

Original article

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Forest Crops of Pedigree Oak Created by the Methods of B.I. Guzovsky in the Chuvash Republic

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Abstract. *The article presents long-term studies on the formation, preservation and change of biometric indicators of oak forest plantations, created according to the methods of B.I. Guzovsky on clearings by sowing acorns and planting seedlings in the forest type ostrich oak grove, the type of habitat conditions fresh oak grove in the Chuvash Republic.*

The preservation of oak forest plantations, regardless of the laying methods, was largely affected by the winter frosts of 1978/79. The forest crops of pure oak were especially hard hit, in which the accompanying species were periodically cut down during thinning. The resumption of accompanying species occurred only during the period of passing and sanitary cuttings, as forest stands thinned out.

Regardless of the methods of laying oak forest plantations and the thinning and sanitary cuttings carried out, by the age of maturity, forest stands in most plots were formed in two tiers: oak in the first tier, accompanying species of linden, maple, elm and elm in the second. The stock of accompanying species in the second tier constantly increased with age. At the same time, in most plots, oak cultures turned out to be very sparse sanitary cuttings and had a low stock.

Oak forest plantations, created by different laying methods and formed under the influence of thinning and sanitary felling, corresponded in height to the seed oak plantations of the Chuvash Republic of I class of bonitet, while they were inferior in diameter. Oak forest cultures, created by different methods of laying, did not differ in height and diameter.

Key words: *oak forest plantations, crop establishment methods, thinning and sanitary felling, two-tier stands, mixed composition, crop productivity.*

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