

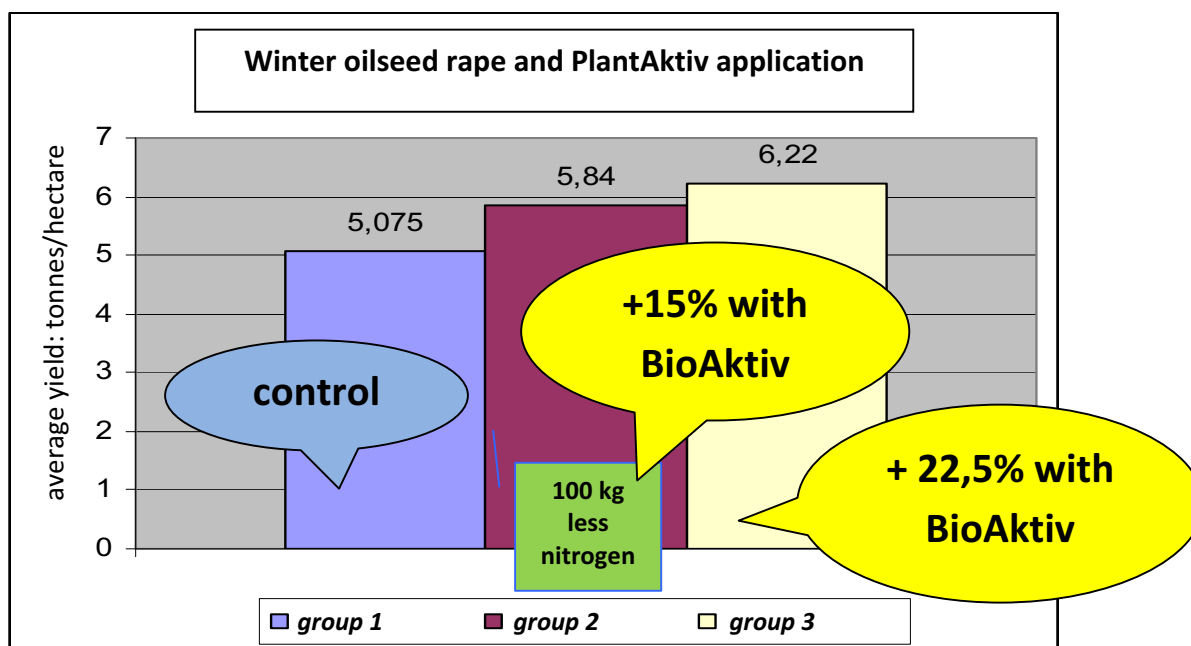
BIOAKTIV

Evaluation of PlantAktiv (BioAktiv for plants) – winter oilseed rape Petr Mikeš (Skramouš, Mělník, Czechia)

Area: 3 hectares of EXQUISITE DEKALB (hybrid); 5 hectares control plot
Seedtime: Aug. 22, 2011; 1 seed unit/hectare; preceding crop: spring barley
Agro-techniques (ha): 200 kg NPS 49 Timac prior to sowing, 200 kg of nitrogen fertilizer during the vegetation period, 3 times fungicides (1* in autumn); 3 times insecticides;
PlantAktiv (BioAktiv for plants) 1kg/hectare;
weed desiccation with Roundup rapid and Elastik.

Control group no. 1 was compared with group no. 2 in which nitrogen fertilizer was reduced by 100 kg (27 kg of pure nitrogen) and PLANTAKTIV (BioAktiv for plants) used instead, and with group 3 where the full amount of nitrogen was applied together with PLANTAKTIV (BioAktiv for plants).

The harvester was a NEW HOLLAND CX 8080.



In each group, **24 check weighings** were made directly with the harvester. The end result is the average of all weighings.

The diagram shows the yield of the **control group (no. 1)** to be **5.075 tonnes/hectare**.

The yield for group no. 2 with reduced nitrogen (100 kg of fertilizer=450–550 Kč), **5.84 tonnes/hectare**, is 0.83 tonnes above that of the control group, giving an **economic benefit of 9.550 Kč** if the price of rape were 12,000 Kč/tonne and after deducting the cost of PlantAktiv and its application.

The yield of 6.22 tonnes/hectare for group no. 3 is 22.5 % above that of the control group and 6 % better than in group no. 2. Compared with the control group the difference is 1.15 tonnes, **or 13,390 Kč after deducting costs**.

Average total yields including turning loops were 4.67 tonnes/hectare for all groups.

The harvesting date was July 24, 2012.

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