

## Application of industrial technology in the creation of forest silvicultures english oak, on sites in the Chuvash Republic

*V. A. Petrov – Candidate of biological sciences, senior researcher VBNILM's branch «East European forests experiment station», e-mail: tatlos@rambler.ru*

*V.I. Balyasny – Candidate of biological sciences, Leading Researcher, FSBI «State reserve "Prisursky"»*

*The paper shows outputs of common oak stand establishment technology applied in oak wood regeneration in the Chuvashia. It is based on a set machinery and equipment used in forestry. Its application enables mechanization of all silvicultural procedures of forest plantation establishments making it more efficient compared to other procedures.*

*Improved soil preparation promotes quality and efficiency of seedling planting. Labour consumption for oak seedling handling reduce by 1.8 times. Application of the industrial technology raise germination of oak plantations on average by 7–10 % growth in 1st 3 years by 2–2.4 times, that keeps for 6–7 years and over. The studies show that oak plantations established under the industrial technology and thinned under the target program are close to the model oak stands shaped by 30 year old stands in the Chuvaskaya Reopublic oak and linden stands.*

**Key words:** *oak forest plantations, efficient technology, thinnings, target program*