

**Encadrement :**

Nom : Chernyshov

Prénom : Mihaïl

Qualité : Professor (Senior
Researcher)

Tel : +7(473) 253-78-19

Laboratoire: "Forestry and forest management" of Voronezh State University of Forestry and Technologies Named after G.F. Morozov

Adresse : 8, Timiryazev Str., 394087, Voronezh (Russia)

Courriel : lestaks53@mail.ru

Titre du stage :

THE STRUCTURAL FEATURES OF THE INTERLOCKING OF FOREST CULTURES OF A PINE

Mots clés :

Scots pine close canopy, structure, sanitary condition, variability of diameters and height increments

Résumé (150 mots maximum) :

Artificial reforestation is one of the methods of sustainable reproduction of forests widely used in the forest districts of the European part of the Russian Federation. In order to assess growth and quality of close canopy pine forest cultures, to identify the features of their structure along the diameter, and to study the variation in annual increments in height in 6- and 9-year-old forest stands, trial plots were laid by the standard method. Statistical processing of data on the continuous counting of pine plants is made. It is established that the distribution curves of trees in 1-centimeter steps of thickness have a single-vertex character, similar to the "normal" distribution. For objective silvicultural and inventory characteristics of close canopy forest stands and their transfer to lands occupied by forest plantations, and also in order to reduce labor costs during their inspection and forest inventory operations, it is quite sufficient to measure diameters at the altitude of 1.3 m and a height of 5-7 medium-sized pine plants and calculate their respective arithmetic mean values. The revealed dependence between the diameter of plants at an altitude of 1.3 m and their diameter at the soil surface in close canopy forest stands can be used in calculating damage according to stumps, illegally felled young pine trees for New Year Holidays.

Deux références bibliographiques :

1. Azon E. S. Ocenka kachestva nesomknuvshihnya lesnih kultur sosni obiknovennoi na virubkah v UchebnoOpitnom leshoze VGLTU imeni G.F. Morozova / E. S. Azon, M. P. Chernishov // Aktualnie napravleniya nauchnih issledovaniy XXI veka: teoriya i praktika / Sb. nauchn. trudov po materialam mejdunarodnoi konferencii «Novie podhodi v nauke i tehnike», 15-17 dekabrya 2015 g. – Voronezh, 2015. – P. 134-138.
2. Combining earth observation data and forest statistics / R. Päivinen [et al.] // European Forest Intitute and JRC: Italy, 2001. – 101 p.

Techniques mises en œuvre :

Measure of parameters (annual height increments, diameter (at 0 and 1.3 m) and height of plants)

Compétences particulières exigées :

Knowledge of Forest inventory techniques and forest ecosystem.