

Guang Dong Meizhou Agricultural University, China 514011
Tel: (0753) 235 6841
Co-work: Li Shengjian, Dai Weilin

STUDY OF THE EFFECT OF ETOGROWTH-T™235 ON
GROWTH PROMOTION OF ‘SHATIAN’ POMELO

The objective of this experiment is to study the effect of ETOGROWTH-T™235 on the growth promotion of seedlings of shatian pomelo in the plantation.

1. Materials & Methods

1.1 Materials

ETOGROWTH-T™235, marcotted pomelo, young pomelo plants and new fruiting trees.

1.2 Methods

Treatment 1	ETOGROWTH-T™235 (1:100)
Treatment 2	ETOGROWTH-T™235 (1:200)
Treatment 3	ETOGROWTH-T™235 (1:300)
Treatment 4	ETOGROWTH-T™235 (1:400)
Treatment 5	Control (Water)

Each treatment with 3 replicates.

For each treatment, 50 of each marcotted pomelo, young pomelo plants and new fruiting trees were randomly selected. The marcotted pomelo and new fruiting trees were selected from 5 different locations of the plantation – North, South, East, West, Center. In each selected plants, marking is done on the shoot.

All treatments are sprayed once every 15 days, a total of 3 spray was done.

The count of new shoots, length of the shoots and number of new leaves and length of leaves were recorded before spray and after each 15 days interval.

2. Test Results and Analysis

From the results thus obtained, the treatments as compared to the control, the count of new shoots, length of the shoots and number of new leaves and length of leaves are very significant. The effect of growth promotion of ETOGROWTH-T™235 in the seedlings of shatian pomelo is very significant.

3. Discussions

In this experiment, those treatments sprayed with ETOGROWTH-T™235 showed very good results in terms of the growth promotion. As for pest control, no detailed results were recorded. Nevertheless, the effect on pest control of those treatments with ETOGROWTH-T™235 is also significant.

All treatments have significantly different results, with Treatment 3 and Treatment 4 with comparable results.

The higher concentration of ETOGROWTH-T™235 showed better results. In marketing point of view, the higher concentration would result in higher consumption. In this way the point of cost effectiveness in pomelo plantation at this very moment need to be analyzed.

For the purpose of maintaining better shapes of the pomelo trees, as a standard guideline, for every tree, 2 newly sprouted shoots would only be left behind, with the others plucked away.

From the results thus obtained, the effect of ETOGROWTH-T™235 in promoting the growth of the pomelo seedlings is very significant.

Table 1 : Effect of ETOGROWTH-T™235 on the growth of new shoots on young pomelo plants.

Item Count Date	New Shoot Count					Length of Shoot (cm)					No of Leaves				
	T1	T2	T3	T4	Control	T1	T2	T3	T4	Control	T1	T2	T3	T4	Control
18/3	50	50	50	50	50	22.7	21.0	24.2	23.1	22.0	10.3	9.9	10.3	10.4	10.2
2/4	50	50	50	50	50	25.5	22.2	24.7	23.3	22.8	10.6	10.2	10.7	10.6	10.3
18/4	50	50	50	50	50	27.2	24.1	25.3	24.6	23.3	11.9	10.4	11.0	10.8	10.3
3/5	50	50	50	50	50	29.4	25.5	28.1	27.6	25.0	12.6	10.8	11.3	11.0	10.5

Table 2 : Effect of ETOGROWTH-T™235 on the growth of new shoots.

Item Count Date	New Shoot Count					Length of Shoot (cm)					No of Leaves				
	T1	T2	T3	T4	Control	T1	T2	T3	T4	Control	T1	T2	T3	T4	Control
18/3	2	2	2	2	2	9.6	10.6	10.2	13.0	12.4	7.5	8.8	8.4	10.1	9.6
2/4	2	2	2	2	2	13.1	13.2	13.3	15.8	14.6	8.8	10.9	8.9	11.0	9.8
18/4	2	2	2	2	2	18.4	18.6	18.0	16.0	15.1	10.9	11.0	9.7	11.3	10.0
3/5	2	2	2	2	2	23.7	22.6	22.4	22.1	19.1	12.8	12.1	11.0	12.0	10.3

Note : All values in the table are mean values. New Shoot Count is collected from one plant, No of Leaves is collected from every new shoot.

Condition of Growth and Pest Infestation :

After spraying with ETOGROWTH-T™235, the leaves are more luxurious, greener, thicker and bigger in size. For the Control, the leaves are lighter in color, thinner and smaller in size. Those pomelo trees treated with ETOGROWTH-T™235 have lesser pest infestation, with Treatment T1, ETOGROWTH-T™235 (1:100) and T2, ETOGROWTH-T™235 (1:200) being more significant.