



# ROOTFEED

FEEDING THE BRAINS OF THE PLANT



Stoller®  
Unleashing The Power Of Plants

## PRODUCT PROFILE

### Analysis w/v

- > Total nitrogen (N) 12.0% as stabilised ammonium nitrogen
- > Calcium (Ca) 8.5%, as soluble calcium
- > Magnesium (M) 2.0% as soluble magnesium

### Key Features

- > Key nutrients for healthy growth
- > Formulated with Stoller's proprietary mix of natural co-factors
- > Soil based treatment
- > Will reduce the impact of stress and restore strong healthy plant growth

### Key Benefits

- > Feeds continuous root growth
- > Stronger root growth and enhanced plant health
- > Supplies essential nutrients and growth to the roots
- > Supplies a highly soluble form of calcium

# > WHY IS ROOT GROWTH SO IMPORTANT

Plant productivity and production is compromised by stress, usually from unfavourable weather conditions, pests and diseases and poor nutrition. Stress results in an accumulation of the stress related hormones ethylene and abscisic acid.

## ROOTFEED BENEFITS

- > Feeds continuous root growth and replacement of root caps.
- > Stronger root growth and maintained plant health for increased tolerance to stress.
- > Controlled uniform vegetative growth for improved plant balance and health.
- > Supplies essential nutrients and co-factors directly to the roots to improve marketable yield.
- > Supplies a highly soluble form of calcium which is the signal for over 600 biological processes including transport of other elements and disease tolerance.
- > Provides magnesium which is a catalyst involved in more than 1800 plant processes including photosynthesis and plant sugar transport.
- > The nutrients provided by RootFeed are substitutes for alternative nitrogen and calcium sources and the grower's normal program can be adjusted accordingly.

Production is compromised by stress, usually from unfavorable weather, pests such as weeds and insects, soil type, condition and fertility and general agronomic practices.

Healthy and balanced growth is required to make plants more resistant to stress, thereby optimising plant productivity in terms of enhanced yield and quality.

Roots serve as the 'brains' of plant growth, regulating all plant growth processes.

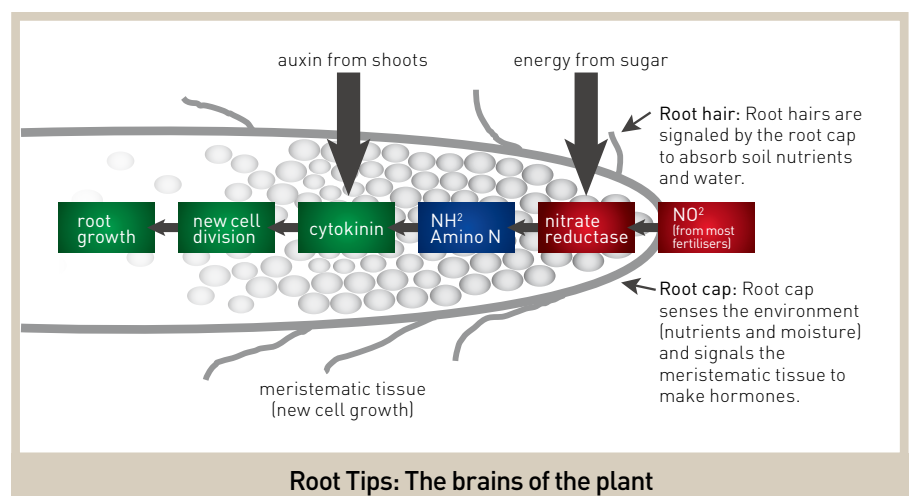
Roots control both the nutrient uptake and the hormonal balance for the whole plant and consequently its ability to withstand stress and achieve higher yields.

Without adequate root growth, the plant will not be able to absorb sufficient nutrients, even with very fertile soil or high soil analysis conditions.

Root caps direct the manufacture of hormones and the absorption of water and nutrients.

Every 7-14 days the root cap cells die, are sloughed off, and must be replaced by new cells. Without this replacement process, there will be fewer roots and root tips with the capacity to synthesize plant hormones and control plant growth.

For this reason, an optimal RootFeed program is based on continuing treatment every 7-14 days through to harvest. Soil treatments throughout the season will reduce the impact of stress conditions and produce strong healthy plant growth.



# > ROOTFEED TREATMENT

Plants treated with RootFeed can produce healthier and more robust root systems than plants left untreated.

Proper functioning of the plant improves resistance to insects and diseases that normally damage a plant's root growth and yield potential. The vigorous, uniform vegetative growth offers increased bulb set. Increased sugar production and movement creates larger, more uniform fruit size. Stoller is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investment; resistance to insects and disease.

Rootfeed should be applied at a rate of 10–20 litres per hectare every 7–14 days through irrigation water. Treatment should be applied during the later stages of the watering cycle. Once applications have begun, treatments must be maintained on a 7–14 day schedule until harvest for full benefits to be realized. Once RootFeed has been applied to a crop, do not stop use until harvest is over.

## SPECIFIC APPLICATIONS

- > Deciduous trees and vines – Begin applications before green tissue appears. Continue applications until two weeks after harvest.
- > Tropical trees – Begin three weeks before flower buds appear and continue applications until three weeks after harvest or desired maturity.
- > Annual crops – Begin after seeding or transplanting when plants are well established and continue until harvest is completed.



> LEFT Onion roots left untreated.  
RIGHT Onion roots treated with RootFeed.





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## > USING ROOTFEED

RootFeed is applied with irrigation as a fertigation treatment. RootFeed must be applied on a regular basis to feed continuous root growth and root cap replacement.

Crop	Rate	Comments
Trees and vines	10–20L/ha	Commence applications to coincide with the onset of root activity. Maintain regular applications at 14 day intervals.
Vegetables	20L/ha	Commence applications shortly (7–14 days) after emergence or transplanting. Apply at regular 14 day intervals. Higher rates should be used at seven day intervals during periods of adverse conditions.
Fruit	10–20L/ha	Apply at regular 7–14 day intervals. Higher rates should be used at seven day intervals during periods of adverse conditions.

Note: Post harvest applications of RootFeed are an important source of root growth and nutrition to support early spring growth the following season.



> LEFT Lettuce left untreated. RIGHT Lettuce treated with RootFeed.



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**Stoller Australia Pty Ltd**  
1 Creswell Road  
Largs Bay SA 5016  
**Customer hotline**  
1800 337 845  
**WWW** 8169 0900  
**FD** 8169 0909  
**E** info@stoller.com.au  
**www.stoller.com.au**