

EFFECTIVENESS OF KAMASOL AQUA ON BROCCOLI CROP



Murcia, 27rd of May, 2016



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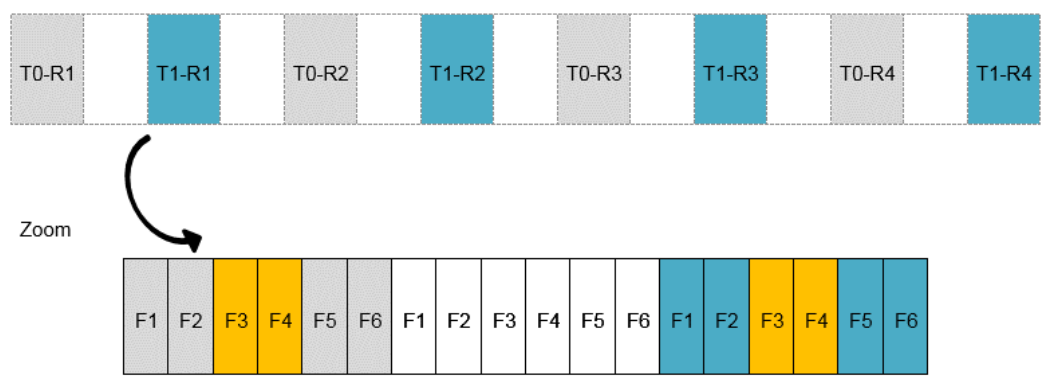
The objective of this study was to assess the efficacy of the product Kamasol Aqua, in the infiltration rate of soil and production of broccoli.

Culture conditions

Location: Lorca (Región de Murcia)

Crop	Variety	Number of plant/ha	Seeding date	Type of irrigation
<i>Brassica oleracea</i> L. var. <i>italica</i>	Parthanon	50000 pl/ha	21/01/2016	Drip

Design	Number of treatments	Number of repetitions
Randomized complete block design	5	4



Graph 1 Experimental design



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TREATMENTS

Code	Treatment	Product	Cycle Dose	Dose	Frequency
T0	Control	-	-	-	-
T1	Treated	Kamasol Aqua	9 l/ha	1 l/ha	Weekly

APPLICATIONS

Date	Application
04/02/2016	1
12/02/2016	2
16/02/2016	3
25/02/2016	4
02/03/2016	5
09/03/2016	6
18/03/2016	7
28/03/2016	8
13/4/2016	9

PARAMETERS EVALUATED

- Phytotoxicity
- Climatic conditions
- Precocity
- Production
- Growth and development
- Infiltration root

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Application 2



Application 3



Application 6



Application 7



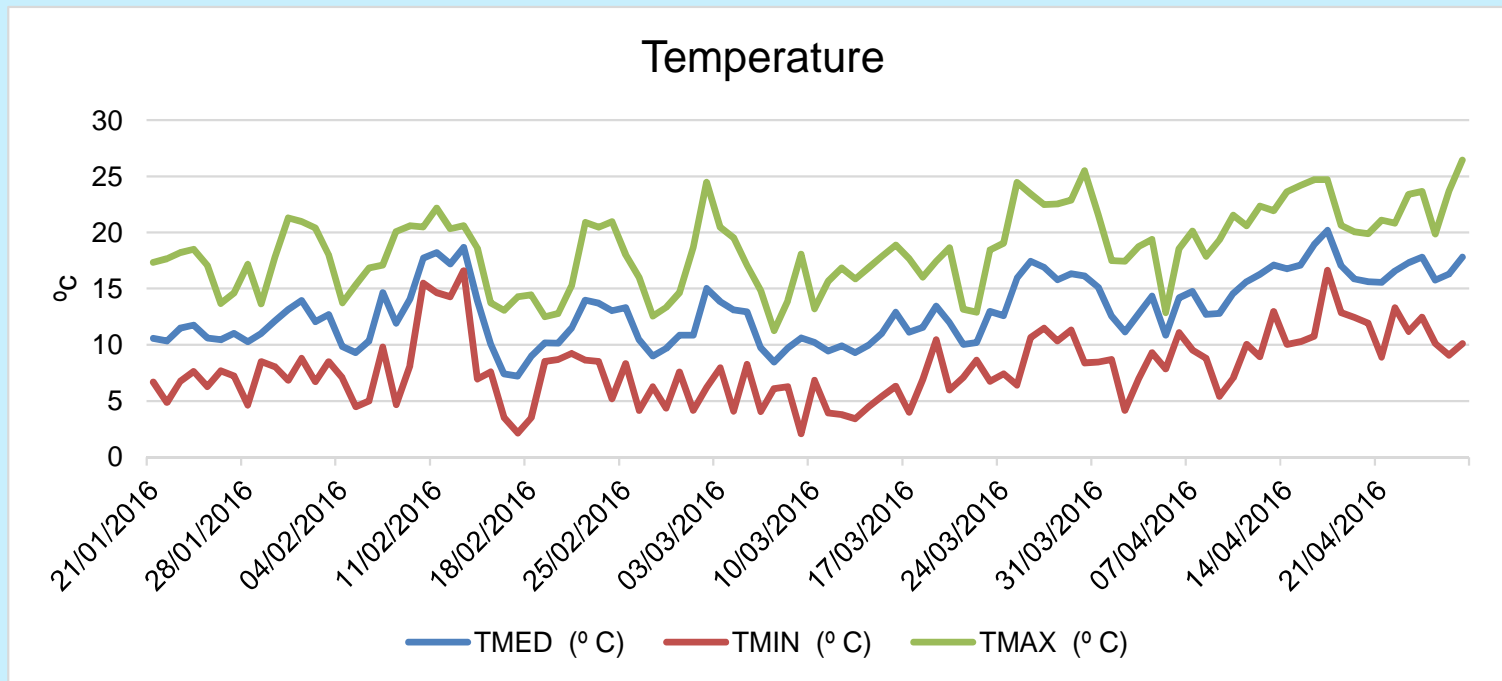
May, 2016

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RESULTS

Phytotoxicity: The plants showed no symptoms due to phytotoxicity.

Climatic conditions

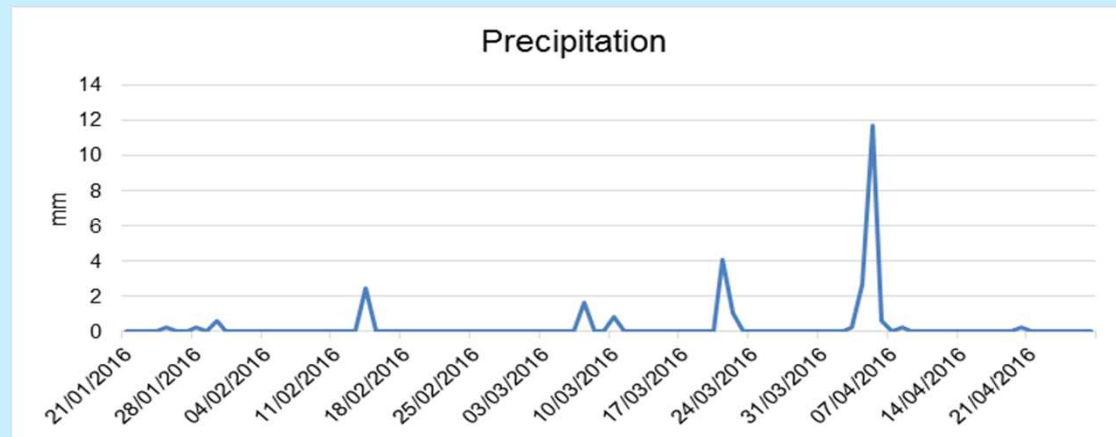
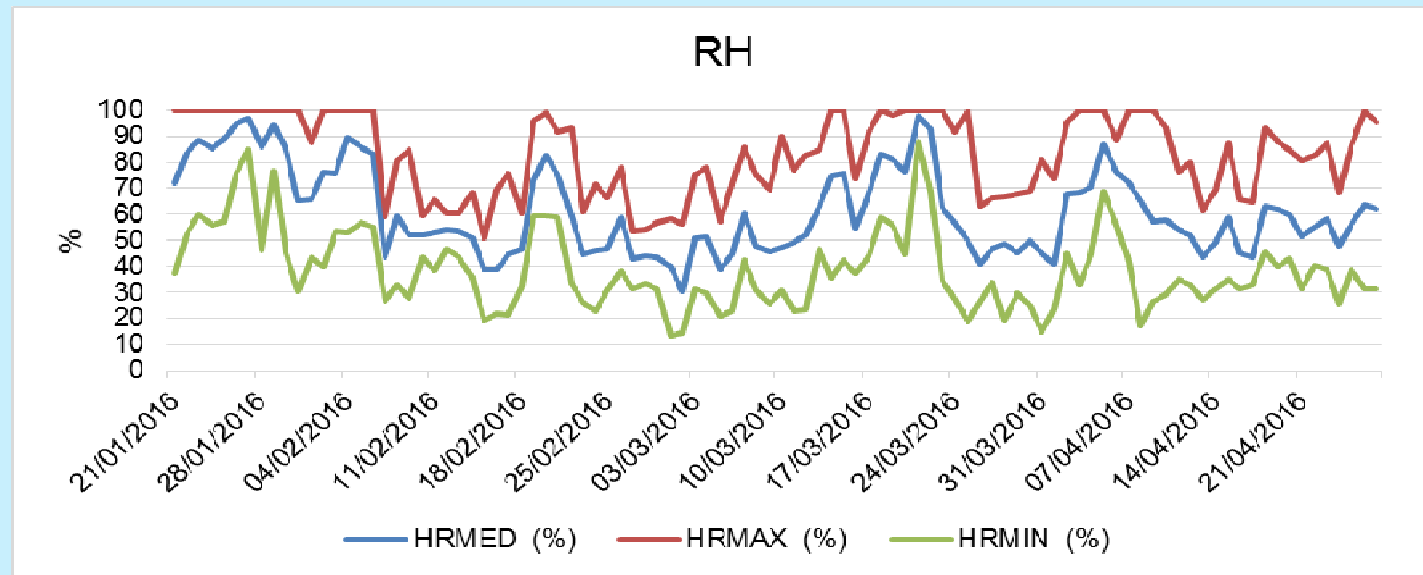


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Climatic conditions



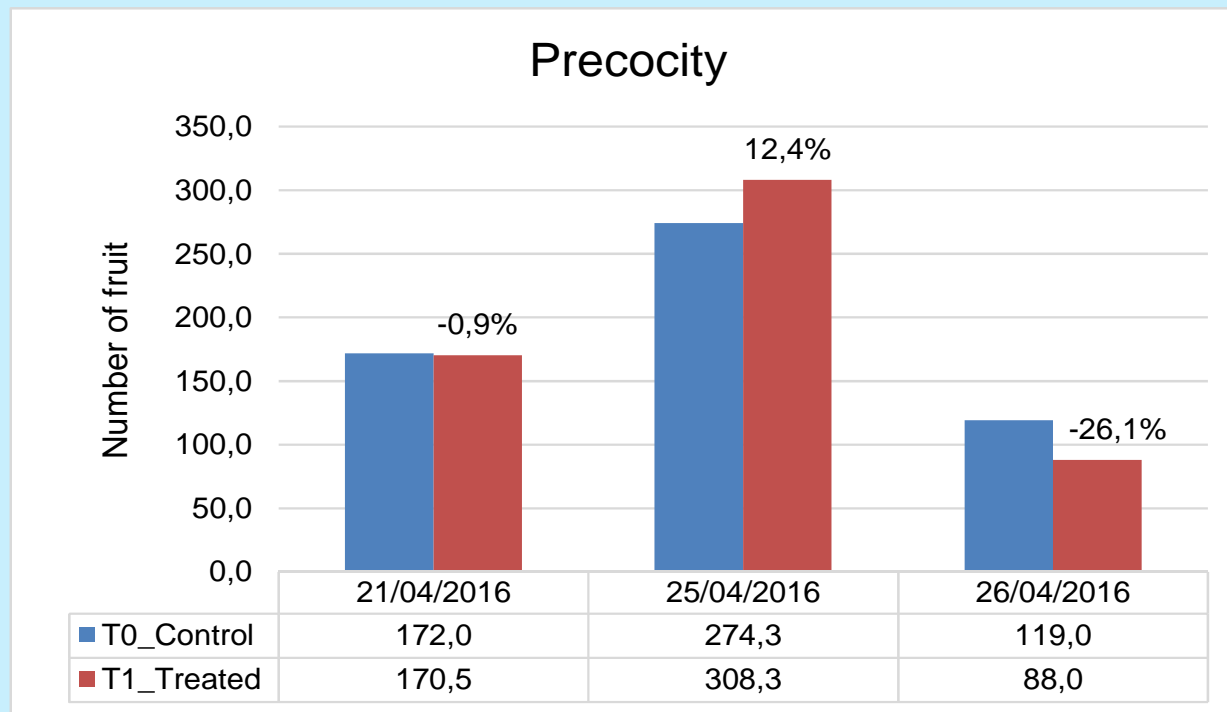
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Precocity The precocity was evaluated in plots of 120m² (with 600 plants)

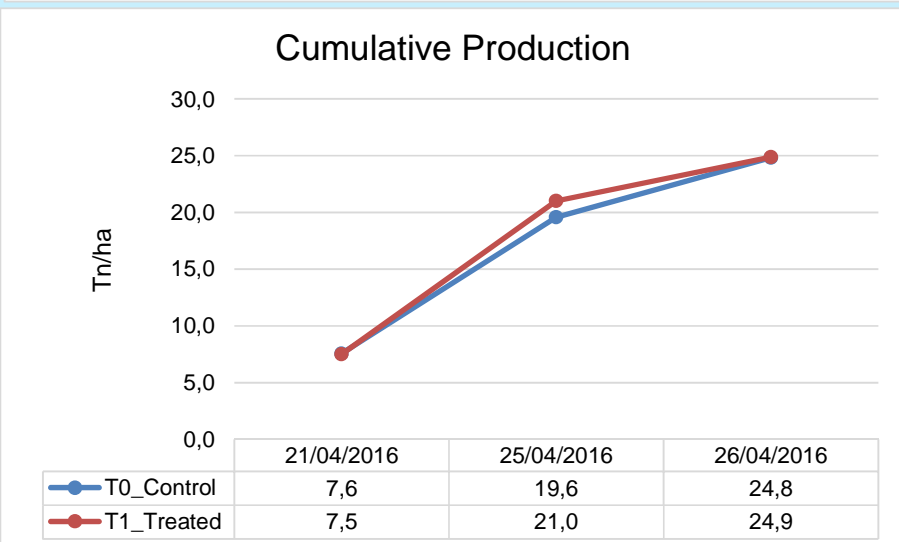
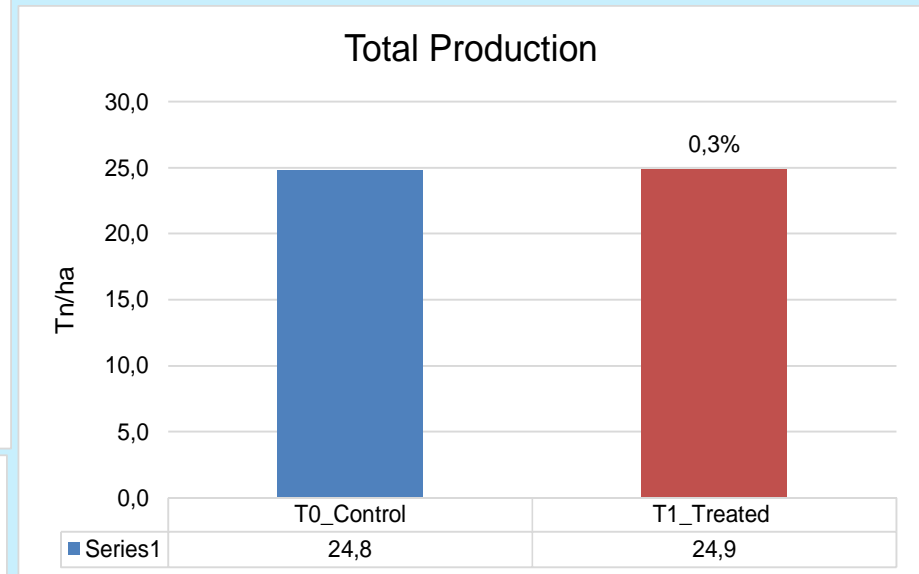
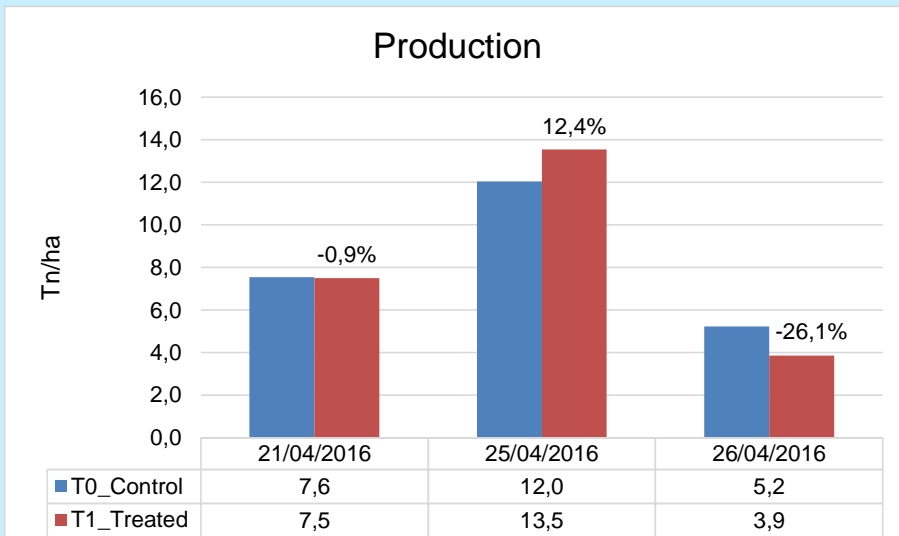


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Production



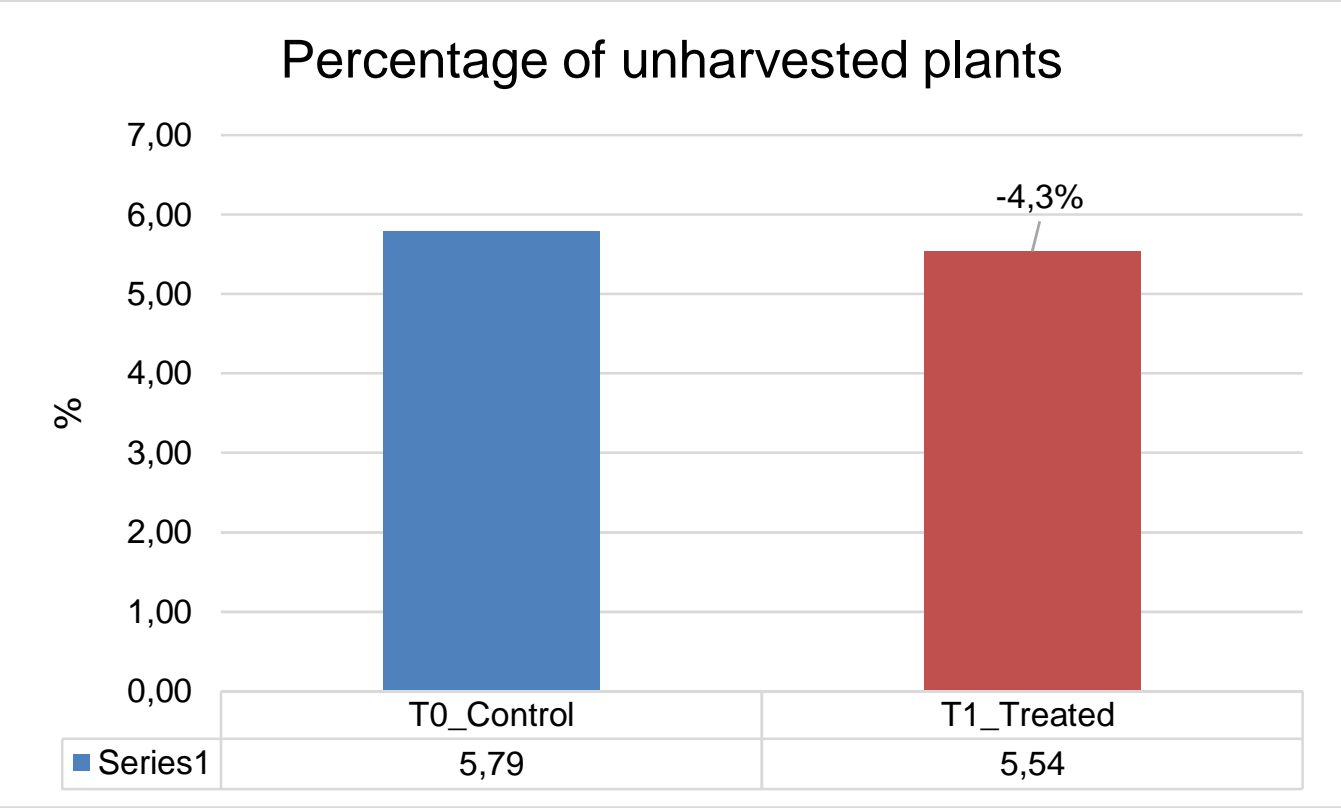
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RESULTS

Percentage of unharvested plants



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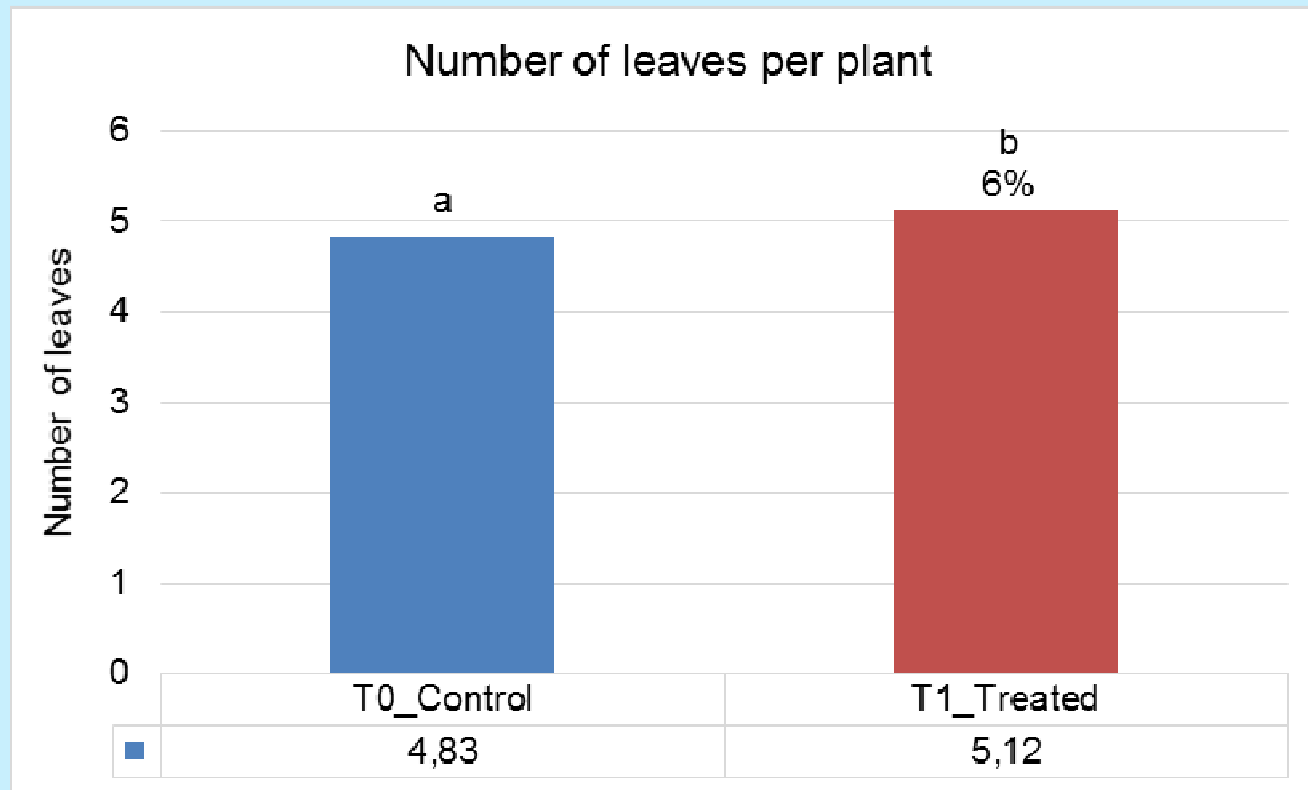


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RESULTS

Growth and development

Number of leaves per plant



23 March

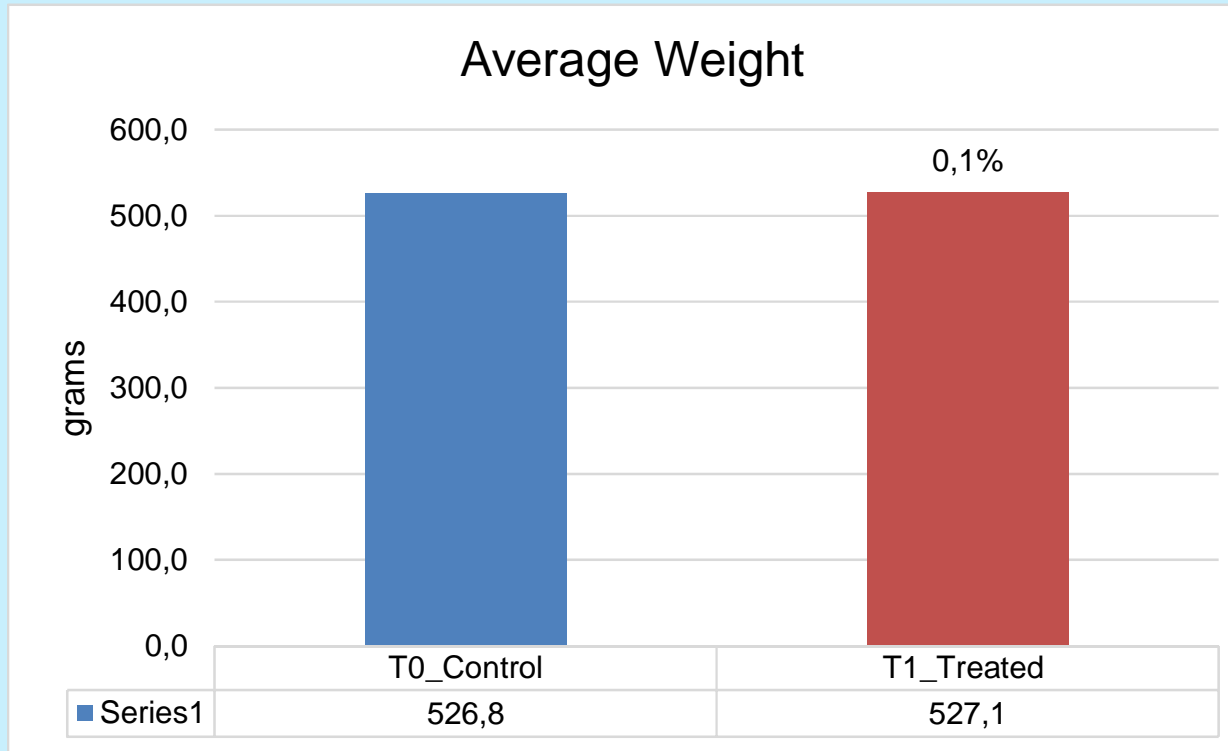


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Growth and development

Average weight



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RESULTS

Growth and development

Root growth

T0_Control



T1_Treated

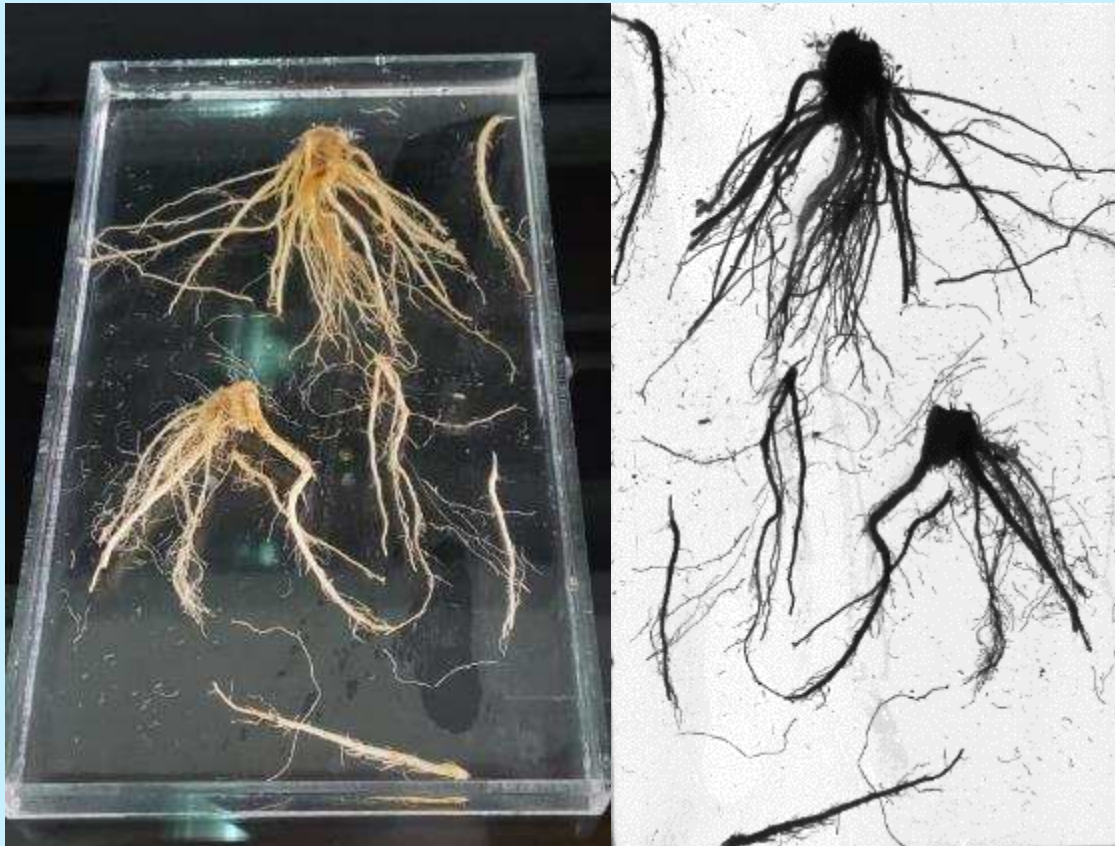


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RESULTS

Growth and development

Root growth



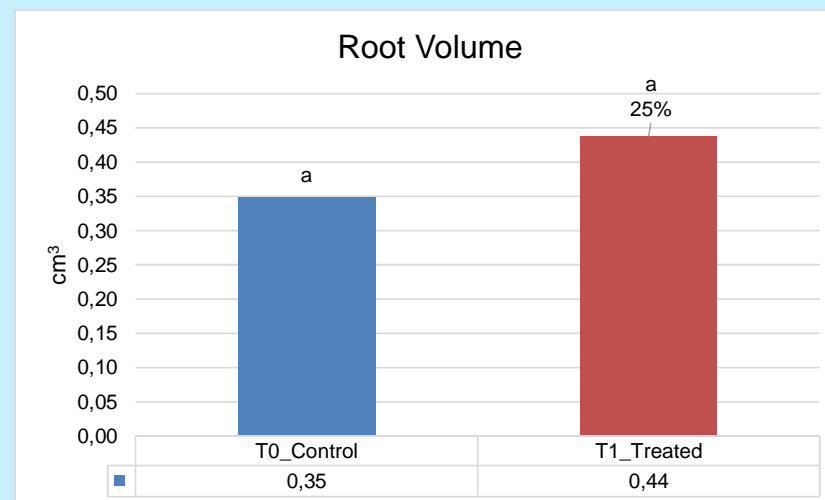
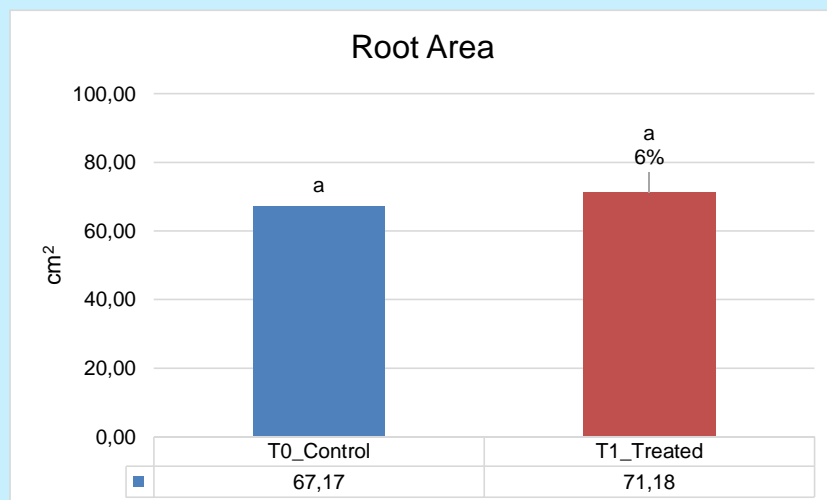
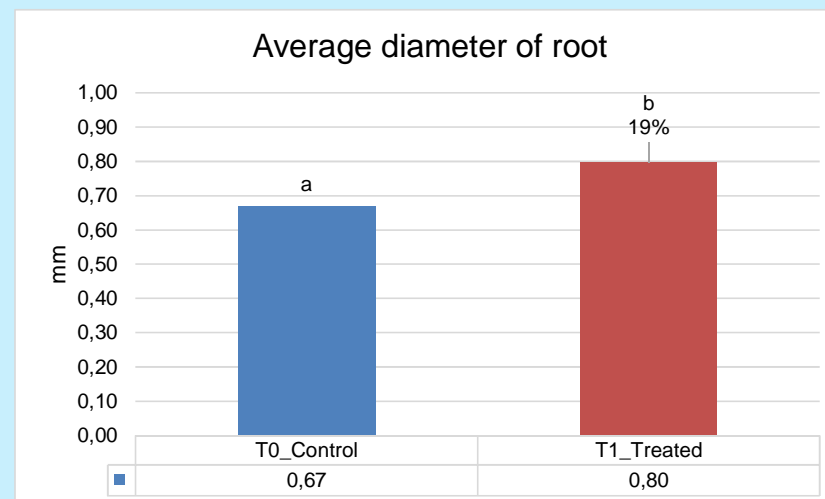
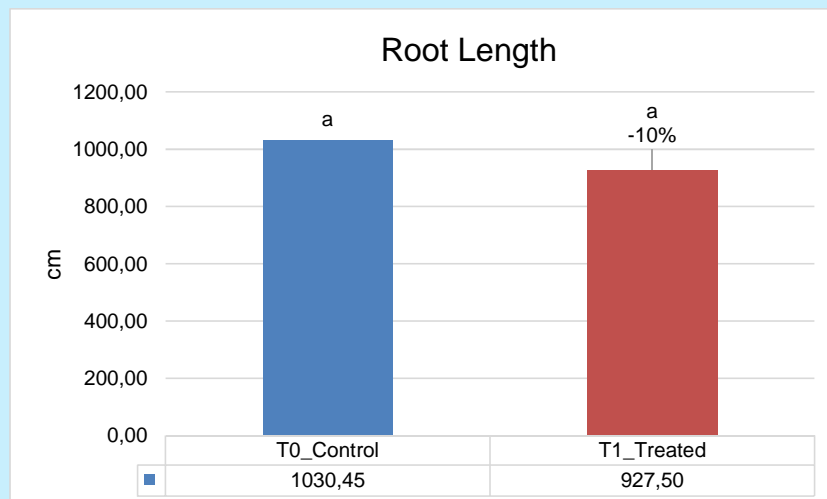
WinRHIZO program

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RESULTS

Growth and development

Root growth

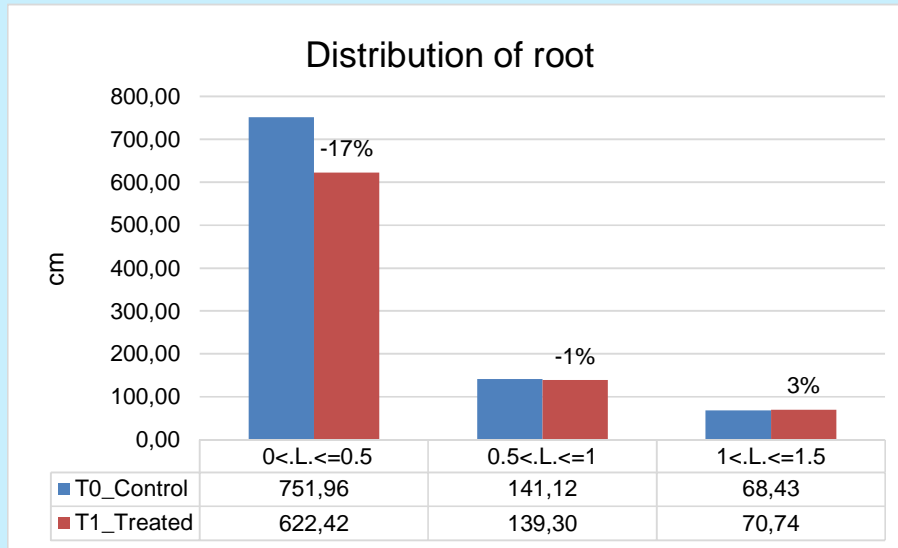


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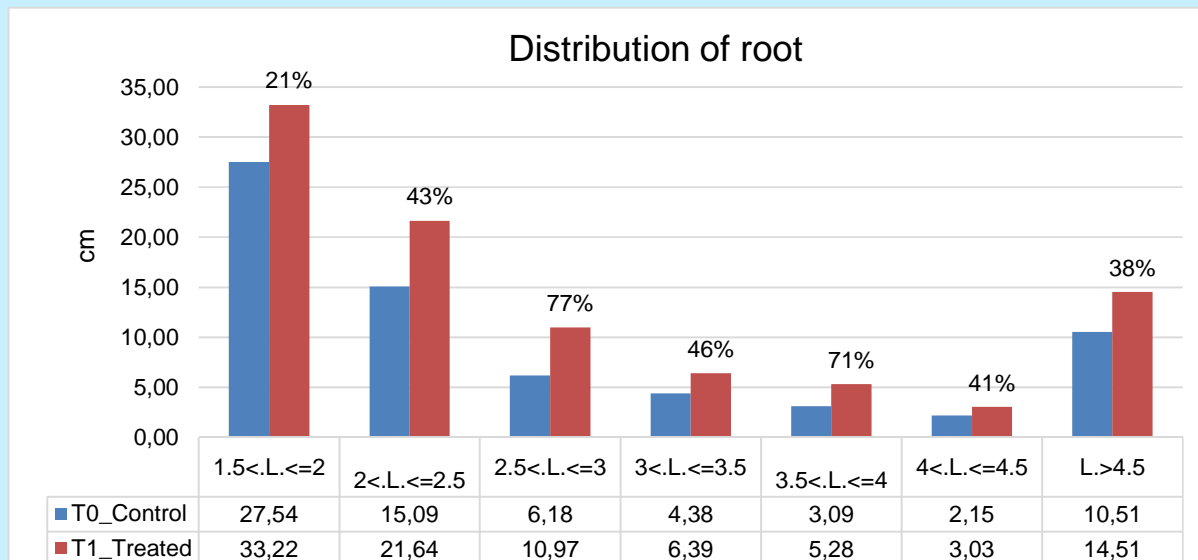
RESULTS

Growth and development

Root growth



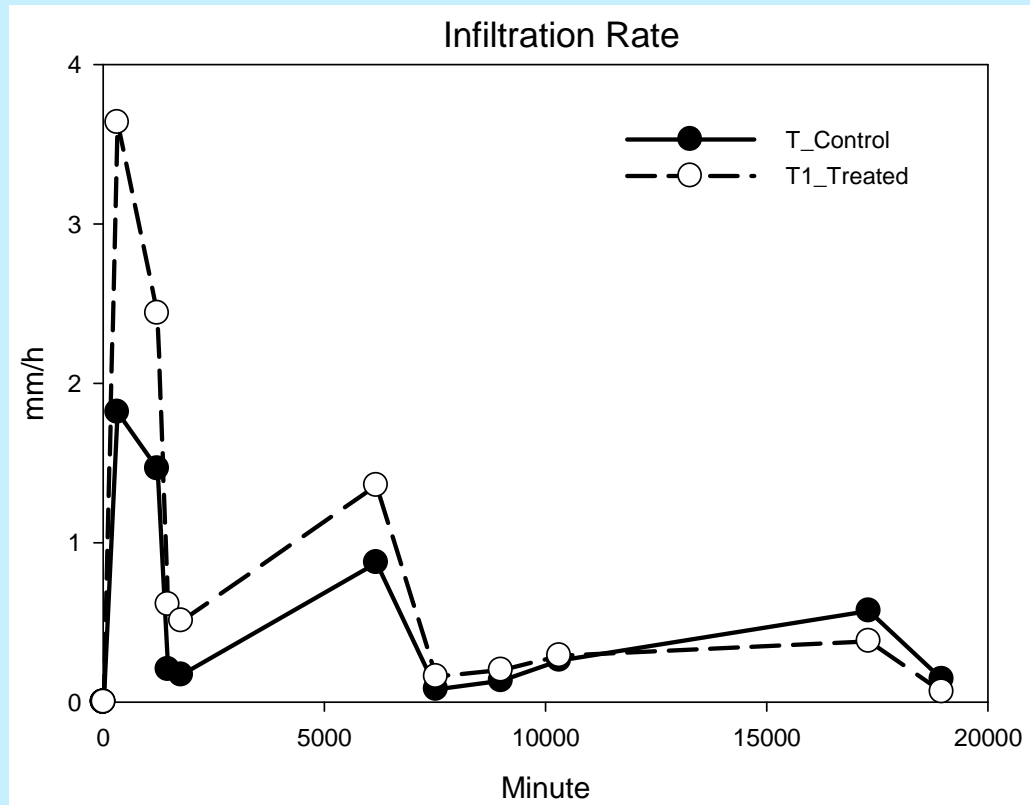
Root length depending on the diameter of the root



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Infiltration Rate



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CONCLUSIONS

- ✓ The application of the product used did not cause phytotoxicity in plants treated.
- ✓ Total production was similar in both treatments, around 24.8 tn/ha.
- ✓ The average root diameter was higher in treated than control a 19%.
- ✓ Kamasol Aqua promoted a high infiltration rate of water in the soil.

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