



EkloGrow®, Ecklonia Kelp Plant Growth Stimulant and tomato growth



Control

EG 1%

EG 0.2%

EkloGrow(r), an Ecklonia Kelp growth stimulant is an organic biostimulant, concentrated from the freshly harvested brown kelp *Ecklonia maxima*. The naturally occurring biostimulants – mainly auxin- and cytokinin-like compounds – are present in a special ratio which stimulates plant growth. The auxins are transferred down to the roots and stimulate cell division and growth, as well as causing the plant to produce the cytokinin necessary to get back into balance. Cytokinins move in the opposite direction, viz to the leaves, and initiate above ground growth.

EkloGrow(r) stimulates plant growth; it is not a fertilizer and should be used in conjunction with a balanced fertilizer program.

CONTROL

EckloGrow(r),



TRIALS ON TOMATO PLANTS

EkloGrow(r), – Benefits

- Stimulates and enhances growth, chlorophyll content, flowering capacity and root system development.
- Increases natural resistance to insect and fungal attack.
- Improves tolerance to heat, drought and frost conditions.
- Provides a broad range of trace elements and minerals.
- Contains minor quantities of nitrogen and phosphorus, and, for best results, should be used with other nutritional programs.
- **INCREASES YIELD QUANTITY & QUALITY.**

**Control
39 cm high**



Verticillium wilt present in Control tomato plants.

**1:500 EkloGrow(r) dilutions
72 cm high**



Verticillium not present in EG treated plants

Supporting Field Research

Independent researchers at the University of Cape Town performed trials using Florentine tomatoes. The most significant results were obtained with EkloGrow(r), dilution of 1:500. This was a time controlled trial.

Results were:-

- A decrease in time to fruiting and emergence.
- A larger plant with thicker stems.
- EG treated plants showed no signs of *Verticillium* wilt compared to the control.
- A decrease in the root to shoot ratio in the EG treated plants.
- The best dilution to use was a 1:500 dilution.
- As this was a time controlled trial the lack of fruit in the control is due to the time rather than the fact that the control did not fruit.

EkloGrow(r) fits into tomato farming regime because it:

- Increases the mass of the plants' roots and shoots.
- Encourages strong rooting and has a marked effect on root system development.
- Increases leaf surface area.
- Establishes plants more rapidly and more uniformly as transplant shock is reduced.
- Increases stem girth & height.
- Improves the growth of seedlings (soil drench).
- Increases plant weight by about 100% when applied as a soil drench to nematode-infested soil.
- Significantly reduces leaf-burn caused by calcium sprays.
- Helps fruit to ripen earlier.
- **INCREASES THE FRESH FRUIT WEIGHT AND NUMBER.**
- Improves drought resistance and combats other stress such as excessive fertiliser applications and frost.
- Has indicated a greater disease resistance.
- Is economical due to low application rate.
- Is completely organic and therefore is no danger to the environment, animals or humans.
- Is easy to apply as a foliar spray or as a soil drench and is compatible with most crop protection chemicals, allowing cost effective spray programmes.
- Is not a fertiliser. It is a catalyst in the growing processes of plants. As such it is supplementary to sound fertiliser practice, stimulating healthy plant growth and improving the crop's use of available nutrients.

	Yield per hectare	Income per hectare	Additional costs	Net costs	Increase in profits
Control	85.98	\$ 24,321.30		\$ 24,321.30	
EkloGrow(r)	122.99	\$ 34,790.50	\$ 67.50	\$ 34,723.00	43%

Based on a market tomato price of ZA Rand 2,828.72 per ton (Data from the South African Department of Agriculture)
The cost price of EkloGrow(r) at \$4.5 per litre with 15 L per/ha used in these trials.