

## **REPRODUCTION OF SOIL FERTILITY UNDER DIFFERENT FARMING SYSTEMS.**

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*Researches in the stationary field experience are set advantage of the ecological system of agriculture in stabilizing of maintenance of humus in soil, increases of its microbiological activity and receipt of the productivity of agricultural cultures at level or considerably higher than control.*

***System of agriculture, fertility, microbiological activity, wheat, corn, productivity***

System of biological agriculture significantly inferior to the control yield for all crops grown, due to the significant deterioration phytosanitary condition of crops, because here we are limited to making remedies crops from weeds, pests and diseases. Among the main cultivation systems significantly exceeded the control or was at polytsevo-bezpolytseva system.

Thus, the typical black soil humus soil stabilization and increase soil microbial activity can be achieved by the introduction of zonal model of ecological farming systems involving system polytsevo bezpolytsevoho-tillage in corn-row crop rotations. The reality of resource support this model grounded as possible the mobilization of organic fertilizers - manure crop plants syderalnyh mass, surface and root residues.