

Phytostim[®]: Effects/Benefits on Cannabis

Phytostim is an organic Bio-stimulant nutrient product that is designed to help boost a plants growth and vigor.

A trial was conducted to test the effectiveness of Phytostim on Cannabis. Phytostim was tested on 4 different growth phases of cannabis

- Clones
- Nursery stage (1L Pots)
- Vegetative stage (5L Pots)
- Flowering stage (7.5L Pots)

In order to get a result that ensures Phytostim was the reason for any improvements, all other variables were kept the same. Plants treated with Phytostim did not receive any additional feeding different from those not.

The main key points that were observed were:

- Clone rooting time
- Leaf completion/vigor
- Stem strength/girth
- Bud site development
- Apical growth development
- Side branching development
- Pest/Disease resistance
- Heat stress response (as conditions can get high in a greenhouse)
- Trichome increase (visual)
- Transplant recovery

Clone results

The use of Phytostim solution as a mist spray on cannabis has proven to increase rooting percentage by up to 7.9%. The clones treated with Phytostim showed root structures 5-6x the length of non-treated clones. The overall health of the clones treated with Phytostim was considerably higher and showed strong transplant survival. The clone boxes getting sprayed with Phytostim also showed little to no mold development. Suggesting there may be antifungal properties or a strengthening of the plant's immune response.

Nursery results

Phytostim has shown a positive result in increasing transplant efficiency as well as providing better uptake of nutrients. Plants treated with Phytostim were able to go through their life in 1L with no addition nutrients. All 1L pots have a standard nutrient level of 1.2 EC (Electric conductivity). Nontreated plants began to show early nutrient deficiency while Phytostim remained a deep green completion. No pests were sited on either of the groups. Side branching was considerably better on Phytostim plants as well as apical growth. Treated plants were able to recover from the toppings with little leaf stress or mutation.





5L VEGETATION

The use of Phytostim proved beneficial in vegetation stage as the best results from Phytostim has been seen after transplants and foliar feeds. In veg plants are able to receive more foliar feeds than flower so results were easily seen. Plants treated with Phytostim get 5 to 10cm higher than those not as well as more vigorous side branching. Plants that are treated with Phytostim show less stress during high heat intensity, in some cases instead of the plants becoming droopy they begin praying (facing leaf tips upwards) to cope better with intensity. The plants treated have a deeper green completion than those not, suggesting better use of the nutrients available. IPM schedule has remained standard including with the use of Phytostim. No negative effects have been seen nor pests sited on both sides.

FLOWERING

Plants receiving Phytostim have consistently shown an increase in survival/stress rate in transplanting. Plants received their last foliar feed 2 weeks into flower and before trichome development is noted. Those plants treated showed an increase in size during vegetation now have an additional node, producing an obvious higher yield. Pale leaves are removed during flowering to reduce the risk of pets/mold. Plants that are not treated have lost more leaves than those that are. Further into flower the stem strength is seen to be stronger as treated plants do better with supporting larger buds. This may be due to the calcium found in Phytostim. Trichome structures seem to be more concentrated on treated buds however without analysis this cannot be confirmed. Some aphids have been noted towards the end of flowering in both sides however this was only on an average of 10/480 plants.

All in all, Phytostim showed incredible results, consistently improving transplant rates and showing good results at increasing the plants tolerance to rough conditions. Plants seemed to have had a healthier cycle with less noticeable stress. It seems there is also potential for Phytostim as a rooting hormone. As an obvious yield enhancing product it will be incorporated into our feeding schedule.



PHYTOSTIM



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