

**SPECIES COMPOSITION AND PHYTOMASS OF THE GROUND VEGETATION IN 25-YEAR OLD
LARIX SIBIRICA (PINACEAE) ARTIFICIAL FORESTS WITH DIFFERENT STAND DENSITY**

© *I. A. Goncharova*

Sukachev Institute of Forest SB RAS,

Federal Research Center «Krasnoyarsk Science Center SB RAS», Krasnoyarsk, Russia

E-mail: iagoncharova007@mail.ru

SUMMARY

The species composition and phytomass of ground layer have been studied in Siberian larch (*Larix sibirica* L.) artificial forest stands with different density in the southern taiga subzone of central Siberia (Krasnoyarsk Territory). Changes in the species diversity, projective cover and occurrence in ground layer depending on the stand density have been analyzed. Aboveground phytomass is maximum (68.0–317.1 g/m²) at tree density of 0.2–1.3 thousand trees/ha. The species mass varied from 0.01 to 124.2 g/m². The proportion of boreal tall herbs weight decreases whereas the proportion of boreal small herbs weight increases with increasing tree density ($P < 0.05$).

K e y w o r d s: live ground layer, *Larix sibirica*, stand density, phytomass.