



SOIL HEALTH

Vital Earth

Premium Soil Amendment

Vital Earth is a pelletised carbon source.

Soil microbes and plants need energy from active carbon (organic matter) to thrive.

Vital Earth improves soil by:

- Holding moisture & nutrients
- Reducing lock up of phosphorus
- Stimulating root growth & nutrient uptake
- Improving soil structure
- Reducing drought stress
- Promoting soil biological activity

Convenient, cost-effective way to add carbon to your soil!

Contains humic & fulvic acid (HFA's) which are active carbon, plus silicates.

Certified for organic farming

Suitable for use in cereals, canola, row crops and pasture.

2016 TRIAL WORK:

Since November 2015, Vital Earth has been used to improve production in a wide range of crops - primarily vegetables.

Early this year we commenced demonstrations of Vital Earth and Vital Earth with Lime in cereals and legumes on 10 -12 sites around the WA wheat belt.

The sites currently include sandy soils, low pH soils, high reactive soils (lock up P) in wetter and drier regions (Bolgart, Merredin, Muntadgin, Brookton, Beacon).



Wheat trial in Muntadgin 30/06/16
Vital Earth applied at 20kg/ha



Control

Vital Earth

Cost-effective carbon source

Vital Earth pellets are made in WA from peat. They are ideal for incorporating into soil and can be blended with seed and solid fertiliser. Vital Earth is designed to improve soil health by improving soil nutrient retention, water holding capacity, buffering salinity and providing a food source for soil microbes.

ANALYSIS (average):

40% humic and fulvic acids (with potassium)

37.9% silicates

Ca-0.22%	Fe-2.43%	Mg-0.54%
S-0.39%	K-3.44%	Cu-17ppm
Co-7.7ppm	Mn-52ppm	Mo-1.05ppm
Na-0.34%	P-150ppm	Se-0.81ppm
Zn-11.5ppm		

PACK SIZES:

25kg, 500kg bulk bags

DIRECTIONS FOR USE:

Vital Earth Pellets are used in a wide range of agricultural enterprises to improve nutrient and moisture retention to soil. It is particularly useful when blended with granular and pelletised fertiliser and incorporated into soil.

Used with a standard fertiliser program.

Suitable for broadcasting, banding and blending with fertiliser.

Applied through standard seeding and spreading equipment.

APPLICATION RATES:

Vegetables:

Apply 50-200kg/ha broadcast or in-furrow.

Fruit Trees & Vines:

50-200kg/ha applied early in growing season; including tropical fruit.

Broad-acre crops and pastures:

5-20kg/ha.

Blend with Fertiliser:

10-50kg/ha

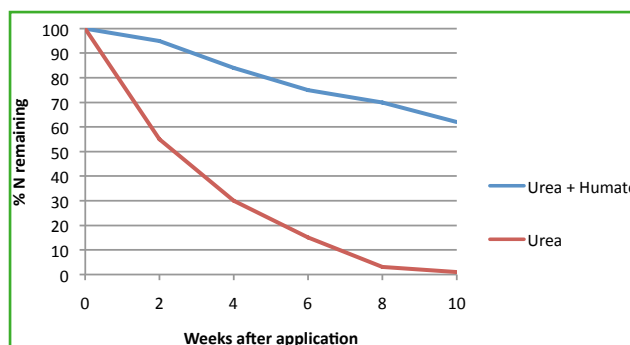
STORAGE:

Store in original container away from direct sunlight and moisture.

We recommend using active carbon every time you fertilise to:

1) Improve the use of N in the soil or the leaf

Adding active carbon to nitrogen holds ammonium-N in the root zone, reducing leaching and volatilisation. It also buffers N (UAN) in the soil, improving uptake. Typically fertiliser efficiency improved by 20% (Kasim 2011).



The graph shows nitrogen loss from soil is reduced dramatically when applied with humate. (Data courtesy Mr John Fergusson – The Best on Earth).

2) Provide the most active component of soil organic matter in a concentrated & economical form (Celik 2011).

Good soils contains on average 1% Humus so soils don't need much to make a difference. This is why Vital Earth (active carbon) is such a cost-effective soil amendment.

3) Improve nutrient and moisture retention

Active carbon improves soil structure. In sandy soils humates provide a charged surface to hold nutrients and water while in clay soils humates separate the clay particles so water and nutrients can penetrate more easily.

3) Buffer harsh aspects of fertiliser

Soluble fertilisers, particularly highly acidic or alkaline fertilisers, can have a harsh effect on soil biology. Research has shown active carbon applied with fertiliser keeps soil microbes working (Imfeld 2012).



Tel: 08 9388 3623
Tel: 03 9008 6352
info@sustainablefarming.com.au
www.sustainablefarming.com.au
© Sustainable Ventures Pty Ltd -7-18

