L. Kvasnitska

THE BALANCE OF MOISTURE IN CROP ROTATIONS WITH CORN FOR GRAIN

The paper presents the results of the investigations conducted in the long-term experiment aimed at determining the effects of the crop rotation factor and fertilizer systems on the overall water consumption and coefficient of water consumption in crop five-course rotations of the sufficient moistening of Right-bank Forest-steppe zone.

It has been determined that under the increase in the crop rotation saturation with grain crop up to 100 % (including 40 % of corn for grain) the overall consumption of moisture for obtaining 1 tone of dry substances crop decrease by 31 %.

The saturation of nutritive crop rotations with high yield crops results in the increase in not only the overall yielding capacity but in the efficient moisture consumption as well.

Key words: corn for grain, water consumption coefficient, nutritive balance, five-course rotation.