

Markets and Application Rate

The dry granular product provides for easy application and can be stored inside, outside, covered or uncovered.

Application rate depends on soil needs but recommended rate is 2-4 tons per acre.

Horticulture

N-Viro Soil™ can be aged and blended with other materials like peat to produce a soilless growth media that is comparable to commercial materials.

School of Natural Resources, The Ohio State University

Pasturing

Amendment of N-Viro Soil™ provided a large amount of Ca and K in the soils resulting in increased uptake of Ca and K in plant tissues, especially in ryegrass, a pasture plant. University of Florida, Institute of Food and Agricultural Science (IFAS)

Citrus

N-Viro Soil™ signature slow-release nitrogen and secondary nutrients, particularly magnesium, manganese, copper and boron, are excellent for citrus growers. Agronomic Effectiveness of Newly-Developed N-Viro-Based DPR Fertilizers in Citrus Production System, University of Florida, Zhejiang University

Wild Blueberries

The presence of soil moisture coupled with organic decomposition in N-Viro Soil™ resulted in more availability of soil macronutrients for plant uptake. Applied Soil Science

Summer Cover Crops

N-Viro Soil™ provides a good source of nitrogen and other elements needed by crops to produce high yields. The residual effect of cover crops and organics can carry over at least one cropping cycle and profoundly improve the physical and chemical properties as well as soil fertility. HortTechnology, University of Florida

ALL IN ONE N-VIRO SOIL™

Integrated Plant Nutrition System

Organics Improve Soil Properties

Minerals Supply Plant Nutrients



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N-Viro Soil™ Customer Reviews

Dale Barnes
Barnes Fertilizer Hastings, Florida
Potatoes, Pasture and Sod Production

“I have had tremendous results using the N-Viro Soil™ on my potatoes, pasture and in sod production. It has really helped the root growth and increased the production on my sod. I had used N-Viro Soil™ on one particular field where I tested the CEC at 3.4 and after a couple years of application the CEC went up to 8.2.”

Linton Fielder
Hay Producer Port Orange, Florida

“Last April I used N-Viro Soil™ on one-half of my coastal Bermuda field and none on the other half. On the half I used N-Viro I cut four rolls per row and on the untreated half I only cut one and a half. Works very good!”

Earl Byrd
TW Byrd and Sons Branford, Florida
Pasture, Hay, Sorghum, Cattle and Dairy

“The N-Viro Soil™ has helped stabilize my soil and balance the nutrients. It really worked well on my grassland in the wet areas.”

Chico Carbajol
Farm Manager
Kirkland Sod Inc. New Smyrna Beach, Florida

“We used N-Viro Soil™ on our sod farm for 15 years and have not used any lime and cut back on the commercial fertilizer. We were able to save money and increase production.”

A Better Root In Every Plant

The State of Florida has the largest total acreage of wet sandy soil on Flatwoods landforms in the nation. The soil is characteristically low in organic matter, nutrients, moisture-holding ability and packed particles reduce the number and size of pore spaces.

Agriculture is a very important industry in Florida. The state is ranked number one in the nation in the sale of oranges, grapefruit, fresh tomatoes, watermelon and sugarcane.

Good agricultural management stabilizes the soil with the addition of a balanced fertilizer and a supply of organic microbial matter for better yields and increased profits.

The N-Viro Soil™ fertilizer is an *all in one* plant nutrition system that creates balance and improves fertilizer efficiency. It is a true pasteurized product and is formulated using a patented process that has a microbial content of approximately 15-20%. Plants using N-Viro Soil™ had higher concentrations of nitrogen in the tissues, lower concentrations of mineral cations and higher contents of chlorophyll in the leaves.

Ability to Adjust pH and Increase Nutrient Retention

No other single chemical soil characteristic is more important in determining the chemical environment of plants and soil microbes than the soil pH. The calcium carbonate in N-Viro Soil™ is insoluble in water and this property gives it its ability to buffer soil pH when added to soil. Soil reactions between carbonates and organic matter increase the holding capacity of nutrients.

Nematode Control on Acid Soils

N-Viro Soil™ controls plant-parasitic nematodes in acid or poorly buffered soils. The quantity of organic microbes generating ammonia required for nematode control is less in alkaline soils.

Bioactive Fertilizer for Agricultural Management

In addition to organics, N-Viro Soil™ contains calcium carbonate and has a CCE of 28-35% of standard agricultural limestone with neutralizing properties and a similar rate of reactivity.

When soil has favorable physical conditions for growing plants, it has good tilth.

N-Viro Soil™ is a fine textured soil and is dominated by fine pores and available water-holding capacity that makes it highly permeable, even when compacted. It improves soil structure and overall tilth. Many other important physical and chemical soil properties are enhanced by the addition of N-Viro Soil™.

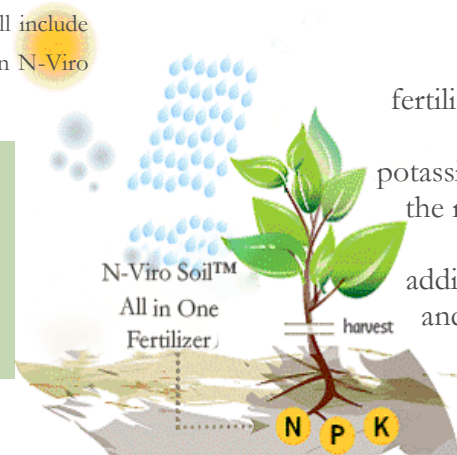
The microscopic flora and fauna in our soils gives soil its fertility; otherwise it is just dirt.

N-Viro Soil™ makes a remarkable difference to overall soil fertility. Organics improve soil properties and minerals supply plant nutrients. Organic microbes are the major binding agents for optimum soil structure.

N-Viro Soil™ contains 14-16% total organic carbon, which corresponds to 15-20% organic matter. As organic matter is decomposed, the microbes use 75% of the carbon for energy and the remaining 25% of the carbon is used to form tissue. The organic nitrogen in N-Viro Soil™ is converted to plant-available forms by soil microorganisms after field application. Nitrogen is available to plants but at a slower rate than commercial fertilizers. In the end, a good agricultural management program will include all the primary, secondary and micronutrients available in N-Viro Soil™.

N-Viro Soil™	
Florida Department of Agriculture	
License # F-1759	
Grade (0.6-0-0.4)	
Guaranteed Analysis	
Total Nitrogen.....	0.60%
Water Soluble Nitrogen.....	0.042%
Water Insoluble Nitrogen.....	0.558%
Available Phosphate (P2O5).....	0.40%
Derived from Biosolids/Fly Ash	

Nutrients	Range	N-Viro Soil™ Benefits
Nitrogen	10-12 lbs/ton	Mineralizes nitrogen at 15-20% Total Kjeldahl Nitrogen (TKN) within 30 days
Phosphorus	6-10 lbs/ton	Provides soil structure that decreases leaching
Potassium	4-6 lbs/ton	Potassium is 100% available for plant uptake
CCE	28%-35%	Insoluble form can buffer soil pH
Calcium	200-250 lbs/ton	Finely ground and improves cation exchange rate
Magnesium	5-7 lbs/ton	Replaces lost magnesium in deficient Florida soils
Sulfur	25-29 lbs/ton	Sulfur oxidized to plant-available form during first year
Iron	11-14 lbs/ton	Available in ferrous forms for easy uptake
Manganese	0.1 lbs/ton	Acts as enzyme activation for nitrogen
Boron	0.1 lbs/ton	Held in organic matter released by microorganisms
Zinc	0.4 lbs/ton	Deficiencies can be brought on by excessive liming
Copper	0.14 lbs/ton	Availability enhanced by CCE and organic matter
Molybdenum	0.01 lbs/ton	Availability increases with soil pH
Total Organic Carbon	14-16%	Total organic carbon influences nutrient holding capacity, water relations and overall soil tilth.
Organics	15-20%	Improves with age as microbial decomposition occurs
Biologicals	5,409,600 per lb	The living part of N-Viro Soil™
Solids Content	55%-65%	Increases after application and drying



In good agricultural management, balanced fertilization includes a supply of nitrogen, phosphorus and potassium in line with soil needs, the requirements and expected yield of the crop, with the addition of magnesium, sulfur and organic microbial matter.

N-Viro Soil™
All in One Fertilizer