

# LAWRIECO PRODUCT CATALOGUE 2023

## CREATING WEALTH FROM SOIL

Custom Fertiliser Blends • Seed Dressings • Liquid Fertilisers • Stock Supplements  
• Humic / Fulvic • Biological Inoculums • Soil and Plant Agronomy • Soil Carbon Building



## Complex NPKs + BioStimulants

### NutriMAX Liquid Range

NutriMAX Growth	10% N, 7.6% P, 4.5% K, 3% Ca, Complexed with BioStimulants	pg 5
NutriMAX Triple Feed	13% N, 10% P, 13% K + BioStimulants	pg 6
NutriMAX Fruiting	5.5% N, 10% P, 5.7% K, 1.8% Mg, 2.6% S + Mn, Bo, Ca + BioStimulants	pg 7
NutriMAX PhosCal	6% N, 12% P, 3% K, 26% Ca, 6.6% Si, 1.5% B, 1.7% Mg, 2% Fulvic	pg 8
NutriMAX Cal-N Fulvate	9% Ca, 8% N, 1.5% K, Mn, Mg, Zn, Bo, Mo, Co, Fulvic + BioStimulants	pg 9
NutriMAX Advance	2.6% N, 10% P, 9% K, 3% Ca, traces + amino acids	pg 10

### NutriMAX Solid Range

NutriMAX Granular Fertilisers	Custom granular blends with GUANO, HUMATE, MAP, DAP, SOA, UREA, SOP, KMAG, ZINC	pg 11
BioGraze	1.7% N, 5.68% P, 0.15% K, 6.5% S, 15% Ca, 11.4% OC, traces, 14% Humic	pg 12
BioGraze Sustain	2.6% N, 7.99% P, 0.17% K, 3.7% S, 9.9% Ca, 9.1% OC, traces, 11.2% Humic	pg 12
NutriMAX PhosBio	0.1% N, 7.1% P, 0.44% K, 0.8% S, 17.2% Ca, 0.7% Mg, 18.4% Si + 9.6% Humic	pg 13
NutriMAX Guano Granules	Organic/NOP Cert. 12260 11.5% P, 29.7% Ca, 1.8% Mg, 0.38% S, 9.2% Si + traces	pg 14
NutriMAX ReGenerate	Complete Turf and garden fertiliser and soil conditioner with a carbon base	pg 15
NutriMAX BioComplete	4.5% N, 8% P, 5.8% S, 18% Ca, 9% Si, 3% Humic	pg 16



## Natural BioStimulants

### BioMAX Liquid Range

BioMAX F75 Liquid Fulvic Concentrate	75% Liquid Fulvic	pg 17
BioMAX Liquid Fulvic 8%	8% Liquid Fulvic	pg 18
BioMAX Liquid Humate 26	26% Potassium Humate Fulvate, 4% K, 22% HA + FA, 11.2% C	pg 19
BioMAX Kelp Powder	Organic/NOP Cert. 12260 100% Soluble Canadian Kelp Powder	pg 20
BioMAX Fish Hydrolysate	Organic/NOP Cert. 12260 Australian Liquid Fish	pg 21
BioMAX BOOST	Organic Liquid Nutrition and Plant Stimulants	pg 22
BioMAX VermiLiquid	Unique nutrient and biologically rich liquid fertiliser	pg 23
BioMAX Piranha 18%	18% Australian Bull kelp & North Atlantic Ascophyllum Nodosum	pg 24

### BioMAX Microbial Range

BioMAX Digest Fungi & Food	Cellulose digesting Fungal Inoculum & Food source	pg 25
BioMAX Digest Kicker	Potent digest Fungi stimulant	pg 26
BioMAX Microlife	Beneficial biology culture	pg 27
Microbial Brewing Equipment & Consumables		
MICROBE PUMP KIT		pg 28

## BioMAX Solid Range

BioMAX Soluble Humate Granule	Organic/NOP Cert. 12260	Highly soluble Potassium Humate Granule	pg 29
BioMAX Soluble Humate Prill	Organic/NOP Cert. 12260	Highly soluble Humate Prill	pg 30
BioLogic Blend	Carbon, Phosphorus, Calcium, Biology, Humic, Fulvic & more		pg 31
BioMAX 100% Soluble Fulvic	Organic/NOP Cert. 12260	82% Fulvic Powder	pg 32
BioMAX 100% Soluble Humic Fulvic	Organic/NOP Cert. 12260	65% Humic, 10% Fulvic	pg 33
BioMAX VermiPellets	Unique nutrient and biologically rich dry fertiliser		pg 34



## Nutrient + Bio Seed Treatments

SureCROP VAM	Mycorrhizal & Nutrient Seed treatment with Bacillus Subtillus & Trichoderma		pg 35
SureCROP Zinc	20% Zinc, BioStim, Nutrient Seed Treatment with Bacillus Subtillus & Trichoderma		pg 36

## Animal Health Product Range

BioMAX Stock Lick Blocks	Chelated Calcium, nutrients, fulvic, kelp, amino acids & molasses		pg 37
BioMAX Animal Humic Fulvic Powder	Stock grade Humic 60% & Fulvic 15%		pg 38



## Complexed Trace Elements

HumiPLEX Trace	4% Zn, 3% Mn, 0.7% Cu, 4.3% S, 0.4% Bo, 0.3% Fe + Mo, Co, Fulvic + BioStim		pg 39
HumiPLEX HortiTrace + FE	5.7% S, 4% Fe, 4% Zn, 3% Mn, 0.6% Cu, 0.3% Bo, Mo, 0.1% Co, 2.1% Fulvic, BioStim		pg 40
HumiPLEX GrainForte SE	5.7% S, 4% Fe, 4% Zn, 3% Mn, 0.6% Cu, 0.32% Bo, Mo, 0.1% Co, 0.08% Se, 2.1% Fulvic, BioStim		pg 41
HumiPLEX ZMC (Mang, Zinc, Copper)	8% Mn, 6% Zn, 2% Cu, 9% S, 1.6% Fulvic + BioStimulants		pg 42
HumiPLEX ZM (Mang, Zinc)	7.5% Mn, 7.5% Zinc, 8% S, 2% Fulvic + BioStimulants		pg 43
HumiPLEX Zinc	17% Zn, 8.3% S, 2% Fulvic & BioStimulants		pg 44

# GROWTH

**NITROGEN 10% PHOSPHORUS 7.6% POTASSIUM 4.5%  
CALCIUM 3% COMPLEXED WITH BIOSTIMULANTS**

**Balanced growth stimulation to build production and quality potential.**

**Biostimulants ensure nutrient efficiency and optimise plant processes.**

**Unique high analysis NPK with 3% Calcium.**

- Balanced, healthy plant growth when three growth promoting nutrients are balanced with calcium.
- Calcium supports healthy growth through building cell strength and natural plant responses to pest and disease pressure.
- pH balance: reduce excess acidity in plants with calcium.
- Biostimulants trigger plant processes that result in greater nutrient uptake and photosynthetic activity: the plant is 'primed' for health and productivity.
- Contains natural wetting agents such as saponins.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals. **NutriMAX liquids are different.**

They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes, also known as biostimulants. The product is filled with natural plant growth hormones, vitamins and immune enhancers.

The combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Nitrogen	10.13% total	Potassium	4.47% total
	2.38% as nitrate		4.28% as phosphate
	1.09% as ammonium		0.19% as organic
	6.66% as urea	Sulphur	0.11% as organic
Phosphorus	7.63% total	Calcium	3.33% total
	7.54% as water soluble		3.20% as nitrate
	0.09% as citrate insoluble		0.13% as organic
		pH	2.1-2.4
		Specific gravity	1.32 g/mL

Available in 5L, 10L, 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Low Rainfall Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Moderate Rainfall Pasture	7-12 L	Spray pasture when sufficient leaf area exists
High Rainfall Pasture	12-25 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-10 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering
Potatoes	3-10 L	Apply at full leaf emergence ~ Tuber initiation
Onions	3-10 L	Apply at full leaf emergence ~ 4-5 leaf ~ Early bulbing
Carrots	3-10 L	Mid vegetative growth ~ Active root bulking
Turf	10-25 L	
<b>Fertigation</b>	5-50 L	
<b>BioMAX F75</b>	100-300 mL	Optional for increased plant uptake

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

**Building wealth from soil with  
Next Generation Fertiliser**





# TRIPLE FEED NPK

13-10-13 + TRACES COMPLEXED WITH FULVIC AND BIOSTIMULANTS

**High analysis NPK combination with biostimulants for yield and quality potential in all crops.**

**Complexed with fulvic to ensure nutrient delivery efficiency and plant health.**

**Has additional amino acids, natural growth promotants, vitamins and background trace elements for improved plant metabolism and balanced nutrition.**

- High analysis of key plant minerals for balanced plant growth - Nitrogen for growth, Phosphorus for root building, Potassium for fruit sizing.
- Suitable for foliar or fertigation application.
- Enhance plant photosynthesis.
- Contains food sources to promote beneficial biology.
- Fulvic to enhance nutrient uptake.

## Bio-Stimulants prime the crop for nutrient uptake... Naturally!

NutriMAX Triple Feed is made in a base of fermented beneficial bacteria and fungi.

Compounds in NutriMAX Triple Feed, such as kelp, hormones, saponins, amino acids, fulvic acid, proteins, enzymes and vitamins from microbial base, trigger plant processes that result in greater nutrient uptake, increased carbon dioxide intake and photosynthetic activity. This induces growth in the plant.

When plant stimulants are combined with nutrition the plant is triggered into a more productive mode ready to accept the increased level of nutrition. The plant is 'primed' to accept the increase in nutrition, resulting in greater plant health and productivity.

## TYPICAL ANALYSIS (w/v)

Nitrogen	13%	Magnesium	0.022%
Phosphorus	10%	Fulvic Acid as fulvate	0.5%
Potassium	13%	pH	7.05-7.35
Sulphur	0.1%	Specific Gravity	1.35-1.38
Calcium	0.3%		

Available in 5L, 10L, 200L & 1000L. Check label for more application and handling info.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	3 L	Apply prior to flag initiation or as required
Canola	3 L	Apply prior to flower bud development or as required
Legumes (Beans/Peas/Lupins)	3 L	Apply prior to flowering or if a boost is required
Pasture	3 L	Apply 2-3 weeks after emergence or if a boost is required
Lucerne	3 L	Apply 2-3 weeks after emergence or if a boost is required
Tree Crops (Orchards/Citrus)	3 L	Apply prior to flowering or at 2-4 weekly intervals as required
Vines	7L	Apply prior to flowering or at 2-4 weekly intervals as required
Horticulture (Potato/Onions/Carrots)	3-7 L	Apply prior to flowering or at 2-4 weekly intervals as required
Turf	5 L	Apply every 2-4 weeks as required
<b>Fertigation</b>	5-30 L	Apply at 2-4 weekly intervals as required
<b>BioMAX F75</b>	100-300 mL	Optional for increased plant uptake
<b>Dilution</b>	1:50 - 1:100	

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

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# FRUITING

NUTRIENTS, TRACE ELEMENTS AND NATURAL PLANT STIMULANTS FOR ENHANCING FRUIT PRODUCTION

**Nutrients selected specifically to stimulate plant fruiting processes.**

**Natural uptake and buffering agents including kelp, fulvic acid, microbial metabolites, enzymes and amino acids.**

**Contains a natural wetting agent for spray efficiency.**

- Specific blend to enhance plant reproductive processes.
- Increase flower numbers and fruit set.
- Direct plant energy from foliar growth to fruit production.
- Natural plant stimulants.



## DidYou Know?

Different forms of Nitrogen are used by plants during different growth stages.

For example, **Ammonium Nitrogen (NH<sub>4</sub>)** will **aid plant fruiting processes**, while Nitrate Nitrogen (NO<sub>3</sub>) will promote foliage growth.

## TYPICAL ANALYSIS (w/v)

Nitrogen	5.6% total	Zinc	0.0015% as organic
	3.2% as nitrate	Molybdenum	0.000095%
	2.4% as ammonium	Cobalt	0.0004%
Phosphorus	10% total as water soluble	pH	2.2 - 2.4
Potassium	5.9% as phosphate	Specific Gravity	1.35 - 1.36
Sulphur	2.5% total		
	2.4% as sulphate		
	0.1% as organic		
Magnesium	1.8% as nitrate		
Manganese	0.8% as sulphate		
Boron	0.43% as borate		
Calcium	0.12% as organic		

Available in 5L, 10L, 200L & 1000L. Check label for more application and handling info.

## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
<b>Cereals</b>	2-8 L	From late tillering to early ear emergence (Zadoks GS 29 to 50)
<b>Canola</b>	2-8 L	Stem elongation to Flower bud development
<b>Legumes (Beans/Peas/Lupins)</b>	2-8 L	V4 4th trifoliate leaf unfolded to R1 early bloom
<b>Pasture</b>	3-5 L	Spray mid growth to aid flower initiation and set
<b>Lucerne</b>	2-5 L	For seed production, apply after final hay cut when adequate leaf area exists ~ Pre-flowering
<b>Citrus</b>	7-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
<b>Vines</b>	7-10 L	4-6 weeks post budburst ~ Pre-flowering * application after fruit set should be based on K needs as determined by a leaf test
<b>Potatoes</b>	7-10 L	Apply at full leaf emergence ~ Tuber initiation
<b>Onions</b>	7-10 L	Apply at full leaf emergence ~ 4-5 leaf ~ Early bulbing
<b>Carrots</b>	7-10 L	Mid vegetative growth ~ Active root bulking
<b>BioMAX F75</b>	100-300 mL	Optional for increased plant uptake

Rates and timings may change depending on crop and season. Always consult a LawrieCo area manager or distributor for specific recommendations.

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Micronised

Liquid Fertiliser

# PHOS CAL

**MICRONISED CALCIUM 26% PHOSPHORUS 12%**  
**SILICA 7% BORON 1.5% COMPLEXED WITH FULVIC 2%**

**Results in greater yield potential and quality across crop types.**

**The formula has an ideal bionutrient sequence for plant uptake of nutrients.**

**Maintain ideal plant pH balance when phosphorus is alkalisied with calcium.**

**Silica aids plants natural response to pest and disease pressure.**

- Calcium and silica build cell strength for improved plant health, produce quality and natural response to pest and disease pressure.
- Efficient plant uptake with natural fulvic chelation.
- Silica and boron synergise with calcium and improve its uptake by plants, the start of bionutrient sequencing.
- Excellent P source for legumes and pulses.
- Micronised minerals complexed with fulvic allows high concentrations of normally incompatible nutrients to be held in suspension.

## Essential Plant Nutrients teamed with Easy Application

Guano in a micronised form provides nutrient density to plants that is highly plant available, ensuring plant growth and productivity results. High in phosphorus with calcium, silica and boron as well as many other trace minerals plus a powerful fulvic chelate. Optimal delivery of this nutrient combination is made possible through advanced fertiliser technology to create a low viscosity suspension designed to be free-flowing.

## TYPICAL ANALYSIS (w/v)

Nitrogen	6.0% total		9.1% as oxide
	5.75% as urea	Magnesium	1.7% as oxide
	0.25% as ammonium	Silica	6.6% as orthosilicate
Phosphorus	11.8% total	Boron	1.5% as borate
	0.8% as soluble	Iron	0.3% as oxide
	1.0% as citrate soluble	Manganese	0.02% as oxide
	10% as citrate insoluble	Zinc	0.01% as oxide
Potassium	3.0% as oxide	Fulvic Acid	2.0% as potassium fulvate
Sulphur	0.5% as organic	pH	5.6 - 5.9
Calcium	26.2% total	Specific Gravity	1.65 g/mL
	17.1% as phosphate		

Available in 5L, 10L, 200L & 800L. Check label for more application and handling info.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	Apply prior to flag initiation or as required
Canola	2-5 L	Apply prior to flower bud development or as required
Legumes (Beans/Peas/Lupins)	2-5 L	Apply prior to flowering or if a boost is required
Pasture	2-5 L	Apply 2-3 weeks after emergence or if a boost is required
Lucerne	2-5 L	Apply 2-3 weeks after emergence or if a boost is required
Tree Crops (Orchards/Citrus)	3-10 L	Apply prior to flowering or at 2-4 weekly intervals as required
Vines	3-7 L	Apply prior to flowering or at 2-4 weekly intervals as required
Horticulture (Potato/Onion/Carrot)	3-7 L	Apply prior to flowering or at 2-4 weekly intervals as required
Turf	5-20 L	Apply every 2-4 weeks as required
<b>Fertigation</b>	5-30 L	Apply at 2-4 weekly intervals as required.
<b>BioMAX F75</b>	100-300 mL	Optional for increased plant uptake

Micronised particles can block spray systems, to avoid modify filters and nozzles as follows:  
FILTRATION requires 35-50 mesh or greater NOZZLE Size 3-5  
Rates and timings may change depending on crop and season.  
Always consult a LawrieCo area manager or distributor for specific recommendations.

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# CAL-N FULVATE

**CALCIUM 9%, NITROGEN 8%, POTASSIUM 1.5%, TRACE ELEMENTS WITH FULVIC & BIOSTIMULANTS**

**Effective Calcium, Nitrogen, and Trace Elements.**

**Chelated with Fulvic and Biostimulants for Uptake and Plant Health.**

- High analysis Calcium and Nitrogen with a suite of trace minerals and biostimulants to improve uptake.
- Calcium governs the uptake of several key minerals.
- Calcium is essential for cell division and cellular strength.
- Microbe base assists plant health.
- Ideal for foliar applications.
- Suitable for use in greenhouses.

**Bio-Stimulants prime the crop for nutrient uptake... Naturally**  
Cal-N Fulvate is made in a base of fermented beneficial bacteria and fungi. Compounds in Cal-N Fulvate such as kelp, hormones, saponins, amino acids, fulvic acid, proteins, enzymes and vitamins from microbial base trigger plant processes that result in greater nutrient uptake, increased carbon dioxide intake and photosynthetic activity. This induces growth in the plant.

When plant stimulants are combined with nutrition the plant is triggered into a more productive mode ready to accept the increased level of nutrition. The plant is 'primed' to accept the increase in nutrition, resulting in greater plant health and productivity.

## TYPICAL ANALYSIS (w/v)

Nitrogen as nitrate	7.45%	Magnesium	0.155%
Nitrogen as ammonium	0.5%	Manganese as nitrate	0.2%
Total Nitrogen	7.95%	Zinc as nitrate	0.08%
Potassium as nitrate	1.0%	Boron as ethanolamine	0.02%
Potassium as organic	0.5%	Molybdenum as molybdate	0.01%
Total Potassium	1.5%	Cobalt as sulphate	0.0015%
Calcium as nitrate	8.7%	Fulvic Acid as fulvate	5%
Calcium as organic	0.3%	pH	3.8 - 4.1
Total Calcium	9.0%	Specific gravity	1.31 - 1.34

Available in 5L, 10L, 20L, 200L & 1000L. Check label for more application and handling info.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering
Potatoes	3-10 L	Apply at full leaf emergence ~ Tuber initiation
Onions	3-10 L	Apply at full leaf emergence ~ 4-5 leaf ~ Early bulbing
Carrots	3-10 L	Mid vegetative growth ~ Active root bulking
Turf	10-25 L	Apply every 2-4 weeks as required
<b>Fertigation</b>	5-25 L	Apply at 2-4 weekly intervals as required
<b>BioMAX F75</b>	100-300 mL	Optional for increased plant uptake

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo area manager or distributor for specific recommendations.

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# ADVANCE

**PHOSPHORUS 10% POTASSIUM 9% BALANCED  
WITH NITROGEN 2.6% CALCIUM 3% + BIOSTIMULANTS**

**Essential growth nutrients complexed with biostimulants to ensure nutrient efficiency and optimise plant processes.**

**Biologically enhanced with kelp, natural plant hormones, saponins and amino acids for improved natural plant metabolism and balanced nutrition.**

- P and K focus with nitrogen, calcium, biostimulants, saponins and amino acids in one application.
- Increase potential productivity and quality.
- Balanced plant growth.
- Improve soil nutrient uptake through carbon dumping.
- Contains food sources to promote beneficial biology.
- Contains natural wetting agents such as saponins.
- Balanced nutritional application.

## Bio-Stimulants prime the crop for nutrient uptake... Naturally!

Compounds such as kelp, amino acids, microbial metabolites and saponins trigger plant processes that result in greater nutrient uptake, increased carbon dioxide intake and photosynthetic activity. Basically the plant is 'primed' to accept the increase in nutrition, resulting in greater plant health and productivity.

## TYPICAL ANALYSIS (w/v)

Nitrogen	2.6% total (as nitrate)
Phosphorus	10.0% total (as water soluble)
Potassium	9.05% total (as phosphate)
Calcium	3.21% total (as nitrate)
pH	1.55-1.85
Specific gravity	1.32-1.36 g/mL

Available in 5L, 10L, 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Low Rainfall Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Moderate Rainfall Pasture	7-12 L	Spray pasture when sufficient leaf area exists
High Rainfall Pasture	12-25 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-10 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering
Potatoes	3-10 L	Apply at full leaf emergence ~ Tuber initiation
Onions	3-10 L	Apply at full leaf emergence ~ 4-5 leaf ~ Early bulbing
Carrots	3-10 L	Mid vegetative growth ~ Active root bulking
Turf	10-25 L	
<b>Fertigation</b>	5-50 L	
<b>BioMAX F75</b>	100-300 mL	Optional for increased plant uptake

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

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# GRANULAR RANGE

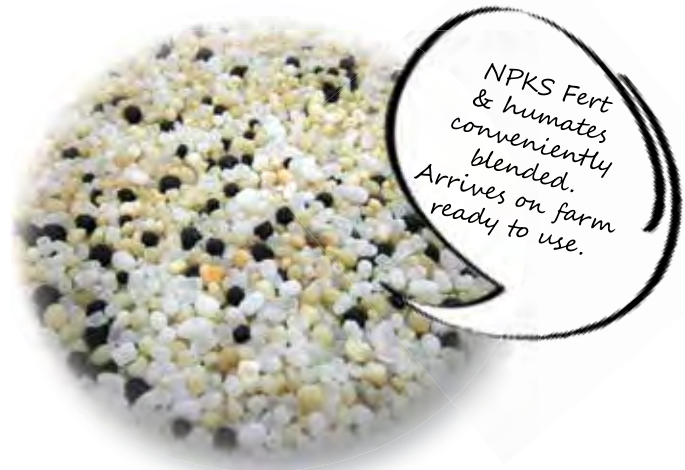
HIGH ANALYSIS N P S + HUMIC AND FULVIC

**Improve Crop Yield, Grain Quality and Soil Carbon as proven in agriculture department, independent and farm trials.**

**Conventional N P K fertilisers blended with high quality Soluble Humate Prills.**

**Easy handling Soluble Humate Prill blends of 5% (H3), 10% (H5), 15% (H8) or 20% (H10).**

- Blends based on MAP / SOA / DAP / Urea + humates.
- Custom analysis options available, including traces.
- Humic improves fertiliser efficiency, buffers excess nutrients (sodium) and promotes soil structure and water holding capacity.
- Humic and fulvic improve nutrient availability and uptake, maximising fertiliser efficiency.
- Some farmers are experimenting with higher humate concentrations with exceptional results.
- Combines a humic base with conventional soluble fertilisers to maximise crop potential.
- Sulphur is important for crop nitrogen uptake.



Combine with SureCROP Seed Treatment for optimal crop results. SureCROP Seed Treatments combine nutrients and biology to stimulate early root growth, root mass and seedling vigour.

## TYPICAL ANALYSIS (w/w - As is basis)

		N	P	K	S	HUMIC
NutriMAX	15:11:0:12 + H3	14.7	10.5	0	11.9	2.5
NutriMAX	14:10:0:11 + H5	14.0	9.9	0	11.3	5.0
NutriMAX	13:9:0:11 + H8	13.2	9.4	0	10.6	7.5
NutriMAX	12:9:0:10 + H10	12.4	8.8	0	10.0	10.0
NutriMAX	10:21:0:1 + H3	9.5	20.9	0	1.0	2.5
NutriMAX	9:20:0:1 + H5	9.0	19.8	0	0.9	5.0
NutriMAX	9:19:0:1 + H8	8.5	18.7	0	0.9	7.5
NutriMAX	8:18:0:1 + H10	8.0	17.6	0	0.8	10.0
NutriMAX	20:0:0:23 + H3	20.0	0	0	22.8	2.5
NutriMAX	15:9:0:9 + H11	15.0	8.9	0	8.5	11.0
NutriMAX	14:15:0:6 + H5	14.0	14.7	0	5.5	5.0
NutriMAX	17:12:0:8 + H5	17.1	12.0	0	7.8	5.0

## RECOMMENDATIONS

Application will depend on crop type, rainfall and nutrient removal.

Broadacre Cropping

50 -150 kg/Ha

Various analysis options available on request.

Higher humic % options - H5, H8, H10, customised.

Blended to your requirements, eg Mn, Zn, Cu.

Available in bulk or 1 Tonne bulka bags

Combine with SureCrop seed treatment for optimal results.

Rates and timings may change depending on crop and season. Always consult a LawrieCo consultant or distributor for specific recommendations.

Building wealth from soil with  
Next Generation Fertiliser



# BIOGRAZE

**BALANCED FERTILISER FOR PASTURE PRODUCTIVITY  
AND STOCK HEALTH BENEFITS**

**A new formulation with increased availability  
of Phosphorus.**

**2 New blends designed to maximise your  
pasture and stock health.**

**Including powerful stimulants to aid plants  
in regenerating Soil Organic Carbon.**

- A mix of soluble phosphorus for a quick response and slow release phosphorus for long lasting P delivery and sustained pasture growth.
- Better pasture productivity and nutrient value for dryland, dairy and irrigated grazing.
- Nutrient dense pasture and quality hay for healthy stock.
- Build soil water holding capacity, so pasture stays greener for longer.
- Enhances soil biological function and soil carbon.
- Balanced nutrients with phosphorus, calcium, sulfur and trace elements combined with humic and fulvic.
- A blend of colloidal and soluble phosphorus to maximise seasonal growth and production.
- BioGraze can be customised to suit soil and pasture needs, adding potassium, trace elements and others.

Available in bulk from Naracoorte SA and 1 tonne bulka bags.



## Soil Biology Releases Locked-up Nutrients

Soil biological activity is vital to releasing P and trace elements locked up in Australian soils. To stimulate biology BioGraze includes humic and fulvic and is also inoculated with beneficial biology & food sources including natural biostimulants.

## RECOMMENDATIONS

	Rate / Ha
BioGraze	150 - 250 kg/ha
BioGraze Sustain	200 - 400 kg/ha

Broadcast with a Belt spreader.

Prescription Blends and blends with Potassium available on request.

Rates and timings may change depending on crop and season. Always consult a LawrieCo consultant or distributor for specific recommendations.

## TYPICAL ANALYSIS (w/w - dry basis)

Product	Analysis	N	P	K	S	Ca	Mg	Zn	Mn	Cu	Co	Organic Carbon	Humic	Si	Spread at kg/ha
NEW BioGraze	%	1.7	5.7	0.15	4.4	10.0	0.4	0.305	0.37	0.065	0.005	11.4	14.0	6.1	200.0
	Units /Ha	3.4	11.4	0.31	8.7	20.0	0.9	0.610	0.74	0.131	0.010	22.7	28.1	12.1	
NEW BioGraze Sustain	%	1.2	4.0	0.25	4.8	13.5	0.5	0.214	0.290	0.05	0.004	10.4	12.8	10.5	300.0
	Units /Ha	3.6	12.1	0.76	14.4	40.4	1.6	0.643	0.871	0.15	0.012	31.3	38.5	31.5	

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# PHOSBIO

SOIL CONDITIONER AND BALANCED FERTILISER  
WITH BIO-ACTIVE COLLOIDAL SOFT ROCK PHOSPHATE

**Ideal for use in all crops where soil phosphorus levels need building or maintaining.**

**Rapid improvement in soil structure, organic carbon, nutrient availability and stimulate soil biological activity.**

- A colloidal calcium phosphate that can never lock up, in stark contrast to all other phosphate sources.
- This exceptional fertiliser includes 7% phosphorus, 17% calcium, 18% silica, 9% Humic and a rich lode of trace elements.
- A microbe-friendly bio-phosphate, which is an integral part of our soil carbon regeneration program.
- This is one of the few phosphate sources that doesn't have problems with the heavy metal cadmium, becoming plant-available much faster than reactive rock phosphates.
- Humic acids and included beneficial biology support nutrients to become part of the soil solution and chemical activity. This increases its dispersion in the soil and levels of chemical bonding with nutrients, keeping more nutrients plant available. Leading to further plant access of stored / locked up soil minerals.
- Build water holding capacity and nutrient availability.



## Benefits of PhosBio

The 'Active' carbon is soluble for immediate benefit in the soil. Colloidal minerals provide health benefits to soil microbes. Save on water with higher soil water capacity.

## RECOMMENDATIONS

### Rate / Ha

PhosBio 100 kg - 1.5 tonne

Broadcast with a Belt spreader.

Prescription Blends available on request.

*Rates and timings may change depending on crop and season. Always consult a LawrieCo consultant or distributor for specific recommendations.*

Available in bulk from Naracoorte SA and 1 tonne bulka bags.

## TYPICAL ANALYSIS (w/w - dry basis)

Product	Analysis	N	P	K	S	Ca	Mg	Mn	C	Organic Carbon	Humic	Si	Spread at kg/ha
NEW PhosBio	%	0.1	7.1	0.44	0.8	17.2	0.7	-	-	7.9	9.6	18.4	200
	Units /Ha	0.2	14.2	0.89	1.6	34.5	1.5	-	-	15.8	19.1	36.8	

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# GUANO GRANULES

**NATURAL 11.5% PHOSPHORUS 29% CALCIUM 9% SILICON  
DECOMPOSED, ANCIENT SEABIRD DROPPINGS**

***Sustained release of Phosphorus,  
ensures plant availability throughout  
the growing season.***

***Maximising production and return on  
your nutrient investment.***

***Optimise quality of produce and natural  
response to pest and disease pressure.***

- Calcium and silicon build cell strength for improved plant health, produce quality and natural response to pest and disease pressure.
- Silica in combination with phosphorus will improve plants uptake of phosphorus.
- Guano is a natural biostimulant and will promote beneficial soil biological processes and plant root and soil interactions.
- Can be blended with traditional granular fertilisers.
- Suitable for air-seeder application.

## Essential Plant Nutrients with Easy Application

Guano provides nutrient density to plants that is highly plant available, ensuring plant growth and productivity results. High in phosphorus with calcium, silica and boron as well as many other trace minerals. Optimal delivery of this nutrient combination is made possible through a simple easy to apply granule.

## TYPICAL ANALYSIS (w/w - As is basis)

Phosphorus	0.01% as water soluble	Silica	9.23%
Phosphorus	2.04% as citrate soluble	Magnesium	1.84%
Phosphorus	9.45% as citrate insoluble	Iron	0.565%
Total Phosphorus	11.5%	Manganese	0.038%
Potassium	0.36%	Zinc	0.007%
Sulphur	1.38%	Boron	0.003%
Calcium	29.72%		

Available in 25kg bags and 1.25T bulk bags, ex Regency Park SA



Combine with SureCROP Seed Treatment for optimal crop results. SureCROP Seed Treatments combine nutrients and biology to stimulate early root growth, root mass and seedling vigour.

(Note: SureCROP Seed Treatments are not organically allowable inputs)

## RECOMMENDATIONS

**Application will depend on crop type, rainfall and nutrient removal.**

<b>Cereals / Canola / Legumes (Beans/Peas/Lupins)</b>	50 - 250 kg/Ha
<b>Pasture / Lucerne</b>	70 - 250 kg/Ha
<b>Vines &amp; Tree Crops (Orchards/ Citrus)</b>	50 - 500 kg/Ha
<b>Horticulture (Potatoes/Onions/ Carrots)</b>	50 - 500 kg/Ha
<b>Turf</b>	50 - 500 kg/Ha

Suitable for air-seeders, augers or cone spreaders.  
Suitable for blending with other granular fertilisers ie SOA, BioMAX Soluble Humate Prills or trace elements.

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo consultant or distributor for specific recommendations.

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# REGENERATE

COMPLETE TURF AND GARDEN FERTILISER AND  
SOIL CONDITIONER WITH A CARBON BASE

**Concentrated mineral fertiliser with the  
benefits of humic acid and carbon**

**Increase available phosphorous and other  
nutrients in the soil**

**Greater resilience to environmental, pest  
and disease impacts**

- Improve soil water use efficiency.
- Ideal for re-vegetation and soil remediation.
- Produces healthy turf and plants with high disease immunity.
- Rapid improvement in soil structure and fertility.
- Opens up heavy soils.
- Builds moisture and nutrient holding capacity and structure in sandy soils.
- Builds ideal conditions for beneficial soil biology.

## Soil Biology Releases Locked-up Nutrients

Soil biological activity is vital to releasing P and trace elements locked up in Australian soils. To stimulate biology Regenerate includes humic and fulvic and is also inoculated with beneficial biology & food sources including natural biostimulants.



Whyalla Memorial Oval: Centre had Regenerate applied as Soil Broadcast plus Foliar Turf, Outer part of Oval had a Foliar Turf spray and Outside Oval had no applications. The same irrigation was applied in all areas.



## TYPICAL ANALYSIS (w/w - Dry basis)

Nitrogen	1.8%	Zinc	0.15%
Phosphorus	1.9%	Boron	8mg/L
Potassium	2.1%	Molybdenum	1.8mg/L
Sulphur	2.99%	Cobalt	1.4mg/L
Calcium	7.2%	Silicon	2.64%
Magnesium	1.0%	Carbon	22.2%
Iron	1.96%	Humic Acid	10.8%
Manganese	0.14%	Fulvic Acid	3.0%
Copper	0.05%	Ulmic Acid	0.78%

Available in bulk, 1 Tonne bulka bags and 25kg bags  
Compatible with many other dry fertilisers

## RECOMMENDATIONS

	Rate / Ha	Timing
Landscape	2-5 T	1-2 applications per year in Autumn or Spring
Turf Maintenance	2-5 T	1-2 applications per year in Autumn or Spring
Soil Remediation	5-10 T	1-2 applications per year in Autumn or Spring
Garden	250-500g per square metre (1-2 mugs) every 2-4 weeks during the growing season	
Pot Plants	1-2 tablespoons per pot plant every 2-4 weeks during the growing season	

Broadcast with a belt type spreader

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo consultant or distributor for specific recommendations.

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## BIOCOMPLETE

**4.5% NITROGEN 8% PHOSPHORUS 5.8% SULPHUR**  
**18% CALCIUM 9% SILICON 3% HUMIC**

**Balanced Guano, Nitrogen, Sulphur and Humic Compound Granule.**

**Sustained release of Phosphorus, ensures plant availability throughout the growing season.**

**Humic builds soil water holding capacity and stimulates beneficial soil biology.**

- Calcium and silicon build cell strength for improved plant health, produce quality and natural response to pest and disease pressure.
- Silica in combination with phosphorus will improve plants uptake of phosphorus.
- Humic also has pH buffering capacity and can reduce nutrient lock-ups associated with soil pH extremes.
- Retain and promote building of soil carbon with Humic.
- Guano is a natural biostimulant and will promote beneficial soil biological processes and plant root and soil interactions.
- Humic is a fungal stimulant. Beneficial fungi are the missing biological link in many agricultural soils.
- Suitable for air-seeder application.



### Essential Plant Nutrients with Easy Application

High in phosphorus with calcium, silica and boron as well as many other trace minerals, Guano provides highly plant available nutrients, ensuring plant growth and productivity. Humic is a natural chelator and complexing agent, further increasing nutrient absorption. Optimal delivery is made possible through an easy to apply granule.



For optimal results, combine with SureCROP Seed Treatments which combine nutrients and biology to stimulate early root growth, root mass and seedling vigour.

### TYPICAL ANALYSIS (w/w - As is basis)

Nitrogen	4.5% as ammonium	Magnesium	0.6% as carbonate
Total Nitrogen	4.5%	Iron	1%
Phosphorus	1.2% as citrate soluble	Manganese	0.08%
Phosphorus	6.8% as citrate insoluble	Zinc	0.02%
Total Phosphorus	8.0%	Nickel	0.002%
Potassium	0.2% as carbonate	Cobalt	0.0007%
Sulphur	5.8% as sulphate	Molybdenum	0.0002%
Calcium	4.5% as carbonate	Selenium	0.0001%
Calcium	4.5% as phosphate	Humic acid	3%
Calcium	9.0% as silicate	pH	6.9-7.3
Total Calcium	18.0%	Moisture	6.5-7.5%
Silica	9.0% as silicate		

### RECOMMENDATIONS

Application will depend on crop type, rainfall and nutrient removal.

Cereals / Canola / Legumes (Beans/Peas/Lupins)	50 - 250 kg/Ha
Pasture / Lucerne	70 - 250 kg/Ha
Vines & Tree Crops (Orchards/Citrus)	50 - 500 kg/Ha
Horticulture (Potatoes/Onions/Carrots)	50 - 500 kg/Ha
Turf	50 - 500 kg/Ha

Rates and timings may change depending on crop and season.  
 Always consult a LawrieCo consultant or distributor for specific recommendations.

Available in 25kg bags and 1.25T bulka bags, ex Regency Park SA

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# F75 FULVIC LIQUID CONCENTRATE

FULVIC ACID 75%

NATURAL CHELATE ENHANCES NUTRIENT UPTAKE

**Maximise liquid fertiliser nutrient efficiency.**

**Fulvic's unique ability to form multiple strong bonds with minerals ensures nutrient efficacy and plant uptake.**

**Buffer against high salts and other toxicities in water and soil.**

- Improve nutrient uptake for stronger plants.
- Trace elements available for a longer period.
- Aids plant recovery from stress due to moisture, disease, frost or heat.
- Promotes natural plant processes of chelation and improved uptake of nutrients.
- Buffers against 'burning' with foliar applications.
- Enhances cell reproduction and root growth.
- Can be used during prolonged low sunlight or cloudy periods to enhance photosynthesis.
- Can detoxify pollutants and chemicals in soil and catalyse rapid breakdown of toxins; reducing soil life damage.
- Compatible with most inputs: acid or alkaline (see label)



## RECOMMENDATIONS (as liquid)

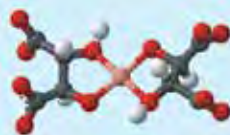
	Rate / Ha	Timing
<b>Seed Dressing</b>	100-200 ml /tonne	with SureCrop VAM to buffer chemical seed dress.
<b>Foliar</b>	<b>Apply with nutrition to enhance uptake. Apply to aid plant resilience to moisture stress or disease.</b>	
Cereals	100-300 ml	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Canola	100-300 ml	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	100-300 ml	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	100-300 ml	Spray pasture when sufficient leaf area exists
Lucerne	100-300 ml	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	200-500 ml	Spring Flush to Autumn Flush. Avoid spraying close to harvest to avoid potential staining
Vines	200-500 ml	2wks post budburst to post-harvest. Avoid close to harvest to avoid potential staining
Vegetables (Potato/Onion/Carrot)	200-500 ml	Apply from full leaf emergence ~ Repeat applications as required
Turf	200-500 ml	Apply with nutrition applications
<b>Fertigation</b>	200-500 ml	Not recommended with high rates of nitrogen in sandy soil, select BioMAX Liquid Humate
<b>Foliar nitrogen</b>	100 ml : 10 kg N	For greater efficiency and to reduce leaf burn

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.

## Strong chelate with multiple bonds

A high concentration of cation bonding sites gives fulvic the ability to form stronger multidentate bonds (>2). This chelates minerals and trace elements, transporting them into the plant cell structures in a highly available form.



## TYPICAL ANALYSIS (w/v)

Fulvic Acid	75% min	Specific Gravity	1.37-1.38g/ml
pH	6.75-6.95		

Available in 5L, 10L, 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.

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# LIQUID FULVIC

FULVIC ACID 8%

NATURAL CHELATOR ENHANCES NUTRIENT UPTAKE

**Maximise liquid fertiliser nutrient efficiency.**

**Buffer high salts and other toxicities.**

**Aid plant resilience to moisture stress.**

- Natural chelation and improved uptake of nutrients.
- Trace elements more available for a longer period.
- Compatible with most inputs - acid or alkaline (see label for details).
- Aids plant recovery from stress due to moisture, disease, frost or heat.
- Buffers against 'burning' with foliar applications.
- BioMAX Liquid Fulvic has a CEC of 1500 and very small molecule size, optimising chelation.
- Enhances cell reproduction and root growth.
- Can be used during prolonged low sunlight or cloudy periods to enhance photosynthesis.
- Can detoxify pollutants and chemicals in soil and catalyse rapid breakdown of toxins; reducing soil life damage.
- Extracted from lignite brown coal.

## Fulvic with high purity and compatibility

BioMAX Liquid Fulvic is more biochemically active and has high compatibility in tank mixes. The higher cation exchange capacity, soil mobility and biostimulation in plants is a result of it being a low molecular weight potassium fulvate that is high in reactive oxygen functional groups. The methods we use in the fulvic extraction from lignite, increases these important oxygen functional groups.

During the separation process we remove all of the brown/black humic acids to produce a purified product of concentrated fulvic acids with **the highest possible liquid fertiliser compatibility and a high degree of chelation and penetration.**

## TYPICAL ANALYSIS (w/v)

Fulvic Acid 8.0% as potassium fulvate      Specific gravity 1.04 - 1.07 g/mL  
pH      3.85 - 4.15

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.

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## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Dressing</b>	1-2 L/tonne	with SureCropVAM to buffer chemical seed dress.
<b>Foliar</b>	<b>Apply with nutrition to enhance uptake. Apply to aid plant resilience to moisture stress or disease.</b>	
Cereals	1-3 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Canola	1-3 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	1-3 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	1-3 L	Spray pasture when sufficient leaf area exists
Lucerne	1-3 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	2-5 L	Spring Flush to Autumn Flush. Avoid spraying close to harvest to avoid potential staining
Vines	2-5 L	2wks post budburst to post-harvest. Avoid close to harvest to avoid potential staining
Vegetables (Potato/Onion/Carrot)	2-5 L	Apply from full leaf emergence ~ Repeat applications as required
Turf	2-5 L	Apply with nutrition applications
<b>Fertigation</b>	2-5 L	Not recommended with high rates of nitrogen in sandy soil, select BioMAX Liquid Humate
<b>Foliar nitrogen</b>	1 L : 10 N	For greater efficiency and to reduce leaf burn

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.





# LIQUID HUMATE 26

**26% POTASSIUM HUMATE & FULVATE FOR INCREASED NUTRIENT UPTAKE AND WATER USE EFFICIENCY.**

**Buffer excesses such as sodium and salts in irrigation water.**

**Improves water use efficiency.**

**High levels of humic acid are beneficial in soil remediation including low carbon, compacted, salt affected and sandy soils.**

- Humic chelates and stabilises nutrients, increasing plant uptake and growth response.
- Enhance plant productivity by improving nutrient availability, soil structure, water infiltration, water holding capacity and beneficial microbial function.
- Humic also has pH buffering capacity and can reduce nutrient lock-ups associated with pH extremes.
- The high CEC (Cation Exchange Capacity) of humic contributes to improved water use efficiency.
- Natural growth stimulants enhance plant cell reproduction.
- Humic is a fungal stimulant; beneficial fungi are a missing biological link in many agricultural soils.
- Humic and fulvic are concentrated Carbon sources that can help restore soil carbon which is critical for optimum soil fertility but depleted by repeated applications of high levels of Nitrogen fertilisers.
- High quality, low molecular weight humic with lower viscosity and higher stability. Extracted from lignite/ brown coal.

## TYPICAL ANALYSIS (w/v)

Humic & Fulvic Acid	22%	Carbon	11.2%
Potassium	4%	pH	10.5-11.0
Potassium Humate/ Fulvate	26%	Specific gravity	1.15 g/mL

Available in 5L, 10L, 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar</b> Humic Acid can be used with Urea, UAN and Potassium Silicate in foliar applications		
Citrus	2-5 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	2-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering
Potatoes	3-10 L	Apply at full leaf emergence ~ Tuber initiation
Onions	3-10 L	Apply at full leaf emergence ~ 4-5 leaf ~ Early bulbing
Carrots	3-10 L	Mid vegetative growth ~ Active root bulking
Turf	10-25 L	
<b>Fertigation</b> Apply to stabilise nutrients particularly urea, to buffer against salt and toxicities in irrigation water and to build soil carbon levels		
<b>Vegetables</b>	10-20 L	Apply weekly
<b>Orchards</b>	10-20 L	Apply every 2-4 weeks
<b>Vines</b>	10-20 L	Apply every 2-4 weeks

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

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# KELP POWDER

CONCENTRATED SOURCE OF  
100% SOLUBLE CANADIAN KELP

**Enhance plant health and fruit quality  
with potent chelating agents, natural  
plant hormones and complex sugars**

**Increase resistance to frost and  
environmental stresses**

**Boost yield and quality by improving  
flowering and fruit set**

- Create balanced growth through natural source of trace elements, essential amino acids, auxins and cytokinins.
- Increase nutrient uptake by enhancing root growth.
- Assist plant establishment.
- Buffer transplant shock.
- Protection and food to stimulate beneficial soil biology.
- For foliar, fertigation and seed treatment application.

## The science behind improved plant health

Kelp powder - with natural plant hormones to promote and influence growth development of cells and tissue. These hormones trigger specific plant growth responses, leading to healthier, more productive crops. This aids in building plant resistance to environmental and biological stresses.

## TYPICAL ANALYSIS (w/w - Dry basis)

Nitrogen (as organic)	0.5% min	Iron	0.02%
Potassium (as oxides)	12.4% min	Manganese	0.004%
Potassium (as organic)	1.7% min	Copper	0.001%
Sulfur	1.0-2.0%	Zinc	0.005%
Calcium	0.2-0.5%	Carbon (organic)	20% min
Magnesium	0.2-0.6%	pH	10.0-10.5
Boron	0.0075%	Solubility	100%

Available in 20kg box.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Treatment</b>	1 kg / Tonne	Increase root length, mass, shoot growth
<b>Foliar Applications</b>	<b>Additional applications can be made prior to or following stress periods such as frost or drought</b>	
Cereals	0.3-1 kg	Tillering (GS 20-29) ~ stem elongation (GS 30-31) ~ Booting (GS 40-49)
Canola	0.3-1 kg	4-6 leaf stage (Mid Rosette) ~ repeat as required
Legumes (Beans/Peas/Lupins)	0.3-1 kg	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	0.3-1 kg	Spray pasture when sufficient leaf area exists
Citrus	1 kg	Early vegetative, 4 week intervals
Vines	0.75-1 kg	4 weeks post budburst ~ pre flowering ~ berries peasize
Potatoes	0.75-1 kg	Full leaf emergence ~ Tuber initiation ~ 12-14 days later ~ flowering ~ bulking
Onions/Carrots	0.75-1 kg	2-3 weeks after emergence ~ root enlargement ~ 10-14 day intervals until harvest
Turf	1 kg	3-4 week intervals from initial growth stage ~ after heavy use ~ late season

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

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# FISH HYDROLYSATE

**AMINO ACIDS, FATTY ACIDS AND VITAMINS  
WITH BOTH MACRO & MICRO NUTRIENTS**

**An organic fertilizer containing wide spectrum of major nutrients and trace elements in plant available form.**

**Pure 100% liquid fish, retaining all the fish oil in an undiluted form.**

**A rich food source revitaliser for both beneficial microbes and fungi in the soil.**

- Enhances growth of beneficial organisms and earthworms.
- Inhibits disease, mould and pest attack.
- Enhances flavour and texture of crops.
- Suitable for all soils, pastures, crops, ornamentals, trees and vegetables.
- Environmentally friendly and safe to the environment.



## What is LawrieCo's BioMAX Fish Hydrolysate?

Fish hydrolysate is a natural product containing amino acids, fatty acids and vitamins, as well as macro and micro nutrients, including selenium. It contains nutrients that feed the soil microbial organisms including the Nitrogen-fixing bacteria, which are capable of transforming atmospheric nitrogen into fixed nitrogen, usable by plants. This ensures sustainable and healthy plant growth, as nitrogen is used for the synthesis of proteins, amino acids, DNA and RNA.

An increase in soil microorganisms leads to increases in available soil nutrients, enhancing plant growth and improving resistance to diseases and pests. Increase in soil microorganisms will also enhance soil structure, which in turn increases soil water holding capacity.

## TYPICAL ANALYSIS (w/v)

Nitrogen	2.77%	Molybdenum	0.05 ppm
Phosphorus	0.93%	Carbon Content	1 - 1.5%
Potassium	0.29%	Organic Matter	2 - 3%
Sulfur	0.30%	Total Oil & Grease	6.6%
Calcium	0.26%	Moisture Content	69%
Magnesium	0.05%	Free Fatty Acid	0.61%
Iron	144.38 ppm	Omega 3 Fatty Acids	0.93%
Silicon	55.1 ppm	Crude Protein	15.19%
Zinc	29.4 ppm	Pepsin Digestable Protein	98%
Boron	21 ppm	pH	3.3
Selenium	7.2 ppm	Electrical Conductivity	15.1 dS/m
Copper	2.22 ppm	Specific Gravity	1.08 g/mL
Manganese	2 ppm		
Cobalt	0.27 ppm		

Available in 5L, 10L, 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.

## RECOMMENDATIONS

	Rate/Ha	Timing	Dilution Rate
<b>Foliar</b>	Apply with nutrition to enhance uptake. Apply to aid plant resilience to moisture stress or disease		
<b>Broadacre</b>	20-40 L	At pre-planting	1:10
	5-7 L	Foliar spray at 10-21 day intervals	1:50
<b>Field Crops/ Vegetable</b>	20-40 L	At pre-planting	1:10
	5-7 L	Foliar spray at 10-21 day intervals	1:50
<b>Pasture</b>	10-20 L	Apply in moist conditions, morning or afternoon	1:10
	5-10 L	Apply 7 days after grazing	
<b>Horticulture/ Viticulture</b>	10-20 L	Apply inter row to soil or grass/ clover cover in spring and autumn	1:10
	5-10 L	Apply at morning or afternoon in moist conditions	1:100

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.

**Building wealth from soil with  
Next Generation Fertiliser**



# BOOST

## ORGANIC LIQUID NUTRITION AND PLANT STIMULANTS

**BOOST combines Kelp, Fish and Fulvic including natural growth hormones.**

**It is designed for foliar and fertigation application in all broadacre crops, dairy, pasture, horticulture and viticulture.**

**The product contains a natural balance of minerals, vitamins, oils, proteins, amino acids and trace elements.**

- Combines nature's best plant stimulants into one product.
- Wide range of macro and trace elements in a plant available form from natural ocean sources.
- Additional stimulants for plant health, growth and bio-activity.
- Organic natural form of nitrogen.
- Natural uptake and wetting agent to enhance spray efficiency.
- Positive influence on various plant processes, including plant growth and root development.



### TYPICAL ANALYSIS(w/v)

Nitrogen	0.9%	Zinc	30ppm
Phosphorous	0.4%	Copper	2ppm
Potassium	3.25%	Molybdenum	0.5ppm
Calcium	0.3%	Cobalt	0.5ppm
Magnesium	0.15%		
Sulfur	2.2%	pH	3.7-3.9
Iron	50ppm	Sp gravity	1.11-1.14
Boron	7ppm		

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.

### APPLICATION RATES

For foliar and fertigation in all broadacre crops, pasture, viticulture and horticulture.

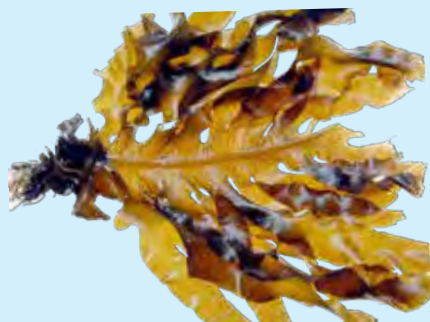
	Rate/Ha
Broadacre	2-10L/Ha
Horticulture/Viticulture	2-20L/Ha
Fertigation/Turf/Landscape	5-30L/Ha

Ensure adequate leaf area index for nutrient absorption  
Rates and timings may change depending on crop and season.  
Always consult a LawrieCo consultant or distributor for specific recommendations.

### BUILD PLANT HEALTH WITH KELP

The Kelp component of BOOST is harvested from premium marine plant exclusive to the cold North Atlantic.

It contains a multitude of naturally occurring compounds that influence various plant biochemical processes, leading to increased protein and enzyme synthesis, improved cell water retention & membrane integrity.



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Next Generation Fertiliser



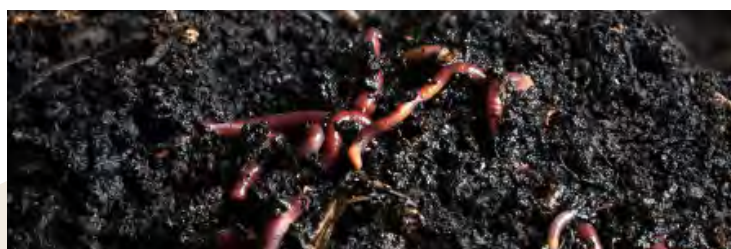
# VERMI LIQUID

**UNIQUE NUTRIENT AND BIOLOGICALLY RICH LIQUID FERTILISER**

*Developed to provide both microorganisms and organic nutrients to feed and sustain the development of a healthy soil food microbiome once applied.*

*Minimise the amount of fungicide needed to manage plant-based disease.*

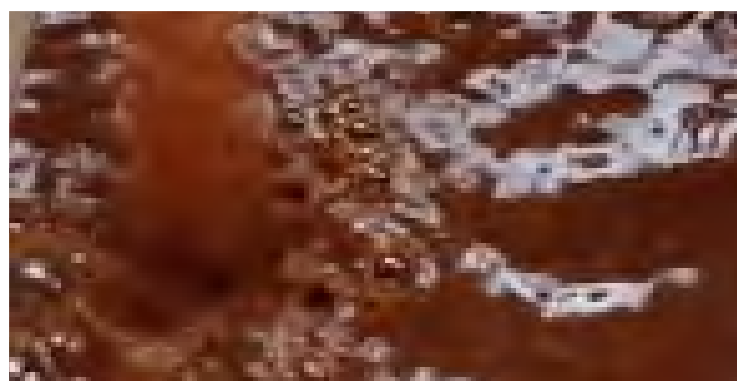
- Faster and more efficient nutrient uptake capabilities.
- Nutrients applied by way of fertiliser are effectively immobilised and mineralised as the plant requires.
- Phosphorous is unlocked in fixed soils where mineralisation percentages are often low.
- Vermi Liquid includes a range of free living nematodes included to evenly populate the soil minimising the impact of pathogenic nematodes like root knot, spiral or stubby root nematodes.
- Improves Root Health, Root Depth, Water Retention, Soil Aerobic Conditions & Soil Structure means less watering needed and significantly reduces your dependence on traditional fertilisers.



Available in bulk

## TYPICAL ANALYSIS (mg/L)

		BIOLOGICAL ANALYSIS g/L	
Nitrogen	0.085%	Total Micro-Organisms	204.1
Phosphorus	0.100%	Total Bacteria	41.0
Potassium	0.09%	Total Fungi	160.2
Boron	0.05%	Protozoa	2.858
Calcium	0.012%	Mycorrhizal Fungi	4.151
Copper	1.0%	Pseudomonas	6.541
Iron	50mg/kg	Actinomycetes	2.272
Magnesium	0.014%		
Sodium	0.036%		
Sulphur	0.1%		
Zinc	1mg/kg		



## Benefits of Vermi Liquid

Inputs include pure worm cast & composted manures leachate and various minerals & aminos that result in an end product with a diverse range of microbial life, trace elements, minerals and nutrients. The increased microbial activity results in a greater release of nutrients to the soil, which is the cornerstone to improved crop and plant health.

## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Spray</b>	Use at your regular dilution rate	
Broadacre	9-12L/ha	When sowing into prepared seed bed, it is best applied using a gravity fed opener or air seeder as a band 5cm or 2 inches of sub-surface. Alternatively can be used as a top dress in crop.
Horticulture	5-7L/ha	When applied Pre-plant used via belt spreader along drip line or in the bottom of a dug hole before the planting of a tree vine, alternatively can be blanket spread.
Pastures	15-20L/ha	When sowing into prepared seed bed, it is best applied using a gravity fed opener or air seeder as a band 5cm or 2 inches of sub-surface. Alternatively can be used as a top dress in crop.

## APPLICATION

Apply as a foliar spray or through drip sprinkler, irrigation or sprayer. Apply product to the soil to provide an inoculation of active microorganisms.

Screened to 80 micron and under. Minimise heavy irrigation of the root zone in the first five to seven days to mitigate leaching of spores and active organisms' pre-colonisation.

Building wealth from soil with  
Next Generation Fertiliser





# PIRANHA 18% KELP

18% AUSTRALIAN BULL KELP AND NORTH ATLANTIC ASCOPHYLLUM NODOSUM

**Enhance plant health and fruit quality with potent chelating agents, natural plant hormones and complex sugars**

**Increase resistance to frost and environmental stresses**

**Boost yield and quality by improving flowering and fruit set**

- Create balanced growth through natural source of trace elements, essential amino acids, auxins and cytokinins.
- Increase nutrient uptake by enhancing root growth.
- Protection and food to stimulate beneficial soil biology.
- Assist plant establishment.
- Stimulate and feed plant growth-promoting bacteria.
- Buffer transplant shock.
- For foliar, fertigation and seed treatment application.

## The science behind improved plant health

18% Piranha Kelp - with natural plant hormones to promote and influence growth development of cells and tissue. These hormones trigger specific plant growth responses, leading to healthier, more productive crops. This aids in building plant resistance to environmental and biological stresses.

## TYPICAL ANALYSIS (w/v)

Nitrogen	0.1% as ammonium	Calcium	0.15% as organic
Phosphorus	0.0115% as organic	Magnesium	0.12% as organic
Potassium	4.5% total	Silicon	0.0075% as soluble
	4.0% as carbonate	Durvillaea potaorum &	
	0.5% as organic	Ascophyllum nodosum	12.0% total
Sulphur	2.5% total	pH	12.0-12.5
	2.4% as sulphate	Total Solids	18.0%
	0.1% as organic	Specific Gravity	1.12-1.13

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Treatment</b>	8L/T seed	Increase root length, mass, shoot growth
<b>Foliar</b>	<b>Additional applications can be made prior to or following stress periods such as frost or drought</b>	
Cereals	2-3.5 L	Tillering (GS 20-29) ~ stem elongation (GS 30-31) ~ Booting (GS 40-49)
Canola	2-3.5 L	4-6 leaf stage (Mid Rosette) ~ repeat as required
Legumes (Beans/Peas/Lupins)	2-3.5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	2-5.5 L	Spray pasture when sufficient leaf area exists
Citrus	2-6.5 L	Early vegetative, 4 week intervals
Vines	2-6.5 L	4 weeks post budburst ~ pre flowering ~ berries peasize
Potatoes	4-5.5 L	Full leaf emergence ~ Tuber initiation ~ 12-14 days later ~ flowering ~ bulking
Onions/Carrots	4-5.5 L	2-3 weeks after emergence ~ root enlargement ~ 10-14 day intervals until harvest
Turf	6.5-16.5 L	3-4 week intervals from initial growth stage ~ after heavy use ~ late season
<b>Fertigation</b>	6.5-20 L	

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

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# DIGEST RESIDUE MANAGEMENT

REINTRODUCE BIOMAX CELLULOSE DIGESTING FUNGI TO YOUR FARM  
BUILD SOIL ORGANIC CARBON

CONVERT YOUR STUBBLE INTO QUALITY COMPOST AND AVAILABLE NITROGEN

## What are The Benefits?

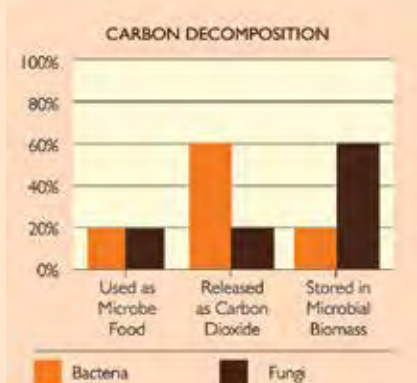
- ✓ Fungi break stubble down faster and use less nitrogen than bacteria.
- ✓ Retain nitrogen for next years crop.
- ✓ Fungi contribute to soil organic carbon, soil structure, and water infiltration.
- ✓ Improved stock performance - ewes and lambs will hold and improve condition grazing on treated stubble.
- ✓ Compost valuable stubble in paddock.

### BioMAX Digest Fungi The Carbon Convertor

In most agricultural soils, bacteria are dominant over fungi and undertake the decomposition process of dry plant matter.

When bacteria break down plant matter, more carbon is lost to the atmosphere as carbon dioxide - an inefficiency in the carbon cycle of our modern agricultural systems.

Fungi store 3 times more carbon than bacteria.



## Dry & Unpalatable Pasture?

Dry pasture matter is highly unpalatable for stock due to the cellulose component which prevents animal digestive systems from assimilating nutrients and proteins.

### The Solution:

The BioMAX Digest Fungi break down the cellulose component of dry plant matter and make the protein and nutrients more available. Stock health and condition can be maintained and stock will generally prefer to graze on residue management program treated pastures.

**This cost effective approach reduces the need for supplementary feeding giving obvious benefits in both labour and feeding costs.**



The fungal species used in BioMAX Digest program are hardy, drought resistant and selected from Australian soils.

*“ Our stubble load was too great to manage. We had toxic effect of wet straw killing the next crop. So we introduced a program of brewing BioMAX digest fungi to help break down the straw which also became a valuable food source for the sheep.”*

Brian Wilson, Mingay VIC



### Residue Digestion Application Rates

Rates are based on Stubble Load:

	Low (1-2 t/ha)	Med (2-4 t/ha)	High (4-6 t/ha)
Brewed BioMAX Digest Fungi	10 L/Ha	20 L/Ha	30 L/Ha
BioMAX Digest Kicker	2 L/Ha	4 L/Ha	6 L/Ha

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LawrieCo



# DIGEST KICKER

## LIQUID KELP, NITROGEN, FULVIC & MOLASSES

**Acts as a potent Digest Fungi stimulant and food source for fungi and other Digestion microbes.**

**Quality liquid kelp source provides a wide selection of stimulatory amino acids and essential trace minerals for more assured digestion fungi reproduction.**

**Fulvic acid has a high natural chelating and complexing agent, enabling efficient nutrient bonding and absorption.**

- Readily available and stabilized nitrogen source further promoting microbial digestion.
- Molasses and kelp provide valuable carbohydrates and with nitrogen provide an immediate energy source for cellulose digesting fungi. The carbohydrates also stimulate the plant growth promoting bacteria in the soil.
- Addition of digest fungi and digest kicker combination to stubble and plant residues offers improved soil structure for better water and oxygen infiltration. This results in improved root penetration into the soil with water, gas and nutrient exchange increased in the rhizosphere.

### TYPICAL ANALYSIS (w/v)

Total Nitrogen	16%	Molybdenum	3 ppm
Phosphorus	0.1%	Cobalt	0.2 ppm
Potassium	1.3%	Sodium	0.3%
Calcium	0.2%	Chloride	0.2%
Magnesium	0.1%	Tri-indole acetic acid	75 mcg/L
Sulphur	2.7%	Cytokinins	13mcg/L
Iron	6 ppm	pH	4.8 - 5
Zinc	1.5 ppm	Specific Gravity	1.22
Boron	6 ppm	Minimum Filter	50 Mesh

Available in 5L, 10L, 20L, 200L & 1000L containers.  
Check label for more detailed application and handling information.



### What is LawrieCo's BioMAX Digestion Program?

A brewed blend of cellulose digesting fungi and additional microbial food sources is applied to stubble, pasture or other residues to promote microbial activity and decomposition.

The primary role of the digestion program is to breakdown plant residues, converting them into stable and useful forms of organic carbon, most importantly humus.



Fungi breaking down stubble

### RECOMMENDATIONS

Digestion Program Fungi is sprayed on stubble with Digest Kicker. Full program at [www.lawrieco.com.au](http://www.lawrieco.com.au)

Stubble	Low (1-2t/ha)	Med (2-4t/ha)	High (4-6t/ha)
	2 L/Ha	4 L/Ha	6 L/Ha
Tree/Vine residues	12-15 L/Ha		
Pasture	7-10 L/Ha		
Foliar/Fertigate	2-10 L/Ha		

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo consultant or distributor for specific recommendations.

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Updated 25062021

# MICRO LIFE

## BENEFICIAL BACTERIA AND FUNGI INOCULUM

**Stimulate plant growth and beneficial microbial activity.**

**Billions of beneficial micro-organisms to re-populate soil and plant tissue.**

**Nitrogen fixation, phosphorus availability, improve nutrient uptake by plants.**

- BioMAX Micro Life and Micro Life Food is a beneficial biology culture containing naturally selected microbial species designed to stimulate plant growth and beneficial microbial activity.
- BioMAX MicroLife contains specifically selected strains of Azotobacter, Bacillus, Pseudomonas, Trichoderma and other selected species
- The multiple benefits of these species include nitrogen fixation, humus production, improved phosphorous availability, increased nutrient uptake (from soil and through the plant leaf) and a natural pest and disease protection mechanism through competition
- Combined with balanced nutrition and food sources in a foliar or fertigation application, fermented BioMAX MicroLife is a cost effective boost to natural plant growth and pest and disease response.



### RECOMMENDATIONS

	Rate / Ha	Timing
<b>Foliar/Direct Inject</b>	<b>All rates refer to fermented BioMAX MicroLife</b>	
	Broadacre	25-50 L Prior to tillering with nutrient applications. In 50-100L/Ha water.
	Horticulture	100-200 L With nutrient applications
	Revegetation	150-250 L With nutrient applications
<b>Drip Irrigation</b>	50-100 L	Into dripper line
	<b>Flood</b>	250 L

Product contains some particles which will be retained by a 200um filter.

Do not mix with toxic chemicals prior to application.

DO NOT FREEZE.

Avoid contaminating the dry culture. Do not allow the powder to become damp during storage.

The culture has not been genetically modified.

This product does not leave harmful residues in plants, animals or humans.

This product is not classified as a dangerous good.

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

### FERMENTATION PREPARATION

Use LawrieCo's MicrobePump to prepare the BioMAX Micro Life ferment.

Mix Micro Life at a proportion of 1kg per 2000L warm (25-28°C) water.

Add 3.8L of BioMAX Micro Life Food and provide good aeration to the liquid for 24 hours while maintaining the temperature between 25 to 28°C. Use clean equipment and water with no chlorine present.

For full instructions contact LawrieCo.



Available in 1kg and 8kg containers, BioMAX MicroLife food available in 3.8L. Check label for more detailed application and handling information.

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# MICROBEPUMP KIT

## PUMP TO MULTIPLY BENEFICIAL MICRO-ORGANISMS

*This versatile pump/ heater/ aerator kit has become an indispensable tool for the rapid multiplication of beneficial microorganisms.*

*This user friendly package also doubles as a unit to dissolve soluble fertilisers, trace elements and biostimulants.*

### Enables the multiplication of:

- BioMAX Digest Fungi for Stubble Digestion
- BioMAX Micro-Life beneficial biology for forliar liquid inject and more...

### MicrobePump Kit Contents:

Pump: Portapac Demand Elite Pump  
 Suction Hose: 600mm x 50mm Black hose  
 Delivery Hose: 4m x 50mm Black hose  
 Discharge Hose: 6m x 25mm White hose  
 Delivery Control Valve tee piece  
 Quad venturi assembly  
 4 x Venturi fittings  
 Air delivery spider  
 Thread sealing tape  
 Litmus paper (pH)  
 4x Hose clamps  
 50 mesh filter bag  
 Thermometer



2000L and 5000L centre-emptying tanks also available.



### Benefits of MicrobePump:

- High volume - low pressure (essential for microbe protection).
- This versatile kit can be used with any tank ranging from 200L to 5000L.
- The venturi system injects large volumes of ultra fine bubbles to boost dissolved oxygen levels for maximum microbe multiplication.
- The 1.5 hp pump with 2.4 KW heater generates tremendous movement of the heated water which enhances both the brewing and dissolving capacity.
- Can also be used as a tool to increase dissolved oxygen in hydroponics, as an aeration tool in aquaculture, in fertigation tanks to keep Micronised Mineral Suspension products in suspension and as a high volume transfer pump.

### Further Information:

- Pump operation instructions including switching sequence is included
- Some assembly required
- It is recommended a 20LPM instant gas heater is installed with this equipment.

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# SOLUBLE HUMATE GRANULE

CONCENTRATED 65% HUMIC TO STABILISE AND CHELATE NUTRIENTS FOR IMPROVED PLANT UPTAKE

**Increase efficiency of fertiliser such as NPK.**

**Build soil water holding capacity.**

**High levels of humic acid are beneficial in soil remediation including low carbon, compacted, salt affected and sandy soils.**

**Stimulates beneficial soil biology.**

- Humic and fulvic are natural chelators and complexing agents increasing nutrient absorption from fertilisers.
- Use with fertilisers (including urea/ DAP/ MAP/ Guano/ lime) to stabilise and enhance productivity.
- Improves water holding capacity and assists soil wetting.
- Complexes with phosphate reducing lock-up.
- Buffers excess salt, chemical residues and heavy metals.
- Humic also has pH buffering capacity and can reduce nutrient lock-ups associated with soil pH extremes.
- Retain and promote building of soil carbon.
- Promotes seed germination, early root growth and mass.
- Natural growth stimulants enhance cell reproduction.
- Humic is a fungal stimulant. Beneficial fungi are the missing biological link in many agricultural soils.

## TYPICAL ANALYSIS (w/w - Dry basis)

Potassium Humate	85%min
Total Humic Acid Extract (dry basis)	65%min
Potassium Fulvic (K <sub>2</sub> O dry basis)	8% min
Potassium as Organic (dry basis)	7%
Moisture	15% max
Crystal Size	2-5mm
Water solubility	85%min
pH	9-10
Appearance	Black/brown crystal

Available in 25kg bags and 1 tonne bulka bags.

To be stored in a clean, dry, well ventilated and dark place.

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Next Generation Fertiliser



## Build Soil Structure and Water Retention

Humic & Fulvic improve soil structure through stimulation of biological activity and processes (especially fungal). Biological processes naturally build a crumb like structure in soil aggregates for good root penetration, better oxygen intake, and water holding capacity. Plants with more roots, water and oxygen in the root zone make a big difference in times of crop or plant stress e.g. dry conditions

## RECOMMENDATIONS

Apply with granular<sup>#</sup> and solid fertiliser at 5 - 30% of total application

	Rate / Ha	Remediation* /Ha
Crop/Pasture (Low/Med Rainfall)	5-20 kg/ha	Upto 50 kg/ha
Crop/Pasture (High Rainfall / Irrig)	10-40 kg/ha	Upto 50 kg/ha
Horticulture	10-50 kg/ha	50-100 kg/ha
Vines	10-50 kg/ha	50-100 kg/ha
Tree Crops	10-50 kg/ha	50-100 kg/ha
Turf	10-50 kg/ha	50-100 kg/ha
Lime applications	1-10% of Lime application	

\*High levels of humic acid are extremely beneficial in remediation of low carbon soils, sandy soils or soils affected by salt, compaction and other toxicities. Remediation rates are often recommended over split applications.

<sup>#</sup>BioMAX Soluble Humate Prill is recommended for air-seeders, augers or cone spreaders.

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.



Updated 08072021

# SOLUBLE HUMATE PRILL

CONCENTRATED 50% HUMIC TO STABILISE AND CHELATE NUTRIENTS FOR IMPROVED PLANT UPTAKE

**Increase efficiency of fertiliser such as NPK.**

**Build soil water holding capacity.**

**High levels of humic acid are beneficial in soil remediation including low carbon, compacted, salt affected and sandy soils.**

**Stimulates beneficial soil biology.**

- Humic is a natural chelator and complexing agent increasing nutrient absorption from fertilisers.
- Use with fertilisers (including urea/ DAP/ MAP/ Guano/ lime) to stabilise and enhance productivity.
- Improves water holding capacity and assists soil wetting.
- Complexes with phosphate reducing lock-up.
- Buffers excess salt, chemical residues and heavy metals.
- Humic also has pH buffering capacity and can reduce nutrient lock-ups associated with soil pH extremes.
- Retain and promote building of soil carbon.
- Promotes seed germination, early root growth and mass.
- Natural growth stimulants enhance cell reproduction.
- Humic is a fungal stimulant. Beneficial fungi are the missing biological link in many agricultural soils.
- Can be blended with traditional granular fertilisers.
- Suitable for air-seeder application.



## Build Soil Structure and Water Retention

Humic improves soil structure through stimulation of biological activity and processes (especially fungal). Biological processes naturally build a crumb like structure in soil aggregates for good root penetration, better oxygen intake and water holding capacity.

Plants with more roots, water, and oxygen in the root zone make a big difference in times of crop or plant stress e.g. dry conditions

## RECOMMENDATIONS

**Apply with granular<sup>#</sup> and solid fertiliser at 5 - 30% of total application**

	Rate / Ha	Remediation* / Ha
Crop/Pasture (Low/Med Rainfall)	5-20 kg/ha	Up to 50 kg/ha
Crop/Pasture (High Rainfall / Irrig)	10-40 kg/ha	Up to 50 kg/ha
Horticulture	10-50 kg/ha	50-100 kg/ha
Vines	10-50 kg/ha	50-100 kg/ha
Tree Crops	10-50 kg/ha	50-100 kg/ha
Turf	10-50 kg/ha	50-100 kg/ha
Lime applications	1-10% of Lime application	

\*High levels of humic acid are extremely beneficial in remediation of low carbon soils, sandy soils or soils affected by salt, compaction and other toxicities. Remediation rates are often recommended over split applications.

<sup>#</sup>BioMAX Soluble Humate Prill is recommended for air-seeders, augers or cone spreaders. Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.

## TYPICAL ANALYSIS (w/w - Dry basis)

Total Humic Acid Extract (dry basis)	50% min
Moisture	15% max
Prill Size	2-4 mm
Water Solubility	70% min
pH	8-10
Appearance	Black/brown prill

Available in 25kg bags and 1 tonne bulk bags.

To be stored in a clean, dry, well ventilated, and dark place.

Building wealth from soil with  
Next Generation Fertiliser



Updated 08/07/2021



# BIOLOGIC BLEND

SOIL CONDITIONER AND BALANCED FERTILISER

2.2% PHOSPHORUS 6.7% CALCIUM 27.3% HUMIC

**Improve soil phosphorus availability.**

**Introduce significant humic acid (Active Carbon) content, solubolised through biological process.**

**Rapid improvement in soil structure, organic carbon, nutrient availability and stimulate soil biological activity.**

- Use for soil conditioning including low carbon, compacted, salt affected and sandy soils.
- Stimulate beneficial microbial activity in the root zone and biological processes: nitrogen fixation, phosphorus solubolisation, growth hormone production.
- Build water holding capacity and nutrient availability.
- Biologic Blend is inoculated with specific beneficial microbiology to release the humic component and introduce specific beneficial microbial species.
- Soluble humic acid aids its ability to become part of the soil solution and chemical activity. This increases its dispersion in the soil and levels of chemical bonding with nutrients, keeping more nutrients plant available.

## Address your Specific Crop and Soil Nutrients

Specific nutrient imbalances and deficiencies can be addressed effectively with a customised blend to meet your soil, crop or pasture needs. Additional phosphorus, calcium (lime or gypsum), nitrogen, potassium and trace elements can be added. Custom blends are based on comprehensive soil analysis, contact LawrieCo or your distributor to arrange.

## TYPICAL ANALYSIS (w/w - Dry basis)

Nitrogen	0.32%	Iron	3.0
Phosphorus	1.61%	Manganese	0.1%
Potassium	0.5%	Organic Carbon	21.2%
Sulphur	1.32%	Humic Acid	29.2%
Calcium	4.5%	Moisture	25-35%
Magnesium	0.83%	Microbial Inoculum:	
Sodium	0.1%	Azotobacter, Bacillus, Pseudomonas,	
Silica	4.12%	Trichoderma and other selected species	

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## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Broadcast</b>		
Broadacre	0.2-0.5 T/ha	Apply pre-planting
Vines & Tree Crops	0.5-1.5 T/ha	Apply post harvest
Vegetables (Potato/Onion/Carrot)	1-1.5 T/ha	Apply pre-planting
Landscape & Turf	2-20 T/ha	Apply Spring through Autumn

Broadcast with a belt type (lime) spreader.

Compatible with many dry fertilisers.

Rates and timings may change depending on crop and season.

Always consult a LawrieCo Area Manager or distributor for specific recommendations.

Available in bulk ex Naracoorte SA or 1T Bulka Bags ex Regency Park SA



Chelator

Liquid Fertiliser

# 100% SOLUBLE FULVIC

FULVIC 82%

NATURAL CHELATE ENHANCES NUTRIENT UPTAKE

**Maximise liquid fertiliser efficiency.**

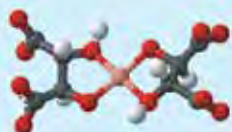
**Fulvic's unique ability to form multiple strong bonds with minerals ensures nutrient efficacy and plant uptake.**

**Buffer against high salts and other toxicities in water and soil.**

- Trace elements available for a longer period.
- Aids plant recovery from stress due to moisture, disease, frost or heat.
- Buffers against 'burning' with foliar applications.
- Enhances cell reproduction and root growth.
- Can be used during prolonged low sunlight or cloudy periods to enhance photosynthesis.
- Can detoxify pollutants and chemicals in soil and catalyse rapid breakdown of toxins; reducing soil life damage.
- Compatible with most inputs: acid or alkaline (see label)

## Strong chelate with multiple bonds

A high concentration of cation bonding sites gives fulvic the ability to form stronger multidentite bonds (>2). This chelates minerals and trace elements, transporting them into the plant cell structures in a highly available form.



## TYPICAL ANALYSIS (w/w - Dry basis)

Fulvic Acid	82% min	Moisture	2.0%
pH	5.0-5.5	Water solubility	99.5%

**Mix Rate:** 100g of 100% Soluble Fulvic Powder per 1L water

**To make 20L of 8.2% Fulvic Liquid:** Add 2kg BioMAX 100% Soluble Fulvic Powder to 10L of water and shake or stir vigorously until dissolved. Add water to make up to 20L and stir again.

Available in 25kg bags.

Check label for more detailed application and handling information.



## RECOMMENDATIONS (as liquid)

	Rate / Ha	Timing
<b>Seed Dressing</b>	1-2 L/tonne	with SureCropVAM to buffer chemical seed dress.
<b>Foliar</b>	<b>Apply with nutrition to enhance uptake. Apply to aid plant resilience to moisture stress or disease.</b>	
Cereals	1-3 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Canola	1-3 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	1-3 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	1-3 L	Spray pasture when sufficient leaf area exists
Lucerne	1-3 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	2-5 L	Spring Flush to Autumn Flush. Avoid spraying close to harvest to avoid potential staining
Vines	2-5 L	2wks post budburst to post-harvest. Avoid close to harvest to avoid potential staining
Vegetables (Potato/Onion/Carrot)	2-5 L	Apply from full leaf emergence ~ Repeat applications as required
Turf	2-5 L	Apply with nutrition applications
<b>Fertigation</b>	2-5 L	Not recommended with high rates of nitrogen in sandy soil, select BioMAX Liquid Humate
<b>Foliar nitrogen</b>	1 L : 10 N	For greater efficiency and to reduce leaf burn

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.

Building wealth from soil with  
Next Generation Fertiliser



# 100% SOLUBLE HUMIC FULVIC

65% HUMIC AND 10% FULVIC ACIDS TO IMPROVE NITROGEN & NUTRIENT UPTAKE AND WATER USE EFFICIENCY.

**Increase efficiency of nitrogen and fertiliser applications.**

**Improves water use efficiency.**

**Buffer excess salt and toxicities in water or soil.**

**Beneficial in soil remediation.**

- Humic and fulvic chelate and stabilise nutrients when combined with fertiliser, increasing plant uptake and growth response.
- Enhance plant productivity by improving nutrient availability, soil structure, water infiltration, water holding capacity and beneficial microbial function.
- High levels of humic are beneficial in soil remediation including low carbon, compacted, salt affected and sandy soils.
- Humic also has pH buffering capacity and can reduce nutrient lock-ups associated with pH extremes.
- The high CEC (Cation Exchange Capacity) of humic and fulvic contributes to improved water use efficiency.
- Natural growth stimulants enhance plant cell reproduction.
- Humic is a fungal stimulant; beneficial fungi are a missing biological link in many agricultural soils.
- Humic and fulvic are concentrated Carbon sources that can help restore soil carbon which is critical for optimum soil fertility but depleted by repeated applications of high levels of Nitrogen fertilisers.

## TYPICAL ANALYSIS (w/w - Dry basis)

Humic Acid	65.4%	Moisture content	15% max.
As Potassium Humate	72.8%	Solids	85% min.
Fulvic Acid	10.2%	pH	9 -10
As Potassium Fulvate	11.4%	Water solubility	99.5%
Potassium	8.6%		



## RECOMMENDATIONS

Fertigation and Foliar	
Nitrogen	50-100 grams / hectare for each unit of Nitrogen applied as UAN, Urea, SOA
e.g.	2.3 - 4.6 kg/ha with 100 kg/ha of Urea
	2.1 - 4.2 kg/ha with 100 litres of UAN
	1.0 - 2.1 kg/ha with 100 kg/ha of SOA
Salt - Water	0.5 - 1 kg/ha with each and all irrigation applications
Salt - Soil Mitigation	0.5 - 1 kg/ha with each and all irrigation applications
Soil Improvement	0.5 - 1 kg/ha with each and all irrigation applications
<b>N.B.</b>	This product is not compatible used in concentration with acidic elements or chemicals. For combination with acidic elements and chemicals, select BioMAX 100% Soluble Fulvic or BioMAX Liquid Fulvic
<b>Mixing Tips</b>	Place product in a mesh basket and dispense through this mesh into Fertigation or Spray tank. To make 12% Humic Liquid, add 120gm BioMAX 100% Soluble Humic Fulvic to 1L water and stir vigorously. Apply as Foliar 3-7 L/ha or Fertigation 15-30 L/ha every 2-3 weeks as required.

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo consultant or distributor for specific recommendations.

Available in 25kg bags.

Check label for more detailed application and handling information.

Building wealth from soil with  
Next Generation Fertiliser





# VERMI PELLETT

## PELLETISED PURE WORM CASTINGS BIOLOGICAL FERTILISER

**Unique nutrient and biologically rich dry fertiliser in bioavailable form.**

**A microbial stimulant as well as a nutrient amendment as it is both high in microorganisms and micro and macro nutrients.**

- Use as a remediation tool on depleted soils & non-arable land, Vermi Pellet is perfect as a microbial stimulant as well as a nutrient amendment.
- Aids in reinvigorating the endemic biology aiding the soils ability to host plant growth and increase the overall ongoing soil health.
- Vermi Pellet provides a balanced range of microorganisms that can colonise on the roots of plants to instil natural services provided by the relationship between the plant and soil.
- Minimise the need for pesticides enabling less impact by reducing the need for chemical intervention.



Available in bulk

### TYPICAL ANALYSIS (w/w - dry basis)

Nitrogen	0.96%	Zinc	272.5mg/kg
Phosphorus	0.43%	Manganese	265mg/kg
Potassium	0.49%	Iron	9203mg/kg
Sulphur	0.24%	Boron	51mg/kg
Carbon	12.21%	Molybdenum	3.17mg/kg
Organic Matter	20.72%	Cobalt	3.03mg/kg
Calcium	3.0%	Selenium	1.08mg/kg
Magnesium	0.46%	Sodium (soluble)	1331.8mg/kg
Sodium	0.08%		
Copper	59.1mg/kg		

Building wealth from soil with  
Next Generation Fertiliser



### Benefits of Vermi Pellet

Used as a microbial stimulant as well as a nutrient amendment, Vermi Pellet can be beneficial in depleted soils & non-arable land, as it reinvigorates the endemic biology aiding the soils ability to hosts plants to grow and increase the overall ongoing soil health.

### RECOMMENDATIONS

	Rate / Ha	Timing
<b>Broadcast</b>		
Broadacre	50-150kg/ha	When sowing into prepared seed bed, it is best applied using a gravity fed opener or air seeder as a band 5cm or 2inches of sub-surface. Alternatively can be used as a top dress in crop.
Horticulture	250-1000kg/ha	When applied Pre-plant used via belt spreader along drip line or in the bottom of a dug hole before the planting of a tree vine, alternatively can be blanket spread.
Pastures	50-150kg/ha	When sowing into prepared seed bed, it is best applied using a gravity fed opener or air seeder as a band 5cm or 2inches of sub-surface. Alternatively can be used as a top dress in crop.

Broadcast with a belt type (lime) spreader.

Compatible with many dry fertilisers.

Rates and timings may change depending on soil type, rainfall & season.

Always consult a LawrieCo Area Manager or distributor for specific recommendations.

### APPLICATION

Vermi Pellets are best applied at the beginning of the growing season at the first predominant root flush in permanent plantings. This ensures that an adequate level of biology and organic carbon infiltrates the root zone. In short term crops, best practice application is just prior to planting or at planting.





# VAM

## MYCHORRIZAL & NUTRIENT SEED TREATMENT WITH BACILLUS SUBTILLUS & TRICHODERMA

**Stimulate early root growth, root mass  
and seedling vigour.**

**Better moisture access in the seed zone.**

**Establish natural mycorrhizal fungi  
colonisation on plant roots.**

- Grow stronger, more tolerant and productive plants.
- Increase nutrient availability to plants.
- Promote natural response to disease in crops during the early germination stage.
- Plants can access locked up phosphorus and zinc.
- Improve soil structure in root zone building water holding capacity, aeration and friability.
- More roots aid in building soil organic carbon.
- Potential VAM spore carry over for following crops.
- Bascillus Subtillus (B.Sub) and Trichoderma (Trich) aid plant resilience to plant pathogens.

### What is VAM Fungi?

Vesicular-Arbuscular Mychorrhizal (VAM) Fungi are naturally occurring fungi that form a beneficial association with plant roots enhancing the plant's mineral absorption and access to moisture. VAM can increase access to nutrients (P in particular) and moisture from 100 to 1000 times.



### TYPICAL ANALYSIS (w/v)

Phosphorus as citrate soluble	0.726%	Manganese as carbonate	1.53%
Phosphorus as citrate insoluble	0.954%	Humic Acid	4.4%
Phosphorus Total	1.68%	Fulvic Acid	3.18%
Potassium as organic	0.71%	AM inoculant 32,500 propagule/L. multiple spec.	
Potassium Total	0.71%	Beneficial Bacteria - Bacillus Species	
Sulphur as organic	0.15%	<i>B. subtilis</i> , <i>B. laterosporus</i> , <i>B. licheniformis</i> ,	
Sulphur Total	0.15%	<i>B. megaterium</i> , <i>B. pumilus</i> , <i>P. polymyxa</i>	
Calcium as organic	0.28%	Beneficial Fungi - Trichoderma Species	
Calcium as phosphate	4.89%	<i>T. harzianum</i> , <i>T. viride</i> , <i>T. koningii</i> , <i>T. polysporum</i>	
Calcium Total	5.17%	pH	8.0 - 8.30
Silicon as silicate	2.52%	Specific gravity	1.22 - 1.25
Zinc as oxide	2.40%		

Available in 5L, 20L, 500L, & 1000L containers. Do not store in direct sunlight or for long periods. Check label for more detailed application and handling information.

**THIS IS A  
2 PACK  
PRODUCT**

\*Inoculum Tube  
is attached under  
20L drum cap

Early and strong germination. VAM fungi aids plant access to moisture and nutrients in the root zone.

### 2-Pac for Enhanced Results & Longer Shelf Life

SureCrop VAM 2-Pac update allows the user to mix the inoculum with the nutrient base at the time of use.

The benefit is increased shelf-life of the microbial component of the product. Plus improved viability of the mycorrhizal fungi at time of application maximising results in the paddock.

### RECOMMENDATIONS

Seed Dressing	Rate / T of seed	Timing
Cereals	10 L/t	Apply to seed pre-sowing
Legumes (Beans/Peas)	6-10 L/t	Apply to seed pre-sowing
Pasture/Lucerne/Turf	up to 40 L/t	Apply to seed pre-sowing
Potatoes	5 L/t	Apply to seed potatoes pre-sowing
Onions/Carrots	40 L/t	Apply to seed pre-sowing
Chemically Treated Seed	Ensure 200 mL BioMAX F75 is mixed in with every 10L of SureCROP VAM prior to application to seed.	

MIX 2 PACK BEFORE USE. Refer to Application instructions for details and timeframes. Zinc deficiency: Where additional zinc is required, combine with SureCrop Zinc.

Liquid Inject / Fertigation	Rate / Ha	
Trees/Vines/Turf/Veg	1-2 L/Ha	
Broadacre	100-200 ml/Ha	At seeding
Pre & Planting	Rate	Application
Dormant Tree/Vine	1:5 dilution	Plant dip prior to planting
Tree/Vine	1-2 L / 1000L	Water jet with planting water
Vegetables	1:20 dilution	Seedling drench to point of saturation

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.

Building wealth from soil with  
Next Generation Fertiliser



# ZINC

## 20% ZINC, NUTRIENT & BIOSTIMULANT SEED TREATMENT WITH BACILLUS SUBTILLUS & TRICHODERMA

**Stimulate early root growth, root mass and seedling vigour.**

**Better moisture access in the seed zone.**

**Address Zinc deficiencies and early nutrition in plants and crops.**

- Enhance root growth and strong early growth with phosphorus and calcium.
- Grow stronger, more tolerant and productive plants.
- Increase nutrient availability to plants with humic acid.
- Promote natural response to disease in crops during the early germination stage.
- Improve soil structure in root zone building water holding capacity, aeration and friability.
- More roots aid in building soil organic carbon.
- Bascillus Subtillus (B.Sub) and Trichoderma (Trich) aid plant resilience to plant pathogens.



### TYPICAL ANALYSIS (w/v)

Nitrogen as organic	0.6%	pH	9.0-9.5
Total Nitrogen	0.6%	Specific gravity	1.34-1.38
Phosphorus as citrate soluble	2.6%		
Total Phosphorus	2.6%		
Potassium as organic	0.5%		
Total Potassium	0.5%		
Calcium as phosphate	1.8%		
Total Calcium	1.8%		
Zinc as oxide	20.0%		
Humic Acid as potassium humate	3.3%		
Fulvic Acid as potassium fulvate	2.2%		

Available in 20L & 1000L containers. Do not store in direct sunlight or for long periods. Check label for more detailed application and handling information.

### Soil Conditions Common for Zinc Deficiencies

- Low total zinc (such as sandy soil with low organic matter)
- Neutral or alkaline pH
- High salt concentrations (saline soils)
- High calcium carbonate content (calcareous soils)
- Peat and muck (organic soils)
- High phosphate status
- Prolonged water logging or flooding
- High magnesium and/or bicarbonate (& in irrigation water).

Source: International Zinc Association. <http://www.zinc.org>

### RECOMMENDATIONS

Seed Dressing	Rate / T of seed	Timing
Cereals	6 L/t	Apply to seed pre-sowing
Brassicas/Canola	20-30 L/t	Apply to seed pre-sowing
Legumes (Beans/Peas/Lupins)	6-10 L/t	Apply to seed pre-sowing
Pasture/Lucerne/Turf	20-30 L/t	Apply to seed pre-sowing
Chemically Treated Seed	Ensure 200 mL BioMAX F75 is mixed in with every 10L of SureCROP ZINC prior to application to seed.	

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo Area Manager or distributor for specific recommendations.

Building wealth from soil with  
Next Generation Fertiliser



# STOCK LICK

**PROMOTES MINERAL UPTAKE, RUMEN HEALTH & BIOTA  
FULVIC FOR IMPROVED FEED UTILISATION**

***Ideal for improving livestock condition,  
weight gains and feed utilisation.***

***Balanced minerals including calcium with  
fulvic, kelp, molasses and amino acids.***

***Fulvic is a powerful natural electrolyte;  
minerals from feed are more available  
and readily absorbable.***

- Balanced combination of minerals including calcium, phosphorous, magnesium, potassium, amino acids and trace elements.
- Fulvic is nature's most powerful electrolyte enhancing the availability of nutrients. It acts to facilitate mineral uptake and cellular metabolism in the rumen.
- Promote beneficial biological functions in the rumen.
- Amino acids have roles in protein synthesis, hormone release, immune response, feed conversion, nitrogen balance in tissues and energy production.
- Trace elements have roles in lactation, reproduction, metabolism, thyroid function (iodine), bone/tissue development and maintaining hair, skin and hooves.
- Non-toxic formulation, uses a natural binding agent and no urea.

## TYPICAL ANALYSIS (w/w - Dry basis)

Calcium	21 g/kg	Iron	850 mg/kg
Sodium	230 g/kg	Zinc	190 mg/kg
Phosphorous	8.3 g/kg	Copper	39 mg/kg
Magnesium	7.4 g/kg	Boron	4 mg/kg
Potassium	5.4 g/kg	Selenium	2.2 mg/kg
Total Amino Acids	8320 mg/kg	Iodine	1.5 mg/kg
Sulphur	1600 mg/kg	Cobalt	0.99 mg/kg
Manganese	1200 mg/kg		



## Clean Skins Available

- ✓ Convenient, minimal packaging
- ✓ Economical pricing
- ✓ Pallet stacks for easy transfers
- ✓ 0.25T, 0.5T & 1T stacks



## RECOMMENDATIONS

### Timing

	Ideal for use all year round, animals will generally self regulate.
Sheep / Goats / Alpacas	Provide 1 block for each 100 head, replace as necessary. (One block will normally last about one week). Usual intake: 14-30 g/head/day.
Cattle	Provide 1 block for each 40 head, replace as necessary. (One block will normally last about one week). Usual intake: 35-70 g/head/day.
Horses	Provide blocks, replacing as required.

Rates and timings may change depending on crop and season.  
Always consult a LawrieCo consultant or distributor for specific recommendations.

This product is ideal for use to supplement diets where mineral levels may be low.  
Store in a cool, dry location. Ideally below 30C.  
Does not contain restricted animal material.

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Next Generation Fertiliser**





# ANIMAL HUMIC FULVIC

## ANIMAL GRADE HUMIC & FULVIC ACIDS

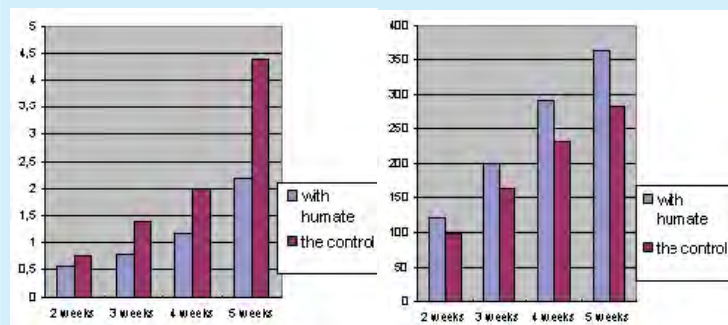
**Include with dairy or beef cattle, pig, poultry, sheep, horse & fish feed, supplements or water.**

- Improves feed and supplement digestion.
- Faster animal weight gains.
- Increase dairy feed efficiency & reduce mastitis, animal stress & healing time.
- Odour reduction in animal waste.
- Support general health & vitality of animals, birds & fish.

### Poultry: Effects of adding Humate over 5 weeks:

**Losses decreased by 50%**

**Active (live) weight increased by 30%**



Above results are from wide scale testing in 1998 at the Severny pedigree poultry breeding state farm near Bratsk, Russia. *Teravita, Humates in poultry and stock farming.*

In the diets of beef cattle, "it was concluded that, as a percentage of humate administered was increased the amount of feed intake was decreased, while still increasing weight gain." *Uni Arizona Animal Sciences, "Effects of humic/fulvic acids in beef cattle finishing diets", C.P. McMurphy et al*

"The use of Humic Acids and related products in feed improved gut health for better nutrient utilisation as well as improved the health status by working against pathogens by developing immunity." *Uni Leipzig, Germany, "Humic Acid Substances in Animal Ag", KMS Islam et al.*



### TYPICAL ANALYSIS (w/w dry basis)

Water Solubility	90% min	pH	10 - 11
Humic Acid (dry basis)	60% min	Size Powder	20 mesh
Fulvic Content	15% min	Colour	Black

### RECOMMENDATIONS

ADD to:	Feed rations, drinking water, mineral supplements
Feed rations	1-2kg per tonne of feed
Drinking water	1 gram per litre of water
Mineral supplements	10% by weight of supplementation
Unhealthy Animal, Birds, Fish	Initial support - 20 gram per 100kg of body weight
	Subsequent - 5 gram per 100 kg of body weight

*Rates and timings may change depending on crop and season. Always consult a LawrieCo consultant or distributor for specific recommendations.*

**Building wealth from soil with  
Next Generation Fertiliser**



# TRACE

**BROAD SPECTRUM OF 7 TRACES COMPLEXED  
WITH FULVIC 2% AND BIOSTIMULANTS**

**Zinc 4% , Manganese 3% , Copper 0.7% ,  
Boron 0.4%, Iron 0.3% with Moly and Cobalt.**

**Mineral sulphates for rapid plant absorption.**

**A microbe base of natural biostimulants,  
making every drop count.**

- Balance trace element levels and address deficiencies.
- Molybdenum and cobalt for essential plant functions - improved flower holding / reproduction.
- Fulvic keeps trace element sulphates available for longer.
- Biostimulants to optimise plant health and growth.
- Natural uptake & wetting agents enhance spray efficiency.
- Fulvic buffers against 'burning' with foliar applications.
- With a CEC of 1500 and tiny molecule size, fulvic provides natural chelation and improved nutrient uptake.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals within.

**HumiPLEX liquids are different.** They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes, also known as biostimulants. The product is filled with natural plant growth hormones, vitamins, and immune enhancers. We also include fulvic, a natural chelation and uptake agent. This combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Sulphur	4.3% as sulphate	Molybdenum	0.027% as molybdate
Zinc	4.0% as sulphate	Cobalt	0.0105% as sulphate
Manganese	3.1% as sulphate	Fulvic acid	2.0%
Copper	0.69% as sulphate	pH	2.10-2.40
Boron	0.38% as boric acid	Specific gravity	1.18-1.22 g/mL
Iron	0.27% as sulphate		

Available in 5L, 10L, 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Dressing</b>	5-8 L/tonne	Apply to seed pre-sowing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Seeding (In Furrow)	3-5 L	
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering ~ Post-Harvest
Vegetables (Potato/Onion/Carrot)	4-8 L	Apply from full leaf emergence ~ Repeat applications as required (10-14 days)
Turf	5-10 L	
<b>Fertigation</b>	5-15 L	

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.

**Building wealth from soil with  
Next Generation Fertiliser**





# HORTI TRACE + FE

**4% IRON WITH A BROAD SPECTRUM OF TRACES COMPLEXED WITH FULVIC 2% AND BIOSTIMULANTS**

**Iron 4%, Zinc 4%, Manganese 3%, Copper 0.6%, Boron 0.3%, with Moly and Cobalt.**

**Mineral sulphates for rapid plant absorption.**

**A microbe base of natural biostimulants, making every drop count.**

- Balance trace element levels and address deficiencies.
- Molybdenum and cobalt for essential plant functions - improved flower holding / reproduction.
- Fulvic keeps trace element sulphates available for longer.
- Biostimulants to optimise plant health and growth.
- Natural uptake & wetting agents enhance spray efficiency.
- Fulvic buffers against 'burning' with foliar applications.
- With a CEC of 1500 and tiny molecule size, fulvic provides natural chelation and improved nutrient uptake.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals within.

**HumiPLEX liquids are different.** They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes... also known as biostimulants. The product is filled with natural plant growth hormones, vitamins and immune enhancers. We also include fulvic, a natural chelation and uptake agent... The combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Sulphur	5.7% as sulphate	Cobalt	0.1% as sulphate
Iron	4.0% as sulphate	Molybdenum	0.03% as molybdate
Zinc	4.0% as sulphate	Fulvic acid	2.1%
Manganese	3.0% as sulphate	pH	2.1-2.4
Copper	0.58% as sulphate	Specific gravity	1.28-1.31 g/mL
Boron	0.32% as boric acid		

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.

**Building wealth from soil with  
Next Generation Fertiliser**



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Dressing</b>	5-8 L/tonne	Apply to seed pre-sowing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Seeding (In Furrow)	3-5 L	
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering ~ Post-Harvest
Vegetables (Potato/Onion/Carrot)	4-8 L	Apply from full leaf emergence ~ Repeat applications as required (10-14 days)
Turf	5-10 L	
<b>Fertigation</b>	5-15 L	

Rates and timings may change depending on crop and season.

Always consult a LawrieCo consultant or distributor for specific recommendations.



Updated 08072021



# GRAIN FORTE SE

**BROAD SPECTRUM OF TRACES INCLUDING SELENIUM  
COMPLEXED WITH FULVIC 2% AND BIOSTIMULANTS**

**Iron 4%, Zinc 4%, Manganese 3%,  
Copper 0.6%, Boron 0.3% with Selenium,  
Molybdenum and Cobalt.**

**Mineral sulphates for rapid plant absorption.**

**A microbe base of natural biostimulants,  
making every drop count.**

- Fulvic keeps trace element sulphates available for longer.
- Maximise grain / produce quality and weight.
- Address specific trace element deficiencies in crops, pasture, horticulture, vines, treecrops and turf.
- Biostimulants to optimise plant health and growth.
- Natural uptake & wetting agents enhance spray efficiency.
- Fulvic buffers against 'burning' with foliar applications.
- With a CEC of 1500 and tiny molecule size, fulvic provides natural chelation and improved nutrient uptake.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals within.

**HumiPLEX liquids are different.** They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes... also known as biostimulants. The product is filled with natural plant growth hormones, vitamins and immune enhancers. We also include fulvic, a natural chelation and uptake agent...

The combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Sulphur	5.7% as sulphate	Cobalt	0.1% as sulphate
Iron	4.0% as sulphate	Selenium	0.0826% as selenate
Zinc	4.0% as sulphate	Molybdenum	0.03% as molybdate
Manganese	3.0% as sulphate	Fulvic acid	2.1%
Copper	0.58% as sulphate	pH	2.1-2.4
Boron	0.32% as boric acid	Specific Gravity	1.28-1.31 g/mL

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Dressing</b>	5-8 L/tonne	Apply to seed pre-sowing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Seeding (In Furrow)	3-5 L	
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering ~ Post-Harvest
Vegetables (Potato/Onion/Carrot)	4-8 L	Apply from full leaf emergence ~ Repeat applications as required (10-14 days)
Turf	5-10 L	
<b>Fertigation</b>	5-15 L	

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

**Building wealth from soil with  
Next Generation Fertiliser**



Liquid Fertiliser

Seed Dressing

# ZMC

**MANGANESE 8% ZINC 6% COPPER 2%**  
**SULPHUR 9% FULVIC 1.6% + BIOSTIMULANTS**

**Fulvic optimises trace element uptake by plants and efficiency.**

**Mineral sulphates for rapid plant absorption.**

**A microbe base of natural biostimulants, making every drop count.**

- Fulvic keeps trace element sulphates available for longer.
- Maximise grain / produce quality and weight.
- Address specific trace element deficiencies in crops, pasture, horticulture, vines, tree crops and turf.
- Biostimulants to optimise plant health and growth.
- Natural uptake & wetting agents enhance spray efficiency.
- Fulvic buffers against 'burning' with foliar applications.
- With a CEC of 1500 and tiny molecule size, fulvic provides natural chelation and improved nutrient uptake.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals within.

**HumiPLEX liquids are different.** They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes... also known as biostimulants. The product is filled with natural plant growth hormones, vitamins and immune enhancers. We also include fulvic, a natural chelation and uptake agent... The combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Sulphur	9.2% as sulphate	Fulvic acid	1.6%
Manganese	8.0% as sulphate	pH	1.15-1.45
Zinc	6.0% as sulphate	Specific gravity	1.38-1.42 g/mL
Copper	2.0% as sulphate		

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Dressing</b>	5-8 L/tonne	Apply to seed pre-sowing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Seeding (In Furrow)	3-5 L	
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
Legumes (Beans/Peas/Lupins)	2-5 L	4-6 leaf (2nd-3rd node with sufficient leaf area) ~ Pre-flowering
Pasture	2-5 L	Spray pasture when sufficient leaf area exists
Lucerne	2-5 L	Apply after hay cut when adequate leaf area exists ~ Pre-flowering
Citrus	3-10 L	Spring Flush ~ 2/3 leaf expansion ~ Summer Flush ~ Autumn Flush
Vines	3-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering ~ Post-Harvest
Vegetables (Potato/Onion/Carrot)	4-8 L	Apply from full leaf emergence ~ Repeat applications as required (10-14 days)
Turf	5-10 L	
<b>Fertigation</b>	5-15 L	

Rates and timings may change depending on crop and season.

Always consult a LawrieCo area manager or distributor for specific recommendations.

Building wealth from soil with  
Next Generation Fertiliser



# ZM

**MANGANESE 7.5% ZINC 7.5%**  
**FULVIC 2% AND BIOSTIMULANTS**

**Fulvic optimises trace element uptake by plants and nutrient efficacy.**

**Mineral sulphates for rapid plant absorption.**

**A microbe base of natural biostimulants, making every drop count.**

- Fulvic keeps trace element sulphates available for longer.
- Maximise grain / produce quality and weight.
- Address specific trace element deficiencies in crops, pasture, horticulture, vines, tree crops and turf.
- Biostimulants to optimise plant health and growth.
- Natural uptake & wetting agents enhance spray efficiency.
- Fulvic buffers against 'burning' with foliar applications.
- With a CEC of 1500 and tiny molecule size, fulvic provides natural chelation and improved nutrient uptake.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals within.

**HumiPLEX liquids are different.** They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes... also known as biostimulants. The product is filled with natural plant growth hormones, vitamins and immune enhancers. We also include fulvic, a natural chelation and uptake agent... The combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Sulphur	8.0% as sulphate	pH	1.65-1.95
Zinc	7.5% as sulphate	Specific gravity	1.38-1.42 g/mL
Manganese	7.5% as sulphate		
Fulvic acid	2.0%		

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

	Rate / Ha	Timing
<b>Seed Dressing</b>	5-8 L/tonne	Apply to seed pre-sowing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Seeding (In Furrow)	3-5 L	
Canola	2-5 L	4-6 leaf stage (Mid Rosette) ~ Pre-flowering (Late Rosette-Bolt)
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Vines	3-5 L	2 weeks post budburst ~ 4 weeks post budburst ~ Pre-flowering ~ Post-Harvest
Vegetables (Potato/Onion/Carrot)	4-8 L	Apply from full leaf emergence ~ Repeat applications as required (10-14 days)
Turf	5-10 L	
<b>Fertigation</b>	5-15 L	

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Liquid Fertiliser

Seed Dressing

# ZINC

**SULPHUR 8.3% ZINC 17%**

**FULVIC 2% + BIOSTIMULANTS**

**HumiPLEX Zinc is a trace element foliar spray with natural chelation to maximise uptake and efficiency.**

**Trace element Zinc 17% is complexed with natural uptake and buffering agent fulvic, microbial metabolites, enzymes and biostimulants.**

**Ideal for addressing specific trace element deficiencies.**

- High analysis Zinc 17%.
- Additional plant stimulants for plant health, growth and bioactivity.
- Natural uptake and wetting agents to enhance spray efficiency.
- Fulvic acid buffers against 'burning' with foliar applications.
- Fulvic acid has a CEC of 1400 and very small molecule size providing natural chelation and improving uptake of nutrients.

## Make Every Drop Count

Nutrient components of liquid fertilisers account for 45-60% of total volume. Normally most of the remaining volume is just water to solubilise the minerals within.

**HumiPLEX liquids are different.** They are made with a microbial liquid base containing by-products (metabolites) from beneficial soil microbes... also known as biostimulants. The product is filled with natural plant growth hormones, vitamins and immune enhancers. We also include fulvic, a natural chelation and uptake agent... The combination primes plants to accept nutrition for improved uptake and efficiency... *making every drop count!*

## TYPICAL ANALYSIS (w/v)

Sulphur	8.3% as sulphate	pH	2.05-2.35
Zinc	17% as sulphate	Specific gravity	1.415-1.425 g/mL

Available in 20L, 200L & 1000L containers.

Check label for more detailed application and handling information.



## RECOMMENDATIONS

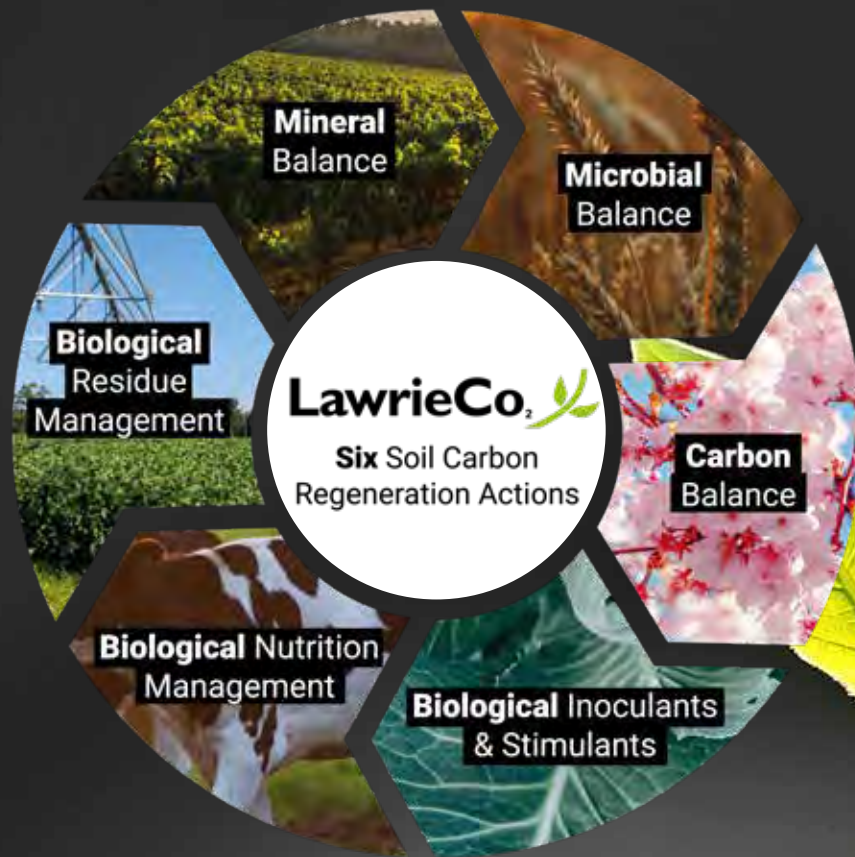
	Rate / Ha	Timing
<b>Seed Dressing</b>	5-8 L/tonne	Apply to seed pre-sowing
<b>Foliar</b>	<b>Apply when a deficiency has been identified by tissue, petiole or SAP analysis</b>	
Cereals	2-5 L	From 3-5 leaf stage through to first node (Zadoks GS 13 to 31)
Seeding (In Furrow)	3-5 L	
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Turf	5-10 L	
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Rates and timings may change depending on crop and season.

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# MEET THE 6 STEPS TO EARNING ACCU'S

## THE 6 STEPS SYSTEM

The LawrieCo Soil Carbon Regeneration System delivers a balanced nutritional approach. The 6 steps profitably increase land productivity, quality of produce, grow soil organic carbon, increase soil water infiltration and water holding capacity.

Visit [lawrieco.com.au/soil-carbon](http://lawrieco.com.au/soil-carbon) for more information or contact your local LawrieCo Area Manager to start your Soil Carbon Project today!





# Pioneers in building Soil Carbon

LawrieCo's passion for rebuilding soil carbon dates back to prior to the formation of LawrieCo as a company. Back to the days when the 'R&D' to farm sustainably and to build fertility happened on Adrian Lawrie's broadacre cropping property on the edge of the Flinders Ranges. At this early stage the key drivers for rebuilding soil carbon were its value in building fertility, water-use efficiency and it's link to improved farm gross margins.

Over the past 22 years, LawrieCo has evolved to offer a full range of fertility and soil carbon building programs in broadacre, grazing, turf and horticultural enterprises. Allowing landowners to adopt regenerative soil and plant nutrition practices and to participate in the Federal Governments paid soil carbon credit program – The Emissions Reduction Fund (ERF). In recent years the barriers to entry to participating in the ERF for growers building soil carbon have been removed and the accessibility continues to further develop.

In the meantime the movement into regenerative Ag is gaining much momentum and the adoption of carbon saving or carbon building practice like 'no-till' has become a goal for many growers, who are realising the value of soil carbon for it's water holding properties.

Now is a great time to adopt LawrieCo's regenerative nutrition practices and commence building soil carbon for improved farm productivity and consider joining the ERF scheme for a second income stream.

**Find out more today!**  
**Scan the QR code to learn more**







## What are the next steps to building wealth from soil?

1

Talk to our team of experts to establish where your soil health is at.

In addition to farm observations, we use independent soil analysis and soil microbe testing to customise a nutrient and biological fertiliser plan to suit your farm outcomes.



2

Check out our product range online [www.lawrieco.com.au](http://www.lawrieco.com.au)

You will find simple solutions to integrating biologicals into your current fertiliser program. The range includes granular fertilisers, liquid fertilisers, seed treatments, soil conditioning blends, humic and fulvics, humates, trace elements and animal health.



We also have a range of Certified Organic Inputs.



3

Join our mailing list to receive monthly updates on farms we work with, product reviews, latest in biologicals, soil carbon market and seasonal specials



**LawrieCo<sub>2</sub>**

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