

Frost Protection Pasture & Crop

Vitec Combo
A unique blend of
fish & kelp
or
Vitec King Kelp
35% Kelp



- ◆ Kelp for frost protection
- ◆ Safe for all pasture/crop types
- ◆ Soil and/or foliar application
- ◆ Suitable for ALL soils
- ◆ Fish stimulates release of locked up phosphorus
- ◆ Ideal as a seed dressing
- ◆ Reduce fungal/insect attack
- ◆ Kelp stimulates root development
- ◆ Increased drought tolerance
- ◆ Natural plant growth hormones in kelp

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Frost free on the right of the photo where Vitec Combo (Fish and kelp) was sprayed.

This is the scene that greeted Anthony, one nippy morning after a heavy frost in July 2007. He couldn't believe his eyes. The hay paddock to the right in the picture was frost free. Anthony had sprayed the hay paddock the day before with Vitec Combo. Frost protection is one of the benefits of kelp, whether it be pasture, crop, vineyards or orchards.

Here are some photos of our paddock sown to Stevens Pasture seed Haymaker 400, only 6Ha. Crop was sown dry in April with no fertilizer (however last summer crop failed so there was probably enough fertilizer in the ground). Grazed twice in winter, first for 2 weeks with 100 twinning ewes, then sprayed with **Combo**, 2 week break then 3 weeks on with 270 ewes and lambs. Paddock was locked up for hay in August and sprayed again last week with Combo. We hope to cut this paddock for hay in about 3 to 4 weeks depending on weather, I will let you know how it yields.

FINAL YIELD WAS 6 TON/HA—1ST CUT, 2ND CUT 3TON/HA THEN A THIRD TIME WITH GRAZING, A TOTAL OF 54 TONNE HAY FROM 6 HECTARES.



Anthony Grodzki

HOW DID ANTHONY GET SUCH EXCELLENT RESULTS WITH USING VITEC COMBO?

Combo is sprayed with your boomless nozzle from a 400lt tank towed behind a quad bike: we put 10Lt **Combo** in with 400Lt of water over 6 hectares. We have just sown 8ha of rape, chicory, plantain and arrow leaf clover as a summer crop. This crop has been sown with chicken manure ploughed into the soil instead of traditional super. I am keen to try some Combo mixed with molasses on this once the crop has germinated. Cheers, Anthony Grodzki, Ballan [by email 9.10.07](mailto:anthony.grodzki@ballan.vic.gov.au)

Post script Caught up with Anthony, as I was curious about the results of using chook poo along with the Combo. Well, he is a local celebrity as a result of the crop. Farmers were driving out to have a look at the waist high summer crop. The local newspaper covered the event with photos and a story. As a consequence of Anthony outlining his fertiliser program all the locals are now using the chook poo, which is now sold out!!

Anthony did have a problem with insects attacking his crop so had trialed

1. Combo with Garlic
2. Molasses with Garlic, and
3. Combo with molasses & garlic.

The last combination was the answer to control the insects.

Combo will be the only fertilizer Anthony will use in the future. It has shown that artificial fertilisers are no longer required.

Anthony said the summer crop added \$30 a head when lambs went to market. What with a natural solution to insect control, fantastic results, a healthy soil, no withholding periods for stock, and saving \$\$\$, it makes cents to use natural products.

ANALYSIS OF VITEC FERTILISERS



Products marked
are certified or-



| VITEC FISH FERTILISER | |
|---|--------------|
| Deep Sea Fish | |
| ALL THE FOLLOWING NUTRIENTS OCCUR IN ORGANIC FORM | |
| Nitrogen (N) | 3.14% |
| Phosphorus (P) | 0.31% |
| Potassium (K) | 0.39% |
| Calcium (Ca) | 0.22% |
| Sodium (Na) | 0.30% |
| Sulphur (S) | 0.41% |
| Magnesium (Mg) | 0.08% |
| Manganese (Mn) | 6.2 mg/L |
| Copper (Cu) | 9.8 mg/L |
| Iron (Fe) | 145 mg/L |
| Zinc (Zn) | 55 mg/L |
| Cobalt (Co) | 0.65 mg/L |
| Boron (Bn) | 1.7 mg/L |
| Molybdenum (Mo) | 0.08 mg/L |
| Selenium (Se) | 1.2 mg/L |
| pH | 3.8 |
| Fish | 97.5% |
| Stabiliser | 2.5% |
| PROXIMATE ANALYSIS | |
| Min. Crude Protein | 19.6% |
| Oil | 6.0% |

| VITEC EXTRA VIRGIN FISH FERTILISER | |
|---|--------------|
| Farmed Fish | |
| ALL THE FOLLOWING NUTRIENTS OCCUR IN ORGANIC FORM | |
| Nitrogen (N) | 2.7% |
| Phosphorus (P) | 0.29% |
| Potassium (K) | 0.28% |
| Calcium (Ca) | 0.23% |
| Sodium (Na) | 0.26% |
| Sulphur (S) | 0.35% |
| Magnesium (Mg) | 0.05% |
| Manganese (Mn) | 0.75 ppm |
| Copper (Cu) | <0.5 ppm |
| Iron (Fe) | 100 ppm |
| Zinc (Zn) | 54 ppm |
| Cobalt (Co) | <0.5 ppm |
| Boron (Bn) | 0.61 ppm |
| Molybdenum (Mo) | <0.5 ppm |
| Selenium (Se) | 4.9 ppm |
| Fish | 97.5% |
| Stabiliser | 2.5% |
| PROXIMATE ANALYSIS | |
| Min. Crude Protein | 17.4% |
| Oil | 5.0% |

KEY POINTS FOR THE USE OF FISH

FISH FEEDS SOIL ACCELERATE CATION EXCHANGE

- ⇒ **Ready source** (soluble) of available organic **NITROGEN, CARBON, POTASSIUM & PHOSPHORUS** and can be especially useful when this is needed to improve the carbon-nitrogen ratio in the soil.
- ⇒ **Stimulate growth and activity of beneficial micro-organisms**, but **especially Yeasts and Bacteria in SOIL.**
- ⇒ The net effect is an **increase in the potential for nitrogen cycling**
- ⇒ **Reduced need for nitrogen inputs** to some crops and pasture
- ⇒ **Boosts quality & colour** flowers vegies & foliage
- ⇒ **Increases CEC** to enhance nutrient quality
- ⇒ **Adds natural nutrients**, vitamins, proteins & amino acids to soil

ANALYSIS OF VITEC FERTILIS-

KELP

ROOT & YOUNG GROWTH

| VITEC KING KELP FERTILISER | |
|-----------------------------|--------------|
| Nitrogen (N) | 0.06% |
| Phosphorus (P) | 0.01% |
| Potassium (K) | 0.8 % |
| Sulphur (S) | 0.06% |
| Calcium (Ca) | 0.1 % |
| Magnesium (Mg) | 0.05% |
| Sodium (Na) | 0.2 % |
| Iron (Fe) | 135 ppm |
| Manganese (Mn) | 5 ppm |
| Copper (Cu) | 1.12 ppm |
| Zinc (Zn) | 6.22 ppm |
| Boron (Bn) | 7.37 ppm |
| Molybdenum (Mo) | 0.35 pmm |
| Selenium (Se) | 0.63 pmm |
| TOTAL ORGANIC CARBON | 1.13% |
| Kelp | 35% |

- ⇒ **High concentrations of plant hormones** (auxins, cytokinins, etc.).
- ⇒ **Stimulate root & plant growth**
- ⇒ **Promote fruit & bud set**
- ⇒ **Improve evenness & quality of fruit**
- ⇒ **Increase resistance to insect/fungal attack**
- ⇒ **Reduce transplant shock**
- ⇒ Increase **tolerance to frost, drought and heat**
- ⇒ These have been shown to **significantly increase the biological activity in soils**, and especially that of Actinomycetes and Cellulose utilisers.
- ⇒ Cellulose utilisers **breakdown cellulose and certain other resistant materials**,
- ⇒ Thus increasing the **formation of humus** and helping to **improve soil structure**.
- ⇒ Actinomycetes also help provide **protection against soil-borne pathogens (fungal attack)**.

| VITEC COMBO | |
|-----------------------------|--------------|
| Nitrogen (N) | 1.99% |
| Phosphorus (P) | 0.63% |
| Potassium (K) | 0.28% |
| Sulphur (S) | 0.17% |
| Calcium (Ca) | 0.79% |
| Magnesium (Ma) | 0.08% |
| Sodium (Na) | 0.29% |
| Copper (Cu) | 2.77 ppm |
| Zinc (Zn) | 19.1 ppm |
| Iron (Fe) | 458 ppm |
| Manganese (Mu) | 4 ppm |
| Boron (B) | 6.52 ppm |
| Cobalt (Co) | 0.024 ppm |
| Molybdenum (Mo) | 0.12 ppm |
| Selenium (Se) | 1.64 ppm |
| TOTAL ORGANIC CARBON | 18.9% |
| <i>GENERAL ANALYSIS</i> | |
| Fish | 78% |
| Kelp | 20% |
| Stabiliser | 2% |
| <i>PROXIMATE ANALYSIS</i> | |
| Crude Protein | 12.44% |
| Oil | 6.0% |

| VITEC COMBO PLUS | |
|-----------------------------|--------------|
| Nitrogen (N) | 1.82% |
| Phosphorus (P) | 0.73% |
| Potassium (K) | 0.28% |
| Sulphur (S) | 0.49% |
| Calcium (Ca) | 0.71% |
| Magnesium (Ma) | 0.16% |
| Sodium (Na) | 0.26% |
| Copper (Cu) | 779.5 ppm |
| Zinc (Zn) | 1084 ppm |
| Iron (Fe) | 996 ppm |
| Manganese (Mu) | 756 ppm |
| Boron (B) | 28.94 ppm |
| Cobalt (Co) | 6.97 ppm |
| Molybdenum (Mo) | 18.15 ppm |
| Selenium (Se) | 3.56 ppm |
| Vitamin A | 12,000 iu/L |
| Vitamin D3 | 2,200 iu/L |
| Vitamin E | 20 iu/L |
| TOTAL ORGANIC CARBON | 16.5% |
| <i>GENERAL ANALYSIS</i> | |
| Fish | 76% |
| Kelp | 19% |
| Plant Extract | 2.0% |
| Added traces and vitamins | 3.0% |
| <i>PROXIMATE ANALYSIS</i> | |
| Crude Protein | 11.38% |
| Oil | 6.0% |

BROADCAST SPRAYING WITH A SINGLE NOZZLE

- Simple and effective
- Easy to clean and maintain
- No cumbersome boom system required
- No more multiple nozzles needed on boom arm
- Sprays out **8 - 10 metre** wide in a flat, fan shaped pattern
- Perfect for crop, pasture and ground application in orchards
- Suitable for sprayable lime and gypsum
- Ideal for natural, organic fertilisers
- Strainers and filters not necessary
- Low impact spray
- No drift



SEED DRESSING RATES

| 1 TONNE SEED | FISH LT | KELP LT | WATER LT | TOTAL Fish + Kelp+Water LT |
|--------------|---------|---------|----------|----------------------------|
| WHEAT | 1 | 4 | 7 | 12 |
| BARLEY | 1 | 4 | 10 | 15 |
| OATS | 1 | 4 | 13 | 18 |



VITEC AUSTRALIA

IF YOU WOULD LIKE MORE INFORMATION ABOUT VITEC FERTILISER or ANY OTHER PRODUCT PLEASE CALL US ON

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