	2684	6174	8882	898	820	84373
2009	2512	5793	9141	917	764	83843
2010	2001	5428	8417	1241	611	80845
2011	1989	5364	8533	1236	596	79842
<b>2011/1990</b>	<b>31,61</b>	<b>45,96</b>	<b>37,79</b>	<b>121,53</b>	<b>89,89</b>	<b>70,05</b>
<b>%</b>						

Source: Statistical Yearbook of Romania, 1994, 2007, 2012 [1], [2], [3]

Herds of cattle in Romania have dropped continuously, reaching in 2011 to 31.61% of the total number existing in 1990 because of the abolition of cooperative units and state. Today, almost 100% of the cattle herd is in private ownership.

Total swine herd,s in the period 1990-2011, showed a dramatic decrease of 11,671 thousand head in 1990 to 5.364 million head in 2011, so at 45.96%. Reduction has been continuing on the meaning and rhythm of development until the year 2011.

From the analysis made and we find that sheep was a drastic reduction of herds. In 1990 the total number of sheep was 15435 thousand head for 2011 to drop to 8533 thousand head, respectively 37.79%.

Reduced number of sheep was due in particular a reduction of foreign trade of Romania with consuming meat of sheep, on the one hand and decreasing the demand for wool processing industries on the other. A less pronounced

decrease was recorded in horse species (at 89.89%).

Due to the disappearance of large industrial complex to increase the birds, their number started to decrease continuously until 2000 (at 60.66% of the herd 1990), and after this year recorded a slight increase to reach in 2011 to 70.50% of the number existing in 1990.

The only species which were not recorded decreases of total staff, by contrast was a significant increase, the species is goat, which actually came in 2011 at 121.53%.

If the number of animals has decreased continuously during the analysis we present the dynamics of their production environments.

Relationship between agricultural production and animal and plant weight that occupies each of the two components of agricultural production in the total production is a very important indicator for the quality work done.

Such, any economic system in the agricultural share of livestock production in the agricultural

production is an indicator for assessing the degree of intensivity agricultural output, the level of development of agriculture.

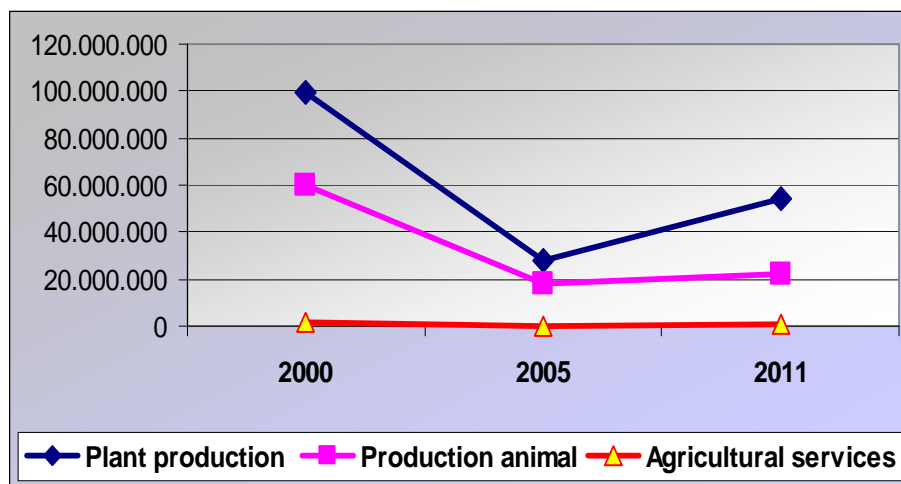
In the table 2 developments show the structure of agricultural productions in Romania in the 1990-2011 period analyzed.

Throughout the country agricultural production has not improved much in terms of structure, particularly because livestock sector whose total weight is reduced.

**Table 2.** The structure of agricultural production of agricultural goods and services (1990 - 2011)

Specification	1990	2000	2005	2006	2007	2008	2009	2010	2011
<b>Total d.c.:</b>	100	100	100	100	100	100	100	100	100
<b>- plant</b>	53,0	61,2	60,1	61,9	60,2	68,3	59,6	67,5	70,8
<b>- animal</b>	47,0	37,1	39,1	37,9	38,3	30,6	39,1	31,6	28,5
<b>- agricultural services</b>	-	1,2	0,8	0,9	1,5	1,1	1,3	0,9	0,7

Source: Statistical Yearbook of Romania, 1994, 1999, 2012, [1], [3]



**Figure 1.** Evolution of agricultural production in Romania, during 2000-2011

In 1990 crop production accounted for 53.0% while animal production constituted 47.0% of total agricultural production.

The large share of global production animals has always wanted to be more than 50%, "desire" to which there was not enough today.

In the structure of agricultural production, crop production sector is predominant, having, in 2010, a share of 67.5% from total production, compared with 31.6% with represents animal production sector and 0.9% agricultural services. The evolution of crop production shows an increase of 17% in year 2011 compared with year 2008.

Crop production, at year 2011 level, meant in terms of value, 76.5% of the total and livestock production, 23.5%. For comparison, the share of crop production in total value of agricultural production was in Bulgaria 69.8%, in Hungary 66.6% and 51.6% in Poland. In France, crop production represented 61.1%, 53.4% in Germany and the United Kingdom, 41.8%.

#### 4. Conclusions

In conclusion, we can say with certainty that agricultural production in Romania is optimally structured it along with others is one of the causes of low profitability of agricultural production.

It is necessary to convert a part of the largest production plant for animal products, making it a safe and economical way to increase the profitability of agricultural production in general.

#### References

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