

# Maximize Crop Potential for 2023

LawrieCo's Regenerative Fertilisers establish healthy plants with optimized potential, coupled with biology and stimulants to rebuild soil carbon.



## SEED TREATMENT

ESTABLISH HEALTHY ROBUST PLANTS WITH SURECROP SEED TREATMENTS

- Nutrition and Biostimulants to establish optimum root systems
- Optimise Plant Rhizosphere activity
- Access locked-up Phosphorus, nutrition & moisture & enable fertiliser to go further.
- Setup the plant's soil carbon liquid pathway



## GRANULAR

ENHANCE FERTILISERS WITH NUTRIMAX SOLUBLE HUMATES

- Improve granular fertiliser efficiency, & enable fertiliser to go further.
- Reduce nutrition lockups
- Bonds with nutrition enhancing plant uptake
- Build soil & plant health
- Boost soil moisture holding capability



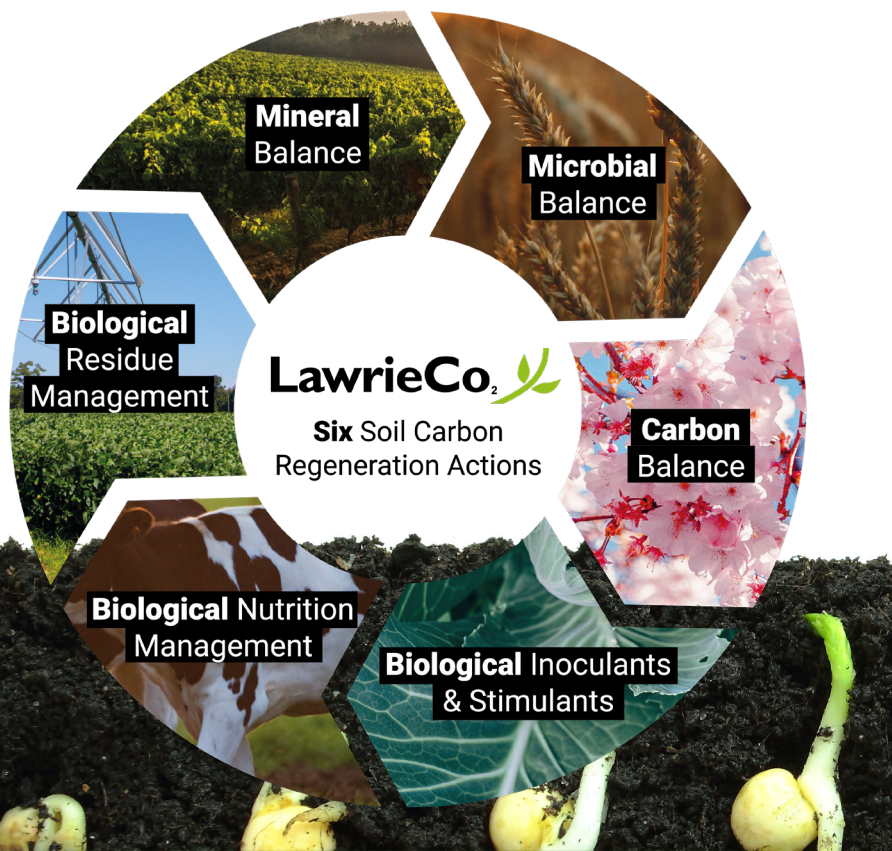
## LIQUID INJECT

POTENT LIQUID NUTRITION & BIOLOGICAL CROP STARTERS

- Balanced Nutrient & biological formulations
- Powerful Nutrient Chelators and Biostimulants
- Optimise Plant Establishment for yield and Soil Carbon building



LawrieCo's crop establishment products form part of the 6 Soil Carbon Regeneration Actions.



**SureCrop VAM is applied at 10L/T of seed to cereal crops, 6-10 L/ T of seed on Legumes, up to 40L/T on pasture seed, 5 L/Tonne on Potatoes, and 40 L/T in onions.**

**Use SureCrop PRIME at 10L/T of seed on non-Mycorrhizal crops such as canola and in situations where high levels of endemic Mycorrhizal fungi is already present.**

## SureCrop PRIME & VAM Seed treatments:

- Build robust plants with enhanced root structures
- Optimise Plant Rhizosphere activity
- Access locked-up Phosphorus, nutrition & moisture
- Setup the plant's soil carbon liquid pathway

Most available soil tests now give data on Phosphorus (P) Stores in your soil, also the PBI (Phosphorus Buffering index) test shows how much of this P is accessible. For many farms we visit we find good P reserves in the soil, however the PBI value is high, indicating access to reserves of P are poor. The major causes of these are high calcium, high iron, high aluminium and poorly balanced soil biology. Thus, the P your crop requires is there, in your paddock, but locked-up, so we annually apply more.

Setting up your plant with an optimum "rhizosphere" – that's the zone directly around the plant roots, with a microbially diverse environment and biology stimulants. Is key to cutting through the soil chemical P lock-ups and harnessing the ability of biology to scavenge and solubilise P and other locked up nutrients. LawrieCo's SureCrop VAM & SureCrop PRIME seed treatments are powerful Biostimulants; used to nurture your existing soil biology reserves, also topping up the rhizosphere with specific beneficial biology: Trichoderma, bacillus and in SureCrop VAM - mycorrhiza.

Seed treated with mycorrhizal fungi colonise on the root hairs and permeate deep into the soil structure seeking out moisture and nutrients. Mycorrhizal fungi are naturally occurring fungi that form filaments extending extensively beyond root structure, and access nutrients and moisture that roots alone cannot, specifically phosphorous and zinc.

## Soluble Humate Granules & Prills

- Use with Granular fertilisers such as MAP to improve fertiliser efficiency / reduce lockups
- Powerful chelators, chemically bonding with nutrition to assist plant uptake.
- Stimulate beneficial soil biology and support the rebuilding of beneficial soil fungi.
- These humus compounds, in our low- carbon soils, perform the function of humus, which is key to plant health and soil moisture holding.
- Open up the plant, liquid carbon pathway, assisting soil carbon storage of plant sequestered atmospheric CO<sub>2</sub>.

Increasing root mass with SureCrop seed dressings and Soluble Humate Prills / Granules is a key step to growing more soil carbon and accessing locked-up nutrients.



*"Bigger Roots & Microbe Activity = Improved Crop Establishment, Soil Organic Carbon Building, Unlocking Valuable soil Nutrients"*

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

Area Managers:

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## NutriMAX PhosCal Liquid Inject

- Results in greater yield potential and quality across crop types.
- Formulation has an ideal bionutrient sequence for plant uptake of nutrients
- Maintain ideal plant pH balance when phosphorus is alkalised with calcium.
- Silica aids plants natural response to pest & disease pressure.

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.

## BioMAX F75 Liquid Inject

- Maximise liquid fertiliser nutrient efficiency.
- Fulvic's unique ability to form multiple strong bonds with minerals ensures nutrient efficacy & plant uptake.
- Buffer against high salts and other toxicities in water and soil.

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.



## SEED TREATMENT

<b>SureCROP VAM</b>	P	K	S	Ca	Si	Zn	Mn	Humic	Fulvic	AM Inn	pH
<i>Typical Analysis</i>	1.7	0.7	0.2	4.9	2.5	2.4	1.5	4.4	3.2	32,500	8.0-8.3

<b>SureCROP PRIME</b>	P	K	S	Ca	Si	Zn	Mn	Humic	Fulvic	pH
<i>Typical Analysis</i>	1.7	0.7	0.2	4.9	2.5	2.4	1.5	4.4	3.2	8.0-8.3



## GRANULAR

<b>BioMAX Soluble Humate Granule</b>	P Humate	Total Humic Acid Extract (dry basis)	Potassium Fulvic (K <sub>2</sub> O dry basis)	Potassium as Organic (dry basis)	Moisture	Crystal Size	Water Solubility	pH	Apperance	Apply down the tube with granular fertilisers kg/ha
<i>Typical Analysis (w/w)</i>	85% min	65% min	8% min	7%	15% max	2-5mm	85% min	9-10	Black/brown crystal	4-15kg

<b>BioMAX Soluble Humate Prill</b>	Total Humic Acid Extract (dry basis)	Moisture	Prill Size	Water Solubility	pH	Apperance	Apply down the tube with granular fertilisers kg/ha
<i>Typical Analysis (w/w)</i>	50% min	15% max	2-4mm	70% min	8-10	Black/brown prill	4-15kg



## LIQUID INJECT

<b>NutriMAX PhosCal</b>	N	P	K	S	Ca	Mg	Si	B	Fe	Mn	Zn	Fulvic	pH	Spec Gravity	Liquid inject at planting L/ha
<i>Typical Analysis (w/v)</i>	6.0	11.8	3	0.5	26.2	1.7	6.6	1.5	0.3	0.02	0.01	2.0	5.6-5.9	1.65 g/mL	2-4L

<b>BioMAX F75</b>	Fulvic	pH	Spec Gravity	Liquid inject at planting L/ha
<i>Typical Analysis</i>	75% min	6.75-6.95	1.37-1.38g/mL	1-3L

**LawrieCo.**

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