

SAKATA VEGETABLES EUROPE S.A.S

MIDDLE EAST REGIONAL OFFICE

Swiefieh, Zahran Gate Bldg 25, 2nd floor, office 203

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Bio Earth Active

A trial was conducted during winter season 2017-2018 mainly between Jan-2018 and March 2018. Several crops were tested under several soil types.

First trial was under tunnels, pepper crop was planted in January and must be ready in Mid of April. After one month no change was on the foliage. 1.5 L was added to the pepper tunnel with irrigation water, after one-week big difference was happen in the foliage growth. Bio earth accelerate fertilizer absorption in addition to heat the root system in cold condition.

After that, all crops under tunnels irrigated with 1.5 L for each tunnel to accelerate the growth during cold weather.

Regarding to flowering, flowering increase more than 50% when we use this material. Usually when the foliage became vigor, the flowering decreased, but by using this material flowering and setting increased.

In our trial station which located in saline soil, we usually suffer from March to may from the effect of salts on plants, foliage growth decreased, plant try to stop in growth and mite infections increased. We use this material two times, two weeks interval. Foliage start to produce new growths, fruit size return to the normal size, foliage color return dark green.

We notice that this material keeps the soil moisture in good status during the hot conditions also the effect of salts decreased around the root system.

Salty soils usually poor with organic matter, this material improve the quality of the soil in addition to the direct effect on the plants.

Another trial was done in Safi area on the Watermelon and Sweet melon crops. The crop was planted under low tunnel in Mid of January and must be ready in mid of April for the display. After two months no big change was happened on the growth, we fear to lost the trial, setting was started but with very small size and weak vegetative growth. 2 L were added to one dunnum



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with irrigation water, 10 days after that the foliage growth and the fruit size increase rapidly. This means that this material has a big effect on salts, and soil fertility and the most important thing, effect on stress.

Each time we use this material, our crop was under big stress (effect of salts, effect of low temperatures or effect of low fertility).

Conclusion:

- From the trials, we notice that the effect of this material mainly works on plant stress, we can consider it as anti-stress material.
- Foliage growth increase after adding this material and the difference was very significant.
- Flowering and setting increased rapidly and compared with non-treated plot the difference was very cleared.
- Regarding to the salinity, the effect was very cleared. When we add the material, foliage, flowering, setting and fruit size was rapidly increased.
- For the soil texture, it was noticed the soil texture improved when we add the material and the water holding capacity increased in the soil.
- To improve the results, we can start with low concentration but add several 3-4 times during the season.
- We must focus on poor soils, salty soils and low fertility soils.
- We can use it during the cold period and I think that the same will be under hot stress.



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Tomato Before Treatment



Tomato one week after treatment



Handwritten signature



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Pepper after treatment



Signature

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Okra during March (Cold weather)



Okra two weeks after treatment





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Watermelon After Treatment (Salty soil)



Jasman



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Watermelon 15 days After treatment



Subannay