

The logo features a stylized white graphic of grass blades or wheat stalks to the left of the brand name.

Revital[®] Fertilisers

FOR SUSTAINABLE PROFIT



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Revital[®] Fertilisers



Proven Benefits, Sustainable Profits.

As you like it: The Revital product range can be completely customised to suit the unique soil and growing conditions on individual farms, horticultural blocks and in orchards.

A 'multi-vitamin' for plants: Revital contains essential plant nutrients such as nitrates, exchangeable phosphorous, soluble potassium, calcium and magnesium in forms that are readily available to plants.

Soil's nutrient energy store: Revital is rich in humus which stores and releases nutrients to plants as they require them. Humus also provides a food source for beneficial soil micro-organisms which help maintain and improve soil health.

Natural plant health-provider: Revital contains humic acids which are essential for healthy and productive soil. Humic acids retain nutrients in soils and prevent them from leaching. Humic acids also reduce soil compaction by expanding clay molecules.

Structural strength: Revital is rich in natural plant growth hormones which increase root permeability and development. The better the root structure, the better the plant's ability to absorb nutrients and moisture. This helps make plants more nutritious and drought-resistant.

Nutrient navigator: With a large surface area and a high cation exchange capacity, Revital naturally stores nutrients in a form readily available to plants for release upon demand.

Greater microbial diversity: Revital contains a diverse microbial population. When Revital is applied, it inoculates the soil with beneficial micro-organisms which continue to grow and improve soil fertility and productivity.

Shock absorber: With a neutral pH, Revital improves the buffering capacity of soil.

Suppressant: Revital Compost has been scientifically proven to suppress certain plant diseases & pests.

Gives 100%: Revital Compost enhances the performance of other fertilisers, including traditional NPK fertilisers. This results in better plant growth without excess fertiliser use.

Easily used: Revital is easy to use and is applied using normal spreaders and sprayers.

Scientific credibility: International studies have proven that Revital Compost based products increase both yield and quality in a range of crops.

Outstanding Results

Proven Benefits - Sustainable Profits

The Revital product range from Revital Fertilisers Ltd (est. 1996) can be completely customized to suit the unique growing conditions on individual farms.

Our core component's are compost & vermicast created in New Zealand, blended with chicken manures, limes and specific additives as demanded by your soil needs.

Revital acts as a 'Multi-vitamin' for plants acting as the soil's nutrient energy store.

Revital is rich in humus improving soil health and assists structural strength increasing root development.

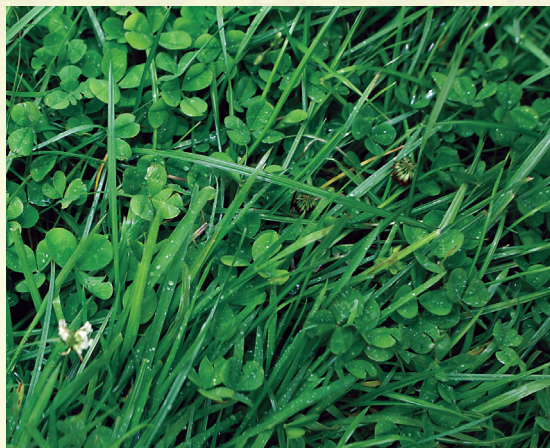
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Revital is easy to use and is applied using normal spreaders and sprayers.

Revital's results over the last decade have proven that compost and vermicast based products increase both yield and quality in a range of pastures and crops.



Scientifically Proven

Compost and Vermicast is Proven to Work.

Over the past five years, there has been a dramatic increase in the amount of international scientific research investigating the benefits of vermicast as a soil conditioner and fertiliser. The results have been favourable – vermicast has been shown to increase both yield and quality in a range of crops, both overseas and in New Zealand.

Scientific studies have documented that vermicast produces growth responses in plants that are far greater than would be expected from supplying nutrients alone, as in most traditional fertilisers.

Humic acids stimulate plant root growth and increase the permeability of roots to nutrients. The natural plant growth hormones found in vermicast have been shown to have dramatic effects upon plant growth.

Research

Atiyeh R; Lee S; Edwards C.A.; Arancon N.Q; Metzger J.D (2002). The influence of humic acids derived from earthworm-processed organic wastes on plant growth. *Bioresource Technology* 84 (2002), pages 7-14.

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Arancon N.Q; Edwards C.A; Lee S.S Yardim (2002). Management of plant parasitic nematode populations by use of vermicomposts: *Proceedings of Brighton crop protection conference-pest and diseases.* Vol 2, 8B-2, pages 705-710.

Chaoui H; Edwards C.A; Brickner A; Lee S.S; Arancon N.Q (2002). Suppression of the plant diseases, *Pythium* (damping-off), *Rhizoctonia* (root rot) and *verticillium* (wilt) by vermicomposts: *Proceedings of Brighton crop protection conference-pest and diseases.* Vol 2, 8B-3, pages 711-716.

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Pasture - Revital 30

The Revital Difference

Vermicast, the world's richest natural fertiliser, is a key ingredient of the Revital fertiliser product range.

Vermicast is a by-product of earthworms. As worms tunnel through the earth consuming food, their digestive systems break down organic matter and recycle it into a rich, natural fertiliser.

This finely-ground peat-like material is called vermicast. Once added to the soil, vermicast is immediately available for use by plants to boost growth and development.

All plant nutrients are cycled by soil micro-organisms, including nutrient-cycling bacteria and fungi contained in vermicast. These essential micro-organisms further stimulate the break-down of organic matter in the soil. This accelerates the mineralising of complex nutrients into a simple plant-available form.

In addition, the natural plant hormones found within vermicast improve germination rates and root growth. This aids in the absorption of nutrients and moisture improving plant resistance to drought. Active root growth assists in de-compacting soils.

Using Revital 30

Soil and plants rely on each other for good health.

While soil conditions determine what plants can grow and how well they flourish, growing plants assist in developing soil structure and composition.

Because of its natural ingredients, Vermicast boosts the profitability of land because it nurtures the soil and encourages healthier plant growth.

Revital compost and vermicast-blend fertilisers are easy to use and are applied using normal spreaders and sprayers. Revital application rates are customised to individual farms, horticultural blocks and orchards.

A blending and balancing act

Revital vermicast performs a great balancing act. Because it enhances overall effectiveness when blended with other fertilisers (both chemical and organic), smaller amounts of nutrients can be applied to get the same growth response. Revital vermicast customers apply less conventional fertiliser while gaining the same or better results. The environment also benefits. Revital vermicast assists in helping to reduce leaching of all nutrients into waterways.



Maize

Revital Maize Fertiliser for Proven Results

In ten trials conducted in the Bay of Plenty, Waikato and Taranaki, Revital Maize fertiliser showed an average increase of 16.5 % in dry-matter per hectare.

At today's prices that is an increase in dollar terms of \$895 per hectare.

Revital Maize Fertiliser is made up of 30% vermicast (worm casting) 30% high quality compost and 40% chicken manure.

Nutrient Percentages

N	P	K	S	Mg	Ca
2	1.6	1	.22	.45	6

Applied at 3000kg/ha

N	P	K	S	Mg	Ca
60	48	30	6.6	13.5	180

Advantages of using Revital Maize Fertilizer:

- Contains essential macro and micro nutrients
- Improves soil physical and biological qualities
- Reinvigorates "tired" soil
- Improves nutrient cycling and biological stimulation
- Improves root growth by adding natural plant growth hormones - published scientific trials have shown that humic acid from vermicast enhanced root elongation and formation of lateral roots in maize
- Helps reduce the incidence of some plant disease
- Published research shows that vermicast further stimulates plant growth even when plants are already receiving optimal nutrition. It improves seed germination and seedling growth and increases plant productivity much more than would be possible from the mere conversion of mineral nutrients into a plant- available form.

Vermicast contains growth promoting plant hormones Gibberillins, Auxins and cytokinins which help mineralise nutrients and make them bio available.



Avocado

Revital Based Product is Ideal for Avocado Orchards

Revital based product is ideal for Avocado orchards. Revital 30 is made from organic matter and it is ideally suited to avocado trees. Vermicast is a proven root stimulant, and combined with good quality compost and chicken manure it provides a broad spectrum of chemistry and biology to the trees. Ideally it should be applied twice yearly, Spring & Autumn at approximately 4000kg per hectare depending upon soil and leaf test results. Revital 30 can be blended with additional inputs such as Lime, Potassium, Boron etc. to optimise the blend and ensure nutrient demands are met in a sustained release manner.

Avocado trees are surface root feeders, and gain the bulk of their nutrient from the top layer of leaf litter under the drip line.

The root systems prefer natural mulch making Revital 30 a perfect fit for Avocado nutrition



Kiwifruit

The Revital Difference

Producing premium, quality, healthy crops is a matter of balance. From soil to sunlight, all facets of an orchard must work in tune with each other so that crops get all the nutrients they need. Revital is a key ingredient to restoring and maintaining this balance.

Revital Compost, Revital Compost 50, or Revital vermicast will supply these essential nutrients to your crop by adding bacteria and fungi to the more complex organisms such as protozoa, nematodes and earthworms, all have an important role in nutrient cycling, soil health, fertility and disease suppression.

Revital Compost, Revital Compost 50 and Revital vermicast also supply an excellent source of nitrogen, phosphate, potassium and calcium to your plant or vines.



Revital 2000 Liquid Bio-Stimulants

The Diversity of Life – The Key to Nutrient Cycling

Revital liquid products work differently to normal fertilisers. As well as carrying nutrients, Revital liquid products are bio stimulates and rich in microbial diversity.

Modern agricultural practises have been shown to decrease microbial diversity within the soil. To improve your soils ability to cycle nutrients and maximise your fertiliser spend, it is important to maintain your soil microbial diversity.

Why is microbial diversity and life important in the soil?

- Fungi and bacteria retain nutrients in the soil, when these organisms die or are eaten, the nutrients are released and are available to plants once again.
- Fungi and bacteria improve soil structure by cementing soil particles together.
- Diverse populations suppress disease-causing organisms.
- Bacteria fungi and other soil organisms break down organic matter.
- Certain types of bacteria and fungi fix nitrogen and breakdown inorganic phosphates.
- The better you diversify the better these functions occur

Revital liquid products are made using vermicast and a selection of inputs designed to ensure our products have maximum diversity and beneficial microbes in a stabilised form.



The Product Range

Revital products can be customised to suit soil and growing conditions. The blends below are standard blends only. Please talk to your local field representative about the full range of Revital products and Revital blends available.

Solid Soil Conditioners	Description	Key Users	Application
Revital Vermicast	100% Revital Vermicast	Pastoral, horticultural	All year round
Revital Ultimate & Vermi-cal	50% Revital Vermicast and 50% Lime (+ Limeflour)	Pastoral, horticultural	All year round (excl. Spring pre-birthing)
Revital UltraPhos	50% Revital Vermicast and 50% Reactive phosphate rock (RPR)	All applications where phosphate needs boosting	Mainly Spring and Autumn
Revital Seasonal blends	Custom blends of Revital Vermicast, RPR, LimeMag, Limeflour & Trace Elements	Pastoral, as required by soil/herbage test	Spring and Autumn
Revital 30/Maize	30% Revital Vermicast and 70% Revital Chicken compost	An outstanding agricultural fertiliser, suited to pasture application and cropping	Spring and Autumn
Revital Compost	Fully-composted green waste	Horticulture	All year round
Revital Compost 10, 20 & 30	10, 20 & 30% Revital Vermicast and Revital compost	Horticulture	All year round
Revital Compost 50	50% compost and 50% chicken manure	Kiwifruit and avocado orchards	Mainly July - October or as required
Revital Compost Mulch	100% compost mulch processed through the VCU	A weed suppressant and slow-release fertiliser with a high micro-organism content	Mainly July - October as required
Liquid Bio-Stimulants			
Revital 2000 Liquid Vermicast	Fully organic, microbe-rich liquid fertiliser produced from solid Revital vermicast	Pastoral	All year round - avoid mid-summer heat
Revital Bio-Oceanic	A mix of Revital 2000 and fish fertiliser	Pastoral, horticultural	All year round - avoid mid-summer heat
Revital Dairy Pasture Plus	A customised mix of Revital 2000, fish fertiliser and chelated trace elements. (Standard mix: Cobalt, Selenium, Iodine, Sodium, Magnesium and Calcium. Also available are Boron, Iron, Manganese, Zinc, Molybdenum and Potassium.)	Pastoral, dairy farms	June through August or subject to special requirements
Revital Hort	100% organic microbially-balanced liquid fertiliser developed especially for the horticultural market	Horticulture	All year round - avoid mid-summer heat



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