Super Kelp
Superior Growth
Stronger Plants
Mixes Easily

Yield & Quality
Crop Protection
Crop Stress
Fertilize
Strengthen
Soil Health
Balance

Table Grapes

Stress Tolerance - heat and frost

Activity
- Improved plant canopy
- Increased root growth
- Increase rachis length, berry numbers & bunch weight
- Improved plant defence system
- Improved flower retention and fruit set

Results

Stress Tolerance
Plants better able to withstand environmental stress (drought, frost, heat)

Plant Vigor
Greener plants & better developed canopy

Yield Increase
Increased production, sizing and quality and delayed senescence

Ease of Use
Compatible with fertilisers (particularly calcium nitrate, potassium nitrate), fungicides, insecticides, acidic GA
Can be applied with copper and fungicide sprays
Liquid filtered to 90 microns to ensure it can be used as a foliar spray (or via irrigation) and acidified to a pH of 4-4.5 (for stability).

Treated bunches fuller with larger grapes indicating more vigour.

Harness the power of nature
Why Super Kelp works

Improved crop performance

In kelp, macro- and micro-elemental nutrients, amino acids, vitamins, cytokinins, auxins, betaines, aglycones, sterols and dolichic acid affect cellular metabolism in plants that lead to enhanced growth and yield. They are bioactive at low concentrations. - Khan 2009, Bunin 1997

Heat Tolerance

Kelp can be used to provide protection during heat stress with effects lasting for 2-3 weeks. Betains in Kelp increase chlorophyll content and consequently photosynthesis, cytokinins induce heat tolerance, increase potassium uptake and improve root growth, while antioxidants in Kelp help plants in temperature extremes. - Khan 2009, Enom 2004

Frost Tolerance

Offers an extra degree or two tolerance to frost, although some information suggests as high as 3-4°C lower temperature at which cells will freeze. This is because it is a highly effective brick builder. Plants with higher sugar content have a lower freezing point. - Wilson 2001

Improved flower and berry set

Kelp enhances the mobilization of cytokinins from the roots to the developing fruit. This increase in cytokinin availability will eventually result in greater supply of cytokinins to the maturing fruit. - Khan 2009

Enhanced plant defence against pest and diseases

- Kelp imparts nematode resistance possibly by altering the auxin/cytokinlin ratio in the plant. - Khan 2009
- Kelp contains elicitors (eg polysaccharides) which plants use to protect themselves against pathogen invasion. - Khan 2009
- Alginate in Kelp promote growth of beneficial fungi which colonise roots and result in stronger plants. - Konrade 2006

How to use

Super Kelp can be applied every 4 - 6 weeks during the growing season as a foliar feed or soil drench, enabling the plant to receive direct benefits from the naturally balanced nutrients and growth promoting substances.

For heat and cold (frost) stress:

- Apply 36-48 hours prior to stress event as a foliar spray or via irrigation. During events it is recommended to apply via irrigation.
- Repeat every 14 days during extended heat and cold periods. For extra frost tolerance it can be mixed with 0.5% potassium fertilizer to help strengthen plants.

Drought Tolerance:

- Regular use during drought to stimulate root growth can help crops explore greater soil volume and access moisture.

A selection of results

Multiple trials show increase in berry weight by an average of 16%.

Multiple trials show increase in yield by weight by an average of 20%.

Multiple trials show increase in rachis length by an average of 17%. Elongating the rachis is essential for bunch growth.

Applying kelp pre-bloom after rachis has grown 5 cms helps elongate the bunch-rachis.

Treated grapes have more uniform size and colour

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