

Response

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

Tests of bioorganic fertilizer Bioplant Flora on winter wheat cultivar "Imeni Rapoport" have been carried out at LLC "Ruchyovskoye" in the period of autumn 2006 and spring - summer 2007.

Forecrop - perennial grasses.

Processed area – 60 ha.

Total area of winter wheat sowings – 245 ha.

The seeds have been processed with Bioplant Flora solution before seeding at the rate of a 2 l of preparation per ton of seeds.

No mineral fertilizers have been applied before and during seeding. In spring, as soon as soil became ready, nitroammophoska (16:16:16) has been applied via ground distributor MVU-0,5 at the rate of 1 centner/ha, thereafter diagonal harrowing has been carried out.

In the phase "tillering – stem elongation" douching of sowings with Bioplant Flora has been conducted at the rate of 5 l/ha (concentration of water solution 1:350) simultaneously with application of "Paren" herbicide with application norm S/ha via sprayer machine OP-2000.

No other processings have been carried out.

Winter wheat has been harvested in the "complete ripeness" phase.

Comparative analysis of processed and control plot has demonstrated that:

1. Processing of seeds and douching with Bioplant Flora resulted in development of massive root system, that allowed plants to normally survive the 2007 drought.
2. The lamina size has pronouncedly increased resulting in intensification of photosynthesis.
3. Size of ear and grain weight has increased.
4. 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.
5. Plants processing with herbicides has not resulted in deceleration of vegetation.
6. Application of Bioplant Flora allowed to receive the yield of wheat making 20 centner/ha, yield productivity of control plot without processing with preparation made 14 centner/ha. Significant yield increase made 43%.

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