



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF
THE [OF THE RUSSIAN FEDERATION FSBSI "KURSK
FEDERAL AGRARIAN SCIENTIFIC CENTRE"

A.Ya. Bashkatov, Zh.N. Minchenko

SOYBEAN CULTIVATION TECHNOLOGIES IN KURSK REGION



Kursk-2020

Research experiments of the fertilizer based on EKO-SP humus substances in soybean cultivation

Besides the ones listed above products, in 2020 on the basis of Kursk Federal Agrarian Scientific Centre a new generation compound fertilizer based on EKO-SP humus substances, produced by EKOR-SP.

EKO-SP is a natural organic green-labelled product, produced from plant raw materials (lowland peat), contains humic and fulvic acids, plant hormones, amino and simple organic acids, microelements as chelates, useful soil microflora. EKO-SP is a plant immunity inducer, it has adaptogenic properties, promotes anti-stress resistance of plants to diseases and adverse environmental conditions, it has high chemical purity and solubility, increases yield and product quality. The product is used for seed and foliar treatment of plants and can be used nearly at all stages of the vegetation period (from seed treatment to additional fertilization after plants have been under stress).

This product has passed more than 40 agricultural trials in different regions of Russia: Rostov, Kursk, Belgorod and other regions, as well as in Kazakhstan and Belarus. The results of agricultural trials confirm high efficiency of EKO-SP fertilizer in increasing the soybean yield, from 7% to 15% with improvement of quality characteristics.

Tests of this product showed good results on soybean, winter and spring wheat, barley and other crops.

The test results for soybean crops in the conditions of chernozem soils of Kursk region demonstrate high efficiency of EKO-SP fertilizer. Application of EKO-SP fertilizer under pre-sowing cultivation at a dose of 2.5 l/ha and repeated treatment of crops in the phases of the 1st ternate leaf and the 6th ternate leaf at a dose of 1 l/ha increased the soybean yield by 3.1 dt/ha, the protein content in soybean by 1.3%, and grain oil content by 0.6%.

The use of EKO-SP product for soybean crops was economically advantageous due to its high efficiency, low cost and low doses of application.

In this regard, we recommend using EKO-SP for pre-sowing cultivation at a dose of 2.5 l/ha and the treatment of crops in the phases of the 1st ternate leaf at a dose of 1 l/ha and the 6th ternate leaf at a dose of 1 l/ha.

At the 22nd All-Russian agro-industrial exhibition "Golden Autumn 2020" in Moscow, EKO-SP product was awarded a gold medal "For the achievement of high performance in increasing crop production and soil fertility".