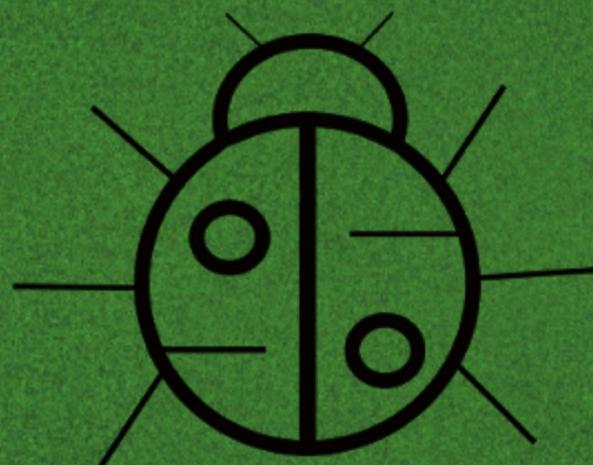




ALIEN SPECIES OF ANIMALS, FUNGI AND PLANTS IN BELARUS AND NEIGHBORING COUNTRIES



Book of Abstracts
of the 1st International Scientific Conference

Minsk
Belarus
March 23, 2021



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The materials are intended for researchers, university lecturers, graduate students, and students of specialized educational fields. The authors of each paper are solely responsible for the accuracy of the information presented, correctness of the citation sources, statistical, personal and other data given in the articles.

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NORTH AMERICAN TREES AND SHRUBS IN THE GREEN SPACES OF SURGUT (NORTH OF WESTERN SIBERIA)

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Introduction. The city of Surgut is located in the middle taiga in the north of Western Siberia. The conditions for the existence of plants are quite inclement here. Surgut is the largest city in the Khanty-Mansi Autonomous Region, and sufficient attention is paid to the creation and maintenance of green spaces in good condition. Information about introduced plants in the settlements located in the Far North is quite poor. However, knowledge of their composition and condition allows us to develop a sustainable and effective assortment for gardening in inclement conditions and to gain new knowledge about alien species. The study of the state of trees and shrubs in green spaces is part of a comprehensive study on the development of a sustainable assortment for landscaping in the north of Western Siberia (Egorov et al., 2019). This report presents an assessment of the diversity and status of North American tree and shrub species in the green stands of Surgut.

Materials and methods. The materials for the analysis were data on the composition of introduced trees and shrubs in the green areas of Surgut (Kukurichkin et al., 2014), as well as data from field surveys since 2015 of the green areas of the city. During evaluation the condition of plants, a winter hardiness scale was used, reflecting the frequency of freezing. We also took into account such indicators as the height of the plant and the form of growth (tree or shrub), the occurrence in the green spaces of Surgut. Special attention was paid to the self-seeding of the introduced species, that shows a certain degree of naturalization.

Results. In the green stands of Surgut, 12 species of trees and shrubs naturally growing in North America were identified, including 4 species of trees (for example, *Acer negundo*, *Populus balsamifera*, etc.) and 8 shrubs (for example, *Amelanchier alnifolia*, *Symphoricarpos rivularis*, etc.). It should be noted that such a species as *Padus virginiana*, that grows in the form of a tree in its natural range, in the conditions of Surgut grows in the form of bushe up to 3 m high. The other species retained their life forms. The tallest North American introduced tree species is *P. balsamifera* (up to 20 m tall), followed by *A. negundo* (up to 8 m), the others are below 2.5 m. The shrubs are up to 3 m tall. *P. balsamifera*, *Amelanchier spicata*, *P. virginiana*, and *Physocarpus opulifolius* are common North American species found in the city's green spaces. Other species are rare. Of the 12 North American introduced plants, 5 species showed resistance to winter conditions: *A. alnifolia*, *Ph. opulifolius*, *P. balsamifera*, etc. Naturalization (ornithochoria) has been observed in one species – *A. alnifolia*.

Conclusion. The survey of green stands in the Far North provided important information about the composition and condition of plants for the purposes of their introduction, identification of alien flora and the degree of its naturalization.

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