

# GROW MORE

## PRODUCT INFORMATION

**For Agriculture  
or  
Horticulture Use**

# ROOTPLEX

## 0-1-5

### Guaranteed Analysis

Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	1.0%
Soluble Potash (K <sub>2</sub> O) .....	5.0%
Iron (Fe) .....	3.0%
Algae Extract .....	9.0%

Density: 10.32 lbs./gallon (1.239 Kgs./Liter)

# ROOTPLEX

## IRON

### Guaranteed Analysis

Iron (Fe) .....	3.0%
Algae Extract .....	14.0%

Density: 9.57 lbs./gallon (1.148 Kgs./Liter)

## DIRECTIONS

Rate of growth color and time of the year will determine rate and frequency of application.

**COMMERCIAL TURFGRASS AREAS:** Use 1/2 to 3 ozs. per 1,000 sq. ft. (15 to 85 cc per 92 sq./ms) in sufficient water for full coverage (10-20 gallons or 38 to 75 liters). For backpack spray, use 1 tablespoon (15 cc) per 4 gals (4 liters) of water.

**NEW SOD OVERSEEDING:** Use 2 to 3 ozs. (57 to 85 cc) per 1,000 sq. ft. (92 sq. ms.) at time of installation or at germination.

**HYDROSEEDING:** Use 1 to 2 quarts per acre, add to the hydro-mulching mix (2.2 to 4.5 liters per hectare).

**COMMERCIAL NURSERIES, GREENHOUSES:** Use 1 to 2 pints in 50 to 500 gallons of water per acre (1.1 to 2.2 liters in 454 to 4,542 liters per hectare). Higher dilution rates are recommended for full coverage sprays. For smaller areas: use 1 tsp. to 1/2 oz. in 1 to 12 gallons of water per 1,000 sq. ft. (5 to 15 cc in 3.7 to 45 liters of water per 92 sq. ms.). May be applied to contains plants and native soil grown trees, shrubs in landscape.

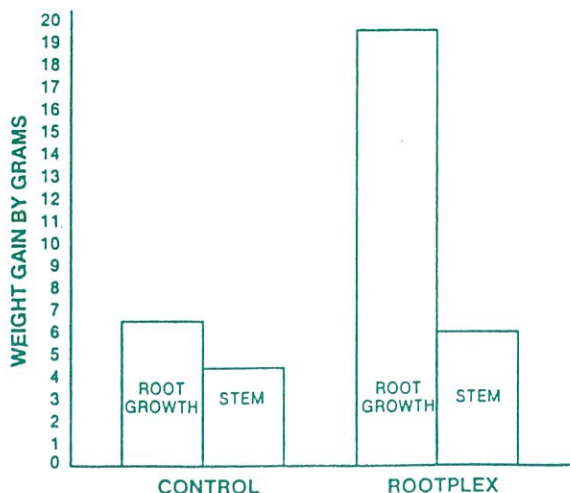
**AGRICULTURE FRUIT & NUT TREES:** Dilute 1 part Rootplex with 100 parts water, apply as full coverage spray.

**ROOTING/TRANSPLANT SOLUTIONS (Agriculture or Horticulture):** Use 1 to pints in 100 gallons of water (473 to 946 cc in 380 liters for use at time of transplanting, root ball or basin drench or root dip.

**COMPATIBILITY:** When diluted may be used in combination with most commonly used pesticides, fungicide and herbicides. Perform a jar test prior to using previously untried combination.

### MODE OF ACTION - Synergistic

The use of ROOTPLEX is not limited to turf grass, but has been shown to be very effective in agricultural application as well. Frequent low dose concentrations have provided the best results. Both agricultural and horticultural growers that are accustomed to using low level N-P-K are skeptical about the claimed results. However, when one considers the multitude of mineral elements, organic substances, low-level biologically active compounds, and active plant , then it become clear to the grower that the mode of action is synergistic.



## SPECIAL FUNCTIONS:

- Foliar Feeding - field, vegetable, fruit crops and horticultural crops
- Enhance seed germination - seed inoculant
- Increase plants resistance - drought disease & production stress
- Improve vigor - enhance chlorophyll production

**DIRECTIONS:** Use as a foliar spray applied by itself or in combination with other liquid or water soluble fertilizers or pesticides.

**AGRICULTURAL FOLIAR APPLICATION RATES:** Dissolve in water before using. Apply as a full coverage spray:

- Fruits & Nut Trees : Use 5 to 12 ozs. per acre. Dissolved in 50 to 100 gals. of water.  
 Field & Vegetable Crops : Use 12 ozs. per acre. Dissolved in 50 to 100 gals. of water.

**TYPICAL ANALYSIS RANGE** - Rootplex Iron • Rootplex 0-1-5 slight lower analysis

## MICRONUTRIENTS:

Nitrogen (N)	0.10-0.38%	Calcium (Ca)	0.88-2.60%	Chlorine (Cl)	0.24-0.48%
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	0.10	Magnesium (Mg)	0.41-0.88%	Sodium (Na)	0.28-0.40%
Potassium (K <sub>2</sub> O)	0.96	Sulfur (S)	1.70-2.00%		

## MICRONUTRIENTS:

Boron (B)	9.60-12.0 ppm	Copper (Cu)	0.48-1.8 ppm	Manganese (Mn)	1.20- 6.0 ppm
Cobalt (Co)	0.12- 1.3 ppm	Iron (Fe)	18.00-30,000 ppm	Zinc (Zn)	4.20-12.0 ppm
Plus trace amounts of :		Aluminum	Tin	Nickel	Vanadium
		Barium	Chromium	Titanium	(Plus: 29 other trace elements)
		Beryllium	Iodine	Selenium	
		Cadmium	Molybdenum	Strontium	

## PLANT GROWTH COMPOUNDS:

Auxin : 0.12-0.14 grams per gal.      Cytokinins : Approx. 100 ppm  
 I.A.A. : 0.22-0.26 grams per gal.  
 (Gibberlin activity)

## CARBOHYDRATES, PROTEIN & ORGANIC ACIDS:

Mannitol	1.0%	Crude Protein	0.48-1.2%	Ash	2.0-2.6%
Alginate Acid	3.5%	Crude Fiber	0.6 -1.2%	Other Sugars	6.0%

## VITAMINS:

Vitamin E	0.24- 4.20 mg/100g	Folic Acid	0.04 ppm	Thiamine	0.14- 0.29 ppm
Biotin	0.02- 0.09 ppm	Niacin	2.50-4.00 ppm	Vitamin C	12.00- 240.00 ppm
Carotene	3.00-10.00 ppm	Riboflavin	1.00-2.00 ppm		

## PLUS TRACE AMOUNTS OF AMINO ACIDS:

Alanine	Cystine	Isoleucine	Ornithine	Threonine
Arginine	Glycine	Leucine	Phenylalanine	Tryptophane
Aspartic Acid	Glutamic Acid	Lysine	Proline	Tryosine
Citulline	Histidine	Methionine	Serine	Valine