

INFLUENCE OF METHODS OF BASIC SOIL TREATMENT AND PREDECESSORS ON PRODUCTIVITY OF WINTER WHEAT

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The article is devoted to establishing the share of the influence of the methods of primary processing of leached chernozem soils and various predecessors on the yield and quality indicators of winter soft wheat grain of the Adele variety for soil-climatic conditions of the Republic of Adygea. In the course of the study, scientifically substantiated methods of reducing labor and funds were studied, while maintaining the high productivity of winter wheat when it is cultivated on leached chernozems of the foothill zone of Adygea.

As a result of field and laboratory studies, the most low-cost methods of primary tillage were identified and the positive effect of the fallow land used with pea-oat mix on green fodder against the background of plowing on the yield and quality parameters of Adele winter wheat grain; the economic efficiency of the proposed experimental options was calculated. Therefore, according to the results of the experiments, the largest grain yield of winter wheat was obtained when cultivating it by plowing (7.84 t/ha), which provides high-nature grain, with optimal glassiness and high quality gluten (1 group). Of the considered experimental options, the most profitable option was the cultivation of winter wheat on the fallow land, employed on the background of plowing (143.0%), for peas for grain against the background of surface treatment (141.5%) and for corn for silage against the background of plowing (132, 1%).

Keywords: winter wheat, dump plowing, non-mold cultivation, rotary treatment, surface treatment, precursor, fallow land occupied, peas for grain, corn for silage, grain yield, economic efficiency.

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