The effect of fertilizer and biostimulators on some aspects of productivity in winter wheat

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In 2008-2009 crop year an experience took place at the Ezăreni-Iaşi farm where there was intended the measured effect of chemical fertilizer and biostimulators on MMB value, weight and number of grain per wheat ear, Boema variety. The extraradicular application of biostimulators had the effect of increasing the value of MMB by 1.1 g at the treated with BCO-2K variant than at control variant. Very significant differences to the MMB value than the control variant, 3.8 g respectively 3.3 g , were obtained from the interaction between N160P90K90 x BCO-2K and N60P60K60 x BCO-4K. The largest number of grain was obtained in the treated with BCO-2K biostimulators variant, meaning 30.2 grain / wheat ear. The interaction between fertilization and biostimulators showed BCO-2K biostimulator x N120P90K90 with 32.0 grain/wheat ear respectively BCO-2K x N60P60K60 31.6 grain / wheat ear. The biostimulators influenced grain weight in wheat ears, and close values were achieved on the treated with BCO-2K and BCO-4K biostimulators variants. Variants treated with BCO-2K biostimulator and fertilized with N160P90K90 and N60P60K60 have obtained the highest weight of grain in the ear, the difference from the control variant of 1.55g and 1.48 g being very significant.