










Onions

Biological Program

Crop Growth Stage	Seeding	Emergence (hook stage)	2-3 leaf	Bulb Initiation (8-9 leaves)	Harvest
					
Crop Stress Points	Root disease/growth	Early growth, strengthen plants	Herbicide Stress	Bulb growth rate; Environmental stress -Heat, wind; pink root	
Crop Stress Program					
 <i>Energise the Plant</i>		Vitazyme 1L/ha	Vitazyme 1L/ha; 1-2 applications	Vitazyme 1L/ha; Add extra applications for stress events as required	
Soil Health Program					
 <i>Microbial Diversity</i>	Actinobact 2L/ha	Actinobact 1L/ha; twice 14 days apart			
 <i>Microbial Activity</i>	Fish Plus 5-10L/ha; monthly				
 <i>Add Carbon</i>	Humus 26 10L/ha			Humus 26 10L/ha	
	Vital Earth 200kg/ha				

Notes

Super Kelp at 5-7L/ha can be used as an alternative to Vitazyme program
Vital Earth - Broadcast and incorporate prior to seeding



Crop Stress Products

- tolerance
- recovery

ENERGISE THE PLANT



- Improves root growth - allows the plant to absorb nutrients like P & Ca
- Reduces plant stress caused by planting, drought or frost
- Mixes easily with fertiliser (low pH formulation)

Key components in kelp that are bioactive at low concentrations are macro- and micro-nutrients, amino acids, vitamins, cytokinins, auxins, betaines, alginates, sterols, abscisic acid.



- Promotes early growth
- Improves photosynthesis
- Helps with planting shock
- Improves plant defence system
- Improves soil biological activity
- Extensive research

Contains multiple natural active components that are active at very low concentrations including triacontanol and brassinosteroids.



- Strengthens plants & reduces plant stress
- 100% plant available silicon
- Improves photosynthesis
- Apply as a spray or via irrigation

Highly concentrated liquid potassium silicate - 100% plant available. Used primarily as a source of plant available silicon with the advantage of low application rates.

Soil Health Products

- microbes
- carbon

MICROBIAL DIVERSITY



- Activates nutrient uptake
- Releases powerful enzymes into the soil which dissolves hard to capture nutrients like P and Ca
- Root colonising microbes that out complete pathogens & improve root health

Contains beneficial fungi & bacteria including Mycorrhiza, Trichoderma, Bacillus, Streptomyces, Pseudomonas, Nitrogen fixing bacteria and more.



- Naturally colonises and shields plant root system
- Improves root health by out-competing pathogens
- Easy to use liquid formulation
- Mixes with most fertilisers and ag-chemicals

Contains Streptomyces lydicus and Bacillus subtilis - fast acting powerful beneficial microbes. These synergistic soil microbes feed off natural root exudates, crowd out pathogens and promote plant growth.

ACTIVE CARBON



- Improves soil structure
- Retains nutrients
- Holds soil moisture
- Buffers salinity
- Provides carbon source to feed soil microbes
- Cost-effective source of carbon
- Liquid, powder or pellets

Contains Humic and Fulvic acid which are the most active components of soil organic matter. Cost-effective way to get benefits of soil organic matter for growers who do not have the time or resources to green manure and fallow or apply large quantities of compost regularly.

MICROBIAL ACTIVITY





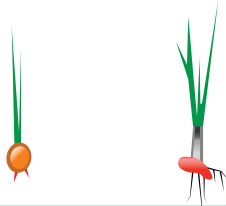
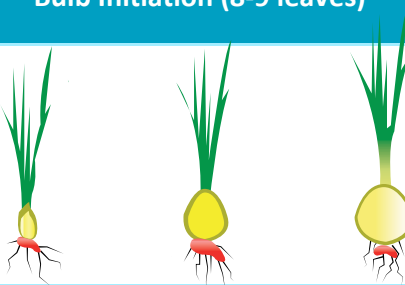





- Stimulates beneficial microbes which help your crop by:
 - * Improving nutrient availability
 - * Reducing root disease
 - * Improving water penetration (heavy soils) & water retention
- Fulvic Acid to improve nutrient uptake
- Kelp to improve root growth
- Provides carbon source to feed soil microbes

Contains Fish Emulsion, Kelp Extract, Fulvic Acid, Molasses, Phosphorus - research shows the synergistic combination of all these products produces optimum results.



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Soil Essentials - Strategies . . . it all starts with the soil!

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