



UNIVERSITY OF LIFE SCIENCES  
"KING MIHAI I" FROM Timisoara  
**Multidisciplinary Conference on  
Sustainable Development**  
21 – 22 May 2026



## RESEARCH ON THE EVOLUTION OF CROP PRODUCTION IN TELEORMAN COUNTY

Ana-Mariana Dincu<sup>1</sup>, Florinel Imbrea<sup>2</sup>, Andreea Adriana Petcov<sup>\*3</sup>, Corina Sîrbu<sup>\*1</sup>, Oana Sicoe-Murg<sup>1</sup>

<sup>1</sup>University of Life Sciences "King Mihai I" from Timișoara, Faculty of Management and Rural Tourism, Timișoara, Romania

<sup>2</sup>University of Life Sciences "King Mihai I" from Timișoara, Faculty of Agriculture, Timișoara, Romania

<sup>3</sup>University of Life Sciences "King Mihai I" from Timișoara, Faculty of Engineering and Applied Technologies, Timișoara, Romania

**Abstract:** This paper analyzes the evolution of crop production in Teleorman County, highlighting the main trends regarding cultivated areas, yields, and crop productivity levels. . The results highlight that Teleorman County has high agricultural potential due to favorable natural conditions, particularly fertile soils and flat terrain, which support the cultivation of staple crops such as wheat, barley, corn, and sunflowers. The evolution of crop production has fluctuated from year to year, driven primarily by climatic conditions but also by the technological level of agricultural holdings. Productivity analysis reveals a general upward trend during certain periods, indicating an improvement in agricultural practices and the use of modern inputs.

### • Introduction

Agriculture is one of the most important sectors of the economy, playing an essential role in ensuring food security, capitalizing on natural resources and supporting the economic development of rural areas. Within agriculture, plant production occupies an important place, due to its contribution to supplying the population with agri-food products and to providing the raw materials necessary for various economic branches. Teleorman County is notable for its high agricultural potential, being one of the counties with a tradition in the cultivation of cereals and oilseeds. The predominantly plain relief, the vast agricultural areas and the fertile soils favor the development of vegetable crops, especially wheat, corn, sunflower and rapeseed. Agriculture is an important economic activity for the county, contributing significantly to the local economy and to rural employment.

### • Material and method

To carry out the study, official statistical data on plant agriculture were used, obtained from the INSSE Tempo Online database, as well as from specialized works and bibliographic sources in the field of agriculture and rural development. The analysis was carried out for the period 2015–2024, an interval considered relevant for highlighting the evolution of agricultural production of plants and the changes that occurred in the main agricultural indicators.

### • Results and discussions

Teleorman County is located in the southern part of Romania, within the Romanian Plain, and is recognized for its high agricultural potential and for the important share of agricultural activities in the local economy.

The agricultural potential of Teleorman County places the county in the first places at national level in terms of utilized agricultural area and agricultural production.

To highlight the dynamics of the agricultural sector in Teleorman County, we will analyze the values of total agricultural production, as well as its structure by main components: crop agricultural production, animal agricultural production and agricultural services.

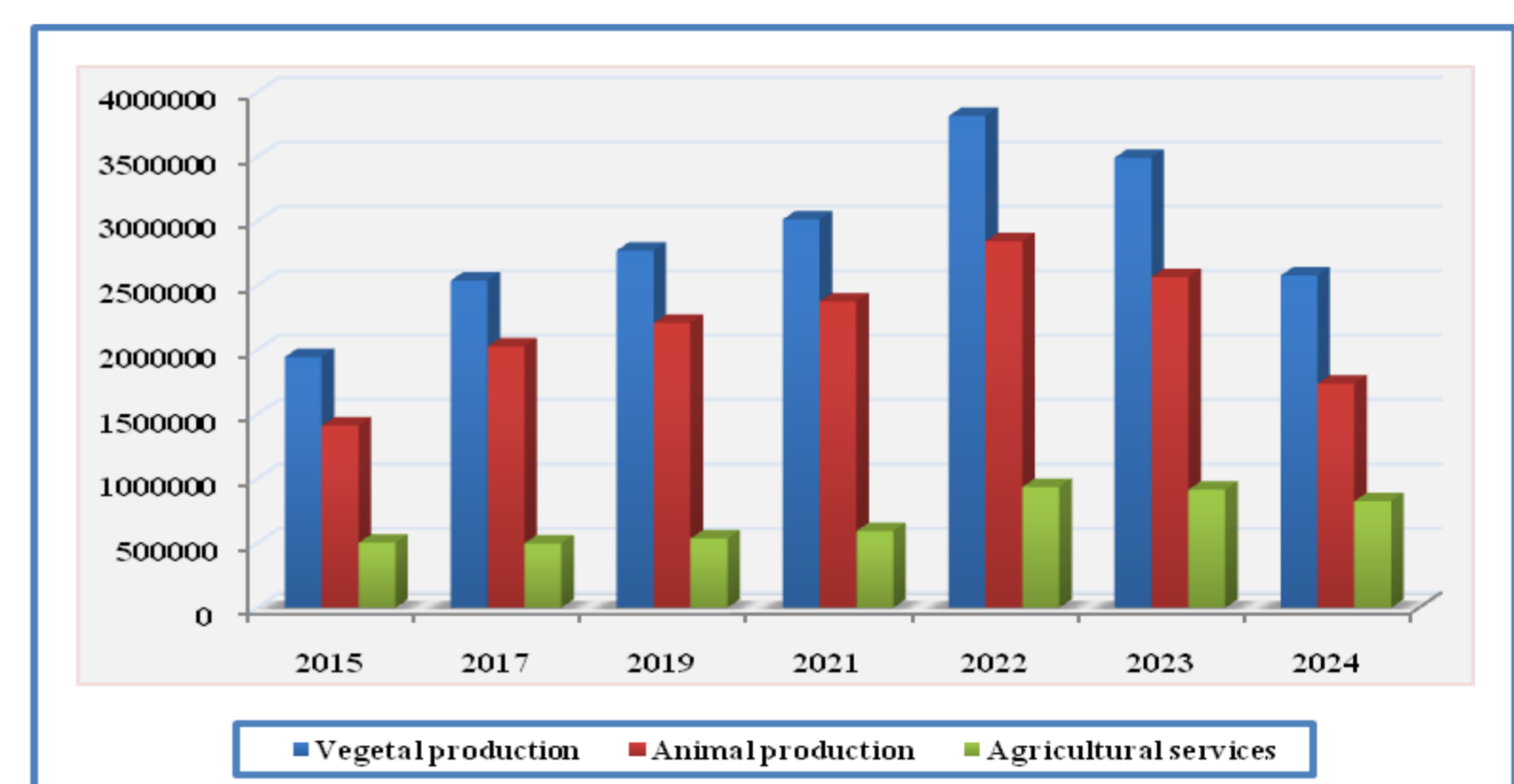


Figure 1. Evolution of agricultural production in Teleorman County, during 2015–2024

The analyzed data highlights the fact that agriculture in Teleorman County is dominated by crop production, which has the largest share in the total value of agricultural production over the entire analyzed period.

To highlight the structure of agricultural crop production and the use of agricultural land, the areas cultivated with the main agricultural crops in Teleorman County were analyzed during the period 2015–2024.

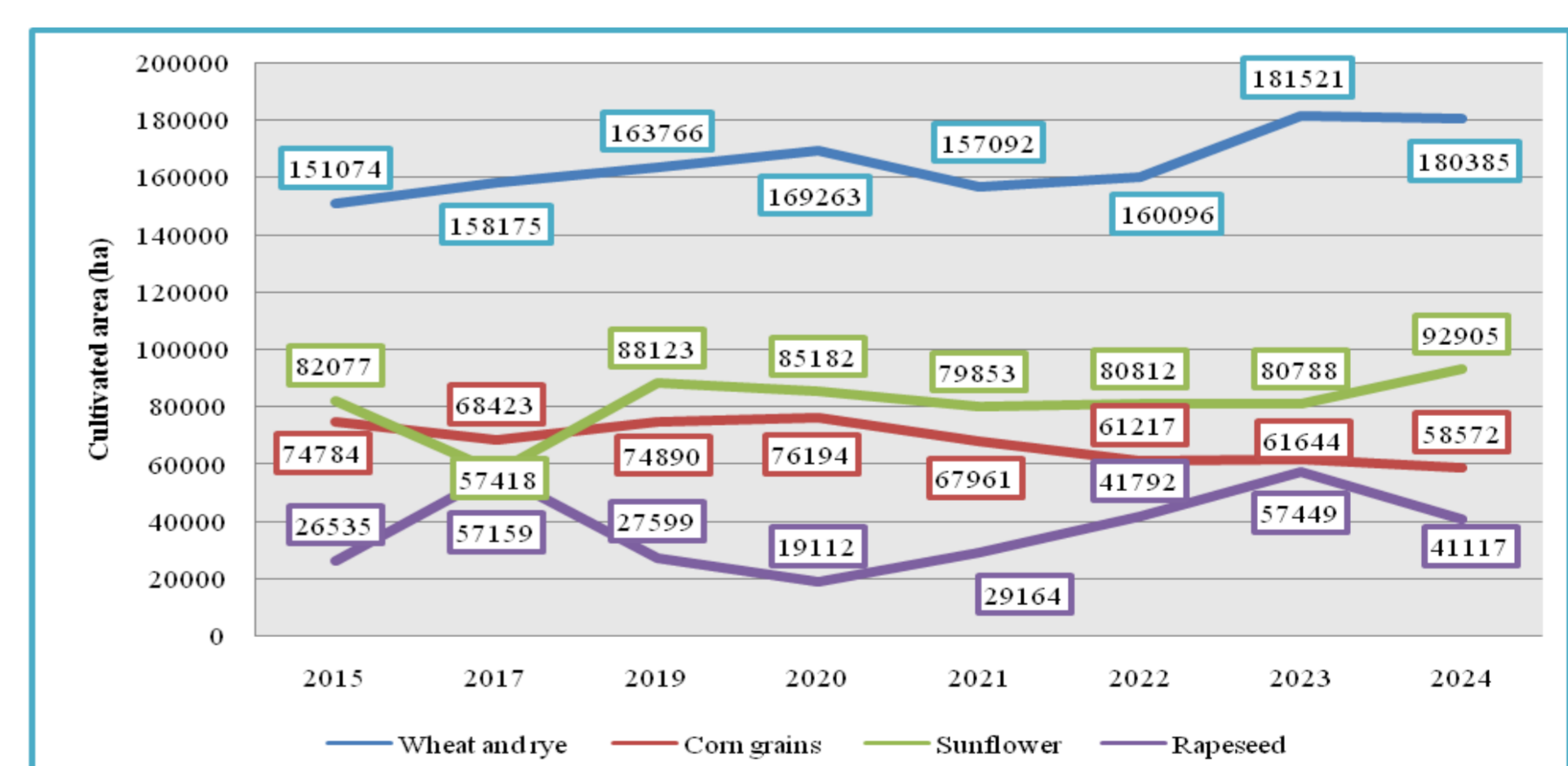


Figure 2. Evolution of cultivated areas with main crops in Teleorman County during 2015–2024

The results from Figure 2 highlight the predominance of cereal crops and oilseeds in the structure of vegetable agriculture in Teleorman County, which play an important role in capitalizing on the agricultural potential of the county.

In addition to the evolution of cultivated areas, agricultural crop production and average production per hectare, the development of crop agriculture in Teleorman County is also influenced by a series of natural, economic and technological factors, which contribute to variations in agricultural production from one year to the next.

### • Conclusions

Teleorman County has a high agricultural potential, favored by the plain relief, extensive agricultural areas and the existence of fertile soils, aspects that contribute to the development of plant agriculture and the valorization of existing agricultural resources.

The modernization of agriculture, the development of irrigation systems and the use of modern agricultural technologies are important directions for increasing the stability and efficiency of agricultural production in the future.