



## Organic vs. Inorganic

**SEAWATER: The world's single source of nature's balanced vital elements.**

Hydrogen	Cadmium
Helium	Indium
Lithium	Tin
Beryllium	Antimony
Boron	Tellurium
Carbon	Iodine
Nitrogen	Xenon
Oxygen	Cesium
Fluorine	Barium
Neon	Lanthanum
Sodium	Cerium
Magnesium	Praseodymium
Aluminum	Neodymium
Silicon	Promethium
Phosphorus	Samarium
Sulfur	Europium
Chlorine	Gadolinium
Argon	Terbium
Potassium	Dysprosium
Calcium	Holmium
Scandium	Erbium
Titanium	Thulium
Vanadium	Ytterbium
Chromium	Lutetium
Manganese	Hafnium
Iron	Tantalum
Cobalt	Tungsten
Nickel	Rhenium
Copper	Osmium
Zinc	Iridium
Gallium	Platinum
Germanium	Gold
Arsenic	Mercury
Selenium	Thallium
Bromine	Lead
Krypton	Bismuth
Rubidium	Polonium
Strontium	Astatine
Yttrium	Radon
Zirconium	Francium
Niobium	Radium
Molybdenum	Actinium
Technetium	Thorium
Ruthenium	Protactinium
Rhodium	Uranium
Palladium	Neptunium
Silver	Plutonium

Source: Chemical Oceanography, Frank J. Millero, 2<sup>nd</sup> ed, 1996

Acknowledging that the methods and practice of organic cultivation are largely superior to those of modern industrial agriculture, it is the theory behind it that will be addressed in this short note. It is commonly understood that manure, compost and mulch sustains and vitalizes the microscopic life in the soil which in turn increases the nutritional uptake of plants. However, the fact that plants require nutrients (elements), to be available in their inorganic state, is often overlooked by organic farmers.

In stark contrast to animals, plants ingest inorganic nutrients, converting them (attaching a carbon atom) into organic matter that can be chewed and swallowed. Organic farmers must work hard, perhaps too hard, to replace the depleted elements, and feed the microbial ecosystem – which in turn converts organic to inorganic for ready assimilation by the plant roots.

Chemical farmers have capitalized on this fact by adding minerals and elemental compounds to the soil – bypassing the process of decomposition, and directly feeding the crops. Unfortunately, this inorganic feeding is woefully incomplete, inevitably disturbing the balance of elements and adversely affecting the plant's uptake of vital nutrients. These "inorganic" farmers are correct in theory; however, their practice is inadequate, and often detrimental to plants, soil and the environment.

Although the research has been slow, the importance of trace elements in plant and animal physiology cannot be discounted. Already, many elements have been proven to play a significant role in various enzymatic and metabolic processes. The emphasis on six or less macro elements (i.e. NPK) used in highly disproportionate concentrations has led to abnormal elemental absorption by the plant as well as improper nutrient substitutions. Likewise, most organic soil treatments fail to provide the full spectrum of macro and trace elements, as well as ignore the need to supply them in proper balance, consistency and proportion.

**OceanGrownCanada™ is dedicated to bridging the gap between the theory of "inorganic" and the practice of organic farming in order to grow food that will restore health and vitality to the plant and animal kingdom. OceanGrownCanada™ liquid concentrate nutrient (with a full complement of 90+ elements) is a perfectly balanced crystalloid solution, which should be acceptable to all growers, without compromising their principles or beliefs.**

# OceanGrown™ Solution

## Purity & Balance

Balance, consistency and proportion are the properties that best characterize OceanGrown's liquid concentrate nutrient Solution – a natural synergistic balance of elements that maintains a flawless consistency, desirable for a myriad of practical applications. Our mentor, Dr. Maynard Murray, tested seawater samples from all over the world, and never found any variations in their proportional balance.

Exclusive proprietary technology allows us to concentrate pure seawater without the use of heat, or chemical additives/stabilizers. Our inorganic crystalloid solution retains all 90+ elements in their proper ratios, and does not vary in consistency from batch to batch. The Solution also contains friendly aerobic bacteria and enzymes that help maintain purity and equilibrium.

Purity and balance means untouched and wholesome – OceanGrown™, makes great efforts to extract pristine ocean water from far offshore and away from possible sources of contamination. Coastal collection is no longer viable due to human pollution such as the dumping of toxic chemicals, agricultural run-off, fresh water skewing, disposal of sewage and anaerobic bacteria into the oceans.

Our test farm and hydroponics operation allows us to grow and analyze crops for nutritional content and disease-resistance. Constant monitoring and quality control provides growers with the very finest in plant nutrients.

## Open Pollinated Seeds

Open pollination occurs when birds, insects and other natural forces transfer pollen grains to fertilize the seed-producing ovaries of flowers. By using open pollinated seeds (including heirloom seeds), one becomes intimately involved in preserving the genetic diversity of plants.

When we save seeds from open pollinated plants, all of the desirable genetic traits (such as nutritional content and disease resistance) are retained and strengthened. As with humans, natural selection ensures that only the strongest seeds survive. These plants also provide growers with a degree of genetic flexibility useful when selecting seeds, and traits necessary for local adaptation.

Most seeds available today are either genetically modified or hybrids that have been bred to withstand (or even depend upon) the generous application of chemical fertilizers, pesticides and herbicides. These plants are bred not to reproduce, giving seed company's complete control of one of our most vital resources - seeds. The genetic diversity of most crops is being eroded quickly by this modern trend to 'engineer' seeds and plants.

## Message from Don Jansen

Farming for me is a humbling experience. I could say that I understand plant growth and crop production; however if I did, it would not be true. Working with soil and hydroponics farming over the last 25 years has taught me to observe and respect nature's incredible complexity. Plants, animals, insects, bacteria and fungi do their duty in spite of us. They fulfill their purpose in life without our assistance.

Dr. Murray shared his insights into how we can work with nature to provide plants with pure and balanced nutrition from the sea. Humans have been slow to realize that unless plants are healthy, animals and humans that consume them will lack energy and vitality.

Over the last several years, it seems that human consciousness, with regard to the sources of our nutrition and overall health, has increased dramatically. In the 1980's, I was unable to interest hardly anyone in what seemed to me to be one of today's most pressing issues. Now the time has come for Dr. Murray's long history of research and development, and my 20 years of experimentation and improvements, to be considered.

John Robbins in his latest book, *The Food Revolution* (2001), suggests that 1/3 of the women and 1/2 of the men in the U.S. will ultimately die of heart disease. This indicates to me that we must change our eating habits by avoiding animal fats, sugars and processed foods, but first we must alter the feeding of plants to include the full complement of properly balanced nutrients -- found only in the ocean.

# Why Wheat Grass?

Wheat grass and other cereal grasses are known as 'superfoods' because of their relatively high concentration of vitamins, minerals and amino acids; abundance of chlorophyll and powerful enzymes; and ability to transfer nutrients into the bloodstream. Various studies indicate that 8 ounces of wheat grass juice is enough to meet our daily nutritional needs. Wheat grass has the unique property of balancing your body's PH, regardless of whether you are acid or alkaline.



In laboratory tests, wheat grass fed with OceanGrown™ Solution was found to contain 60+ elements including 21 amino acids that were 5 times more concentrated than any other OceanGrown™ vegetable tested. Easy to grow – a harvest time of 7-10 days allows for continual production and consumption with minimal effort as described below:

"I have followed a vegan diet, and been a daily consumer of fresh vegetable/fruit juices for the last several years – but I had not been consuming wheat grass juice. After growing, juicing and consuming my own wheat grass for the last three weeks (4-8oz of juice daily), I have noticed a significant difference in three areas: weight control, appetite suppression, and energy.

**First, at age 55, even with eating right and exercising, I have noticed a tendency for my weight to creep up past my ideal of 170lbs. Since drinking wheat grass juice daily, my weight has stabilized at 170. Second, I don't eat as much, and have noticed an absence of cravings. The wheat grass juice seems to satisfy my nutritional demands. Third, I have noticed a welcome change in my energy level. I don't get drowsy during the day and seem to need a bit less sleep.**

---

When growing my wheat grass for juicing, I have watered it with OceanGrown™ Solution, and can only theorize that the additional minerals in the Solution are 'empowering' the wheat grass. I plan to make wheat grass juice (grown with OG Solution) a regular part of my nutrition regimen."

William Kruidenier, Charlotte, NC

**For More Information Please Visit:**

**[www.OceanGrownCanada.com](http://www.OceanGrownCanada.com)**



[www.oceangrowncanada.com](http://www.oceangrowncanada.com)