ERRATA_Abstract_Strategies_2019

Strategies for invasive plant species solving in the municipalities of the Czech-Polish border

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THIS TITLE WAS CREATED WITH THE CONTRIBUTION OF THE PROJECT CZ.11.4.120 / 0.0 / 0.0 / 15_006 / 0000059 EVALUATION OF RESOURCES AND RISKS ASSOCIATED WITH INVASIVE PLANT SPECIES WITHIN THE BORDER AREA

Abstract

The project "INVARO" entitled CZ.11.4.120 / 0.0 / 0.0 / 15_006 / 0000059 „Evaluation of sources and risks associated with invasive plant species in the border area“ dealt with issues related to preventive measures of the spread of invasive plant species in the Czech-Polish border area (the project implementation period is from March 1, 2017 to February 28, 2019).

In order to assess the resources and risks associated with invasive plant species, in the vegetation period of 2017 and 2018, research on invasive plants and ecosystems was carried out in two model municipalities - in Orlová (Czech Republic) and Mszana (Poland).

In 2017 and 2018, research on invasive plant species and their communities was carried out in the municipalities of Orlová and Mszana using traditional geobotanical methods and at the same time remote sensing methods using unmanned aerial vehicles (drones). Their immediate result was the compilation of databases of invasive species and their sources.

The research found that the greatest threat to ecosystems and populations in pilot areas is due to the presence of invasive plant species, such as: *Heracleum mantegazzianum, Reynoutria japonica, Solidago canadensis, Solidago gigantea, Impatiens glandulifera a Impatiens parviflora*.

This study identifies the most important strategic issues for municipalities in the border area and examples of specific activities aimed at eliminating or reducing the negative impacts of invasive plant species and the possibility of obtaining financial support from domestic and foreign funds.

Chapter 1 presents a draft strategy of measures against invasive plant species for the municipalities of the Polish-Czech border, together with the method of management and mutual relations between individual areas of activity.

The following chapters provide the most important information about: • identification and methods of destruction of invasive plant species, • the most frequently used methods for their inventory, • migration routes and directions of invasion (which were presented on the example of research carried out in Orlová and Mszaná), • guidelines for municipalities to be used in preparing their own detailed plans • sources of funding related to the control of invasive plant species.

This information should support municipalities in developing and implementing procedures against invasive plant species.

CZ PL PŘEKRAČUJEME HRANICE PRZEKRACZAMY GRANICE 2014—2020

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