

GUIDELINES FOR MANAGEMENT OF COPPICE FORESTS IN BOSNIA AND HERZEGOVINA

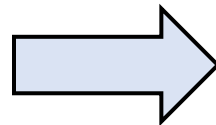
SUSTAINABLE FOREST MANAGEMENT UNDER THE CLIMATE CHANGE CHALLENGES BOSNIA AND HERZEGOVINA - FEDERATION OF BOSNIA AND HERZEGOVINA

Bruno Marić

GUIDELINES FOR MANAGEMENT OF COPPICE FORESTS IN BOSNIA AND HERZEGOVINA

GUIDELINES FOR MANAGEMENT OF BEECH COPPICE FORESTS IN BOSNIA AND HERZEGOVINA

Sarajevo, 2023



1. General characteristics of beech forests
2. Distribution and area
3. History of management planning
4. Ecological and production characteristics
5. Forest functions
6. Economic aspects
7. Long-term target structure and composition
8. Management strategy for beech coppice forests
- 8.1. Silvicultural treatment - general guidelines
9. Management of beech forests in stands with a protective function - stands with a pronounced slope
10. Measures in case of natural disasters
11. Poor quality stands
12. Guidelines for forest exploitation works
13. Annexes
14. Literature

PARTICIPATION AT THE 3RD INTERIM MEETING AND TRAINING REGARDING PRACTICAL IMPLEMENTATION OF FOREST MANAGEMENT GUIDELINES IN THE FIELD ON DEMONSTRATION PLOTS IN SEPTEMBER 2023 IN SERBIA

- Focus on the practical implementation of guidelines for High Mixed Beech forests on Goč mountain
- Faculty of Forestry University of Belgrade
- Interaction with fellow participants from neighboring countries Albania, Montenegro, and North Macedonia
- Field exercise and practical training on tree marking, which involved the utilization of Martelosopes in conjunction with the I + Software
- Introduction of I + software, with practical demonstration, on serbian designated demonstration plots



CONTACT WITH COLLEAGUES FROM EFI



[HOME](#)

[I+ SOFTWARE STORE](#)

[MARTELOSOPES AND DATA](#)

[DOCUMENTATION](#)



MARTELOSCOPE MAP AND SITE INFORMATION (215 SITES IN 24 COUNTRIES - STATUS SEPTEMBER 2023)

Marteloscope map



PREPARATION OF DEMONSTRATION PLOT KUPRES STOŽER

- Consultations with representatives from public forest company, ministry and silvicultural expert
- The size of a demonstration plot – Marteloscope Kupres Stožer 0,16 ha (square 40 x 40)
- Altitude 1553 m
- Coppice beach forest
- Public forest company Hercegbosanske šume doo Kupres
- Numbering and geo referencing of the individual trees
- 281 tree



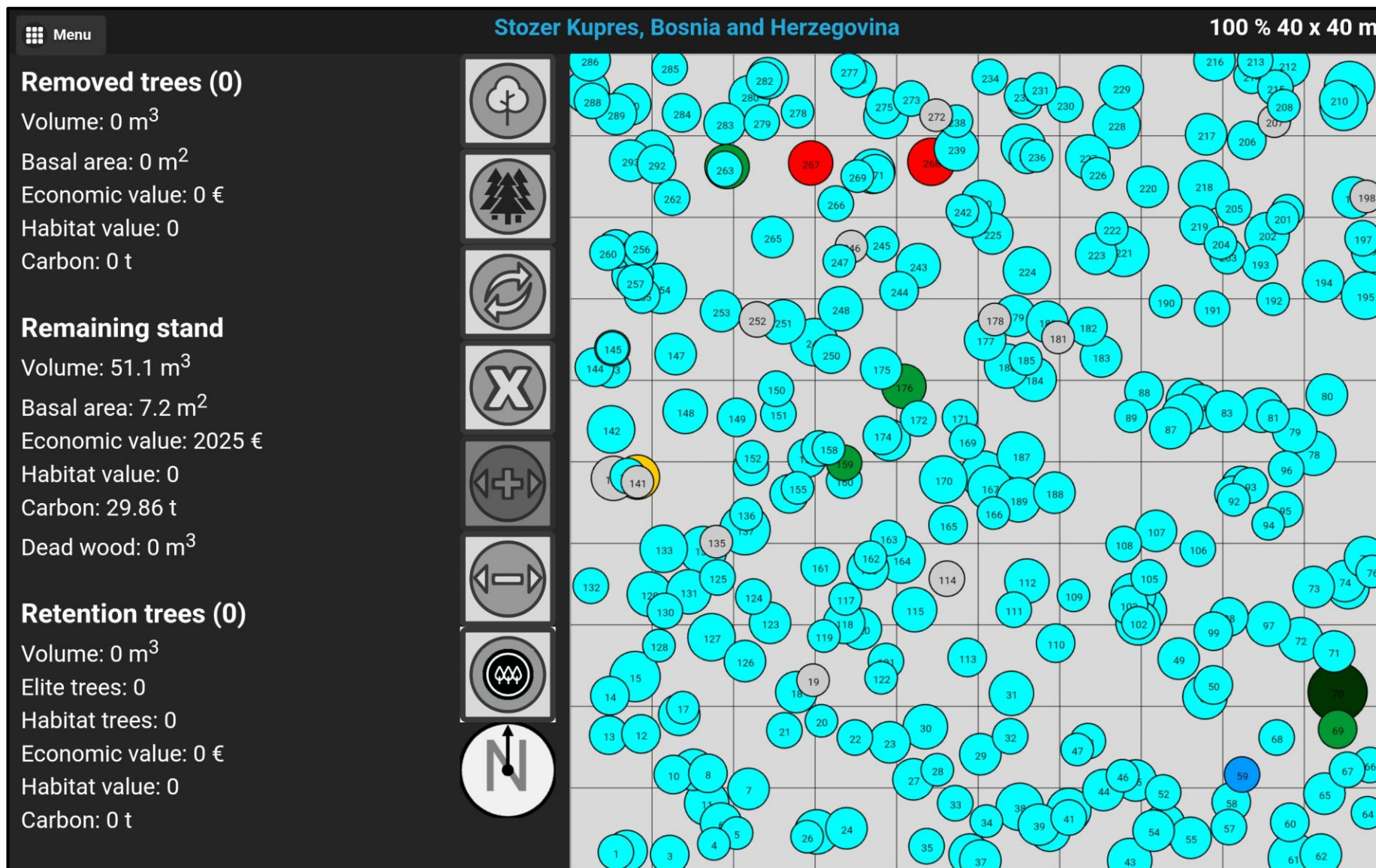
PREPARATION OF DEMONSTRATION PLOT KUPRES STOZER

The essential and mandatory parameters/variables that need to be assessed in each Marteloscope are the following:

- description of location and stand
- tree-ID (tree number)
- tree position (polar co-ordinates)
- tree species
- DBH (diameter breast height)
- tree height
- crown base height (initiation of crown)
- *evaluation of timber assortments for single tree*
- *based on timber assortments estimate of revenue for timber sales (use of local price lists)*
- *assessment of habitat structures/microhabitats for the single tree (based on an available catalogue provided by a microhabitat expert group).*



MARTELOSCOPE I+ SOFTWARE



First Marteloscope in Bosnia and Herzegovina in I+ Training software

ORGANIZATION OF PRACTICAL TRAINING OCTOBER 6TH 2023 IN KUPRES

- 12 participants from public forest companies, Hercegbosanske šume doo Kupres and Šume Republike Srpske, as well as national experts in sustainable forest management
- A set of presentations were given before the field visit.
- Prof. Dr. Faruk Mekić provided an overview of the guidelines for the management of beech coppice forests in Bosnia and Herzegovina
- Dr. Bruno Marić introduced the Integrate Network and the establishment of the first marteloscope in Bosnia and Herzegovina.



PRACTICAL TRAINING AT DEMONSTRATION PLOT KUPRES STOŽER

- Participants performed virtual tree marking, by using the Integrate+ software installed on tablets, focusing on the selection of elite trees and competitors.
- Once they completed their task, result reports were produced, followed by lively discussions both in the forest and during an indoor wrap-up session.
- Feedback from participants was overwhelmingly positive. The participants expressed that the marteloscope, in conjunction with the use of the tablet software, is a valuable educational and training tool for forest experts and interest groups. It was noted that this combination promotes discussion and exchange of experiences and knowledge among participants.



PRACTICAL TRAINING AT DEMONSTRATION PLOT KUPRES STOŽER

- Colleagues from Hercegbosanske šume doo Kupres expressed a keen interest in preparing a second demonstration plot in high beech forests to facilitate further training and education for their employees and interest groups.
- Hercegbosanske šume doo Kupres manage a substantial 70.000 hectares of coppice forests and believe that such training, along with the newly established guidelines for management of beech coppice forests and marteloscope, will significantly enhance their forest management knowledge and practice.
- Colleagues from public forest company Šume Republike Srpske expressed also interest in establishing a similar demonstration plot in high beech forests.



DISCUSSION OF THE RESULTS FROM THE PRACTICAL TRAINING

- Participants found the experiences shared during the establishment of the first marteloscope in Kupres to be valuable for their future endeavours.
- In conclusion, the training session served as an important step in advancing SFM practices for beech coppice forests in Bosnia and Herzegovina. The enthusiasm and commitment of the participants, coupled with the introduction of the marteloscope tool and guidelines, promise a better management of beech coppice forests in BiH



PARTICIPANTS AT THE PRACTICAL TRAINING



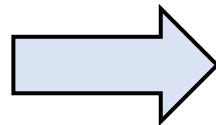
SUSTAINABLE FOREST MANAGEMENT UNDER THE CLIMATE CHANGE CHALLENGES

SUSTAINABLE FOREST MANAGEMENT UNDER THE CLIMATE CHANGE CHALLENGES

Country Report

BOSNIA AND HERZEGOVINA - FEDERATION OF BOSNIA AND HERZEGOVINA

October 2023



1. Introduction
2. SWOT analysis of the forest sector BiH, FBiH
3. Gaps in Sustainable Forest Management under Climate Change Challenges
4. Adoption of Law on Forest in Federation of Bosnia and Herzegovina
5. Development and Adoption of Climate Adaptation Strategies
6. Lifelong Learning System in forestry sector of Federation of Bosnia and Herzegovina
7. Literature

MAIN POLICY ISSUES IN BIH - FBIH

The Forestry program of the FBIH recognized 9 thematic areas:

1. **Jurisdiction, legislation and organization of the forestry sector**
2. Sustainable management of forest ecosystems
3. Socio-economic aspects of forest resource management
4. Relations between forestry and the wood-processing industry
5. Non-timber forest products and services
6. Environmental protection and spatial planning
7. **Forest and climate change**
8. **Education, research and development in forestry**
9. Information, communication and public relations

7. Develop and implement a comprehensive **climate adaptation strategy** for the forestry sector in BiH, FBIH focusing on sustainable forest management, capacity building, multilevel governance, early warning systems, research, and collaboration with all administrative levels and scientific institutions to address the specific challenges posed by climate change and enhance the resilience of the forests and ecosystems.

1. It is imperative that the authorities in the FBIH expedite the development and adoption of an umbrella **Law on Forests** developed with respect to the principles of forestry science and profession, participation, transparency and consensus, while overcoming political and administrative restrictions and precisely defining the competences, rights and obligations of all levels of government in matters of ownership and management of forest resources.

8. Create a professional organization for licensing in forestry FBIH, involving government, educational institutions, forestry businesses, and NGOs, to develop and implement a consistent **lifelong learning program** for forestry professionals. This program is crucial for enhancing education and training, addressing contemporary challenges in the forest sector, and aligning with the diverse requirements of businesses, public forestry administration, and NGOs.

THANK YOU FOR YOUR ATTENTION

