



AgriSea  
NEW ZEALAND

VITICULTURE/HORTICULTURE  
NUTRITION SOLUTIONS



# Welcome to

AgriSea NZ is a multi award winning, sustainable New Zealand company. We are now a second generation family owned and operated company. We have a highly skilled team dedicated to manufacturing the highest quality nutritional products for Soil, Plant and Animal health.

AgriSea brews liquid seaweed concentrates from the NZ native seaweed species *Ecklonia radiata*. Collected from the shores of New Zealand's pristine coastlines, *Ecklonia radiata* is one of the most complex materials in the world, containing almost every element known to man.

AgriSea's long, cold brewing process eliminates the use of heat, chemicals, freezing or dehydration that might denature or destroy the complex nutrient balance of our seaweed. Although labour intensive, our unique process protects the vast range of natural growth stimulants, vitamins and micro-nutrients that enhance soil, plant and animal health.

**The AgriSea team refuses to compromise product quality to cut production costs or increase profit.**



## Our family philosophy is simple:

*"To provide highly effective products with bucket loads of integrity"*

We stand behind our products...  
you can ring to speak to us on

**0800 SEAWEED**



# Why AgriSea?

There are significant economic and environmental challenges facing the Viticulture/Horticulture industry today. AgriSea provides highly effective, financially and environmentally sustainable farming solutions. While all our products are certified organic, (Bio Gro) 98% of our growers are non organic.



AgriSea maximises all orchard/vineyard management systems (conventional, biological or organic) resulting in significantly increased orchard/vineyard health, production and profitability. This is achieved via better:



Soil  
Nutrition



Foliar  
Nutrition



# AgriSea Soil Nutrition

Since the 1950's, horticulture practices have focused on the soil chemistry – high input, synthetic compounds to push production and yields. While the initial results were good, we are now increasingly aware of the long term effects of these practices – on the quality of our farms, our farm outputs, our land and waterways.

Healthy soil is the basis for Viticulture/  
Horticulture and the necessary  
foundation for healthy plants.

AgriSea Soil Nutrition is a soil conditioner which will feed your soil biology and improve your soil structure and soil fertility. Soil biology (or soil life) creates soil structure and produces soil nutrients.

An active and diverse soil biology ensures an ongoing feed source for your vines/orchard. AgriSea Soil Nutrition also allows for the numerous minerals and nutrients already in your soil to be refurbished and 'unlocked' – ensuring the ongoing benefit of the previous solid / nitrogen investments made on your farm.

// We use AgriSea Soil as an annual soil drench in combination with our own formulated liquid mix. We believe seaweed forms an integral part of this and helps to promote microbiological activity. It is important to us that this input is also BioGro certified. //

**Marco DeGroot**

Monovale Blueberry Farm, Cambridge, NZ



Healthy soil - Healthy foliar  
- Healthy profits



// Over the last 2 years we have been using the AgriSea Soil Nutrition and the results have been fantastic. //

**Anne & Ian Storey**

Imago Organic Orchard, Levin, NZ

## The Benefits of AgriSea Soil Nutrition include:

- Huge increase in your soil biology and 'voluntary army' (microbes and earthworms)
- Increased root length and mass (up to 175% thicker)
- Increased soil quality and fertility
- Improved soil structure (aeration, drainage, can withstand traffic)
- Deeper humus layer (nutrient storehouse of your soil)
- Locked minerals and nutrients in the soil become bio-available
- Increased germination rates for cropping
- Increased crop yield and vineyard/orchard quality
- Vineyard/Orchard holds longer and recovers quicker in drought

## Ease of Use

- Safe and non-toxic
- Spray or Spread – Boom, Rose, Jet, Chopper
- Compatible for use with other products
- Fine filtration ensures no clogged lines or spray nozzles

# AgriSea Foliar Nutrition

Foliar spraying with seaweed supplies nutrients to the plant via the leaves, a method which has been shown to be 95% efficient – when applied under ideal conditions, nutrients have been translocated into the plant within one hour.

The success of AgriSea's Foliar Nutrition is due to the presentation of a balanced package of micro-nutrients to the plant in proportions that are conducive to absorption.

Seaweed is a growth enhancer that provides the natural plant hormones – auxins, gibberellins and cytokinins. These plant hormones are growth stimulants that are an important aid to: larger fruit size through cell division and cell expansion increased root growth which in turn accelerates nutrient and water uptake.

These hormones are carefully protected during AgriSea's unique hand manufacturing system that does not use heat, chemicals, freezing, drying or other processes that will de-nature the sensitive balance of micronutrients that are so important to the plant.

AgriSea Foliar Nutrition provides a natural balance of nutrients in a form your vines/crops can readily absorb and convert – maximising quality, palatability and yield.



// We have used AgriSea seaweed now for 8 seasons now and our fruit has less disease and more flavor. The vines just seem to be healthier. There has been a vast improvement in soil microbe numbers and soil health in general since we began using AgriSea. //

**Mal McLennan**  
Maimai Creek, Hawkes Bay



// We have used both AgriSea Soil & Foliar Nutrition for the past 2 years and are noticing a big improvement in the health of the plants. //

**Grant & Emma Plaisted**  
Avarillo Orchard, Tamarillo's & Avocado's

## The Benefits of AgriSea Foliar Nutrition include:

- Moderate levels of boron to enhance pollen viability
- Valuable fruit sizing mechanism via natural plant growth hormones
- Greener, healthier vines/ crops due to increased chlorophyll levels
- Significant lift in the fibre, protein and overall nutritional value of your vines/ crops
- Increased DM yields
- Increased brix (natural sugars) levels in pasture
- Increased natural nitrogen fixation
- Increased palatability & larger storage capacity
- Crops more vigorous and durable in times of stress
- Increased resistance to disease and pests
- No chemical additives; no residues; no withholding

## Ease of Use

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# AgriSea Testimonials



## Viticulture Specialists



// AgriSea Soil Nutrition - Foliar Nutrition is used in 65% of NZ vineyards. Grower comments for the Soil Nutrition is that the microbial activity has increased. With the AgriSea Foliar Nutrition the vines are healthier and less disease is occurring //

**Lindsay Wehipeihana**  
Agrisea Hort/Turf Manager



// Increasing numbers of Grape growers are recognising the benefits of incorporating Agrisea in their nutrition programmes. They find applying AgriSea Foliar and Soil products over the season improved vine health resulting in a better natural resistance and less susceptibility to disease attack. This makes for a better result not only in management but in yield. After all if you want to make Gold medal wines you need to use Gold Medal products to grow your grapes. AgriSea Foliar and Soil certainly make the grade so why would you use anything else. Easy to apply it can be incorporated into an existing spray programme and will enhance any nutritional programme that is already in place. //

**Mark Powick**



// I have been using the AgriSea products for almost 10 years now, the company are very easy to deal with, the products are consistent, easy to apply and help maintain and enhance the soil and canopy health. They play an integral part in the management of many of the vineyards that I'm associated with. //

**Bart Arnst, Marlborough Organics | The Darling Wines**



// I have been applying AgriSea Soil and Foliar products to my vineyard throughout the season. The magnesium deficiency is corrected and the bunches are much bigger than usual. My vines have benefited dramatically and I thoroughly recommend your products. //

**Duncan Smith, Plant Pathologist**  
Gisborne, DipAg, M.I.Biol., B.Sc(Hons), MSc

// Our relationship with AgriSea is an integral part of our management programme. We have been using the AgriSea soil and foliar nutrition for the last 6 seasons and have maintained excellent soil biology and strong healthy canopies. //

**Craig Julian, Quickpick Ltd Whakatane New Zealand**



# AgriSea

## How To Guide



**GRAPES:** Apply AgriSea Soil Nutrition @ 5L per ha (1:50) in the Autumn (April /May) and Spring (when soil warms) to encourage soil health and root development.

Apply AgriSea Foliar Nutrition @ 5L per ha. (1:100) at 20 cm cane

1st application at flowering (50% bloom)  
2nd application immediately post fruit set.  
3rd application 3 weeks post fruit set



**KIWIFRUIT:** 1st application – 7 to 10 days prior to flowering (this will aid flower and pollen development). 2nd application – Mid blossom or immediately post blossom. 3rd application – 14 days post blossom or in conjunction with leaf roller spray. Apply AgriSea Soil Nutrition to the weed strip soon after harvest to aid root mass/length and soil biological population. Rate - 5L / ha



**AVOCADOS:** Apply AgriSea Foliar Nutrition to trees @ 5L per ha in early spring and every 4 weeks after that either in conjunction with other sprays or on its own. Apply 2 applications , 4 weeks apart of AgriSea Soil Nutrition around root zone @ 5L per ha in Autumn.

- 1) To get good absorption leaf surfaces should be relatively free of wax – therefore applications of AgriSea Foliar Nutrition is likely to be more efficient when the leaf is young and soft – i.e. spring time
- 2) Seaweed products have good boron levels, therefore pollen viability is likely to be maximized if Foliar nutrient is applied during early flowering.
- 3) A second application of AgriSea Foliar Nutrition should be made at fruitlet stage where the cytokinins (natural plant growth hormones) will increase cell division and thereby produce larger fruit.

### Product Typical Analysis

**Minerals and Trace Elements (mg/L - ppm)**  
Nitrogen 54.16  
Calcium 74.84  
Copper 0.073  
Selenium 0.01  
Phosphorus 32.28  
Magnesium 157.6  
Manganese 0.67  
Zinc 0.86

Potassium 1650.91  
Sodium 1187.63  
Iodine 250.04  
Boron 2.854

Sulphur 207.83  
Iron 1.04  
Molybdenum 0.01  
Cobalt 0.07

#### Vitamins

Vitamin A, Vitamin C, Vitamin E, Folic Acid, Vitamins B1, B2, B3, B5, B12, Fucoxanthin, Choline

#### Amino Acids (μmol g dwt)

Aspartate 5.171  
Asparagine 1.141  
Serine 0.621  
Histidine 0.548  
Proline 0.683  
Arginine 0.583

Glutamate 0.747  
Glutamine 0.733

Phenylalanine 0.717  
Alanine 3.974

#### Cytokinins & Auxins

Trans-zeatin riboside, Trans zeatin, Indole Acetic Acid, Isopentenyladenosine, Isopentenyladenine

Phlorotannins 8-10% g dwt

Mannitol 3500 μmol g dwt



For your free, no obligation soil assessment, please contact your local AgriSea Field Agent or Customer Services on **0800 SEAWEED** who will arrange this for you.

## Top Customer Service

Ours is a partnership – we're committed to assisting you to reduce production costs while maintaining high production, high yields and high profits.

We'll partner you with a highly trained Area Field Consultant along with specialist Technical Advisors.

## Personal Guarantee

Our family stands behind our products. We promise to deliver high quality, effective products which will reduce your environmental footprint and add value to your farm.

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For more information or for your free, no obligation soil assessment please phone your Area Field Consultant or AgriSea Customer Services on 0800 SEAWEED.

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