

AGROSYM

BOOK OF ABSTRACTS



*XV International Scientific Agriculture Symposium
"Agrosym 2024"
Jahorina, October 10-13, 2024*

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“AGROSYM 2024”**



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PREFACE

Dear colleagues,

It is with great pleasure that we present the Book of Abstracts for the 15th International Scientific Agricultural Symposium, "AGROSYM 2024." This collection features nearly 800 contributions, reflecting a diverse array of research and insights across the full spectrum of agricultural disciplines. The themes of AGROSYM 2024 are organized into seven sessions: 1) Plant production, 2) Plant protection and food safety, 3) Organic agriculture, 4) Environmental protection and natural resources management, 5) Animal husbandry, 6) Rural development and agro-economy, and 7) Forestry and agroforestry.

In today's rapidly evolving agricultural landscape, technology plays a pivotal role in enhancing production, improving food security, and minimizing environmental impacts. Particularly in the cultivation of annual crops like maize, rice, soybean, wheat, and cotton, technological advancements have proven essential. While breeding programs for trees may require longer timelines, new plant breeding techniques are emerging to enhance productivity, sparking important discussions within the academic community about their benefits and challenges.

Historically, agricultural research has predominantly focused on the production side of the food chain. However, there is a growing recognition of the importance of the consumption side and the intermediate stages such as processing and distribution. This shift towards a "farm to fork" approach reflects consumers' increasing demand for higher-quality, healthier, safer, and more flavorful products. Consequently, agri-food companies are actively exploring innovative strategies to gain better control over production processes and ensure the quality and safety of final products. Additionally, evolving investment strategies are emphasizing sustainability and social responsibility, as investors recognize the long-term benefits of supporting environmentally and socially conscious practices.

Agri-food systems are integral to the global discourse on sustainable development and the pursuit of the Sustainable Development Goals (SDGs) by 2030. These systems face numerous challenges, including climate change, poverty, food insecurity, biodiversity loss, and ecosystem degradation. One of the primary objectives of the sustainable agriculture movement is to develop farming systems that mitigate or eliminate the environmental harms associated with industrial agriculture. Enhancing the resilience of food systems in the face of crises, shocks, and pandemics is also crucial for future stability.

We extend our heartfelt gratitude to all the authors, reviewers, and colleagues who contributed to the preparation of this Book of Abstracts. Special thanks go to our co-organizers and partners for their unwavering support and collaboration. We hope this compilation serves as a valuable resource for all participants and contributes to the ongoing dialogue in the agricultural sector.

Welcome to AGROSYM 2024!



East Sarajevo, 07 October 2024

Prof. Dušan Kovačević, PhD

Editor in Chief, President of the Scientific Committee of AGROSYM 2024

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THE CONDITION OF THE COPPICE STAND OF HUNGARIAN AND TURKEY OAK IN PRIVATE OWNERSHIP IN THE BUKOVIK MOUNTAIN AREA

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Abstract

The paper presents the structural and production characteristics of a typical coppice stand of Hungarian and Turkey oak in private ownership in the Bukovik mountain area. Forests in private ownership on the territory of the Republic of Serbia occupy 57% of the total forest area, where 76.1% are coppice stands. Stands of Hungarian and Turkey oak represent 30.6% of the total area of privately owned forests. Considering the prevalence of coppice forests in Serbia, it is undeniable that forest management planning of these forests represents one of the main challenges for the forestry sector. The basis for the research was six sample plots. The site is located on eutric brown soil, with a small presence of skeletons. This stand is 50 years old, the number of trees per hectare is 1017, while the distribution of trees by diameter classes is a typical for even-aged structure. The total volume is 158 m³/ha and the volume increment is 2.7 m³/ha. The dominant tree species in the stand is the Hungarian oak, accounting for 68% of the total volume. The mean stand diameter by basal area is 18.9 cm, and the mean stand height is 15.2 m. The diameter of the dominant tree by basal area is 24 cm, and the height of the dominant tree is 16.8 m. It is obvious that the investigated stand did not have an adequate silvicultural treatment, which results in an excessive number of trees per hectare and reduced space for growth. All this requires an adaptive approach to the management of such stands by the forestry professionals.

Key words: *coppice stand, private forests, Hungarian oak, Turkey oak.*