

Annotation

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Productivity of agricultural cultures depending on placing in the shortly field crop rotations of Left-bank Forest-steppe Ukraine

The article presents the levels of crop yield after growing different forecrops in grain and hoed and grain-vapor-hoed short field rotations for the production of food grain, forage grain and sugar beet on the basis of Cherkasy SAES NSC "Institute of Agriculture" NAAS of Ukraine. A great number of factors influence the growth and development of crops and the formation of principal products yield, as a consequence. Weather conditions during growing season and shift of crops are the most important factors.

Winter wheat provides the highest yield of food grain in short rotation, when it is grown after peas - 5.88 t / ha, which exceeds the performance of culture after growing annual grasses by 7%.

The highest yield of spring wheat was obtained after growing soya beans - 3.43 t / ha, however, its productivity decreases by 13 and 4% after growing corn and sugar beet.

Cultivation of spring barley after spiked cereal - spring wheat, decreases the productivity of forage grain comparing to its cultivation after corn by 10% with an absolute measure of 3.37 t / ha.

The highest yield of peas is obtained when it is grown after spring wheat, when soybean is a forecrop - 2.72 t / ha, however, it decreases by 6 and 11% after combined cultivation of spring wheat, spring barley and corn.

The productivity of corn is higher (6.20 t / ha) when it is grown after sugar beet which increases yields comparing to spring wheat by 3%.

The cultivation of sugar beet in a five-course rotation, combined with the cultivation of pea, spring wheat and sugar beet ensures the yield - 52.2 t / ha, however growing of annual grasses and legumes - spring wheat and sugar beet reduces yields by 9%.

The use of spring barley as a forecrop of vetch and oat mixtures improves yields by 7%, comparing to corn.

Key words: *shortly field crop rotations, predecessor, pre-predecessor, productivity, one-year herbares, wheat, is winter-annual, a wheat is furious, a barley is furious, pea, beets are saccharine, corn*