

AGROSTEMIN[®]



Dr. Danilo Gajić



**INFLUENCE AND EFFECTS OF AGROSTEMIN®
APPLICATION ON CHUCHU PLANT JILÓ**
(Solanum aethiopicum L. – Gilo Group)



The demonstration test was carried out in the Good Hope Village Centre, Federal region – Brazil, in the course of 2011.

Testing methodology

The demonstration test was conducted in the open, in the field of 900 square meters surface area with 252 stalks treated with **AGROSTEMIN**[®] and in another field of the same size with the same number of plant stalks which served as control plants, processed in a standard way and untreated with **AGROSTEMIN**[®].

I treatment – foliar: leaves and stems were sprayed with water solution of **AGROSTEMIN**[®] in the quantity proportionate to standard dosage of 30 g/ha, at the time of aestivation, i.e. 55 days after transplanting.

II treatment – foliar: both leaves and stems were sprayed with water solution of **AGROSTEMIN**[®] in the quantity proportionate to the standard dosage of 30g/ha, directly after ninth harvest.

First treatment – foliar



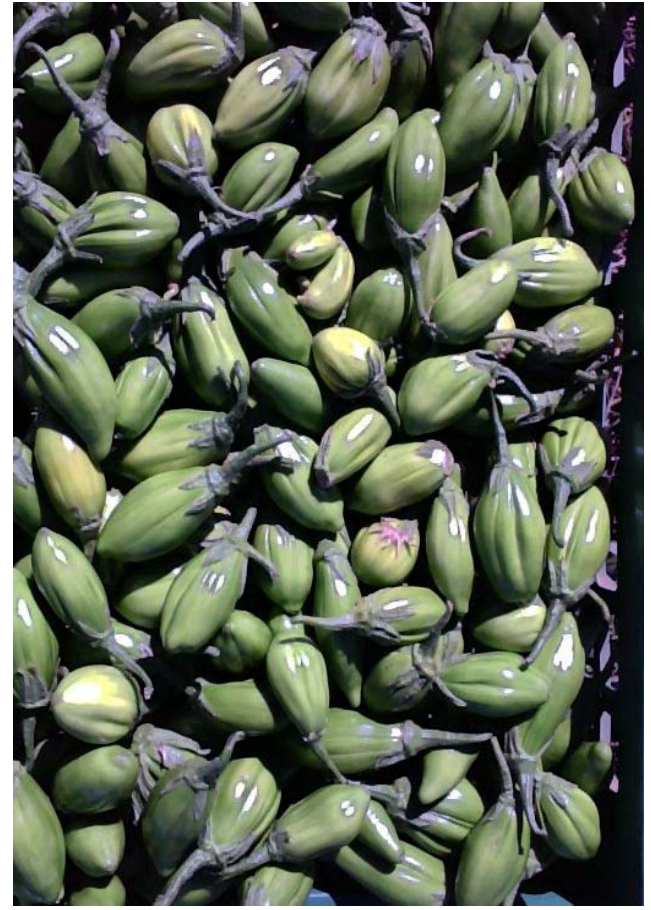
Gilo plant with fruits



PICKING



GILO FRUITS



R E S U L T S

Picking	Date of picking	AGROSTEMIN®		Control		Inceas	
		mass (g)	crates	mass (g)	crates	mass (g)	crates
i	28.07.2011.	69.800	4	51.300	3	18.500	1
ii	05.08.2011.	88.400	5	92.600	5,5	-4.200	-0,5
iii	11.08.2011.	120.200	7	86.300	5	33.900	2
iv	18.08.2011.	131.200	8	56.500	3	74.700	5
v	25.08.2011.	170.900	10	133.000	8	37.900	2
vi	01.09.2011.	92.300	5,5	60.100	3,5	32.200	2
vii	15.09.2011.	50.200	3	59.700	3,5	-9.500	-0,5
viii	22.09.2011.	86.100	5	112.300	6,5	-26.200	-1,5
ix	29.09.2011.	89.700	5	90.400	5,5	-700	-0,5
x	07.10.2011.	138.100	8	88.200	5	49.900	3
xi	14.10.2011.	79.200	4,5	48.100	3	31.100	1,5
xii	21.10.2011.	58.700	3,5	24.100	1,5	34.600	2
xiii	28.10.2011.	41.300	2,5	34.200	2	7.100	0,5
xiv	04.11.2011.	55.600	3	97.300	5,5	-41.700	-2,5
xv	11.11.2011.	67.300	4	122.500	7	-55.200	-3
Total		1. 339.000	78	1.156.600	67,5	182.400	10,5

CONCLUSION

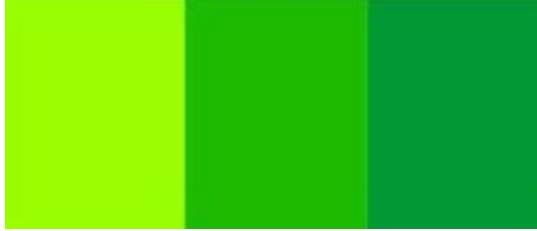
1. Increase of yield in kg: 182,40 kg = > 15,8%
2. Increase of yield as a num. of crates : 10,5 cxs = > 15,6%
3. Gross increase of yield in Real (r\$): 10,5crates x r\$23 = r\$ 241,5
4. Investment in **AGROSTEMIN**[®] : r\$ 32 (2 x r\$ 16)
5. Net yield increase in r\$: r\$ 241,5 - r\$ 32 = r\$ 209,5 = > 13,5%
6. Profitability of investment: r\$ 32 (**AGROSTEMIN**[®]) = > r\$ 209,5 (net)

r\$ **1** = > r\$ **6,55** (net)

Important Note:

From the 7th harvest there was a tendency of drop of yield at the plants treated with **AGROSTEMIN**[®]. This tendency continued at the 9th harvest. The initial positive difference in yield in favour of treated plants of 36% decreased at the 7th harvest to 16% in favour of the untreated ones.

On September 29, 2011, right after the 9th harvest, the plants were sprayed with standard dosage of **AGROSTEMIN**[®] of 30g/h (i.e. 2.7g per 900 square meters) in order to stop the observed (from the 7th harvest) tendency of drop of yield increase. After 8 days, during 10th harvest, the treated plants were observed to have recuperated, their new blossoming intensified and yield increased.



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