Food Production for Our Modern World
Bio-Mineral Soil Reconditioning for Sustainable Farming

Nutrient Cycle

Why do the great forests of the world grow? The question may seem irrelevant to food production on today's farms but the fact is that the answer to food production for the foreseeable future of Planet Earth is given to us by the continuous growth of our global forests. In the forests the plants are fed by the ground using the symbiotic relationship between the microbial community within the ground and the plants. No one needs to fertilize or feed the plants because that task is being done by themselves and their microbial partners. This is the Nutrient Cycle. The primal mineral micro-nutrients are continuously recycled in the growth and decay of the forests facilitated by the trillions of micro-organisms involved in the process. This process is efficient because it has been going on for 10 million years.

Harvesting of Nutrients

The feeding of populations clustered in large metropolitan areas requires the harvesting of millions of tons of produce from vast farmlands. This practice interrupts the Nutrient Cycle removing the nutrients from the farmlands to supply nutrients to the population. As this happens season after season the farmland is depleted of the primal nutrient values which then must be replaced. Over the past 60 years these nutrients have been supplied by using synthetic fertilizers which provide the nutrients for growth of the plants but which do not sustain the soil. Over time the soil loses its ability to grow plants on its own without the need for more synthetics. This practice is unsustainable and has caused our current condition of not being able to supply the growing population with food.

Primal Nutrients for Sustainable Production

Sustainable food production requires that farmlands be regenerated with a source of Primal Nutrients. These nutrients go beyond the standard NPK thinking and processes. They come from the bedrock of the planet and represent the origin of Primal Nutrients that are what the forests live on and what is needed in farmlands to complete the Nutrient Cycle. They regenerate the soil and feed the microbial community that has gone dormant with the use of synthetic fertilizers. Using naturally occurring micro and macro Primal Nutrients is the answer to food production for now and the foreseeable future. They will

be what feeds the growing populations of Earth.

Source of Primal Nutrients

Unwittingly the miners of the gold and silver mining eras provided us with millions of tons of the raw material necessary to produce the needed Primal Nutrients for today's food production. Plant Nutrition Technologies, Inc. takes the raw mine and mill waste and processes it into a complete soil bio-mineralizing and regenerative fertilizer. Lab results show that this material provides the needed micro and macro nutrients to feed the microbial community which then provides all the needed nutrients to the plants for optimum growth and production. Not only is the produce of the highest quality but carries the Primal Nutrients to the consumers. By feeding the soil we feed the microbial community that inhabits the soil which feeds the plants. These microbes provide better nutrition to the plants than anything humans can produce in a chemical plant. We are completing the Nutrient Cycle.

Trials and Results

At Plant Nutrition Technologies' gardens we have spent 4 years growing produce using our three products; PowRoc, BioRoc, and RocTea. Each of these products carries the full nutrient value to the soil. Our food production has not been scientifically monitored so our test results are simply the result of growing produce using no other means of nutrient supply other than these three products. Our citrus trees of lemons and oranges have grown the best fruit we have ever experienced. Our tomatoes, cucumbers, and squash have done the same.

In discussions with growers we find a ready and willing market looking for a source of nutrients for their farmlands which will eliminate their need for synthetic fertilizers. The Grower-Shipper Association of Central California and the Western Growers Center for Innovation and Technology confirm this. No other company to date has produced a product that provides the nutrients needed to sustain the farming communities of this planet.

The American Academy of Microbiology states that sustainable farming through the feeding of the microbiome is the ONLY way to feed the population growth.

The United Nations confirms this. In tests of 12 million farms in 50 countries sustainable farming showed an increase of 79% in crop yields. Current land under cultivation can sustain the planet simply by adopting better nutrient sources for the microbial community.

At present we have trials of BioRoc being done by Church Brothers Produce. Their experience to date as stated by them is that the results are the same as their standard fertilizer. We do not have a written report from them yet. They want to continue with more trials because of the increased microbial activity in their soil.

We also have trials of BioRoc being done by Yamamoto Almond Growers and

Recology Almond Orchards and these also have yet to be reported on.

We are at present working to produce more product for use in further trials on several more farms in the Gilroy, Salinas, and Monterey farming regions.