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## RESEARCH ON THE EFFECTS OF SOIL IMPROVEMENT BY FERTILIZATION ON THE QUALITY OF WINTER WHEAT

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### Abstract

Some doses of compost obtained in farms were tested during 2004-2006, comparative to chemical fertilization, at S.C. Șoimul S.R.L. from Vacareni Plain, Jijila village, Tulcea district. It was found out that fertilization with 30 t/ha of compost had established the highest production of wheat Dropia variety, 6512 kg/ha, with 40.7 % higher than unfertilized variant and 16.8 % higher than N160P80K80 fertilized variant.

The highest protein content of 15.21% has been obtained in the case of using the chemical fertilizing with N<sub>160</sub>P<sub>80</sub>K<sub>80</sub>, followed by 14.91% when 30 t/ha of compost was applied for fertilization of soil. Also, the content in wet gluten was 28.6% and 28.39%, respectively, which is considered as a very good result. The obtained results showed the feasibility of organic fertilization of soil with compost for winter wheat cultivation.

*Key words:* chemical fertilization, compost, protein, wet gluten

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