

# AGROSTEMIN<sup>®</sup>



*Dr. Danilo Gajić*



*Taquara – STATE REGION 2011 / 2012*  
*Ranch 44 which is a part of Cotaquara cooperative*

**EFFECTS OF AGROSTEMIN® APPLICATION ON PAPRIKA**  
*( *Capsicum annuum* )*



## LOCATION

Ranch 44 which is a part of Cotaquara cooperative, Taquara – State Region.

Soil preparation and fertilizer and pesticide application was standard and at identical level on all plots, whether treated or control one.

Seedlings were planted on October 25, 2011.

## EXPERIMENTAL METHOD

The experiment included three variants ( **T1, T2, T3** ) of **AGROSTEMIN**<sup>®</sup> – "green" formula application (300 g/ha) and Control ( **K** ) – four in total.

## Variants

The experiment included three variants ( **T1, T2, T3** ) of **AGROSTEMIN**<sup>®</sup> – "green" formula application and Control ( **K** ) – four in total:

**T1** – 5 rows of 350 m<sup>2</sup> square area, **AGROSTEMIN**<sup>®</sup> – "green" formula;

ONLY ONCE: the dose corresponding to standard dose of 300 g/ha, i.e. 10.50 g at 350 m<sup>2</sup>,  
15 days after transplanting;

**T2** – 5 rows of 350 m<sup>2</sup> square area, **AGROSTEMIN**<sup>®</sup> – "green" formula, treated twice;

FIRST TIME: the dose corresponding to standard dose of 300 g/ha, i.e. 10.50 g at 350 m<sup>2</sup>;

SECOND TIME: the dose was cut in half (150 g/ha), i.e. it was 5.25 g on 350 m<sup>2</sup>,  
20 days after the first application;

**T3** – 5 rows of 350 m<sup>2</sup> square area, **AGROSTEMIN**<sup>®</sup> – "green" formula, treated twice;

FIRST TIME: the dose corresponding to standard dose (300 g/ha), i.e. 10.50 g at 350 m<sup>2</sup>;

SECOND TIME: the dose corresponding to standard dose (300 g/ha), 10.50 g at 350 m<sup>2</sup>,  
20 days after the first application;

**C** – "**Control**", also 5 rows of 350 m<sup>2</sup> square area, **AGROSTEMIN**<sup>®</sup> was not applied.

**View of greenhouses**



**Second application of AGROSTEMIN®**



## Coverage of foliage mass with powdery mildew (*Erysiphe cichocarum*) of untreated and treated plants



The plants treated with **AGROSTEMIN**<sup>®</sup> ( variants **T1**, **T2** and **T3** ) showed significant resistance to powdery mildew maintaining the degree of infection at 15%, while in the plants not treated with **AGROSTEMIN**<sup>®</sup> ( **K1**, **K2** i **K3** ) the infection was considerably more prominent covering up to 50% of foliage on an average.

The difference in the height of treated and untreated plants on March 17, 2012

Without AGROSTEMIN® ( "green" )

With AGROSTEMIN® ( "green" )





**Picking paprika on February 28, 2012**





## Results of each individually picking

No	Date	T1 ( crates )	T2 ( crates )	T3 ( crates )	C ( crates )
1.	31 / 12 / 2011	30	30	28	26
2.	10 / 01 / 2012	27	27	23	26
3.	04 / 02 / 2012	51	54	61	43
4.	28 / 02 / 2012	40	34	25	24
5.	17 / 03 / 2012	44	47	42	40
6.	10 / 04 / 2012	39	35	25	21
7.	30 / 04 / 2012	34	33	29	26
8.	22 / 05 / 2012	33	32	24	25
<b>TOTAL</b>	<b>yeld ( crates )</b>	<b>298</b>	<b>292</b>	<b>257</b>	<b>231</b>
	<b>increase ( % )</b>	<b>+ 29 %</b>	<b>+ 26.40 %</b>	<b>+ 11.25 %</b>	

**T1** – AGROSTEMIN® – "green"; only once; dose 10.5 g at 350 m<sup>2</sup> (300 g/ha); 15 days after planting out

**T2** – AGROSTEMIN® – "green"; treated twice:

first time – dose 10.5 g at 350 m<sup>2</sup>; second time – dose 5.25 g at 350 m<sup>2</sup> (150 g/ha), 20 days after the first application;

**T3** – AGROSTEMIN® "zeleni", treated twice:

first time – dose 10.5 g at 350 m<sup>2</sup>; second time – dose 10.5 g at 350 m<sup>2</sup> (300 g/ha), 20 days after the first application;

**C** – "Control" AGROSTEMIN® was not applied.

## CHRONOLOGY & RESULTS

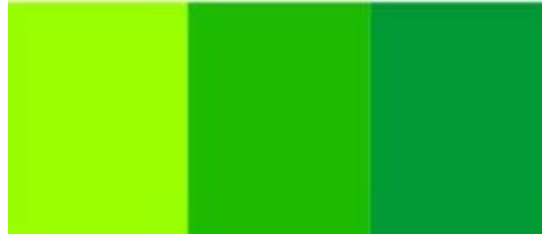
The first harvesting was done on December 31, 2011, 66 days after transplanting of seedlings.

There were eight harvests in total, and the last one was on May 22, 2012.

One-off treatment with the dose of 300 g/ha ( **Variant T1** ) resulted in the yield which was **29% higher** than the yield on the control plot.

Two treatments ( **Variant T2** ), 300 g/ha for the first time and 150 g/ha for the second time, resulted in the yield which was **26.40% higher** than the yield on the control plot.

Two treatments ( **Variant T3** ), 300 g/ha both the first and second time, resulted in the yield which was **11.25% higher** than the yield on the control plot.



**AGROSTEMIN**<sup>®</sup>



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