



**PLANT  
FOOD**  
COMPANY, INC.

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**Guaranteed Analysis:**

Boron (B) Chelated..... .020%  
Cobalt (Co) Chelated..... .005%  
Iron (Fe) Chelated..... .100%  
Manganese (Mn) Chelate..... .050%  
Molybdate (Mo) ..... .005%  
Zinc (Zn) Chelated ..... .050%

**Non-Plant Food Ingredients**

Total Humic and Fulvic Acid..... . 14.0%  
    4.1% Fulvic Acid  
    8.2% Humic Acid  
    1.2% Humin  
    .5% Ulmic Acid  
L-Amino Acid Substrates\*..... 44.5%  
Soluble Kelp Extract..... 2.5%  
    Contains Auxin, Cytokinin, Gibberellen Hormone  
Plant Metabolites (Intermediate)\*\* ..16.5%  
Carbohydrates..... 3.0%  
Sarsaponins (Natural Wetting Agent)..... 1.0%

Derived from the following: Leonardite, Humic Acid(s), North Atlantic Kelp Extract, Simple and Complex Carbohydrates, Hydrolyzed Fish Emulsions, Sarsaponins (Natural Wetting Agent), Colloidal Mineral Extracts, Organic Chelated Micronutrients of Boron-Cobalt-Copper-Iron-Manganese-Zinc, and Polycofermented Extracts of Yeast, Fungii and Soil Bacteria.

- Weight per gallon : 8.8lbs.
- pH: 7.0

**Adams Earth**  
**Biostimulant**

**AdamsEarth®** is an organic blend of humic and amino acids, North Atlantic kelp extract, natural sugars, vitamins and other organic compounds. The organic nutrients in **AdamsEarth®** will aid in the improvement of soil structure, rooting, and the uptake of N-P-K and minor elements.

**AdamsEarth®** contains several different sources of organic matter which will break down at varying times during the growing cycle, providing a longer period to aid in microbial feeding.

**AdamsEarth®** is a unique combination of humic acid, biostimulants, and micro-nutrients. The humic acid will assist in chelating nutrients tied up in the soil. North American kelp improves rooting caused by auxin, cytokinin, and gibberellen hormones. The micronutrients will aid in the correction of soil deficiencies that may be caused by imbalances due to low or high pH.

Some of the Benefits from **AdamsEarth®** includes:

- Improved rooting mass with top growth.
- Chelating nutrients tied up in soils, such as phosphates and iron.
- Increase in microbial activity.
- Increase in plant vigor and chlorophyll production.
- Improve heat and cold tolerance.

Use **AdamsEarth®** when one or more of the following occurs:

- Pre Stress Conditions
- High Stress
- High Salts
- Traffic and Wear
- High Disease Pressure
- Poor Rooting
- Insect Damage
- Drought Conditions
- Compaction and Poor Drainage
- Poor Soil Structure

**Application Rate for AdamsEarth®**

Fluid Ounces/ 1000 sq.ft.	Gallons/ one acre	ML/ 1,000 sq.ft.	Boron/ 1,000 sq.ft.	Copper/ 1,000 sq.ft.	Iron/ 1,000 sq.ft.	Manganese/ 1,000 sq.ft.	Zinc/ 1,000 sq.ft.	Humic & Fulvic Acid/ 1,000 sq.ft.	L-Amino Acids / 1,000 sq.ft.	Carbohydrates/ 1,000 sq.ft.
2 oz.	0.7 Gal	59 ML	0.0001	0.0001	0.0001	0.0001	0.0001	0.0190	0.0612	0.0041
3 oz.	1.0 Gal	89 ML	0.0001	0.0001	0.0002	0.0001	0.0001	0.0289	0.0918	0.0062
4 oz.	1.4 Gal	118 ML	0.0001	0.0001	0.0003	0.0001	0.0001	0.0385	0.1224	0.0083
6 oz.	2.0 Gal	177 ML	0.0001	0.0002	0.0004	0.0002	0.0002	0.0577	0.1836	0.0124
9 oz.	3.1 Gal	266 ML	0.0001	0.0003	0.0006	0.0003	0.0003	0.0866	0.2753	0.0186

**L-Amino Acid Substrates\***

L-Alanine..... 538 Mg/Lb  
L-Arginine..... 546 Mg/Lb  
L-Glycine..... 345 Mg/Lb  
L-Hydroxyproline..... 285 Mg/Lb  
L-Isoleucine..... 354 Mg/Lb  
L-Leucine..... 558 Mg/Lb  
L-Lysine..... 575 Mg/Lb  
L-Methionine..... 103 Mg/Lb  
L-Phenylalanine..... 300 Mg/Lb  
L-Serine..... 338 Mg/Lb  
L-Threonine..... 351 Mg/Lb  
L-Tryptophan..... 73 Mg/Lb  
L-Tyrosine..... 316 Mg/Lb  
L-Valine..... 452 Mg/Lb

**Plant Metabolites (Intermediate)\*\***

**Vitamins**  
B-1..... 16 Mg/Lb  
B-2..... 16 Mg/Lb  
B-6..... 16 Mg/Lb  
B-12..... 25 Mg/Lb  
Biotin..... 100 Mg/Lb  
Choline..... 160 Mg/Lb  
**Minerals**  
Calcium..... 500 Mg/Lb  
Phosphorus..... 216 Mg/Lb  
Iodine..... 120 Mg/Lb  
Magnesium..... 250 Mg/Lb  
Potassium..... 350 Mg/Lb  
Selenium..... 25 Mg/Lb



# Adams Earth

## Biostimulant

### Farm Application Rates

Open Fields ..... 1-2 gallons per acre  
 Bedding Plants..... 3-6 ounces per 1,000 square feet  
 Transplanting..... 24 ounces per 100 gallons of solution

### Trees & Shrubs

Deep Root Injection ..... 32 ounces to 64 ounces per 100 gallon tank mix  
 Diameter at Breast Height..... 2 ounces per caliper inch

### Nursery Transplants

**Potting-repotting:** Dilute Adams Earth Organic Soil Amendment 1:100 in water to a 1% Solution and apply as a drench before or after repotting.

**Stress Recovery:** Drench stressed or poorly rooted plants with a 1% Solution of Adams Earth. For root diseased plants, apply with or after fungicide treatment. Repeat every 2-4 weeks as needed.

**Bare Root Plantings:** soak seedlings in a 1% Adams Earth solution for a minimum of 2 minutes before planting. One gallon of Adams Earth will treat approximately 20,000 one to two year old seedlings.

Summer lifting after trenching, drench root ball with a 1% Adams Earth solution one to two days before lifting. Use one to two gallons of solution per caliper inch.

### GREENHOUSE AND NURSERY USE INSTRUCTIONS

#### Greenhouse Transplants, Bedding, and Potted Foliage Plants

##### Seeding trays

Dilute Adams Earth Organic Soil Amendment 1:100 in water to a 1% Solution (1 oz. Per 3 qt water=10,000 ppm) and drench the plant trays after seeding.

##### Seedling Plugs

Drench trays with a 1% Solution of Adams Earth after the first true leaves form.

##### Bare Root Dip

Dip cuttings in a 1% Solution, then plant.

### IRRIGATION INJECTION RATIO CHART

AdamsEarth	Daily 300 ppm	Weekly 2,500 ppm	Bi-Weekly 5,000 ppm	Monthly 10,000 ppm
Injector Ratio	Fluid Ounces of Adams Earth	per gallon of stock solution		
1:300	12.0	92.0	-	-
1:200	7.5	62.0	124.0	-
1:150	6.0	46.0	92.0	-
1:100	4.0	30.0	60.0	128.0
1:50	2.0	15.0	30.0	64.0
1:30	1.5	9.5	19.0	40.0
1:15	.75	5.0	9.5	20.0
1 Fluid oz = 2 tablespoons	1 Fluid oz = 6 teaspoons	1 teaspoon = .16 oz		

### PPM Rates

10,000 ppm - Drench solution for initial transplanting or seeding

300 ppm - Follow up rate with daily injection

2,500 ppm - Follow up rate with weekly injection

5,000 ppm - Follow up rate with bi-weekly injection

10,000 ppm - Follow up rate with monthly injection

### Tank Mixing:

Prior to any fertilizer of pesticide application, all spray mixing and application equipment must be cleaned. A quality tank cleaner is recommended. Carefully observe all cleaning directions on the pesticide and fertilizer label. Fill the spray or mix tank at least ¾ full of water and begin agitation. Add pesticides and/or fertilizers as directed by labeling or in the following sequence: **1) Dry flowables or water dispersible granules, 2) Wettable powders, 3) Flowables, 4) Emulsifiable concentrates, 5) Water based solutions, 6) Compatibility agents, 7) Micronutrients and fertilizer, 8) Spray adjuvant**

Before mixing multiple chemicals and/or fertilizers in the tank, confirm product compatibility by performing a jar test. Be sure to mix with plenty of water.

### Caution:

Keep away from children and domestic animals. Avoid contact with eyes, open cuts, or sores. Harmful if swallowed. External: Flood with water. Internal: Induce vomiting. Contact a physician immediately.

### Storage and Handling:

Store in a cool, dry place. Keep container tightly closed. Do not add water or other material to the container. Do not contaminate water, food, or feed by storage or disposal. Do not store near acids or other acidic materials.

Store above 40° Do Not allow to freeze