

Report
on verifying the action of BIO-GEL organic product (S.B. Osipenko individual entrepreneur) on winter wheat
according to agreement № 18 of 13.04.2018.

Kherson

July, 2018

Verification was conducted in NIBULON association (Snigurivska branch) in the field of winter wheat (*Bunchuk* variety) of the second reproduction on non-irrigated lands, the vegetation period of 2017-2018. The autumn-spring weather was quite adverse for winter wheat growth, thus the plants practically could not form a secondary root system and, in the absence of productive spring precipitation and high temperature, did not form a potential productivity.

The technology in the control and experiment was conventional but at the stages of stem elongation and earing BIO-GEL was added to the pesticide tank mixture, the dose being 1.5 l/ha, while the fungicide rate was reduced by 20%.

According to the verification results the following conclusions were made:

When BIO-GEL was added to the tank mixture for double foliar spraying at the stages of stem elongation and earing, the dose being 1.5 l/ha, the yield in the experimental plot was 3.85 t/ha, while in the control – 3.23 t/ha, thus the yield gain amounted to 0.62 t/ha, or 19.2%.

Phenological observations and biometric measurements testified to the positive changes in winter wheat vegetation compared to the control, namely: lower effect of adverse weather, higher resistance to diseases, longer vegetation period, more intensive growth, greater tillage capacity and greater number of productive stems, stronger root system, including the secondary one. The latter characteristic is of great importance under the conditions of drought and extreme temperatures in the south of Ukraine.

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