



a 'Round The Traps'

Harvest across the Country
Visit www.fertitech.com

December 2024



2024 Coming to a Close

With 2024 now being in the rear-view mirror, please take a moment to see what has been going on around the world: A very recent announcement was made by the incoming USA administration that data on "Agricultural Pesticides" are being closely looked at, along with other pharmaceutical products, as part of an investigation into the declining health of its citizens.

The writing has been on the wall for years, try to get your farm in order the best you possibly can, at least start with some basics, with balanced nutrition, the buffering of some synthetic chemical inputs, produce healthier crops and livestock, to reduce your reliance on such inputs, especially with the cheap, constant preventative chemistry that is automatically locked in and sold into many farmers programs on a year to year basis.



aluminium > calcium > magnesium > potassium, ammonium-NH⁴⁺ > sodium > hydrogen

It indicates, from left to right, the decreasing strength of adsorption of the various cations. As such, the less tightly held cations are located furthest from the surface of colloids and are most likely to be leached away or further down the profile most quickly. Conversely, the most strongly adsorbed cations will tend to move the slowest down through the profile.



Harvest is finishing up across the country now, many yields were better than expected, this included areas where minimal rain fell during the growing season, but also some surprises on how bad some frost effected areas really were.



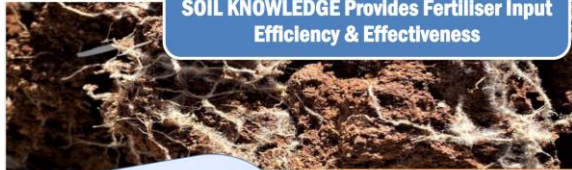
Processing Tomato crops for SPC well on track in Northern Victoria



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THINKING ABOUT 2025?
SOIL KNOWLEDGE Provides Fertiliser Input Efficiency & Effectiveness



SPECIAL OFFER
\$30 OFF
FULL RANGE OF SOIL TESTS* and REPORTS

*Conditions Apply - Maximum 3 Soil Tests per Property. Cost per Test Start From \$119+GST (Normally \$149+GST) Offer Ends 28th Feb. 2025.

GET THE SOIL ANALYSIS THAT NAILS THE PADDOCK ISSUES AND REALLY MAKES SENSE!
 Our Soil Tests give you an Excellent insight into Soil Chemistry, Soil Fertility and will provide a Solid Pathway to a High Performance Regenerative Productivity.

Contact - Ferti-Tech Head Office
 08 9725 6877 or email
 info@fertitech.com to arrange a visit or to get some
 Soil Test Kits Posted / Emailed

ISN'T YOUR SOIL YOUR MOST IMPORTANT ASSET?
WOULDN'T YOU LIKE TO KNOW HOW TO IMPROVE NUTRIENT FLOW & WATER USE?
 We provide a detailed insight into any yield limiting factors AND cost-effective ways to address them.

A Free Soil Assessment, Interpretation and a Productivity Comments Sheet is provided with Every Soil Test Service from Ferti-Tech Australia




The amount of advanced planning, preparation, hygiene, and nutrition that goes into Tomato crops that supply SPC, is certainly above and beyond what Australian consumers are made aware of. Support Australian farmers first, we know how and where our food is grown. Not only are you purchasing the highest quality products available in the world with extended shelf life, but you are also purchasing peace of mind for your family and the country.



Various Maize crops around the nation are now well underway for the Dairy and Livestock industries, this crop is being grown for Pit Silage. Once again, the amount of nutritional inputs going into crops such as this, used to produce high quality Dairy products for consumers in our country, is largely going unnoticed and under appreciated by most of the general public. You get for what you pay for.

Soil Ameliorants - Which one should you be putting on your property?

Product:	Chemical Formula:	How does it work: (Simplified)	Approximate cost per Ton	Scenarios where may be appropriate:	Scenarios where should not be used:
Lime sand	CaCO ₃ (Calcium Carbonate)	In moist soil the CO ₂ dissociates into CO ₂ and H ₂ O removing two hydrogen ions in the process. 	\$20-\$45	In acidic soil types that are deficient in calcium. In situations where soil pH and other issues aren't so severe that they are major limiting factors to crop growth, as lime sand takes multiple seasons to completely break down and work to its full effect.	Where there is already excessive soil calcium so adding more calcium to an already excess calcium soil can create further more complicated issues.
Hydrated Lime (usually comes blended with normal lime)	Ca(OH) ₂ (Calcium Hydroxide)	Calcium separates from the hydroxide, the hydroxide then reacts with H ⁺ to form H ₂ O, this removes Hydrogen from the soil resulting in an increase in soil pH, this reaction is faster than CO ₂ .	\$60-\$70	In acidic soils, rapid neutralisation is required e.g. very acid soil or Al toxicity issues. When growers want a faster response than normal lime.	In soils where there is already an excess of calcium. In soils where rapid neutralisation isn't required.
Gypsum	CaSO ₄ (Calcium Sulphate)	Calcium may be able to help displace sodium in a sodic profile, helping to reduce issues caused by salt. Will not remove H ⁺ from the soil. Displaces excessive magnesium.	\$30-\$45	When calcium levels need to be raised in the soil but pH doesn't need to be raised. When Sulphur and Calcium levels both need to be improved.	When acidic soil types require neutralising.
Dolomite	CaMg(CO ₃) ₂ (Calcium Magnesium carbonate)	Like lime sand, Carbonate will break off from Ca and Mg to neutralise Hydrogen in acid soils. Similar to lime this process can take a few seasons.	\$40-\$65	In acidic soils where Mg & Ca levels need to be increased. Well suited to building up 'gutless' soil types.	When there is already excessive Mg levels, adding more Mg to soils can create more compounding issues.

NOTE: We highly advise that you carry out soil testing where Soil Amendments are required to best determine the correct products to use.

Seed Enhancer™

The most cost effective and "smart start" fertiliser seed treatment available. Ferti-Seed Enhancer is an easy to use complete nutritional package that ensures fast germination and vigorous root and leaf growth for the first 4-6 weeks of life. Use Ferti-Seed Enhancer to ensure maximum crop establishment as soon as possible. Roots will develop more laterals and hairs for faster nutrient exchange with the soil, leaves will develop and photosynthesise with more surface area sooner. All seeds need a guaranteed nutritional boost to make sure they germinate well and establish a strong root system for survival.

Recommended Coating Rate	Seed Enhancers % w/v
Apply 5 litres per tonne of seed (or seed) 7-8 litres per tonne grass, canola, small seeds etc.	Nitrogen 0.40
Refer to FTA for specific uses.	Phosphorus 0.02
Caution - Corrosive Highly Acidic	Potassium 1.84
	Sulphur 3.20
	Magnesium 0.60
	Iron 0.25
	Manganese 2.84
	Copper 0.50
	Zinc 2.31
	Boron 0.04
	Molybdenum 0.05
	Cobalt 0.012

Seed Enhancer™ has High Levels of Phosphorus, Potassium, Sulphur, Zinc and Manganese

- P for strong root formation, growth, energy, yield set and resistance to pests and disease
- K for better leaf and stomata function, growth, enzyme and protein synthesis
- S and Mn for improved chlorophyll synthesis, element uptake and optimal seed formation
- Zn for protein conversion, sugar build, hormone stimulation and cationic water holding status

Use Seed Enhancer to Maximize Early Growth and Green Leafy Nutritional Levels. Fully Compatible for use with all High Analysis Fertilisers including MAPDAP, SCA Carbamate Custom Formulations and Urea etc. Easy to Apply using basic trickle flow and Auger Mixing Techniques. Dry in 15 minutes. Quarantined to Avoid 'Hot Spots'.

Ferti-Tech Australia - Soil Ameliorants

Soil Ameliorants and Why:
 Understanding soil ameliorants and which one to use can be very complicated for many growers, as there is often so much misinformation throughout the industry surrounding soil ameliorant products and their appropriate use. Ferti-Tech do not believe that there is necessarily such thing as pros and cons of different ameliorants, but rather that some scenarios are best suited to a particular ameliorant for specific reasons. Selecting appropriate ameliorants is something that should always be done in conjunction with recent and informative soil tests which provide an accurate insight into the soil's chemical properties. Ferti-Tech provides an independent soil testing service through SAA at Southern Cross University and are more than happy to arrange a farm soil sampling service for almost growers, getting the correct information to help them make well informed decisions. While for many soil ameliorant products available on the market, it is important to understand the basic information surrounding each product to understand how and when each product should be used. Below is a basic outline on the most common soil ameliorant products around Australia.

Lime Sand: Is for one of the most common soil ameliorants, especially in alk, lime sand is often sold to farmers as a product used to neutralise acidic soils helping to improve crop yields in future seasons. Lime is a relatively cheap soil ameliorant and is available from many suppliers varying in quality. Refer to the table below for more information.

Hydrated Lime: A much more "aggressive" form of lime compared to lime sand. Hydrated lime is a rapid acting product designed to break down quickly in the soil to provide much faster neutralisation of acidic soils. Hydrated lime products, such as Manara, are available from many suppliers varying in quality. Refer to the table below for more information.

Dolomite: Unlike lime and hydrated lime, gypsum is not a product used to neutralise acidic soils but instead used to build soil Calcium and Sulphur levels when pH neutralisation is not required. Gypsum is also widely available and comes in varying forms of quality. Refer to the table for more information.

Compost: Compost is a natural fertilizer with plant growth stimulating substances which help improve the soil's carbon and beneficial microorganisms. It improves soil structure, aeration and water holding properties. It can be blended with other products to prescription value add.

Wishing you all a Merry Christmas and a Happy New Year. We look forward to working with you in 2025.