

Response

OF APPLICATION OF BIOORGANIC FERTILIZER "BIOPLANT FLORA" TO WINTER WHEAT AT LLC "RUCHYOVSKOYE" (Tver oblast)

Tests of bioorganic fertilizer Bioplant Flora on oats sowings have been carried out at LLC "Ruchyovskoye" in the period of spring - summer 2007.

Processed culture – oats cultivar "Bug". Processed area – 480 ha.

Forecrop - perennial grasses, grain. Nitroammophoska has been applied before seeding (16:16:16) at the rate of 0,8 centner/ha, thereafter seeds have been compacted.

Processed culture – oats cultivar "Argamak". Processed area – 50 ha.

Forecrop – summer wheat. Nitroammophoska has been applied before seeding (16:16:16) at the rate of 0,8 centner/ha, thereafter seeds have been compacted.

Seed material has been processed before seeding at the rate of 2,0 l of Bioplant Flora per 1 t of seeds.

Processing in the tillering phase has been carried out at the rate of 2-4 l/ha (concentration of water solution 1:350) simultaneously with application of herbicide "Laren" with application norm S/ha using OP-2000 sprayer.

Comparative analysis of processed and control plot has demonstrated that:

1. Processing of seeds allowed to increase the germination energy and prevent root rots.
2. Douching with Bioplant Flora brought along the development of massive root system, that allowed plants to normally survive the 2007 drought.
3. The lamina size has pronouncedly increased resulting in intensification of photosynthesis.
4. Size of ear and grain weight has increased.
5. No root rots or fusarios has been detected on plants processed with Bioplant Flora, the rust damage has significantly decreased, although no fungicides have been applied.
6. Plants processing with herbicides has not resulted in deceleration of vegetation.
7. Preparation effectiveness increases with increase of dosage from 2 l/ha to 4 l/ha.
8. Application of Bioplant Flora has allowed to receive:

Yield of oats cultivar "Bug" making 18 centner/ha, yield productivity of control plot without processing with preparation made 14 c/ha.

Significant increase of oats cultivar "Bug" yield made 29%. Yield of oats cultivar "Argamak" made 28 centner/ha, yield productivity of control plot without processing with preparation made 19 centner/ha.

Significant increase of oats cultivar "Argamak" yield made 47%.

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