ANALYSIS OF SINGLE AREA PAYMENT SCHEME (SAPS) BENEFICIARIES. CASE STUDY IN TIMIŞ AND CARAŞ SEVERIN COUNTIES, ROMANIA

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Abstract

This study investigates SAPS (Single Area Payment Scheme) beneficiaries in Timiş and Caraş Severin counties, Romania, categorizing them by legal entity type (individual, authorized natural person, legal entity, and enterprise), gender, age, and the respective monetary values attracted in each jurisdiction. Findings in Timiş reveal a numerical preponderance of individual beneficiaries, yet a cumulative analysis across legal entities underscores their quantitative superiority. Conversely, in Caraş Severin, the cumulative count of all legal entities does not exceedt hat of individual beneficiaries. Gender distribution in Timiş manifests as 70.5% male and 24.5% female, while in Caraş Severin, it is 71.1% male and 28.9% female, with statistically comparable proportions at a significance level of α =0.01. Regarding age, beneficiaries uniformly exhibit a minimum age of 18 years, with noteworthy instances of advanced age, reaching 95 or 96 years. The rightward-skewed age distribution is explicable by a pronounced presence of elderly individuals within the cohort.

Key words: SAPS, European Agricultural Guarantee Fund (FEGA), European Fund for Agriculture and Rural Development (FEADR), subsidies, finance

INTRODUCTION

The Western Region of Romania was established in 1998, comprising four counties, including Timis and Caras-Severin. The primary functions of the region are the coordination of regional development projects and the absorption of funds from the European Union (PNDR 2021-2027). The Western Region has vast agricultural lands, and the local pedoclimatic conditions offer possibilities agricultural multiple for development [1]. Compared to other regions in Romania, the Western Region has significant competitive advantages [10,16]. There is also a high interest from European Union investors in the region's agricultural lands, which are of superior quality and have not been treated with pesticides, as foreign investors cultivate organic and ecological agricultural products intended for export.

Consequently, attracting European funds in the field of agriculture has brought significant benefits to companies in Timis and Caras-Severin counties. From an economic efficiency perspective, there are two main effects. Attracting over 450 million EUR (EAGF, EAFRD, and National Budget funds) to the county since 2007 has substantially increased the financial stability of the sector, with a strong decrease in the volatility of companies. In the last 13 years, the trend of land consolidation and the increasingly easy access to non-repayable funds have made agriculture attractive for many strong foreign investors and have allowed Romanian farmers to expand their businesses [3, 8,11]. Investments made through accessing European funding programs have increased the level of equipment of farms with state-ofmachines, the-art equipment, and

technologies, which have led to both a

reduction in operating costs per unit of product obtained and an increase in the yields per hectare. All these factors have contributed to increasing the economic efficiency of businesses in the field [13,15].

In recent years, due to the increasing occurrence of extreme weather phenomena and the increasingly pronounced changes in annual climate patterns, the need for friendly agriculture environmentally has become more and more evident [5, 6]. The new Common Agricultural Policy (2021 -2027), along with the European Green Deal, aims to set a global standard in terms of safety, supply security, nutrition, and quality [9,14]. Transitioning to a sustainable food system can have social, health, and environmental benefits, as well as more equitable economic advantages [4, 7, 12].

The most significant difference between the two counties, Timis and Caras-Severin, is geographical configuration, their which impacts favourability directly the of agricultural production: while in Timis, the relief is largely favourable to agriculture, extending over most of the western plain, the neighbouring county's terrain is much less conducive, given the presence of mountains with the specificity of mountainous areas. Culturally, however, the areas are quite similar. Both are part of the Romanian section of the Banat region (the rest being divided between Hungary - 5% and Serbia - 40%) [1]. Nonetheless, the concept of the family farm passed down from generation to generation is better preserved in Caras-Severin. This can be partly explained by the mountainous nature of the terrain in this county, which has made the process of expanding farms in terms of area difficult, but historical also by the fact of mass nationalization of land sown by large landowners in Timis and their forced deportation and relocation Bărăgan. to Although the region was known in the past as an intensive pork production area (even today, Timis hosts one of the largest pig breeding and pork processing complexes), in recent years, farmers have focused more on sheep and cattle raising, including in mixed farms, especially from an economic standpoint, as the profit margins are significantly higher.

In this context, the purpose of the paper is to provide a detailed analysis of the Single Area Payment Scheme (SAPS) beneficiaries in Timiş and Caraş Severin counties in Romania, with a specific focus on understanding the distribution and characteristics of these beneficiaries by legal entity type, gender, age, and the monetary values attracted. Through this analysis, the paper aims to:

Evaluate the Impact of SAPS Funding: It seeks to assess how SAPS funding has been distributed among various categories of beneficiaries and to understand the financial impact of this support on the agricultural sector in the two counties.

Demographic Analysis: By categorizing beneficiaries based on legal entity type, gender, and age, the paper intends to provide insights into the demographic profile of those who are benefitting from SAPS, offering a glimpse into who is participating in and benefiting from EU agricultural policies.

Economic Efficiency and Technological Advancement: The study examines the economic efficiency and the adoption of advanced technologies and practices in agriculture as a result of SAPS funding. It discusses how investments made through European funding programs have enhanced the equipment level of farms, leading to reduced operating costs and increased yields.

Policy Implications and Recommendations: By providing a comprehensive analysis of beneficiaries and SAPS the broader agricultural context in Timis and Caras Severin, the paper likely seeks to inform decisions, contribute to policy the optimization of future funding schemes, and support the transition towards more sustainable and efficient agricultural practices in Romania and potentially in similar regions within the European Union.

MATERIALS AND METHODS

The research in this article was located in the Western Region, more precisely in Timiş and Caraş-Severin counties. The materials used for this study were provided by the Agency for Payments and Intervention in Agriculture, the National Institute of Statistics, and various bibliographic sources. The collected data were subject to observation, analysis, interpretation, and comparison. Additionally, graphical representations were made using the Past 4.03 software (Statistical analysis software). The centralization, processing, and interpretation of the data allowed for the formulation of the main conclusions regarding the situation of SAPS beneficiaries in the two studied counties.

RESULTS AND DISCUSSIONS

Regarding the number of SAPS beneficiaries [2] in Timis county, there are 198,238, representing approximately 75% of the total for the two counties. For comparison, in Caraş-Severin County, there were 65,535 beneficiaries. The highest proportion of SAPS beneficiaries consists of individual physical persons, both in Timis county and in Caras-Severin. It is immediately noticeable that in Timis county, even if the number of individual persons is higher than the other categories taken separately, a numerical comparison with the other categories of legal persons taken together indicates the latter's superiority. The same is not observed in Caras-Severin County, where even if all categories of legal persons are combined, they do not exceed the number of physical persons. Specifically, in Timis county, the distribution by legal form of the beneficiaries is 47% for individuals, 39.9% for legal persons, 6.3% for authorized persons, 5.8% for individual enterprises, and 0.2% for family enterprises. In Caraș-Severin County, this distribution is: 72.7% for individuals, 18.7% for legal persons, 4.3% for authorized persons, 3.3% for individual enterprises, 0.9% for family enterprises, and 0.1% for foreign citizens. The χ^2 test of association indicates that the distribution by legal form differs significantly between the two counties, $\gamma 2=1.3\times 104$, p<0.001. The data corresponding to this description are found in Table 1 and Figure 1. Following the distribution of SAPS beneficiaries by gender, in Timis county, 70.5% are men and 24.5% are women, while

in Caraș-Severin County, 71.1% are men and 28.9% are women.

Table 1. Distribution of SAPS beneficiaries by legal form in Timiș and Caraș Severin counties

Legal_form		County		
		Timis	Caras Severin	Total
	Count	94,598	47,666	142,264
Individual	% within Legal_form	66.5%	33.5%	100.0%
	% within County	47.7%	72.7%	53.9%
	% of Total	35.9%	18.1%	53.9%
	Count	79,191	12,239	91,430
Local nomen	% within Legal_form	86.6%	13.4%	100.0%
Legal person	% within County	39.9%	18.7%	34.7%
	% of Total	30.0%	4.6%	34.7%
	Count	12,549	2,837	15,386
Authorizedperson	% within Legal_form	81.6%	18.4%	100.0%
	% within County	6.3%	4.3%	5.8%
	% of Total	4.8%	1.1%	5.8%

	Count	11,413	2,147	13,560
	% within	84.2%	15.8%	100.0%
Individual	Legal_form			
enterprise	% within	5.8%	3.3%	5.1%
	County			
	% of Total	4.3%	.8%	5.1%
	Count	407	565	972
	%Legal_form	41.9%	58.1%	100.0%
Familyenterprise	% within	.2%	.9%	.4%
Familyenterprise	County			
	% of Total	.2%	.2%	.4%
	Count	80	81	161
	% within	49.7%	50.3%	100.0%
Foreign citizen	Legal_form			
roreigii chizeli	% within	.0%	.1%	.1%
	County			
	% of Total	.0%	.0%	.1%
	Count	198,238	65,535	263,773
Total	% within	75.2%	24.8%	100.0%
	Legal_form			
	% within	100.0%	100.0%	100.0%
	County			
	% of Total	75.2%	24.8%	100.0%

Source: Authors' calculation based on the data from APIA [2] and INS [11].

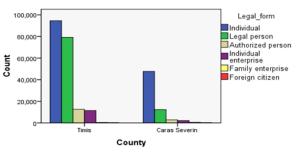


Fig. 1. Distribution of SAPS beneficiaries by legal form in Timiş and Caraş Severin counties Source: Own design reflecting the results.

The proportions are close, and there are no statistical arguments at a threshold of α =0.01 regarding the existence of differences between them in association with the counties.

These conclusions were reached by applying the $\chi 2$ association test. The statistical data are presented in Table 2 and Figure 2.

Table 2. Distribution of SAPS beneficiaries by sex in
Timiș and Caraș Severin counties

		County			
Sex		Timis Caras Severin Total			
	Count	66,666	33,903	100,569	
М	% within Sex	66.3%	33.7%	100.0%	
IVI	% within County	70.5%	71.1%	70.7%	
	% of Total	46.9%	23.8%	70.7%	
F	Count	27,884	13,759	41,643	
	% within Sex	67.0%	33.0%	100.0%	
	% within County	29.5%	28.9%	29.3%	
	% of Total	19.6%	9.7%	29.3%	
	Count	94,550	47,662	142,212	
Total	% within Sex	66.5%	33.5%	100.0%	
	% within County	100.0%	100.0%	100.0%	
	% of Total	66.5%	33.5%	100.0%	

Source: Authors' calculation.

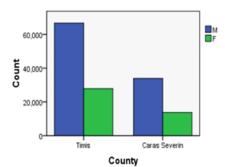


Fig. 2. Distribution of SAPS beneficiaries by sex in Timiş and Caraş Severin counties Source: Authors' design of the results.

The age of SAPS beneficiaries is an useful subject for painting a picture of the future of agriculture in Romania. In the following discussion on age, only individual persons are considered, excluding any forms of legal entities and their representatives.

Table 3 provides information on direct numerical and percentage comparisons between the groups' volumes in the two counties (% within Age group). Moreover, consulting the columns on the percentage distribution of the volume in each county, we find that in Timiş, 0.1% of SAPS beneficiaries are under 20 years old, 3.8% between 20-29 years, 10% between 30-39 years, 19.4% between 40-49 years, 23.9% between 50-59 years, 24.4% in the 60-69 age group (being the largest age group in terms of volume), 14.3% in the 70-79 age group, 3.9% in the 80-89 age group, and even 0.2% in the 90-99 age group. On the other hand, in Caraş-Severin County, like in Timiş, 0.1% are under 20 years old, 3.7% between 20-29 years, with a similar value close to that of Timiş county, 10.6% between 30-39 years.

However, only 18.1% of SAPS beneficiaries in Caraş-Severin are in the 40-49 age group, a value observed to below compared to Timiş county where the proportion of SAPS beneficiaries is higher in this age group.

The same phenomenon is observed in the 50-59 age group where there are 21.7% of the beneficiaries in Caraş-Severin, a lower value compared to Timiş county.

The two age groups, 40-49 and 50-59 years, constitute very efficient periods when characterizing the results of human resources in the field of agricultural management.

It is note worthy that in the 60-69 age group in Caraş-Severin County, the proportion of SAPS beneficiaries is 26.4%, a value higher than the same age group in Timiş county. Similarly, in the 70-79 age group, the proportion is 15.4%, a higher value in Caraş-Severin compared to Timiş.

The fact that these groups have a higher proportion in Caraş-Severin compared to Timiş can be attributed to the aging population phenomenon, particularly due to the migration of the youth for educational purposes to the neighbouring county of Timiş, among other reasons.

Moreover, the well-developed industry in the past in Caraş-Severin County has resulted in many individuals from these age groups being settled in this county, who are now retired but still active in the agricultural sector.

From a statistical significance perspective, an association of the values corresponding to the age groups with the counties is noted, applying the $\chi 2$ association test, $\chi 2=199.2$, p<0.001.

Table 3. Frequency distribution of SAPS beneficiaries
by age group in Timiş and Caraş Severin counties

	, <u>,</u>	,	County	
Age		Timis	Caras	Total
group			Severin	
<20	Count	82	31	113
years	% within Age	72.6%	27.4%	100.0%
5	group		,	
	% within County	.1%	.1%	.1%
	% of Total	.1%	.0%	.1%
20-29	Count	3,558	1,743	5,301
years	% within Age roup	67.1%	32.9%	100.0%
	% within County	3.8%	3.7%	3.7%
	% of Total	2.5%	1.2%	3.7%
30-39	Count	9,460	5,029	14,489
years	% within Age	65.3%	34.7%	100.0%
	group			
	% within County	10.0%	10.6%	10.2%
	% of Total	6.6%	3.5%	10.2%
40-49	Count	18,317	8,631	26,948
years	% within Age	68.0%	32.0%	100.0%
	group			
	% within County	19.4%	18.1%	18.9%
	% of Total	12.9%	6.1%	18.9%
50-59	Count	22,642	10,324	32,966
years	% within Age	68.7%	31.3%	100.0%
	group			
	% within County	23.9%	21.7%	23.2%
	% of Total	15.9%	7.3%	23.2%
60-69	Count	23,119	12,717	35,836
years	% within Age	64.5%	35.5%	100.0%
	group			
	% within County	24.4%	26.7%	25.2%
-	% of Total	16.3%	8.9%	25.2%
70-79	Count	13,532	7,320	20,852
years	% within Age	64.9%	35.1%	100.0%
	group			
	% within County	14.3%	15.4%	14.7%
	% of Total	9.5%	5.1%	14.7%
80-89	Count	3,693	1,776	5,469
years	% within Age	67.5%	32.5%	100.0%
	group	2.004	2.7%	2.00/
	% within County	3.9%	3.7%	3.8%
00.00	% of Total	2.6%	1.2%	3.8%
90-99	Count	195 67.2%	95	290
years	% withinAgegroup		32.8%	100.0%
	% withinCounty	.2%	.2%	.2%
T (1	% of Total	.1%	.1%	.2%
Total	Count	94,598	47,666	142,264
	% withinAgegroup	66.5%	33.5%	100.0%
	% withinCounty	100.0%	100.0%	100.0%
	% of Total	66.5%	33.5%	100.0%

Source: Authors' calculation.

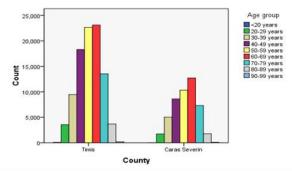


Fig. 3. Frequency distribution of SAPS beneficiaries by age group in Timiş and Caraş Severin counties Source: Authors' design of the results.

In both counties, the age distribution of SAPS beneficiaries has some similarities with the normal distribution, in that the extreme values, namely the age groups corresponding to the very young and the elderly, are quantitatively lower and there is also a tendency towards symmetry around the average age of approximately 55.78 years in Timis county and 56.3 years in Caras-Severin. However, the Kolmogorov-Smirnov test yields values of D (94,598) = 0.049 and D (47,666) = 0.067 with p<0.001 in both cases. Therefore, the total number of cases deviating from the normal distribution is statistically significant, suggesting that neither group follows a normal distribution.

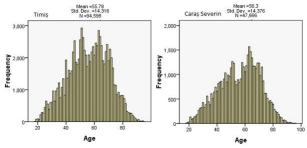


Fig. 4. Histograms related to the age distribution of SAPS beneficiaries in Timiş (a) and Caraş Severin (b) counties.

Source: Authors' design.

For characterizing the statistical populations of SAPS beneficiaries in terms of age in the two counties, data from Table 4 were presented.

The minimum age is 18 years in each case. However, it's note worthy that the maximum age is very advanced, at 95 and 96 years, for some SAPS beneficiary individuals. Negative skewness in both situations, albeits light, indicates an asymmetry in the distributions. The curve is shifted to the right, a phenomenon explained by a high number of older individuals.

Negative kurtosis values for the populations of both counties indicate flattened distributions.

This is related to the same phenomenon of the aging population engaged in agriculture and the reduced number of individuals with an average age. The average age of individuals in Timiş county is 55.78 years, while in Caraş-Severin County, it is slightly higher, at 56.3

years. This difference is statistically significant, t=-6.4 with p<0.001. The median values are 56 years for the group from Timiş and 58 years for that from Caraş-Severin.

Table 4. Statistical summary for describing the age of SAPS beneficiaries in Timiş and Caraş Severin counties

Timiș		Caraș Severin			
М	lean	55.78	Mean		56.3
95%	LowerBound	55.69	95%	LowerBound	56.17
Confidence Interval for Mean	UpperBound	55.87	Confidence Interval for Mean	UpperBound	56.43
5% Trin	ımedMean	55.91	5% TrimmedMean		56.48
Me	edian	56	Median		58
Var	riance	204.935	Variance		206.674
Std. D	eviation	14.316	Std. Deviation		14.376
Min	iimum	18	Minimum		18
Max	timum	95	Maximum		96
Range		77	Range		78
Interqua	rtile Range	21	Interquartile Range		21
Ske	wness	-0.142	Skewness		-0.218
Kurtosis		-0.567	Kurtosis		-0.601

Source: Authors' calculation.

The requests for organic agriculture vary in proportion between the two counties.

There was a statistically significant association between organic requests and the counties studied, applying the $\chi 2$ association test, $\chi 2=3157$, p<0.001.

In Timiş county, 7.2% of the applications are for organic farming, and 92.8% are not, while in Caraş-Severin County, the proportion is higher, with 14.4% being organic and 85.6% not. However, in absolute numbers, the number of organic applications is higher in Timiş county.

The data indicating these conclusions are presented in Table 5 and in Figure 5.

 Table 5. Distribution of the number of applications for organic farming in Timis and Caras Severin counties

County	Ecological				
		No	Yes	Total	
	Count	184,036	14,202	198,238	
	% withinCounty	92.8%	7.2%	100.0%	
Timis	% withinEcological	76.6%	60.1%	75.2%	
	% of Total	69.8%	5.4%	75.2%	
	Count	56,101	9,434	65,535	
Comos	% withinCounty	85.6%	14.4%	100.0%	
Caras Severin	% withinEcological	23.4%	39.9%	24.8%	
	% of Total	21.3%	3.6%	24.8%	
Total	Count	240,137	23,636	263,773	
	% withinCounty	91.0%	9.0%	100.0%	
	% withinEcological	100.0%	100.0%	100.0%	
	% of Total	91.0%	9.0%	100.0%	

Source: Authors' calculation.

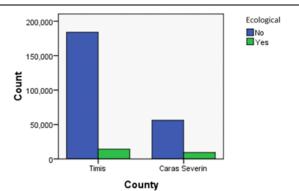


Fig. 5. Distribution diagram of the number of applications for organic farming in Timiş and Caraş Severin counties

Source: Authors' design.

CONCLUSIONS

The mobilization of European funds in the agricultural sector has significantly benefited both farmers and companies in Timiş and Caraş-Severin counties. This influx has played a pivotal role in both consolidating and stabilizing agricultural enterprises, thereby enhancing overall business profitability. Such financial support has been instrumental in fostering a more resilient and economically viable agricultural landscape within these regions.

An examination of the farm structures and subsidy applicants in both counties up to 2021 reveals a closely matched scenario, with Timiş recording 17,584 beneficiaries and Caraş-Severin slightly higher at 18,694. This parity underscores a widespread engagement with SAPS across both counties, reflecting the scheme's relevance to the agricultural community.

SAPS The distribution analysis of beneficiaries unveils a dominant presence of individual farmers in both counties. constituting the majority. Specifically, Timis County reported 198,238 beneficiaries, about 75% of the total for both counties, with Caraş-Severin accounting for the remaining 65,535 distribution beneficiaries. This pattern emphasizes the critical role of individual farmers in the region's agricultural economy. Gender distribution among SAPS beneficiaries reveals notable male а predominance, with 70.5% male beneficiaries

in Timiş and 71.1% in Caraş-Severin. However, the significant representation of

women, 24.5% in Timiş and 28.9% in Caraş-Severin, highlights an encouraging trend towards gender diversity in agricultural participation.

Age demographics of SAPS beneficiaries present insightful trends for the future of agriculture in Romania. In both counties, the distribution spans from youths under 20 to seniors in their 90s, with the largest concentration in the 60-69 age group. This age diversity not only reflects the broad appeal accessibility farming and of across generations but also signals potential challenges and opportunities in encouraging younger entrants to agriculture, ensuring sustainability and continuity.

These findings collectively illustrate the substantial impact of European funding on the agricultural sectors of Timiş and Caraş-Severin counties. They underscore the importance of continuous support and tailored policies to sustain growth, encourage inclusivity across gender and age, and ultimately, secure the future of agriculture in Romania.

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