



"MULTIDISCIPLINARY CONFERENCE
ON SUSTAINABLE DEVELOPMENT"

Section

"Research, innovation and technology transfer in the Horticulture, Forestry
and Biotechnologies fields"

30 - 31 May 2024

ASSESSMENT OF THE QUALITY OF CHERRY WOOD FROM CARAȘ- SEVERIN COUNTY IN WINEMAKING, MAIN STUDY BOCȘA FORESTRY DISTRICT

IASMINA ANDRADA IOVA¹, MARIA MIHAELA MOATĂR¹, PETRU IOAN DRAGOMIR¹, PETRE
ALEXANDRU PANICI¹, DUMITRU CAMEN DORIN^{1*}

Abstract: The presented study aims to evaluate the quality of cherry wood from Caraș-Severin County, with a focus on the Bocșa Forestry District. The research objectives include analyzing the evolution of the cherry species, starting with a study of soil characteristics that influence tree growth and development, up to the use of wood in the production of high-quality wines. Through analytical and experimental methods, we investigate the physical-mechanical properties of the wood and their impact on winemaking processes. The results will provide an in-depth understanding of the contribution of cherry wood to the aromatic profile and structure of wines, with direct implications for its utilization in the wine industry. The study offers a fresh perspective on the potential of cherry wood in the region, thus contributing to its optimization in winemaking.

• Introduction

The presented study focuses on evaluating the quality of cherry wood from Caraș-Severin County, with an emphasis on the Bocșa Forestry District. The research objectives include analyzing the evolution of the cherry species, starting with a study of soil characteristics that influence tree growth and development, up to the use of wood in the production of high-quality wines. Through analytical and experimental methods, we investigate the physical-mechanical properties of the wood and their impact on winemaking processes.

• Material and method

In this study, several experimental methods were applied to evaluate the properties of cherry wood and their impact on winemaking processes. Some of these methods include: Physical-Mechanical Analysis, Chemical Analysis, Anatomical Analysis, Spectroscopic Analysis, Microscopic Analysis, and Biological Degradation Tests. These methods have contributed to obtaining relevant data regarding the quality of cherry wood and understanding how it can influence winemaking. The results obtained will be essential for optimizing the use of cherry wood in the wine industry

• Results and discussions

These methods have contributed to obtaining relevant data regarding the quality of cherry wood and understanding how it can influence winemaking. The results obtained will provide an in-depth understanding of the contribution of cherry wood to the aromatic profile and structure of wines, with direct implications for its utilization in the wine industry. The study offers a fresh perspective on the potential of cherry wood in the region, thus contributing to its optimization in winemaking. Therefore, this endeavor represents an important step in the development and promotion of high-quality wines.

• Conclusions

In conclusion, research on cherry wood can contribute to optimizing winemaking processes and improving the quality of wines. Producers and oenologists can utilize these results to create better and more distinctive wines. Within this study focusing on the quality of cherry wood, there are significant implications for the wine industry. Cherry wood can enhance the flavor of wines. Its chemical and structural properties influence the aromatic composition of wines, adding subtle notes of vanilla, spices, or red fruits.