

**MORPHOMETRIC PARAMETERS OF THE GENERATIVE ORGANS
OF *PICEA OBOVATA* (PINACEAE) IN NORTHERN WEST SIBERIA**

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SUMMARY

Yamal-Nenets Autonomous District occupies the northern part of Western Siberia. Its geographical position determines the characteristics of the vegetation cover, reproduction, natural and artificial regeneration of tree plants. Study of the generative organs of woody plants have always paid great attention to. It is particularly important to study the parameters of seeds in the northern parts of the range where reproduction of woody plants is known to be significantly reduced. Siberian spruce *Picea obovata* Ledeb. in the north of Western Siberia is a common tree species, however, morphometric parameters of the generative organs have hardly been studied.

However, information on them is important to clarify the biological characteristics of the species in general, for natural and artificial reproduction of spruce forests in the northern part of the range of Siberian spruce. The aim of this work was to study intra-population (individual) variability of morphometric parameters of cones, seeds, impellers, seed weight in the north of Western Siberia.

In the northern sparse taiga Yamal-Nenets Autonomous Okrug all parameters of the generative organs of Siberian spruce were less than in the populations of the south. The average cone length was about 60 mm, the seed length was 4 mm, the seed width was 2.25 mm. The length of the impeller was 8.3–8.5 mm, width was 5 mm; 65 % of individuals had impellers, that contained red pigment in different amount.

The weight of one seed was 3.33 and 3.81 mg, coefficient of variation of this index was 10–13 %. Number of full seeds in a cone averaged 51–62 pcs., their total mass was 172 and 235 mg correspondingly, with significant intra-population variation (33–50 %). Results of the study were obtained for the first time, they complete information on the biological characteristics of Siberian spruce and may be useful for reproduction of spruce forests on the northern border of the species range.

Key words: *Picea obovata*, cone and seeds parameters, the Yamal-Nenets Autonomous District.