

BIOAKTIV

PlantAktiv
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BioAktiv for Plants

Application of PlantAktiv with winter oilseed rape - Engineer Vladimír Kohout - Heřmanová Huť



Area: "behind the playground" 27 ha

Type: ROHAN

Soil composition: sandy – loamy

Soil preparation: ploughing, 2x, system compactor

Preceding crop: winter barley

Fertilisation:

- 10.8. – NPS 49 – during sowing
- 16.3. – DASA 2g
- 17.4. – DAM 200 l.
- 6.5. – DAM 100 l.

Crop protection:

- 12.8. – Rapsan N 400 1.5 l + Reaktor 360 CS 0.2 l/ha
- 10.9. – Topprex 0.3 + Fusilade Forte 150 EC 1 l/ha
- 10.4. – Topprex 0.4 + PLANTAKTIV 1 kg/ha
- 14.4. – Nurelle 0.6
- 10.5. – Amistar 1 l + Vaztak 10 EC 0.1

PlantAktiv was used over half of the area. During harvesting the result was entirely clear: **yield 3.9 t/ha for the PlantAktiv area, 3,5 t/ha for the untreated control area.** Based upon this year's mean price of 10,000 Czech crowns the difference of 0.4 t/ha gives an **economic benefit of 2650 Czech crowns per ha** after subtracting the costs of using PlantAktiv.

Heřmanova Huť,

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Application of PlantAktiv with winter oilseed rape Puklice Agricultural Owners' Cooperative



Type: Artoga, **Soil preparation:** ploughing + towing, **Soil composition:** light soil, **pH:** 5.4 in 2009, 20 t dolomitic lime in 2011, **Sowing:** 15.8.2012, **Preceding crop:** winter barley, **Sowing rate:** 2.8 kg/ha

Fertilisation: 9.8. 2q ¹NPK (8% N, 35 % K, 28 % P), + 0.5q potassium salt
6.3. 2.5q LAV
16.4. 3q DASA
25.4. 140 l DAM 390

Crop protection:

16.8. 0.25 l Butisan + 0.15 l Reactor + 0.25 l Grounded
7.9. 0.9 l Gramin + 0.6 l Caryx
17.9. 0.4 l Caryx + 1 l boron + 1 kg PlantAktiv
17.4. 0.6 l Nurelle + 1 l potassium humate + 0.5 l Toprex + 0.5 l Alert + 1 l boron
1.5. 0.6 l Nurelle
14.5. 0.8 l Amistar extra + 0.2 l phenol
6.7. 1.25 l Spodnam

With the same agricultural technique PlantAktiv was spread over 30 ha of the 60 ha field and 30 ha were left as an untreated control area. Application and harvesting were by a worker who had marked the relevant areas. **The yield for the area sprayed with PlantAktiv was 4.93 t and the yield of the control area 4.63 t. The difference of the yields was therefore 0.3 tonnes per hectare.** For our agricultural operation this represents a very good economic result. PlantAktiv for plants from BioAktiv CZ has clearly proven to be a lucrative means, which we therefore also use for maize and spring barley.

Puklice, 17.9.2013

Agriculturalist: Vlastimil Měrtl

¹ q = quintal (translator's note)

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PlantAktiv for plants, private farmer Linhart (Mělnické Vtelno) Application with winter wheat (Federer)



Area:	“on the Řepiner street (5 ha)	near Vrutice (15 ha)
Preceding crop:	soya	winter oilseed rape
Sowing:	5.10.2012	28.9.2012
Fertilisation:	Polyfos 1.5q/ha	fermentation residues 3.5 t + Amofos 1q/ha (fermentation residues for improving the yield)
pH:	6	6
Agricultural technique:	classical	classical
Soil type:	moderately heavy	moderately heavy
PlantAktiv:	18.4.2013 – herbicide	herbicide only

Yields: 8.1 t/ha

7.7 t/ha

The difference of the yields is 4q²/ha. The economic benefit with the use of PlantAktiv for plants is therefore 1648 Czech crowns/ha. After subtracting the costs for using PlantAktiv (389 Czech crowns) **1 259 Czech crowns/ha** remain.

A further positive effect with the use of PlantAktiv was found with winter oilseed rape. **We used PlantAktiv already for the third season in succession and investigated its reliability and effectiveness.** We also use BioAktiv preparations in animal production.

Martin Linhart
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Mělnické Vtelno, 23.7.2013

² q = quintal (translator's note)