

Report of Peat Gel "TORFUSHA"

Experiment Title:

Effects of Liquid Balanced Plant Nutrient "Torfusha"

On Vegetative Growth of Different Vegetables

ভূমিকাঃ

"Turfosa" এক ধরনের বৃদ্ধি নিয়ন্ত্রক (Liquid Balanced plant nutrient) যা "বিজয় এন্টারপ্রাইজ", নিকেতন, গুলসান-এর মাধ্যমে রাশিয়ান কোম্পানি হতে সংগ্রহ করা হয়েছে। "বিজয় এন্টারপ্রাইজ" এই তরল বৃদ্ধি নিয়ন্ত্রক পাতা জাতীয় সবজির উপর এর প্রভাব পরীক্ষা করার জন্য বিনার মহাপরিচালক ড. মোঃ শমসের আলী মহোদয়ের নিকট দরখাস্ত করে এবং তিনি তা উদ্যানতত্ত্ব বিভাগ-কে মার্ক করেন। এ প্রেক্ষিতে বিনার উদ্যানতত্ত্ব বিভাগ পাতা জাতীয় সবজির উপর "Turfosa" এর প্রভাব পরীক্ষা করার নিমিত্ত নিম্নলিখিত পরীক্ষণটি স্থাপন করে যার সন্তোষজনক ফলাফল নিম্নে উপস্থাপন করা হলোঃ

Experiment: Effects of Liquid Balanced plant nutrient "Turfosa" on Vegetative Growth of Different Vegetables

Application method:

Seeds of different vegetables were soaked for different periods of time. Both Lettuce and Spinach seeds were soaked for 24 hours and Bati shak, Gimakolmi & Red amaranth seeds were soaked for 18 hours prior to sowing.

Results

Lettuce:

Treated seeds of lettuce with Turfosa give magnificent results on fresh weight/plant and number of leaves per plant. The number of leaves was counted 4.9 with Turfosa treated seeds while it was found 3.5 in control. In case of fresh weight of plants it was found 9.0 g/plant from treated seeds while it was found 6.2 g/plant in control.

Table 1. Effect of liquid nutrient "Turfosa" on vegetative growth of Lettuce, spinach and Bati shak

Treatment	Name of the crop								
	Lettuce			Spinach			Bati shak		
	Plant height (cm)	leaf/plant (No.)	Fresh weight/plant (g)	Plant height (cm)	leaf/plant (No.)	Fresh weight/plant (g)	Plant height (cm)	leaf/plant (No.)	Fresh weight/plant (g)
Control	7.77	3.5	6.2	15.2	13.2	14.95	16.02	7.4	17.9
Seed soak	10.4	4.9	9.0	17.65	19.4	24.0	17.6	8.9	30.0

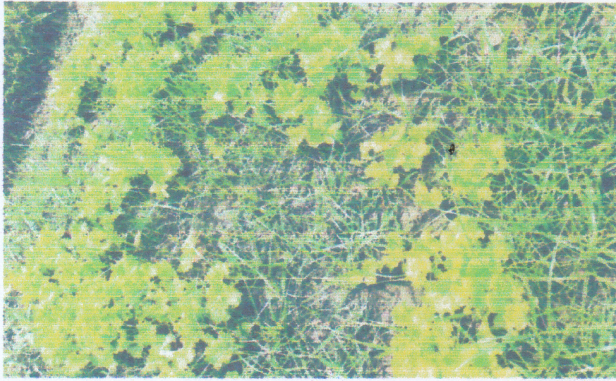


Photo 1: Lettuce field (Control)

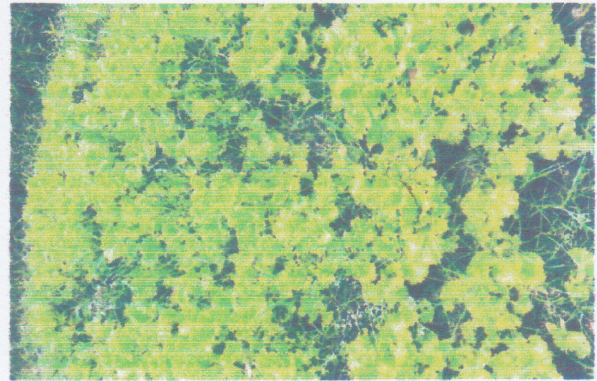


Photo 2: Lettuce field (Turfosa treated)

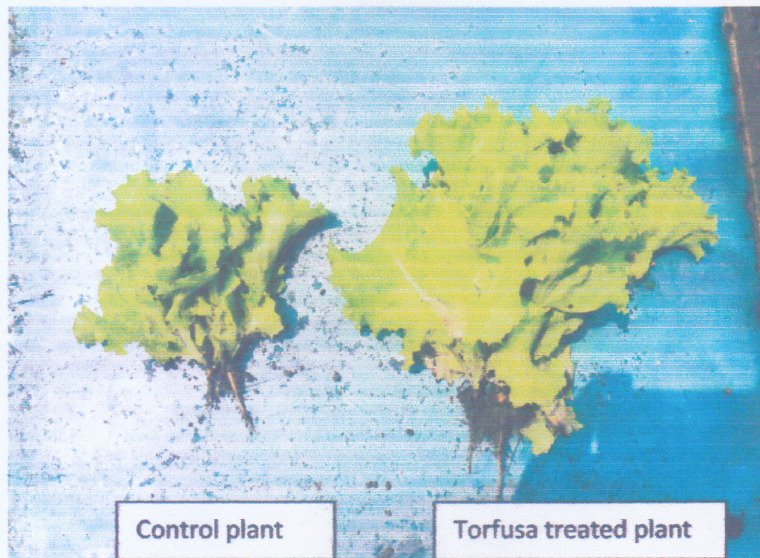


Photo 3: Turfosa treated Lettuce plants

Spinach:

Treated seeds of spinach with Turfosa give magnificent results on fresh weight/plant and number of leaves per plant. The number of leaves was counted 19.4 with Turfosa treated seeds while it was found 13.2 in control. In case of fresh weight of plants it was found 24.0 g/plant from treated seeds while it was found 14.95 g/plant in control.

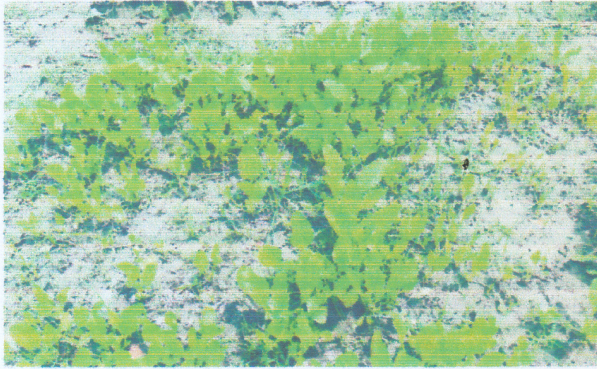


Photo 4: Spinach field (Control)



Photo 5: Spinach field (Turfosa treated)

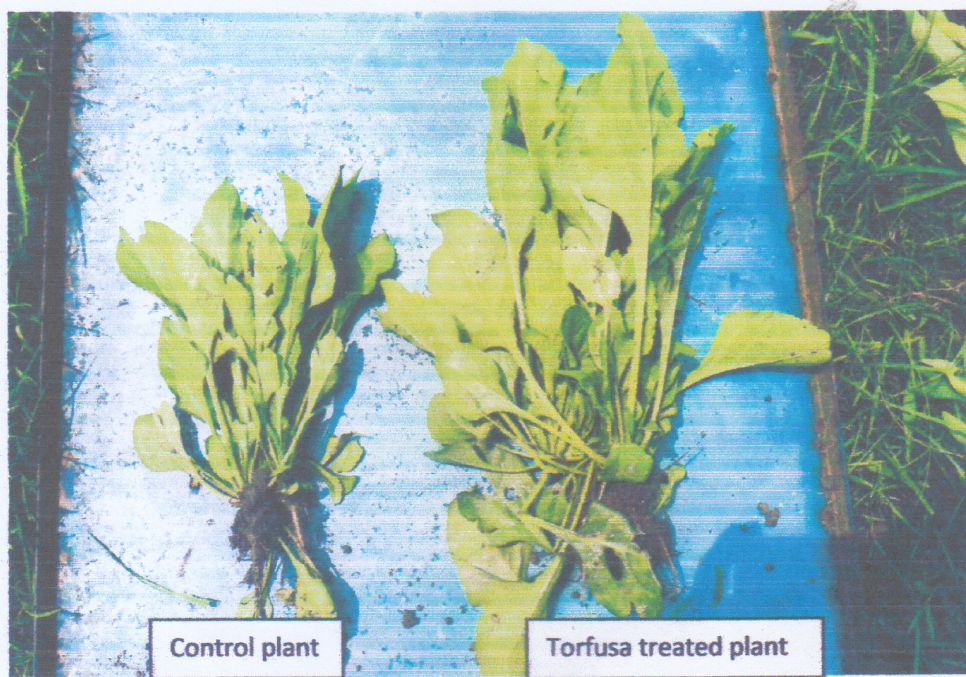


Photo 6: Turfosa treated Spinach plants

Bati shak:

Treated seeds of Bati shak with Turfosa give magnificent results on fresh weight/plant and number of leaves per plant. The number of leaves was counted 8.9 with Turfosa treated seeds while it was found 7.4 in control. In case of fresh weight of plants it was found 30.0 g/plant from treated seeds while it was found 17.90 g/plant in control.

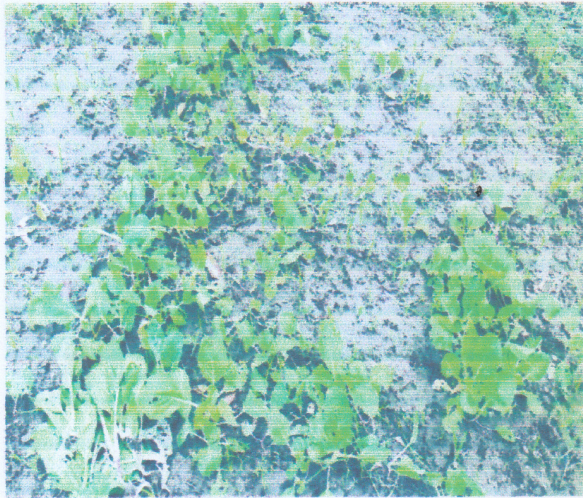


Photo 7: Bati shak field (Control)



Photo 8: Bati shak field (Turfosa treated)

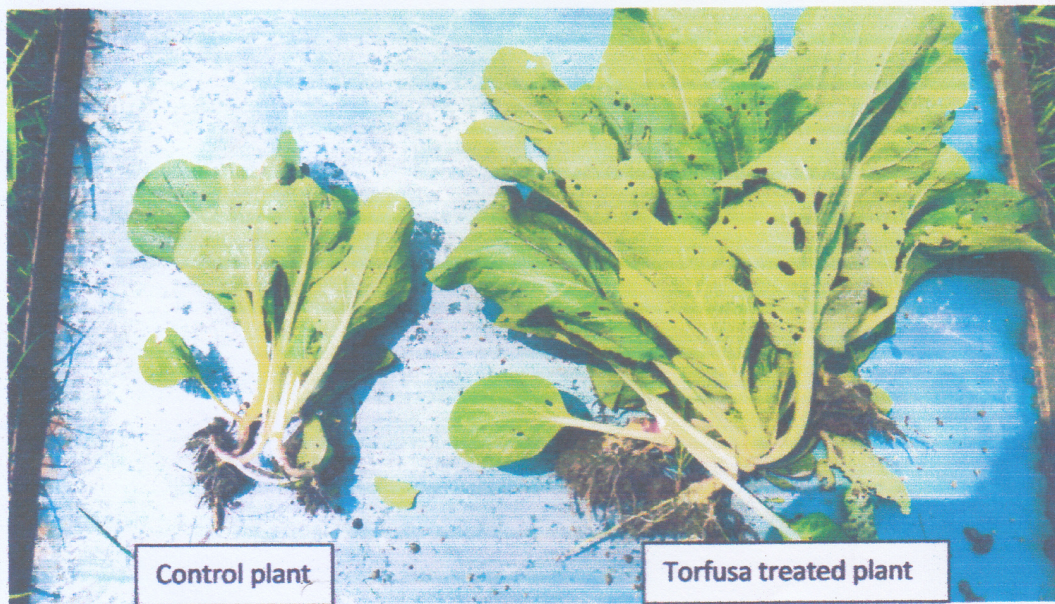


Photo 9: Turfosa treated Bati shak plants

Gimakalmi:

Treated seeds of Gimakalmi with Turfosa give magnificent results on fresh weight/plant and number of leaves per plant. The number of leaves was counted 36.6 with Turfosa treated seeds while it was found 27.75 in control. In case of fresh weight of plants it was found 65.40 g/plant from treated seeds while it was found 55.75 g/plant in control.

Table 2. Effect of liquid nutrient “Turfosa” on vegetative growth of Gimakolmi and Red amaranth

Treatment	Name of the crop					
	Gimakalmi			Red amaranth		
	Plant height (cm)	leaf/ plant (No.)	Fresh weight/ plant (g)	Plant height (cm)	leaf/ plant (No.)	Fresh weight/ plant (g)
Control	48.35	27.75	55.75	56.5	13.05	55.02
Seed soak	52.7	36.6	65.4	63	14.4	67.0

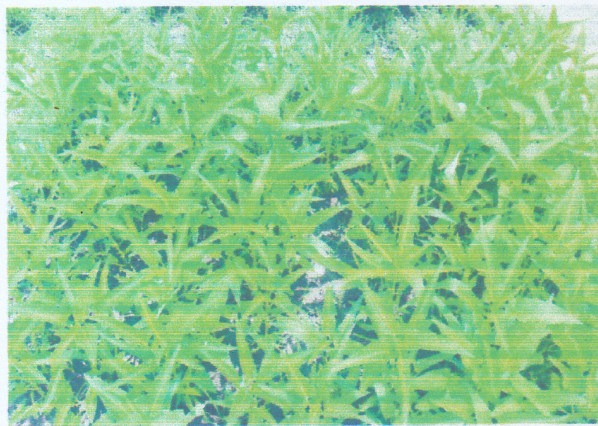


Photo 10: Gimakalmi field (Control)



Photo 11: Gimakalmi field (Turfosa treated)



Photo 12: Turfosa treated Gimakalmi plants

Red amaranth:

Treated seeds of Red amaranth with Turfosa give magnificent results on fresh weight/plant and number of leaves per plant. The number of leaves was counted 14.4 with Turfosa treated seeds while it was found 13.05 in control. In case of fresh weight of plants it was found 67.00 g/plant from treated seeds while it was found 55.02 g/plant in control.



Photo 13: Red amaranth field (Control)



Photo 14: Red amaranth field (Turfosa treated)

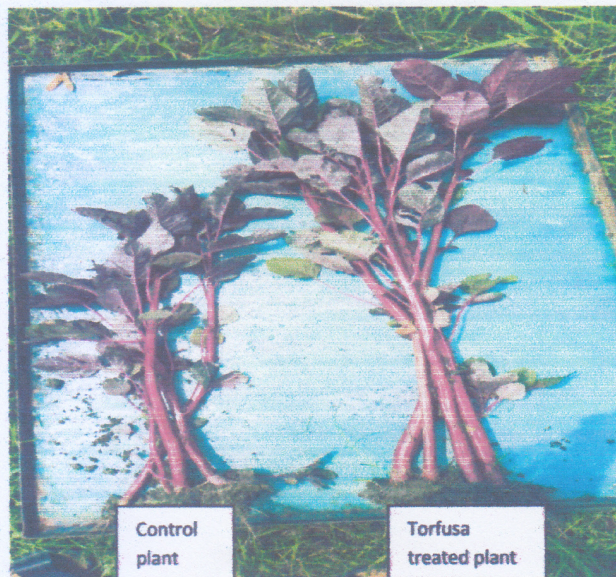


Photo 15: Turfosa treated Red amaranth plants