REPORT
on testing BIO-GEL product with *Subaro* sunflower variety

1. **Enterprise name:** *YuTC-Agroproduct* association
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3. **Persons in charge of conducting research**: M.M. Moskalenko, chief agronomist, S.M. Yanush, head of the department, S.O. Zayets, PhD, head of agrotechnology department, Institute of Irrigated Farming, NAAS, V.A. Marchuk, chief agronomist of BIO-GEL company
4. **Crop:** sunflower
5. **Precursor:** winter wheat
6. **Control plot:** 26 ha
   Experimental plot: 26 ha
7. **Date of sowing:** April, 14 – 18, 2018

Scheme of treating experimental and control areas

Control plot	Experimental plot
Alfa-Star 0.025kg/ha, Trend PAR 0.1 l/ha, Lamdex 0.2 l/ha	Alfa-Star 0.0175 kg/ha, Trend PAR 0.1 l/ha, Lamdex 0.13 l/ha, BIO-GEL 1,5 l/ha
-	BIO-GEL 1,5 l/ha

On the experimental plot at the time of the second herbicide application the rate of Alfa-Star was reduced by 30%, the rate of Lamdex insecticide was reduced by 35% compared to the control plot.

According to the results of sunflower harvesting the yield in the experimental plot was 2.32 t/ha, while in the control it was 1.95 t/ha, which is 0.37 t/ha less.

Conclusion

BIO-GEL double application for spraying plants increases sunflower yield by 0.37 t/ha (+19.0%) and reduces the pesticide load by 25-35%.

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