



**ADVANCED CROP & NUTRITION**  
**SIOUX CENTER, IOWA**



**GARDEN, LAWN,  
& LANDSCAPE  
PRODUCTS**

# ABOUT US

Advanced Crop and Nutrition is an industry leader in soil, crop, and livestock consulting. Our goal is to educate producers and growers with knowledge and understanding, for the future health and vitality of the soil, plants, and animals, as well as make top quality, all-natural products available to achieve these goals.

In our travels, farmer meetings, one-on-one discussions, and connecting opportunities we have been asked many times..."what about the gardener, landscaper, or hobby farmer, what do you have for them?" We have heard you, and we are glad you asked. You inspired us to look at what we are doing in large scale farming, and build the products that fit your needs. If you are a home gardener, backyard farming for profit, landscaper/lawn care business person, or a full-time producer of fruits and vegetables marketed through a CSA program, farmers market, or directly to a restaurant, we have what you are looking for.

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At ACN we are dedicated to stewardship of the land and believe the biology and health of your soil will be crucial to nutrient utilization, water conservation, and healthier, more productive plants enabling you to produce a higher quality product while being mindful of our neighbors and the environment.

Proprietary, natural technologies are alive in ACN products. We produce products that are safe and healthy for the soil, plants, animals, producers, and consumers, today and in the future.

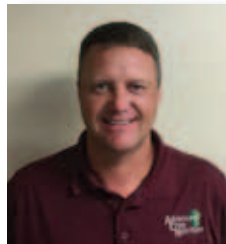
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# ACN DRY MINERAL GARDEN BLEND

Healthy plants start with healthy soil. You can't have one without the other, and healthy soil is much more than just fertilizer. There are many components to a healthy soil, and they are all important. Healthy soil consists of a balance of both microorganisms and minerals, with organic matter and other nutrient sources. A well-tended soil can grow healthy plants, year after year, without the need for extensive artificial chemical additives.

ACN Dry Mineral Garden Blend contains a proprietary combination of natural microorganisms, organic material, and naturally-derived minerals, especially trace minerals. We focus on 70 or more trace elements, with the necessary biological microorganisms required to bring the minerals to the plants. Our trace minerals activate and control the critical defense and repair systems of the plant, leading to greater disease resistance and natural pest control mechanisms.

While minerals are essential for the plants, almost all minerals in the soil are insoluble and are not available for the plants to use. The only way for plants to access the minerals is through the soil's biological elements. That is why we include live microbes in our Dry Mineral Garden Blend. By augmenting the soil's existing biology with our additional microbes, we are able to make more minerals available to the plants and thereby increase the plant nutrition and health.

Greater nutrition for the plants, healthier plants, healthier you. It's that simple!

## How To Use

Broadcast ACN Dry Mineral Garden Blend over your garden at a rate of 2 pounds/100 sq. feet. Till immediately into the soil. You can also apply in-furrow, before you plant your seeds. If applying in-furrow, use at a rate of 1 pound/100 sq. feet. Place at the bottom of the furrow before you put in the seeds, then plant the seeds and cover immediately. You can use the same process for seedlings or other plant starts. Once in the soil, our microbes go to work digesting the minerals and releasing them again in a form the plants can use, creating a better growth environment for the young plants.

## Package Size

25 #

50 #

Bulk (1,000 lb. Minimum)

**Note:** For best results, you can supplement the soil nutrition with our ACN Super Foliar Garden Blend, the vegetative equivalent of a multi-vitamin with minerals.



# RAPID

RAPID seed treatment fits the name. The ingredients in this product promote fast seedling growth and enhanced root growth. RAPID will increase the number of plants growing from the soil, and a well known fact is, more emergence = more yield. RAPID will get you all that you can get from each bag of seed.

## Dry Biological Seed Inoculant

Combination of Soil Biology Boost and dry Bio-Release

### Soil Biology Boost

- Contains mycorrhizal fungi
- Colonizes roots
- Boosts biology in rhizosphere
- Improves nutrient availability

### Mycorrhizal Fungi Benefits

- Enhanced seedling growth
- Enhanced root growth
- Efficient water and nutrient uptake
- Increased drought and stress tolerance

### Bio-Release

- Reduces nutrient tie up in the soil
- Enhances nutrient availability in the soil

### Application

- Cover seed generously



# ACN SUPER FOLIAR GARDEN BLEND

Growing plants need lots of nutrition throughout their lifespan. Healthy soils can provide a great start with good ongoing support for the plants, but almost all plants can use a boost. Just like people periodically need nutritional supplements for optimal health, so do plants. Our ACN Super Foliar Garden Blend provides those extra nutrients that make the difference between good plants and great plants.

ACN Super Foliar Garden Blend is a special combination of plant-soluble minerals and nutrition designed specifically to be absorbed through the plant leaves. This includes minerals, enzymes, amino acids, growth stimulators, vitamins, antioxidants, and more! When applied regularly throughout the growing season, it maximizes the plant performance and health by providing the right nutrition at the right time.

Just as people need balanced nutrition for a healthy life, so do plants. Healthy plants have strong and active immune systems, helping them resist disease. Healthy plants that are nutritionally complete actively repel insects (insects like weak plants). Healthy plants also grow healthy food, with a full complement of nutrients designed to give your body maximum benefit.

Give your plants the nutrition they need to reach their full potential while increasing both the quality and quantity of your harvest.

## How To Use

Spray a fine mist of ACN Super Foliar Garden Blend, diluted at a ratio of 1 oz. /gallon of water, directly onto your plants at least twice/month during the growing season for maximum health and production. (For very young plants use ½ oz. /gallon of water.)

## Package Size

8 fl. oz.

1 pt.

1 qt.

2 qt.

1 gal.

For best results, you should start your plants and seedlings with a sprinkling of our ACN Dry Mineral Garden Blend.





# BULK-R

## General Information:

Bulk-R contains natural growth promoters, enzyme precursors, and nutrients that stimulate a plant's photosynthetic reactions, causing the plant to 'bulk-up' the seeds or the fruit it produces, increasing test weight and yield.

## Bulk-R

- Can be used with all plant types and should be foliar applied at a rate of 1 gallon per acre, 30 to 40 days before harvest.
- Should NOT be applied with any other mineral based or plant nutrient product.

**Aerial Application:** Apply the recommended amount of Bulk-R in a minimum of 3 gallons water per acre.

**Foliar Application:** Apply the recommended amount of Bulk-R in at least 10 gallons water per acre.

**Potatoes and Sugar Beets:** Apply 1 gallon per acre, 30 to 40 days prior to harvest.

**Row Crops:** Apply 1 gallon per acre at early filing stage.

**Field and Vegetable Crops:** Apply at the rate of 1 gallon per acre at post-bloom or early fruiting.



# ACN WEARY GRASS & ACN HEALTHY GRASS

## ACN WEARY GRASS

Sometimes Mother Nature is hard on things. When your grass/lawn looks weary it needs our ACN Weary Grass Feed.

*For sick lawns, apply the following once each month and shift to Healthy Grass as the lawn improves.*

- **Sick Grass** (10-2-6 + Fe, Mn, Zn)  
6-9 oz./1000 sq. feet
- **Bio-Release** – 1.5 oz./1000 sq. feet

## ACN HEALTHY GRASS

When you want that "WOW" lawn you want to apply our ACN Healthy Grass Feed.

*For healthy lawns, apply the following once each month:*

- **Healthy Grass** (15-1-1 + Fe)  
6-9 oz/1000 sq. feet
- **Bio-Release** – 1.5 oz/1000 sq. feet





# ACN FLOWER FOLIAR & BIO-RELEASE

## ACN FLOWER FOLIAR

This product will make your flowers dance in the sunlight, and the neighbors will be in awe of the beauty.

For flower beds, apply the following once each month:

- Flower Foliar (4-2-4 + Traces) – 0.5 oz/1000 sq. feet

## BIO-RELEASE

Bio-Release is a fertilizer and soil additive. It is a biologically produced compound that reduces nutrient tie up in the soil, prevents chemical interaction of positive and negative charged ions, and releases otherwise unavailable plant nutrients.

We recommend Bio-Release mixed with many of our liquid products. Bio-Release is the “winner” in biological balance.

- In-furrow or side-dress at 1 to 2 qt. per acre to release unavailable soil nutrients.
- Bio-Release – 1.5 oz/1000 sq. feet





# ACN COMPOST FERTILIZER

Give your plants what they want. ACN Compost is one of the most important ingredients to sustainable food production, returning structure and health to the soil, as an environmentally safe way to fertilize.

**#1- ORGANIC MATTER:** Use of ACN Compost Fertilizer with our added proprietary blend of Compost Tea (which includes live/active bacteria, fungi, and protozoa) adds organic matter resulting in:

- Healthier soil
- Better moisture retention
- Better infiltration; less run off

**#2- HEALTHIER PLANTS AND PRODUCE:** ACN Compost helps correct deficiencies in our soils.

- Higher levels of most nutrients
- Slow release nitrogen
- Other available micronutrients that plants need

**#3- ENVIRONMENTAL QUALITY**

- Weed seed free
- Reduced pathogens
- Builds biology health in your soil

**#4- HUGE RESULTS!**



# ACN DRY MINERAL TREE BLEND

Healthy trees start with healthy soil. You can't have one without the other, and healthy soil is much more than just fertilizer. There are many components to a healthy soil, and they are all important. Healthy soil consists of a balance of both microorganisms and minerals, with organic matter and other nutrient sources. A well-tended soil can grow healthy trees, year after year, without the need for extensive artificial chemical additives or pesticides.

ACN Dry Mineral Tree Blend contains a proprietary combination of natural microorganisms, organic material, and naturally-derived minerals, especially trace minerals. We focus on 70 or more trace elements, with the necessary biological microorganisms required to bring the minerals to the trees. Our trace minerals activate and control the critical defense and repair systems of the tree, leading to greater disease resistance and natural pest control mechanisms. Healthy trees don't attract detrimental bugs.

While minerals are essential for the trees, almost all minerals in the soil are insoluble and are not available for the trees to use. The only way for trees to access the minerals is through the soil's biological elements. That is why we include live microbes in our Dry Mineral Tree Blend. By augmenting the soil's existing biology with our additional microbes, we improve the biosphere within the tree's root zone. The reinforced biology digests more minerals, makes them available to the trees and increases the tree nutrition and health. Greater nutrition for the tree, healthier growth, healthier fruit, healthier you. It's that simple!

## How to use

Apply 1 pound of Dry Mineral Tree Blend for each 1" of trunk diameter (e.g. 8" trunk = 8# of Tree Blend). Put the Tree Blend below the soil surface, surrounding the tree, between the trunk and the drip line. The microbes will proliferate in the root system, digesting the minerals and releasing them again in a form the trees can use. Application should be made in the spring and the late summer.

## Package Size

25 #	50 #	Bulk (1,000 lb. Minimum)
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### Dry Mineral Tree Blend Application Rates

The general application rate for the Dry Mineral Tree Blend is 1 lb. for every inch of trunk diameter. However, as the trees increase in size, the quantity drops a bit. For convenience, we usually measure out by cups, prepackage and apply according to the following tables:

Packaging Volume:	Weight: (In lbs.)	Trunk Diameter	Pack Qty.	Pack Weight	Total Weight	Distribution Pattern (O is the Trunk)
1 cup	0.6	1-2"	2	0.6 lbs.	1.2 lbs.	- O -
2 cups	1.2	2-4"	4	0.6 lbs.	2.4 lbs.	: O :
3 cups	1.8	4-6"	4	1.2 lbs.	4.8 lbs.	: O :
4 cups	2.4	6-8"	5	1.2 lbs.	6 lbs.	. : O :
6 cups	3.6	8-10"	6	1.2 lbs.	7.2 lbs.	. : O : '
8 cups	4.8	10-12"	4	1.8 lbs.	7.2 lbs.	: O :
		12-16"	6	1.8 lbs.	10.8 lbs.	. : O : '
		16-20"	5	2.4 lbs.	12 lbs.	. : O :
		20-30"	4	3.6 lbs.	14.4 lbs.	: O :
		30-40"	5	3.6 lbs.	18 lbs.	. : O :
		40-50"	4	4.8 lbs.	19.2 lbs.	: O :
		50-60+"	5	4.8 lbs.	24 lbs.	. : O :







— **PLACE YOUR ORDER TODAY!** —

**CALL ALAN DYKSHORN AT : (712) 441-0686**

