



Cross-sectional analysis of economic values
of ecosystem services
Case Study no. 2

06.2022

Services provided by main types of ecosystems in Poland
- an applied approach

The project 'Services provided by main types of ecosystems in Poland - an applied approach' received funding from Iceland, Liechtenstein and Norway within the EEA Financial Mechanism 2014-2021 in the amount of 1,489,999 EUR, and from budget of Poland in the amount of 262,941 EUR. The aims of the project are transferring of scientific knowledge on ecosystem services which exists in Europe to the process of mapping and assessment of ecosystem services in Poland, as well as increasing the scientific potential and the ability of administration and interested social groups to Implement this approach in environmental management.

This study focuses on the recreational value, representing cultural ecosystem services, and its relationship with forest characteristics. Our analysis has been carried out for the forests of the Warsaw Agglomeration.

The study consists of the following parts:

- 1) The first part discusses the concept of total economic value in the context of forests.
- 2) The second part discusses the indicators of the recreational value of forests used for recreational value mapping. The second part consists of three subchapters:
 - a) Description and estimation of indicators linking forest features with recreational value,
 - b) Description and estimation of indicators combining the spatial characteristics of forests (area and status protective) with recreational value,
 - c) Indicators of actual recreational use and value based on a preference survey disclosed.
- 3) In the third part, the recreational potential and recreational value of the Warsaw Agglomeration forests were mapped. This was done using willingness to pay and an indicator based on consumer surplus.