

## **DYNAMICS OF ENZYMATIC ACTIVITY OF CHERNOZEM ORDINARY IN CONDITIONS OF FIELD STATIONARY EXPERIENCE OF FEDERAL RANGE**

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Long and intensive use of agricultural soils causes many changes. In this connection the results of long stationary experiments and experiments with long use of fertilizers are of interest. First of all these changes affect the enzyme activity of the soil while the main agricultural chemical factors remain comparatively stable. So the aim of this work was to study the dynamics of changes in enzymatic activity of Chernozem Ordinary on ploughed field with different levels of fertilization. The results of the research have shown that the basic changes enzymatic activity occur in layer of soil of 0–20 sm. As a whole mineral fertilizers stimulate the enzymatic activity of the Chernozem Ordinary. The doses of  $N_{40}P_{40}K_{40}$  are the optimal on the increased level regarding the biochemical processes. From parameters considered in work the urease activity is the most sensitive biochemical parameter of long influence of fertilizers.