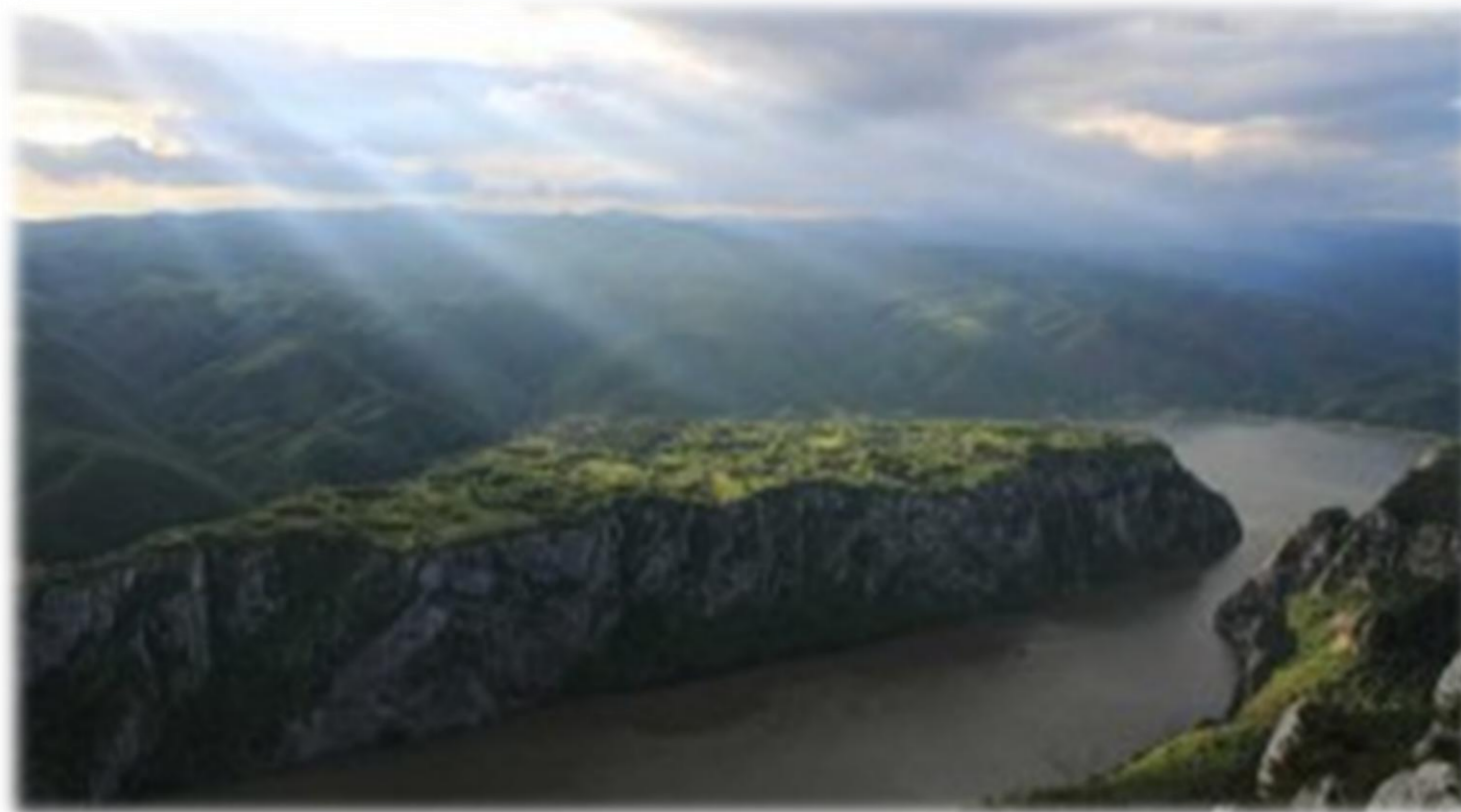


REPRESENTATION OF WILD FRUIT SPECIES SUITABLE FOR RED DEER FEEDING IN THE AREA OF "DJERDAP" NATIONAL PARK

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Djerdap National Park, is located in the northeastern part of Serbia, on the very border with Romania. Zones with various regimes of protecting spread across the surface of **637.68 square meters** along 100 km of the right bank of the **Danube** from Golubac all the way to Karatas at Kladovo (http://www.npdjerdap.org/novi/?page_id=11&lang=en). A total of **57 identified forest and shrub communities**. The flora and fauna known by its **diversity** and abundance.



Source: http://www.lovstvo.npdjerdap.org/?page_id=121

Red deer feeding at NP "Djerdap"

Red deer was in the past distributed in the hilly and mountainous regions of Central Serbia, but due to irrational hunting and the deteriorated stand conditions, already in 1905 it became an endangered species or it disappeared.

During the period from 1962 to 1964, red deer originating from Belje (n=16) and Mt. Fruška gora (n=2) were settled in the central area of the National Park in a place called "Kusi rt" (**Forest Management Unit "Zlatica"**), where an enclosed shelter area of about **6 ha** had previously been established. There is a registered presence of red deer at NP Djerdap (about **220 individuals** in spring 2017).

Considering that the red deer is fed with various forest plants, including berries, tree seedlings and the bark of trees, "Djerdap" is a **suitable area** for red deer feeding.

The **aim of this research** was to give a review of wild fruit species that are suitable for red deer feeding in the area of Djerdap National Park.

Identification of the species was done in different sites. Some of recorded fruit species are presented in table 1. In addition to name and original pictures from "Djerdap" National Park, medicinal parts (MP) of those plants, as well as a degree of their vulnerability (table 2), are presented.

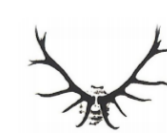
Table 1. List of investigated wild fruit species in the area of NP "Djerdap" (MP – medicinal parts)

<i>Alnus glutinosa</i> (L.) Gaertn. MP: mature cone (<i>A. fructus</i>), bark (<i>A. cortex</i>), leaf (<i>A. folium</i>)	<i>Cornus mas</i> L. MP: fruit (<i>C. fructus</i>), leaf (<i>C. folium</i>) bark (<i>C. cortex</i>)	<i>Corylus avellana</i> L. MP: fruit, leaf, bark, seed, fatty oil	<i>Corylus colurna</i> L. MP: fruit, leaf, bark, seed, fatty oil	<i>Crataegus monogyna</i> Jacq. MP: leaf (<i>C. folium</i>), inflorescence (<i>C. flos</i>), fruit (<i>C. fructus</i>)
<i>Juglans regia</i> L. MP: fruit, leaf (<i>J. folium</i>)	<i>Malus sylvestris</i> (L.) Mill. MP: fruit (<i>Fructus Mali</i>)	<i>Prunus avium</i> L. MP: petiole (<i>Cerasorum stipites</i>) fruit (<i>Fructus Cerasorum nigrorum</i>)	<i>Prunus spinosa</i> L. MP: flower (<i>P. flos</i>); fruit (<i>P. fructus</i>); root (<i>P. radix</i>); bark (<i>P. cortex</i>)	<i>Pyrus communis</i> L. MP: fruit (<i>Fructus Pyri communi</i>)
<i>Rosa canina</i> L. MP: fruit (<i>Fructus cynosbati</i>)	<i>Rubus fruticosus</i> L. MP: leaf (<i>Rubi fruticosi folium</i>) fruit (<i>Rubi fruticosi fructus</i>)	<i>Sambucus nigra</i> L. MP: flower (<i>Sambuci flos</i>), fruit (<i>Sambuci fructus</i>), bark (<i>Sambucus cortex</i>)	<i>Sorbus torminalis</i> (L) Crantz. MP: fruit	<i>Sorbus domestica</i> L. MP: fruit

Table 2. Vulnerability of investigated species

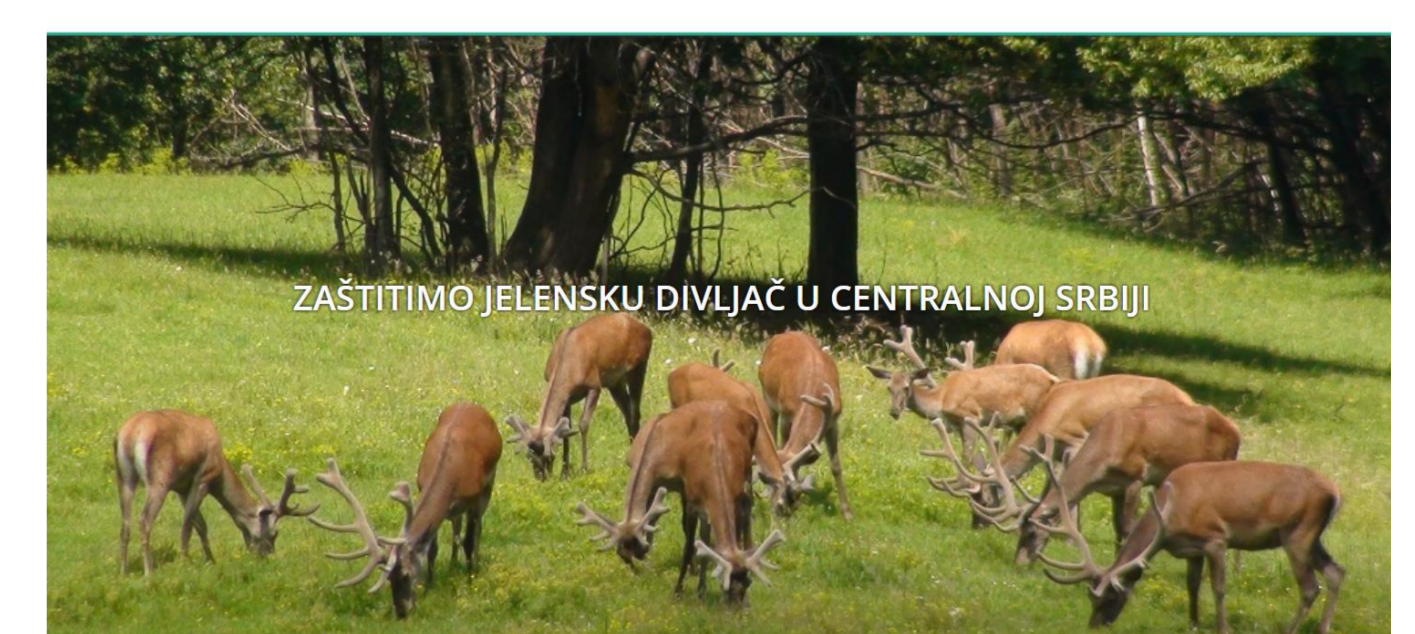
<i>Alnus glutinosa</i> (L.) Gaertn			
<i>Cornus mas</i> L.			
<i>Corylus avellana</i> L.			
<i>Corylus colurna</i> L.			
<i>Crataegus monogyna</i> Jacq.			
<i>Juglans regia</i> L.			
<i>Malus sylvestris</i> (L.) Mill.			
<i>Prunus avium</i> L.			
<i>Prunus spinosa</i> L.			
<i>Pyrus communis</i> L.			
<i>Rosa canina</i> L.			
<i>Sambucus nigra</i> L.			
<i>Sorbus torminalis</i> (L) Crantz.			
<i>Sorbus domestica</i> L.			
Total	1	3	6

- The species is protected as a protected wild species
- The species is commercial and refers to the provisions of the Regulation on placing under the control of the use and trade of wild flora and fauna
- Protected species whose collection from natural habitats, use and trade are placed under control and the amount of compensation for their use is determined.



This research was conducted within the project **SRBREDDEER**

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