

PhotoGreen® Soil



ADVANCED IRON NUTRITION



PhotoGreen® Soil is a premium, soil-applied iron and manganese product built with a proprietary blend of FBS Transit®, our patented technology, along with various organic compounds that mobilize these compounds in the soil and support chlorophyll formation and photosynthesis for long-lasting green-up. PhotoGreen Soil helps nutrients by-pass soil tie-ups by promoting the rapid uptake, absorption, and translocation of nutrients within the plant. PhotoGreen Soil is designed to resolve iron and manganese deficiencies in all crops such as tree nuts, vineyards, fruit, vegetable, grain, and forage crops.

- Resolves Lime-Induced Fe & Mn Chlorosis, Resulting in Quick & Long-Lasting Green-Up
- Supports Chlorophyll Formation
- Resolves Chlorosis
- Supplies Readily Available Iron for Plants
- Resolves Iron & Manganese Deficiency



Chlorosis on almond trees before PhotoGreen Soil treatment



Almond trees after PhotoGreen Soil treatment

PhotoGreen Soil Resolves Iron Deficiencies

Symptoms of Iron Deficiency include:

- Chlorosis in New Leaves
- Abnormal Discoloration
- Fruits & Old Leaves Drop Prematurely
- Twig Die Back
- Stunted Growth
- Stunted Roots



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TECHNICAL INFORMATION

The nutrient and organic compounds in PhotoGreen® Soil address iron and manganese deficiencies that are commonly present in most soils with higher pH.

Importance of Iron in Plants

Iron (Fe) is essential in the plant's formation of chlorophyll which gives the plant its healthy green color and is essential for photosynthesis. Iron is the key to electron transfer in both photosynthesis and respiration. Iron is also an important cofactor in other enzyme driven processes like protein synthesis.

Importance of manganese in Plants

Manganese (Mn) plays a key role in chlorophyll production. Because it is used to split the water molecule during Photosynthesis it is essential for plant health. Manganese also activates more enzymes than any other nutrient. It is especially important in the production of proteins that are part of the plant's natural defenses against disease.

Root Exudates are naturally produced by the plant in order to absorb soil minerals. Plants may have difficulties producing them under adverse conditions. However, the PhotoGreen Soil formulation not only assures the plants' ability to get full use of the iron and manganese, it also allows the plant to absorb other minerals in the soil such as zinc, calcium and potassium.

RECOMMENDATION & COMPATIBILITY

For orchards and vineyards apply 1-6 quarts per acre any time during the growing season. Repeat as needed. For all other crops apply 1 to 4 quarts per acre any time during the growing season. Repeat as needed.

PhotoGreen Soil should be applied as a soil application. For growers interested in foliar applications please ask about foliar applied PhotoGreen® Foliar. May be applied in combination with other FBSciences micronutrient technologies such as Zicron® Soil and Copron® Soil.

Tank mix compatibility is impacted by water quality which may vary by location. DO NOT mix in concentrated form with any other tank additive without first adding water. Recommended mixing sequence: water, adjuvants, pesticides, FBSciences nutrient products, other fertilizers, balance of water while agitating. When mixing with high phosphate fertilizers, add a citric acid buffer until the pH is 4.5 to 5.0 to improve compatibility and uptake. Ensure agitation is available when mixing with calcium fertilizers. A standard jar test is recommended before tank mixing.

See product label for complete Directions For Use.

GUARANTEED ANALYSIS

Sulfur (S)	3.0%
Iron (Fe)	5.0%
Manganese (Mn)	1.0%

Derived from: ferrous sulfate and manganese sulfate.

Net Weight

10.7 lbs per Gallon @ 68° F

1.3 kgs per Liter @ 20° C

ESSENTIAL ON A WIDE VARIETY OF CROPS

