

Magnetic Pulser and Tomato Plant Growth Experiment

Aim

An experiment was conducted to see if any effects can be seen if a plant, in this case tomato plants, can be affected by intense pulsed DC magnetic fields. The magnetic pulser used in this study was a 445V Magnetic Pulser unit set with a 1 minute delay between pulses. The coil was integrated into the rim of one of the pots.

Procedure

The sample tomato plants were purchased from the same batch shown in the picture below, 6 in each.



As much of the parameters were made identical as possible. The soil content was identical, location of the pots was identical (sun exposure), water quantity added to each pot was also identical.

The plants would be watered every alternate day.

The magnetic pulser will be left to run for the duration of the experiment.

The plants would be monitored every 20 to 25 days.

Results



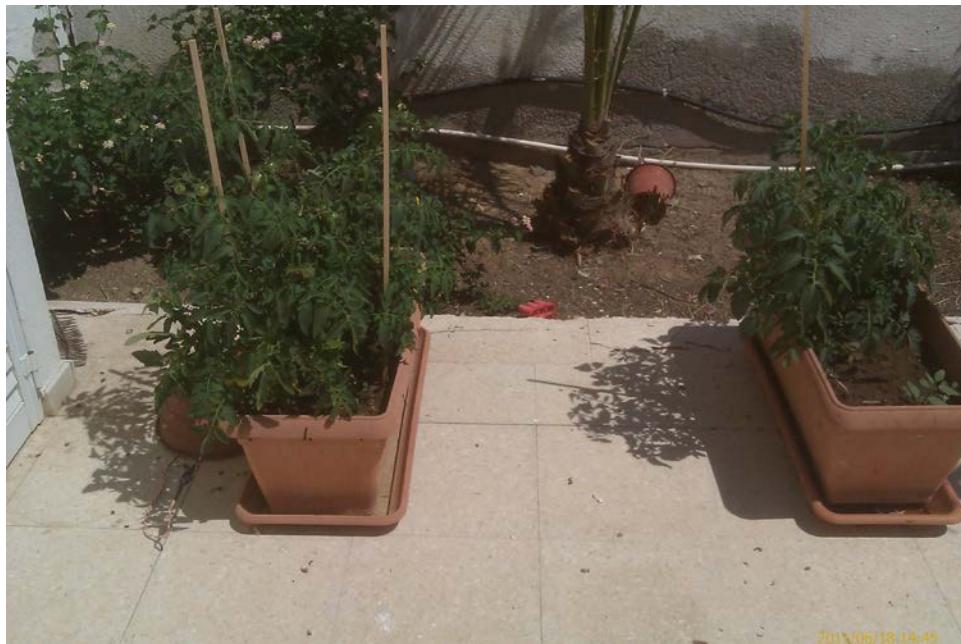
After about one month already a noticeable difference can be seen. The pot with the magnetic pulser (on the left of the above picture) has the tomato plants growing larger faster and healthier.



Both plants were then moved to an area of more sun exposure and separated with greater distance to minimize magnetic field strength impacting the control pot. It can be seen after about 20 days more, the pot on the left (with the magnetic pulser attached) has the tomato plants growing well, it has started producing fruit. The control pot on the right has lost a few plants, are small and has no fruit.



The above image is a close up of the magnetic pulser pot.



After about another 20 days, the magnetic pulser pot on the left has grown further, has many more fruit and the size of the fruit has also expanded. The control pot has begun to grow a few small fruit.

The experiment was interrupted due to rats finding the tomatoes too desirable, since all the tomatoes on the magnetic pulser pot were eaten. After there were no more tomatoes on the magnetic pulser pot, the rats then ate what was left on the control pot.

Conclusion

In the end, the experiment was a success, however the fruits were not cultivated and eaten for a taste test. Strong pulsed DC magnetic fields do affect the rate of growth and health of the plant, as evident from the number of plants that survived compared to the control.