SPECIALTY PRODUCTS GUIDE

The Andersons®

- PUREGRADE®
- MICROSOLUTIONS®
- SELECT NUTRIENTS
- SOIL AMENDMENTS

ROOTED IN QUALITY, SERVICE, AND TECHNOLOGY

With a focus on quality, service, and technology, The Andersons strives to provide products designed to make work easier, more efficient, and most effective to achieve the highest yields. From a broad range of fertilizers, micronutrients, soil amendments, and organic nutrients, to patented products and technologies, we are committed to delivering next-generation solutions with the highest level of quality and customer service in the industry.

The Andersons, Inc. was founded in 1947 in Maumee, Ohio, and is currently a fifteen billion dollar corporation (NASDAQ:ANDE). The company also conducts business in the commodity merchandising and renewable sectors.

STEWARDSHIP AND SUSTAINABILITY

The Andersons has long recognized that operating sustainably is essential to achieving our vision of being the most nimble and innovative North American ag supply chain company.

We are an active participant and partner of the 4R Nutrient Stewardship program. The 4Rs provide a fertilizer application framework focused on using the Right Source of nutrients at the Right Rate, at the Right Time, and in the Right Place, maximizing crop uptake of nutrients while minimizing nutrient loss.

The Andersons is also aligned and active with the ResponsibleAg organization. ResponsibleAg is an industry-led stewardship organization helping to ensure members are compliant with environmental, health, safety, and security regulations.

Visit **AndersonsPlantNutrient.com/AgSustainability** to learn more about The Andersons initiatives to drive stewardship and sustainability in the communities we serve.

4R nutrient stewardship

Responsible AG

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Subscribe to our YouTube Channel for product videos, market updates, mixing videos, and more! @AndersonsPlantNutrient

PROVEN BY RESEARCH

The Andersons works to guarantee our products provide excellent and consistent performance on the farm as well as deliver a positive return on investment. To ensure this, we perform numerous field trials each year to evaluate effectiveness, rates, timing, and more.

Research trials are managed through multiple channels including third-party research sites, on-farm trials through independent dealers and distributors, Beck's Hybrids, and Precision Planting. Results from these trials are published in our own Research Guide.

To view our Research Guide, visit **AndersonsPlantNutrient.com/AgResearch.**

PFR PROVEN™

BECK'S

"For a product or practice to become PFR Proven, it needs to have been tested for a minimum of three years at multiple locations, it must provide a positive yield gain each year, and it must average a positive return on investment over the three-year period."

- Beck's PFR Book 2024, page 11

THE ANDERSONS PFR PROVEN PRODUCTS						
	PUREGRADE® DIAMOND 6-24-6	**MICROCARB®**	**FIRST PASS® WITH MICROCARB®**	**MICROBLITZ®**	**PHOSFIX®**	**KORRECT®**
Crop	Corn	Corn	Soybeans	Soybeans	Corn	Corn
Average Return on Investment*	$12.78	$11.44	$9.19	$16.70	$5.45	$7.38
Average Yield Increase	8.2 bu/ac	4.0 bu/ac	2.7 bu/ac	1.9 bu/ac	2.8 bu/ac	2.7 bu/ac
Application	5 gal in-furrow	1 qt in-furrow	2 gal in-furrow	1 qt at R1	1 pt at V4	1 gal at R1

Average Return on Investment was calculated using the methods highlighted in the Beck's 2020 PFR Book (page 9). Corn: $3.72/bu. Soybeans: $9.13/bu. Return on Investment = Bu/A difference x commodity price/bu – treatment cost.

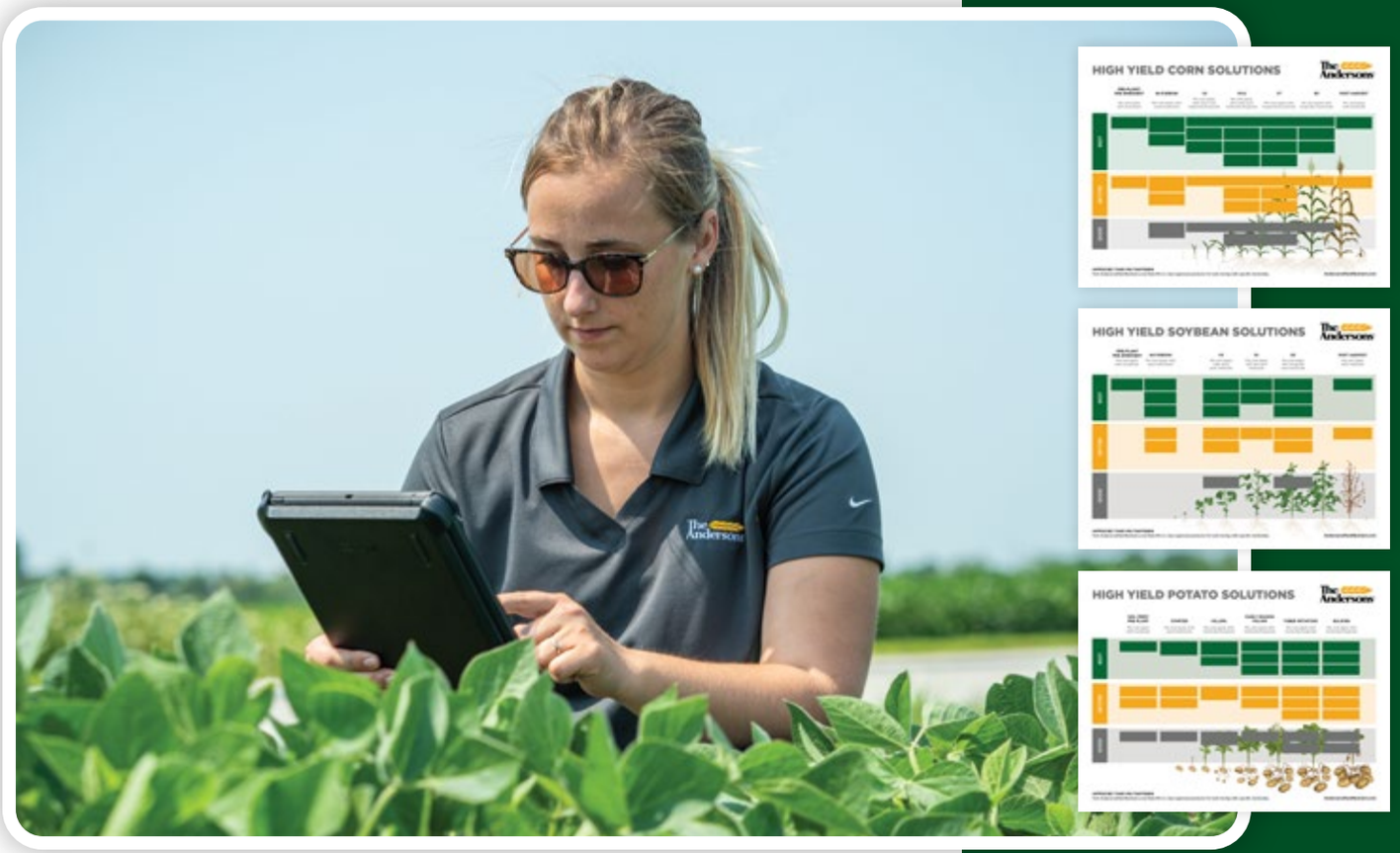
CREATE A SEASON-LONG APPROACH

Get ahead with solutions created by agronomists at The Andersons. Our team identified what specific crops need throughout the growing season and created flexible programs designed to meet budget and nutritional needs at various growth stages to maximize yields.

Download High Yield programs at **AndersonsPlantNutrient.com/HighYield**.

HIGH YIELD SOLUTIONS AVAILABLE FOR:

- Aerial Fertilizer Applications
- Corn
- Canola
- Cucurbits
- Durum Wheat
- Dry Beans
- Oats
- Potatoes
- Soybeans
- Sugar Beets
- Tomato
- Wheat
- *More available online!*



NUTRIENT ROLES

PRIMARY NUTRIENTS | SECONDARY NUTRIENTS | MICRONUTRIENTS | CARBON

Primary nutrients, secondary nutrients, micronutrients, and carbon are essential for crop development. Each is important to the plant, yet required in vastly different amounts.

NITROGEN (N)
- Promotes chlorophyll production which is essential for photosynthesis
- Increases protein content
- Moves to root surfaces for absorption due to its mobility

PHOSPHORUS (P)
- Captures and converts the sun's energy
- Stimulates root development
- Increases stalk and stem strength
- Improves flower formation and seed production

POTASSIUM (K)
- Enhances enzyme actions aiding in photosynthesis
- Produces grains rich in starch
- Increases root growth and improves drought tolerance
- Reduces water loss and wilting

CALCIUM (Ca)
- Helps form cell walls to strengthen the plant
- Stimulates root and leaf development
- Affects uptake and activity of other nutrients

MAGNESIUM (Mg)
- Acts as a phosphorus carrier
- Improves root growth
- Required for better root formation and thus better nutrient/water efficiency

SULFUR (S)
- Exists in every living cell
- Important in photosynthesis and winter crop hardiness
- Required for synthesis of certain amino acids and proteins
- Necessary for efficient nitrogen fixation in legumes

Source: CropNutrition.com

BORON (B)
- Improves seed set under stressful conditions
- Aids in development of cell walls to increase plant stability

COPPER (Cu)
- Not easily accessed due to its immobility in the soil system
- Necessary to chlorophyll formation
- Catalyzes several other plant reactions

IRON (Fe)
- Acts as an oxygen carrier in nodules of legume roots
- Performs as a catalyst to chlorophyll formation

MANGANESE (Mn)
- Plays vital role in photosynthesis by aiding in chlorophyll synthesis
- Required in higher amounts by soybeans and wheat

MOLYBDENUM (Mo)
- Essential to enzyme systems as a component of plant growth
- Required in larger amounts by legumes due to the symbiotic bacteria living in their root nodules

ZINC (Zn)
- Decreases in availability as soil pH increases
- Aids in synthesis of plant-growth substances and enzyme systems
- Promotes certain metabolic reactions

CARBON (C)
- Encourages a healthy soil system by increasing the cation exchange capacity (CEC), water holding capacity, and improving aeration
- Facilitates the movement of nutrients into the crop more efficiently than fertilizer alone
- Provides food for the microbiome in the soil system

CARBON

THE KEY TO HEALTHY SOIL

Carbon is one of 17 essential elements required by plants for optimal growth.

Carbon is essential for healthy soil, sustainable agricultural production as well as air and water quality. When carbon becomes depleted in the soil system, it leads to a low cation exchange capacity (CEC), increased erosion, reduced water holding capacity, and loss of soil structure.

According to the USDA, "The most practical way to enhance soil health today is to promote better management of soil organic matter or carbon (C)."

Carbon can be applied to fields to offset the depletion caused by increased production and conventional farming practices.

The Andersons provides several products that help to increase organic matter, sequester carbon in the soil, and increase nutrient use efficiency. Each product delivers a unique carbon source to soils and crops, either in the form of humic and fulvic substances, a type of microbial food source, or a robust microbial package.

Source: USDA: Manage for Soil Carbon

CARBON SOLUTIONS

The Andersons offers a wide range of carbon products to fit varying needs and application methods.

PUREGRADE® LIQUID FERTILIZERS
Season Pass® with MicroCarb®
Season Pass® Plus with MicroCarb®

MICROSOLUTIONS®
- MicroBlitz®
- MicroCarb®
- Fulvic LQ™
- Sweet 'N Eezy®
- UltraMate® LQ
- UltraMate® Zn
- MicroMark® DG Humic

SOIL AMENDMENTS
- Humic DG™
- Black Gypsum DG®
- K-Mate SG™

HIGHLY VERSATILE

EASY TO HANDLE

CLEAN , PURE, TRUE SOLUTIONS

PureGrade® Liquid Fertilizer

SAME FIELDS, HIGHER YIELDS®

PureGrade liquid fertilizer is a line of low-salt, chloride-free liquid fertilizer grades that are high in orthophosphates and may be safely used in close proximity to seeds, roots, and foliage for better fertilizer efficiency.

LOW-SALT STARTERS

PureGrade low-salt starters are field proven, trouble free, and seed safe. When placed near the seed, essential nutrients go to work immediately, powering seedlings toward maximum production. The Andersons offers three base grades for low-salt starters: Diamond, GoldStart®, and Premium.

LOW-SALT FOLIARS

The Andersons offers several foliar fertilizers to best meet your needs. Foliar applications should be made prior to stressful physiological plant stages or anytime a crop is recovering from environmental stresses such as nutrient deficiencies, weather extremes, or insect and disease attacks.

SLOW RELEASE NITROGEN

Our slow release nitrogen products provide different release patterns to best fit crop needs. These products can be foliar-applied to correct nitrogen deficiencies and extend the nitrogen release period.

ENGINEERED FOR SEED SAFETY AND PERFORMANCE

PureGrade liquid fertilizers checks all the boxes for in-furrow success. Unlike some other formulations, PureGrade avoids ingredients that could release harmful NH_3 in the furrow. When choosing a starter fertilizer for in-furrow placement, look for these six characteristics:

1. Low salt index
2. High water solubility
3. Balanced N, P, and K with a high P concentration
4. Both urea and ammonium forms of nitrogen
5. Minimal potential for NH_3 release
6. Potassium phosphate as the K source

STORAGE AND CLEANING GUIDELINES FOR LOW-SALT FERTILIZER TANKS

AndersonsPlantNutrient.com/Tank-Guidelines

BASE GRADES

Including PureGrade liquid fertilizer in your program will ensure your crop has the nutrients needed to reach its full potential. PureGrade low-salt starters are the best choice for maximizing yield potential.

Diamond, GoldStart, and Premium are the base grades from which our products are formulated. All grades are low salt, non-corrosive, and compatible with most pesticides. These grades provide varying orthophosphate content allowing growers to choose the product that best fits their fertility and investment needs.

DIAMOND BLENDS
100% ORTHOPHOSPHATE

GOLDSTART® BLENDS
80/20 ORTHO/POLYPHOSPHATE

PREMIUM BLENDS
50/50 ORTHO/POLYPHOSPHATE

Power Pass® TECHNOLOGY

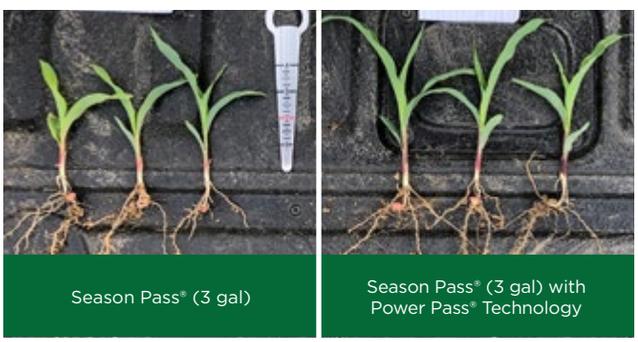
Power Pass technology is a dual action patent-pending technology. It not only increases crop performance but also aids in enhancing storability for select low-salt starter fertilizers.

AVAILABLE IN SELECT PUREGRADE® PRODUCTS:

Season Pass® with MicroCarb®

Season Pass® Plus with MicroCarb®

**Ask about including with other Diamond and GoldStart® products*



Season Pass® (3 gal) | Season Pass® (3 gal) with Power Pass® Technology

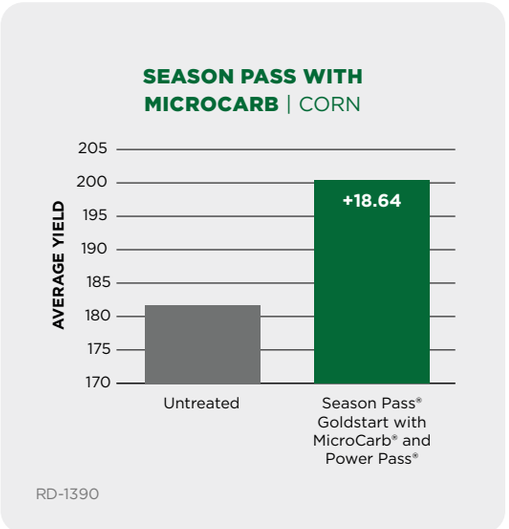
Research Summary: In a Walton, Indiana research trial, corn plants treated with Power Pass technology were notably larger and one growth stage ahead compared to those without. The plants treated with Power Pass technology had greater emergence, with 2,000 more plants per acre compared to Season Pass alone.

Season Pass®

SEASON PASS WITH MICROCARB®

Season Pass with MicroCarb features essential nutrients and carbon to maximize early-season growth. The addition of carbon increases soil cation exchange capacity, improving nutrient availability. The use of Season Pass with MicroCarb encourages quicker crop emergence, growth, crop maturity, and dry down.

Research Summary (Right): In Illinois in 2024, Season Pass GoldStart with MicroCarb and Power Pass was applied at a rate of 5 gal/acre in-furrow. Compared to the untreated check, Season Pass GoldStart with MicroCarb and Power Pass yielded and 18.64 bu/acre advantage at harvest.



PUREGRADE® LOW-SALT STARTERS

Click here to explore PureGrade Liquid Fertilizers on our website.

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
DIAMOND BLENDS | 100% ORTHOPHOSPHATE							
Season Pass® with MicroCarb® 6-18-6 + 1.0 S, 0.05 Zn	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	10.6	11
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
Season Pass® Plus with MicroCarb® 6-18-6 + 1.0 S, 0.46 Zn	Specialty Crops	Soil	3-8 gallons	1	At planting	10.8	11
Season Pass® with MicroCarb® and Power Pass® 6-18-6 + 1.0 S, 0.05 Zn	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	10.7	7
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
Season Pass® Plus with MicroCarb® and Power Pass® 6-18-6 + 1.0 S, 0.46 Zn	Specialty Crops	Soil	3-8 gallons	1	At planting	10.7	7
First Pass® 3-5-15 + 0.2 Mn	Soybeans	Soil	3-10 gallons	1	In-furrow or 2x2 at planting	10.4	1
		Foliar	1-3 gallons	Multiple, as needed	With pesticide spray		
9-18-9	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.1	0
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
3-18-18	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.7	-1
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
6-24-6	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.0	10
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
Also available: 10-10-10, 10-15-10, and custom blends	Corn/Soybeans/ Specialty Crops	Soil	Varies	1	In-furrow or 2x2 at planting	Varies	Varies

Most products can be used on row and specialty crops such as fruits and vegetables.
See label for other crop application recommendations. Always follow label instructions.

Visit AndersonsPlantNutrient.com/Agriculture for complete labels and product sheets.

PUREGRADE® LOW-SALT STARTERS

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
GOLDSTART® BLENDS | 80%/20% ORTHO/POLYPHOSPHATE							
Season Pass® with MicroCarb® 6-18-6 + 1.0 S, 0.05 Zn	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	10.8	8
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
Season Pass® Plus with MicroCarb® 6-18-6 + 1.0 S, 0.46 Zn	Specialty Crops	Soil	3-8 gallons	1	At planting	11.2	8
Season Pass® with MicroCarb® and Power Pass® 6-18-6 + 1.0 S, 0.05 Zn	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	10.8	9
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
Season Pass® Plus with MicroCarb® and Power Pass® 6-18-6 + 1.0 S, 0.46 Zn	Specialty Crops	Soil	3-8 gallons	1	At planting	10.9	10
RoMax® 8-18-4 + 0.05 Cu, 0.2 Fe, 0.05 Mn, 0.75 Zn	Corn	Soil	3-6 gallons	1	In-furrow or 2x2 at planting	10.9*	10
	Specialty Crops	Soil	3-8 gallons	1	At planting		
6-24-6	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.2*	10
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
3-18-18	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.7*	-1
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
Also available: 9-18-9, 6-22-2, 7-22-5-2, and custom blends	Corn/Soybeans/ Specialty Crops	Soil	Varies	1	In-furrow or 2x2 at planting	Varies	Varies
PREMIUM BLENDS | 50%/50% ORTHO/POLYPHOSPHATE							
9-24-3	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.1*	5
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
7-24-4	Corn	Soil	4-6 gallons	1	In-furrow or 2x2 at planting	11.1*	11
	Soybeans	Soil	2-5 gallons	1	In-furrow or 2x2 at planting		
	Wheat	Soil	10-12 gallons	1	In-furrow or 2x2 at planting		
	Specialty Crops	Soil	3-8 gallons	1	At planting		
Also available: 7-29-5, 5-20-5, 6-24-6, and custom blends	Corn/Soybeans/ Specialty Crops	Soil	Varies	1	In-furrow or 2x2 at planting	Varies	Varies

REBATE PROGRAMS AVAILABLE

The Andersons offer planter equipment and tank rebate programs to stimulate growth with our partners of choice. **Contact your territory manager to learn more and find out if you qualify.**

*Weights may vary based on manufacturing location.

OVER PASS® WITH KOR TECHNOLOGY 22-0-2

Over Pass 22-0-2 with KOR Technology is a chloride-free foliar product that contains 25% slow release nitrogen to extend absorption and minimize any leaf interaction. The slow release nitrogen provides 10-14 days of nitrogen feeding. Over Pass 22-0-2 with KOR Technology also contains potassium, sulfur, and boron to enhance overall crop performance.

OVER PASS® WITH KOR TECHNOLOGY 10-2-10

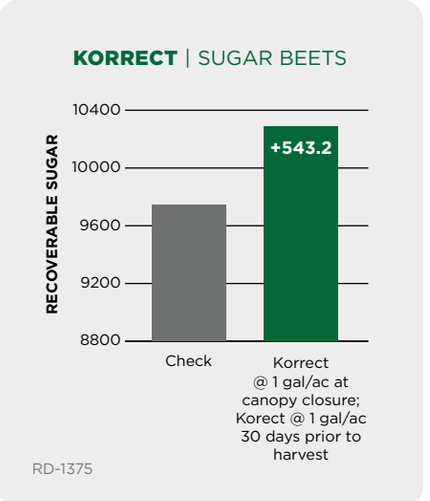
Over Pass 10-2-10 with KOR Technology contains 25% slow release nitrogen to feed the crop for 10-14 days. Over Pass 10-2-10 aids the plant during the stressful reproductive stage of bloom. In addition to the nitrogen, Over Pass 10-2-10 with KOR Technology also provides potassium, boron, and manganese which are vital for crop production.

KORRECT®

Korrect is a highly available, mild form of potassium which is well suited for foliar or soil application. Korrect is safe for foliar application without risk of burn. It contains a natural organic carrier which enhances its receptivity by plants.

Research Summary (Above): In 2022 in Minnesota, Korrect was foliar applied to sugar beets at a rate of 1 gal/acre. The application of Korrect was made at canopy closure and again 30 days prior to harvest. The foliar application resulted in an increase of 543.2 lbs of recoverable sugar per acre at harvest compared to the check.

PFR PROVEN™ BECK'S



PUREGRADE® LOW-SALT FOLIARS

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
LOW-SALT FOLIARS							
Over Pass® 22-0-2 with KOR Technology 22-0-2 + 1.0 S, 0.5 B (25% SRN)	Corn	Foliar	1-3 gallons	1-2	First @ V5-V6 with herbicide; second @ pre-tassel with fungicide	10.1*	-7
	Wheat	Foliar	1-2 gallons	1-2	Tillering through flowering		
	Specialty Crops	Foliar	1-2 gallons	1-2	At flowering		
Over Pass® 10-2-10 with KOR Technology 10-2-10 + 0.5 B, 0.25 Mn (25% SRN)	Soybeans	Foliar	1-2 gallons	2	First @ V3-R1 with herbicide; second @ R1-R4 with fungicide	10.3*	-1
	Specialty Crops	Foliar	1-2 gallons	1-2	At flowering		
Korrect® 3-0-20	Corn/Soybeans	Soil	1-2 gallons	1	In-furrow or 2x2 at planting	10.5	-80
		Foliar	2-8 quarts	Multiple, as needed	With pesticide spray		
	Specialty Crops	Soil	1-2 gallons	1	Part of complete program		
		Foliar	1-8 quarts	Multiple, as needed	With pesticide spray		
Korrect® Plus 3-0-15 + 1.0 Mn, 0.25 B	Soybeans	Soil	2-4 quarts	1	At planting	10.5	-80
		Foliar	2-4 quarts	Multiple, as needed	With pesticide spray		
	Specialty Crops	Soil	1-2 gallons	1	Part of complete program		
		Foliar	1-2 quarts	Multiple, as needed	With pesticide spray		
Custom Blends	Corn/Soybeans	Foliar	Varies	Varies	Varies	Varies	Varies
SLOW RELEASE NITROGEN							
Super 72® 28-0-0 (72% SRN)	Corn/Soybeans	Foliar	3-5 gallons	Multiple, as needed	As needed	10.7*	0
	Specialty Crops	Foliar	1-3 gallons	Multiple, as needed	As needed		
Super 25B® 25-0-0 + 0.5 B (25% SRN)	Corn/Soybeans/ Specialty Crops	Foliar	1-2 gallons	Multiple, as needed	As needed	10.0*	0

Most products can be used on row and specialty crops such as fruits and vegetables. See label for other crop application recommendations. Always follow label instructions.

Visit AndersonsPlantNutrient.com/Agriculture for complete labels and product sheets.

*Weights may vary based on manufacturing location.

APPROVED TANK MIX PARTNERS

Visit **AndersonsPlantNutrient.com/Tank-Mix** to view approved products for tank mixing with specific herbicides.

HIGHLY VERSATILE

EASY TO HANDLE

CLEAN, PURE, TRUE SOLUTIONS

MICROSOLUTIONS®

HARNESS THE POWER OF MICROSOLUTIONS®

MicroSolutions micronutrients are versatile, easy to handle, and compatible with various fertilizers, herbicides, and insecticides. Made from the highest quality raw materials, these solutions ensure superior uptake and optimal plant health.

OUR LINEUP INCLUDES:

MICRONUTRIENT-BASED SOLUTIONS to prevent or correct nutrient deficiencies.

PLANT & SOIL HEALTH SOLUTIONS with humic acids, microbials, and other compounds to enhance crop vigor and stress tolerance.

CHELATED SOLUTIONS (EDTA & CITRIC) for improved nutrient availability in foliar and soil applications.

POLY-COMPATIBLE SOLUTIONS formulated for seamless mixing with ammonium polyphosphate (APP).

GRANULAR MICRONUTRIENTS deliver essential nutrients for long-lasting soil and plant health.

NEW! AERIAL APPLICATION SOLUTIONS

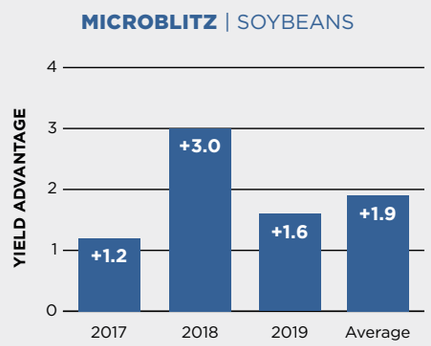
Aero™ aerial application solutions from The Andersons are designed for efficient application via drone, airplane, or helicopter. These low-use-rate formulas deliver performance without compromise.

MICROBLITZ®

MicroBlitz aids in the relief of plant stress. It is a micronutrient blend including fulvic acid for enhanced efficiency, and it may be applied with herbicides.

Research Summary (Right): In the Beck's Practical Farm Research trials, MicroBlitz was foliar-applied to soybeans at a rate of 1 qt/acre at the R1 growth stage. This treatment was tested over a three year period. Each year, the treatment yielded a positive advantage over the check, earning MicroBlitz the PFR Proven stamp.

PFR PROVEN™ BECK'S



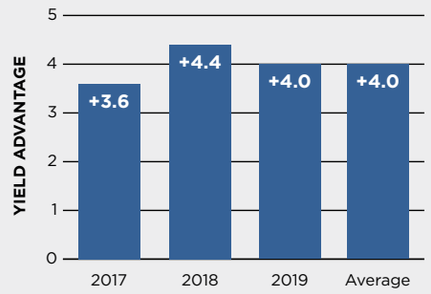
PFR-2019

MICROCARB®

MicroCarb contains carbon substances from vegetable origin that increase soil cation exchange capacity, improving nutrient availability. MicroCarb should be used at planting or foliar applied early in the season for maximum agronomic benefit.

Research Summary (Right): In the Beck's Practical Farm Research trials, MicroCarb at a rate of 1 qt/acre was applied with starter in-furrow. This treatment was tested over a three year period. Each year, the treatment yielded a positive advantage over the check, earning MicroCarb the PFR Proven stamp.

PFR PROVEN™ BECK'S

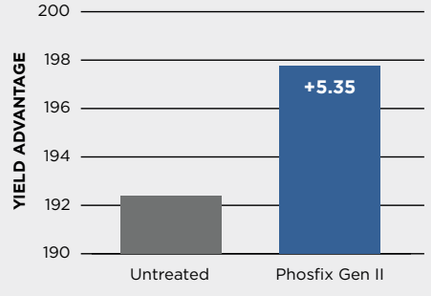


PFR-2019

PHOSFIX® GEN II

Phosfix is a powerful combination of macro and micronutrients with growth and plant enhancers that improve yield and profit by enhancing crop vigor and crop health. Phosfix contains plant growth regulators including cytokinin, gibberellic acid, and auxins that help with cell division, cell elongation, and cell differentiation, respectively.

Research Summary (Right): In Illinois in 2024, 1 pint per acre of Phosfix Gen II was foliar applied at V5. Compared to the untreated check, Phosfix Gen II yielded an average 5.35 bu/a advantage at harvest.



RD-1388

NEW! AERIAL APPLICATION SOLUTIONS

Aerial applications via airplanes, helicopters, or drones are a tool that growers can utilize to apply nutrients and pesticides to a crop quickly and efficiently. With fewer passes across a field than through traditional application methods, these applications offer swift and targeted coverage over expansive fields.

BENEFITS OF AERIAL FERTILIZER APPLICATION

- Saves time and money with field passes that can be simply customized for each part of the field
- Variable rate application that allows for fertilizer application amounts to change throughout a field to accommodate various crop nutrient needs
- Precision application targets problem areas in fields, minimizing drift and maximizing efficiency for both fertilizers and pesticide application
- Nutrients can be applied to crops when they most need them, optimizing plant uptake and reducing nutrient loss.

AERO PRODUCT LINE-UP

Designed by our team of precision agriculture experts, the Aero™ lineup of products from The Andersons was developed to be applied at a low-use rate without sacrificing product performance.

AERO-*Mino*

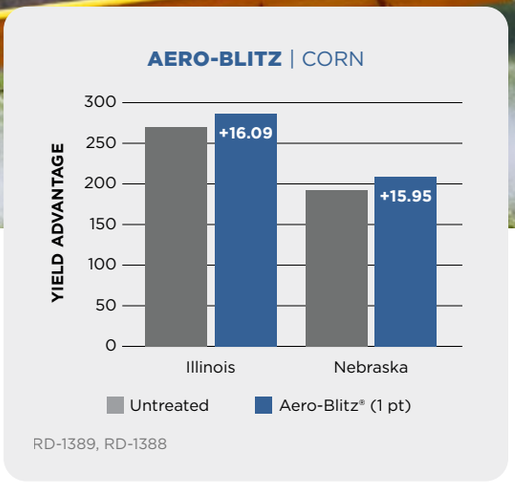
8-0-0 WITH AMINO ACID

AERO-*Blitz*

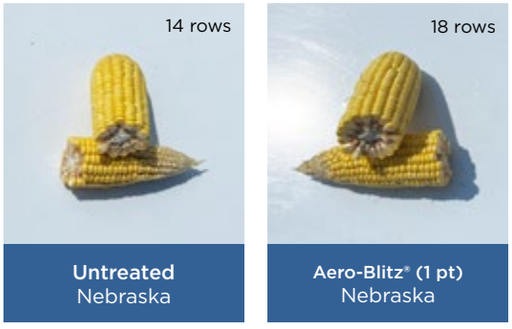
11-7-4 + 0.02 B, 0.1 Fe, 0.06 Mn, 0.003 Mo, 0.06 Zn

AERO-*N*

10-0-0



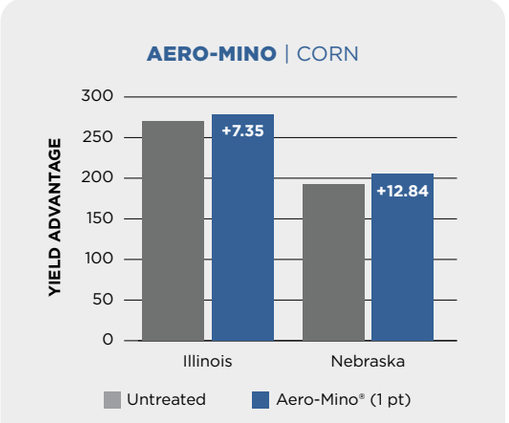
RD-1389, RD-1388



Untreated
Nebraska

Aero-Blitz® (1 pt)
Nebraska

Research Summary (Above): In 2024, in Illinois and Nebraska, Aero-Blitz was applied on corn at the rate of 1 pt/acre at the V5 growth stage. At harvest, the treatment yielded 16.09 bu/acre increase compared to the untreated in Illinois and 15.95 bu/acre increase in Nebraska.



RD-1389, RD-1388

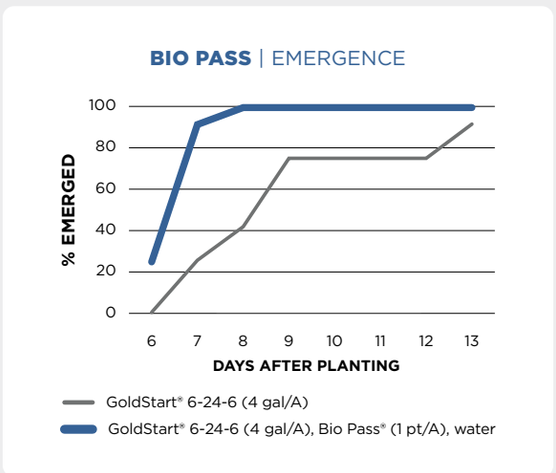
Research Summary (Above): In 2024, in Illinois and Nebraska, Aero-Mino was applied on corn at the rate of 1 pt/acre at the V5 growth stage. At harvest, the treatment yielded 7.35 bu/acre increase compared to the untreated in Illinois and 12.84 bu/acre increase in Nebraska.

BIOLOGICAL PRODUCT LINE-UP

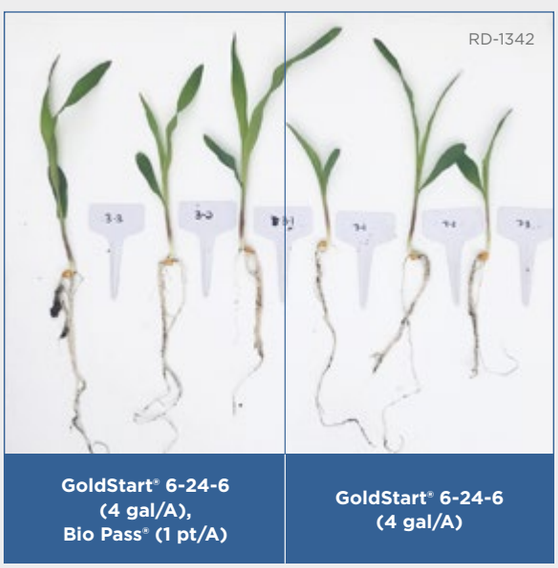
2 YEAR SHELF LIFE • CONSISTENT FIELD PERFORMANCE • 300 BILLION CFUS

BIO PASS®

Bio Pass works in synergy with a grower's liquid starter fertilizer program for corn and wheat.



Research Summary (Above): In a greenhouse study, the treatment with GoldStart® 6-24-6 liquid fertilizer and Bio Pass emerged 5 days earlier and more uniform than the starter alone.



Research Summary (Above): When Bio Pass was added to liquid starter fertilizer, the average root mass of the plants (left) were more robust, and the plants had an average dry plant mass that was double the mass of the starter alone (right). This photo was taken 15 days after emergence.

BIO PASS® LG

Bio Pass LG is designed to support soybean and other legume crops' growth and season-long nutrient needs.

BIO REVERSE®

Bio Reverse is a specially selected package of soil-borne microbes chosen for their ability to accelerate crop degradation and composting, thereby significantly reducing residue and releasing nutrients back to the soil.

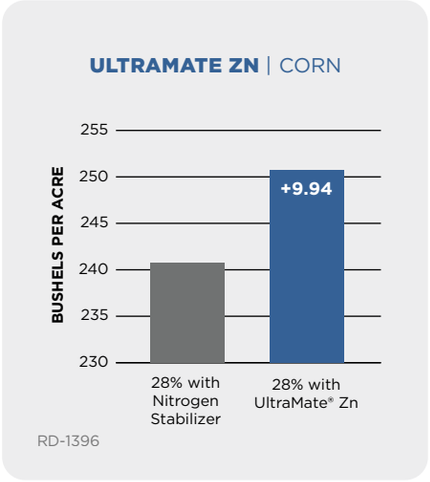
Research Summary (Above): In this photo, the corn stalks on the left were treated with 1 pt/acre of Bio Reverse in the fall post-harvest. The following spring, the stalks treated with Bio Reverse had more residue breakdown compared to the untreated check on the right.

For more information on The Andersons Biological Product Line-Up, visit: **AndersonsPlantNutrient.com/Biologicals**.

UltraMate® Zn

UltraMate Zn is a sulfonated potassium humate liquid with the benefits of zinc. It completely mixes when added directly to liquid fertilizer, micronutrient, or pesticide formulations over a wide range of pH values. UltraMate Zn allows plants to utilize N, K, Zn, and other micronutrients more efficiently, reducing leaching and improving soil structure.

Research Summary (Right): In 2024 in Nebraska, UltraMate Zn was applied to corn at sidedress at a rate of 1gal/acre with 28%. At harvest, the treatment yielded a 9.94bu/acre advantage compared to a growers standard of 28% and a nitrogen stabilizer.

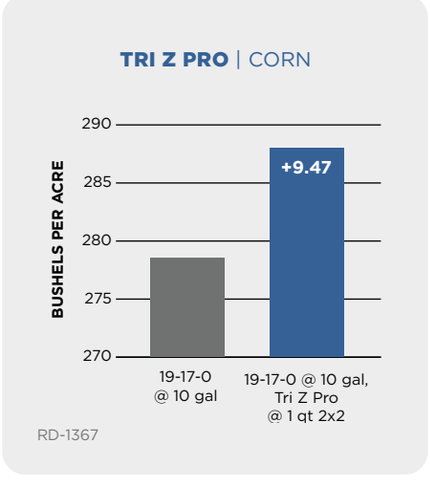


EEZY® KB

Eezy® KB provides the essential micronutrients including potassium, molybdenum, and boron. Molybdenum is responsible for a variety of essential functions in the plant, mainly nitrogen metabolism. Boron is complimentary to molybdenum and is responsible for cell wall structure, sugar transport, cell division, and seed and grain formation.

TRI Z PRO

Tri Z Pro is a powerful combination of nitrogen, sulfur, zinc, and ammonium acetate suitable for starter fertilizer application. With three sources of zinc, Tri Z Pro is formulated to provide immediate availability and sustained release of zinc for the crop. The unique and synergistic combination of zinc and ammonium acetate stimulates the plant to generate a more extensive root system to better utilize available nutrients and soil moisture.



DISPERSING GRANULE (DG) TECHNOLOGY

Featured in the MicroMark® DG product line, our patented Dispersing Granule (DG) Technology creates spherical, dust- free, and ultra-dry particles, offering many advantages for strip-till and broadcast applications..

DISPERSIBLE

These granules rapidly disperse upon contact with soil moisture, creating microparticles, which greatly increases surface area and allows for faster breakdown and availability of the humic substances.

SPREADABLE

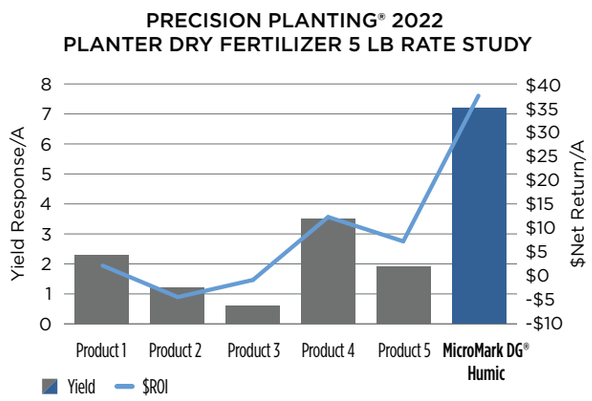
DG Technology creates uniform granules that are clean and easy to handle. These granules can be spread evenly and consistently through all types of application equipment. Competitor's dry humic acid product is dusty, non-uniform, and contains up to 20% moisture, making it hard to handle and difficult to spread.

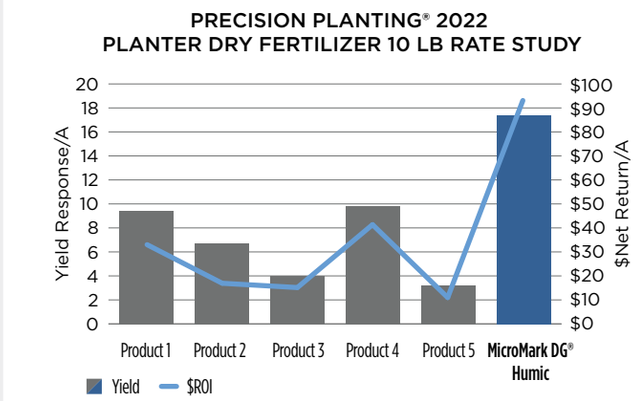
BLENDABLE

DG granules are designed to be ultra dry, which allows for successful blending with all types of dry fertilizers, including urea

MicroMark® DG *Humic*

MicroMark DG Humic contains a unique blend of calcium, sulfur, manganese, and zinc. This blend of nutrients was created to optimize plant health. MicroMark DG Humic also includes humic acid which is a natural chelator of micronutrients and also has been shown to improve soil health.





PRECISION PLANTING® PTI RESULTS: PLANTER APPLIED MICRONUTRIENT STUDY

Precision Planting conducted a study in 2022 to evaluate yield and net return of dry micronutrient fertilizer products at planting. At the 5 lb/A rate, MicroMark® DG Humic offered the highest yield gains of 7.2 bu/A with positive net returns of $37.70/A. As rates climbed to 10lbs/A, all products resulted in positive yield gain and net return. MicroMark DG Humic again offered the highest yield gains of 17.4 bu/A with positive net returns of $93.40/A.

MICROSOLUTIONS® MICRONUTRIENTS

Click here to explore MicroSolutions Micronutrients on our website.

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
MICRONUTRIENT-BASED SOLUTIONS							
MicroBlitz® 11-8-5 + 0.05 B, 0.05 Cu, 0.1 Fe, 0.05 Mn, 0.0005 Mo, 0.05 Zn	Corn/Soybeans	Foliar	1-4 quarts	Multiple, as needed	Post emergence	10.1	20
	Specialty Crops	Foliar	1-8 quarts	Multiple, as needed	Post emergence		
MicroCarb® 0.1 B, 0.5 Mn, 0.75 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	1	In-furrow or 2x2 with starter	8.8	32
		Foliar	1-2 pints	Multiple, as needed	Post emergence		
Eezy® Man Gen II 2.0 S, 5.0 Mn	Corn/Soybeans	Foliar	1-2 quarts (w/10-20 gal water)	1-2	Post emergence	10.2	29
Eezy® Moly-B 5-0-0 + 8.0 B, 1.0 Mo	Corn/Soybeans/ Specialty Crops	Soil	16-32 ounces	1	2x2 with starter	10.9	21
		Foliar	12-24 ounces	Multiple, as needed	Post emergence		
Phosfix® Gen II 7-4-9 + trace micros	Corn/Soybeans/ Specialty Crops	Foliar	1-2 pints	Multiple, as needed	Post emergence, at flowering	10.3	2
Eezy® Carb Fe 4.5 4.5 Fe	Corn/Soybeans/ Specialty Crops	Foliar	1-2 quarts	Multiple, as needed	Post emergence	11.0	27
Eezy® KB 2-0-16 2.5 B 0.2 Mo	Corn/Soybeans/ Specialty Crops	Foliar	12-24 ounces	Multiple, as needed	Post emergence	10.8	-20
AERIAL APPLICATION SOLUTIONS							
Aero-Blitz® 11-7-4 with B, Fe, Mn, Mo, Zn	Corn/Soybeans/ Specialty Crops	Foliar	16-32 ounces	Multiple, as needed	Post emergence	9.9	22
Aero-Mino® 8-0-0 with sugar and amino acid	Corn/Soybeans/ Specialty Crops	Foliar	16-32 ounces	Multiple, as needed	Post emergence	8.0	10.6
Aero-N® 10-0-0 with amino acid	Corn/Soybeans/ Specialty Crops	Foliar	16-32 ounces	Multiple, as needed	Post emergence	20.0	9.5
PLANT AND SOIL HEALTH SOLUTIONS							
Bio Pass® Microbial Nutrient Package	Corn/Wheat	Soil	1 pint	1	In-furrow or 2x2 with starter	10.1	2
Bio Pass® LG Microbial Nutrient Package	Soybeans	Soil	1 pint	1	Broadcast pre-plant	10.1	2
		Soil	1 pint	1	In-furrow or 2x2 with starter		
Bio Reverse® Microbial Nutrient Package	All crops	Soil	1 pint	1	Post harvest, pre emergence	10.1	2
Sweet 'N Eezy® Proprietary Sugar Blend	Corn/Soybeans/ Specialty Crops	Soil	1-3 pints	Multiple, as needed	In-furrow or 2x2 with starter	9.9	12
		Broadcast	4-8 pints	Multiple, as needed	Liquid nitrogen and/or herbicides		
		Aerial Application	1-2 pints	Multiple, as needed	Add to foliar fertilizer		
		Ground Application	1-2 quarts	Multiple, as needed	Add to foliar fertilizer		
		Fertigation	1-2 pints	Multiple, as needed	Add to fertigation		
Fulvic LQ™ 4% Fulvic Acid	Corn/Soybeans/ Specialty Crops	Soil	1 pint - 1 gallon	1	At planting	8.5	36
		Foliar	1 pint - 2 quarts	As needed	Post emergence		
UltraMate® LQ 12% Humic Acid 0-0-2 + 1.0 S	Corn/Soybeans/ Specialty Crops	Soil	1-3 gallons	1-3x annually	Pre emergence, starter, sidedress, weed and feed, Y-Drops	9.2	30
UltraMate® Zn 12% Humic Acid 3-0-2 + 1.0 S, 3.75 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-3 gallons	1-3x annually	Pre emergence, starter, sidedress, weed and feed, Y-Drops	9.7	29

Most products can be used on row and specialty crops such as fruits and vegetables. See label for other crop application recommendations. Always follow label instructions.

Visit AndersonsPlantNutrient.com/Agriculture for complete labels and product sheets.

APPROVED TANK MIX PARTNERS

Visit **AndersonsPlantNutrient.com/Tank-Mix** to view approved products for tank mixing with specific herbicides.

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
EDTA CHELATED SOLUTIONS							
Calcium 3% 3.0 Ca	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	10.0	25
		Foliar	1-2 pints	Multiple, as needed	Post-emergence		
Copper 7.5% 7.5 Cu	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	10.5	9
		Foliar	1-2 pints	Multiple, as needed	Post-emergence		
Iron 4.5% 4.5 Fe	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	9.7	21
		Foliar	1-3 pints	Multiple, as needed	Post-emergence		
Iron 4.5% (HEDTA) 4.5 Fe	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	11.1	20
		Foliar	1-3 pints	Multiple, as needed	Post-emergence		
Magnesium 2.5% 2.5 Mg	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	10.7	11
		Foliar	1-3 pints	Multiple, as needed	Post-emergence		
Manganese 6% 6.0 Mn	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	11.3	8
		Foliar	1-2 pints	Multiple, as needed	Post-emergence		
Zinc 6% 6.0 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	10.5	5
		Foliar	1-2 pints	Multiple, as needed	Post-emergence		
Zinc 9% 9.0 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	In-furrow or 2x2 with starter	10.9	-4
		Foliar	1-2 pints	Multiple, as needed	Post-emergence		
Agro Mix 0.15 B, 0.2 Cu, 0.3 Fe, 2.0 Mn, 0.005 Mo, 4.0 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-2 quarts	Multiple, as needed	Add to fertilizer or mix with water	10.7	15
		Foliar	1-2 pints	Multiple, as needed	Add to fertilizer or mix with water		
Corn Mix 0.5 Cu, 0.5 Mn, 4.5 Zn	Corn	Soil	2-3 gallons	1	Broadcast pre-plant	10	20
		Soil	2-8 quarts	1	2x2 with starter		
		Soil	1-2 quarts	1	In-furrow with starter		
		Foliar	1-2 pints	As needed	V5-V6		
Corn Mix II 0.5 Cu, 0.75 Mn, 7.0 Zn	Corn	Same as Corn Mix (above)				10.9	8
Soybean Mix 0.5 Fe, 4.5 Mn, 0.75 Zn	Soybeans	Soil	2-3 gallons	1	Broadcast pre-plant	11.0	19
		Soil	2-8 quarts	1	2x2 with starter		
		Soil	1-2 quarts	1	In-furrow with starter		
		Foliar	1-2 pints	As needed	V5-V6		
Wheat Mix 0.02 B, 0.4 Cu, 0.4 Fe, 1.2 Mn, 1.9 Zn	Wheat	Soil	2-3 gallons	1	Broadcast pre-plant	9.6	22
		Soil	2-8 quarts	1	2x2 with starter		
		Soil	1-2 quarts	1	In-furrow with starter		
		Foliar	1-2 pints	As needed	V5-V6		
Wheat Mix II 0.3 Cu, 3.5 Mn, 2.5 Zn	Wheat	Same as Wheat Mix (above)				10.5	13

REBATE PROGRAMS AVAILABLE

The Andersons offer planter equipment and tank rebate programs to stimulate growth with our partners of choice. **Contact your territory manager to learn more and find out if you qualify.**

MICROSOLUTIONS® MICRONUTRIENTS

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
CITRIC CHELATED SOLUTIONS							
MicroNourish® 4-0-0 + 3.0 S, 0.25 B, 3.0 Mn, 3.0 Zn	Corn/Soybeans/ Specialty Crops	Foliar	1-2 quarts	As needed	Post emergence	10.5	0
MicroNourish® Fe 4-0-0 + 3.0 S, 0.25 B, 1.0 Fe, 3.0 Mn, 2.0 Zn	Corn/Soybeans/ Specialty Crops	Foliar	1-2 quarts	As needed	Post emergence	10.8	0
Copper 5% 2.5 S, 5.0 Cu	Corn/Soybeans/ Specialty Crops	Foliar	1-2 quarts	As needed	Post emergence	10.0	32
Iron 5% 2.8 S, 5.0 Fe	Corn/Soybeans/ Specialty Crops	Foliar	1-2 quarts	As needed	Post emergence	9.9	32
Manganese 5% 3.2 S, 5.0 Mn	Corn/Soybeans/ Specialty Crops	Foliar	1-2 quarts	As needed	Post emergence	10.0	32
Zinc 10% 2.0 S, 10.0 Zn	Corn/Soybeans/ Specialty Crops	Soil	0.5-4 quarts	As needed	2x2 with starter	10.3	10
		Foliar	1-2 quarts	As needed	Post emergence		
POLY-COMPATIBLE SOLUTIONS							
Tri Z® 12-0-0 + 12.0 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-3 quarts	1	2x2 with APP (10-34-0)	10.4	3
		Soil	4-6 quarts	1	With APP (10-34-0)		
Tri Z® Pro 14-0-0 + 5.0 S + 10.4 Zn	Corn/Soybeans/ Specialty Crops	Soil	1-3 quarts	1	2x2 with APP (10-34-0)	10.5	-16
		Soil	4-6 quarts	1	With APP (10-34-0)		
RGS® (Root Growth Stimulator) 14-0-0 + 17.0 Zn (includes zinc ammonium acetate)	Corn	Soil	5 ounces	1	2x2 with APP (10-34-0)	10.5	0
		Soil	72 ounces per ton of anhydrous	1	Pre-plant		
APP Corn Mix 12-0-0 + 0.1 Cu, O.4 Mn, 11.0 Zn	Corn/Soybeans	Soil	1-3 quarts	1	2x2 with APP (10-34-0)	10.4	-4
		Soil	4-6 quarts	1	With APP (10-34-0)		
Nulex® Zinc 10% 8-0-0 + 10.0 Zn	Corn/Soybeans	Soil	0.5-6 quarts	1	Broadcast, with starter (2x2), or at sidedress	10.0	10
Nulex® Zinc 15% 13-0-0 + 15.0 Zn	Corn/Soybeans	Soil	0.75-4.5 quarts	1	Broadcast, with starter (2x2), or at sidedress	10.8	10
Nulex® Zinc 20% 16-0-0 + 20.0 Zn	Corn/Soybeans	Soil	0.5-6 pints	1	Broadcast, with starter (2x2), or at sidedress	11.4	10
GRANULAR MICRONUTRIENTS							
MicroMark® DG B	Corn/Soybeans/ Specialty Crops	Dry broadcast; Strip-Till; In-furrow	10-50 lbs	As needed	Post-harvest through planting	54 lbs/ft^3	-
MicroMark® DG Humic	Corn/Soybeans/ Specialty Crops	Dry broadcast; Strip-Till; In-furrow	10-50 lbs	As needed	Post-harvest through planting	55 lbs/ft^3	-

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APPROVED TANK MIX PARTNERS

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FLEXIBLE APPLICATION

IMMEDIATELY AVAILABLE

CLEAN , PURE, TRUE SOLUTIONS

SELECT NUTRIENTS

CORRECT DEFICIENCIES TO IMPROVE YIELD

Select Nutrients improve the structure and strength of your crop by correcting or preventing nutrient deficiencies, ultimately maximizing yield. These products have been manufactured and selected for efficacy and performance.

LIQUID POTASSIUM PRODUCTS

Whether soil or foliar applied, the Eezy® K line delivers specific forms of potassium and sulfur for optimal absorption and application.

LIQUID CALCIUM PRODUCTS

Highly clean, pure, true solutions that are totally and immediately available to the plant. Liquid Calcium Products contain no suspended particles, chlorides, or ammonium.

LIQUID SULFUR PRODUCTS

Liquid Sulfur Products have been shown to produce more protein at higher quality, reduce the build-up of nitrates, improve soil structure, and increase water infiltration.

LIQUID BORON PRODUCTS

Boron 10% prevents and corrects deficiencies and may be used on all crops. It is designed for use with liquid fertilizers and Eezy Cal 10% liquid calcium.

SELECT NUTRIENTS

Click here to explore Select Nutrients on our website.

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/gal)	SALT-OUT TEMP (°F)
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
LIQUID POTASSIUM PRODUCTS							
Eezy® K 0-0-25 + 17.0 S (Potassium thiosulfate)	Corn/Wheat/ Vegetables	Soil	1-2 gallons	1	2x2 with starter	12.2	3
		Soil	1-2 gallons	1	At sidedress		
Eezy® K19 0-0-19 + 6.0 S (Potassium acetate, potassium thiosulfate)	Corn/Soybeans/ Wheat/Vegetables	Soil	1-3 gallons	1	2x2 with starter	10.6	-20
		Foliar	1-2 gallons	As needed	Part of complete program		
Eezy® K24 0-0-24 (Potassium acetate)	Corn/Soybeans	Soil	2-6 quarts	1	In-furrow or 2x2 with starter	10.7	13
		Foliar	2-5 quarts	Multiple, as needed	With pesticide spray		
	Specialty Crops	Soil	4-8 quarts	1	Part of complete program		
		Foliar	1-8 quarts	Multiple, as needed	With pesticide spray		
Eezy® K30 0-0-30 (Potassium carbonate)	Corn/Soybeans/ Wheat/Vegetables	Foliar	2-5 gallons	As needed	Part of complete program	12.2	8
Eezy® K32 0-0-32 (Potassium carbonate)	Corn/Soybeans/ Vegetables	Soil	2-6 quarts	1	2x2 with starter	12.5	8
		Foliar	2-5 quarts	As needed	As directed		
LIQUID CALCIUM PRODUCTS							
Eezy® Cal 10% 8-0-0 + 10.0 Ca	Corn/Soybeans/ Vegetables	Soil	4-8 quarts	1	2x2 with starter	11.8	-21
		Foliar	2-4 quarts	Multiple, as needed	Add to fertilizer/ pesticide program		
Eezy® Cal-B 8-0-0 + 9.7 Ca, 0.25 B	Corn/Soybeans/ Vegetables	Soil	4-8 quarts	Multiple, as needed	2x2 with starter	11.9	-21
		Foliar	2-4 quarts	Multiple, as needed	Add to fertilizer/ pesticide program		
Eezy® Cal-K 7-0-7 + 7.0 Ca	Corn/Soybeans/ Vegetables	Soil	4-8 quarts	1	2x2 with starter	11.7	18
		Foliar	2-4 quarts	Multiple, as needed	Add to fertilizer/ pesticide program		
Eezy® Cal-Mg 10-0-0 + 5.5 Ca, 2.5 Mg	Corn/Soybeans/ Vegetables	Soil	4-8 quarts	1	2x2 with starter	11.5	24
		Foliar	2-4 quarts	Multiple, as needed	Add to fertilizer/ pesticide program		
Eezy® Cal-Mg-B 6.0 Ca, 1.0 Mg, 0.5 B	Corn/Soybeans/ Vegetables	Soil	1-4 quarts	1	2x2 with starter	10.2	18
		Foliar	1-2 quarts	Multiple, as needed	Add to fertilizer/ pesticide program		
Liquid Calcium Nitrate 8-0-0 + 11.0 Ca	Corn/Soybeans/ Vegetables	Soil	4-8 quarts	Multiple, as needed	2x2 with starter	12.1	-30
		Foliar	2-4 quarts	Multiple, as needed	Add to fertilizer/ pesticide program		
LIQUID SULFUR PRODUCTS							
Ammonium Thiosulfate (ATS) 12-0-0 + 26.0 S	Corn/Soybeans/ Vegetables	Soil	1-3 gallons	1	2x2 with starter	11.1	45
		Soil	6-12 gallons	1	At sidedress		
Ammonium Sulfate (AMS) 8-0-0 + 9.0 S	Corn	Soil	As directed	1	2x2 with starter	10.1	10
		Foliar	2-5 gallons with a solution containing over 50% water	1	At sidedress		
Nitro-S® 20-0-0 + 8.0 S	Corn/Soybeans/ Vegetables	Soil	As directed	1	Banded or broadcast	10.1	14
LIQUID BORON PRODUCTS							
Boron 10% 10.0 B	Corn/Soybeans/ Vegetables	Soil	1-8 quarts	1	2x2 with starter	11.1	11
		Foliar	1-2 pints	As needed	Add to fertilizer/ pesticide program		

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SOIL AMENDMENTS

HIGH-QUALITY

NEXT-GENERATION TECHNOLOGY

EASY HANDLING

OMRI LISTED
For Organic Use

The OMRI Listed® Seal assures the suitability of a product for certified organic production, handling, and processing. As best practice, the farmer should confirm all inputs are approved by their organic certifier, prior to use.

START WITH YOUR SOIL

Soil Amendments promote plant health and protect genetic yield potential by building soil structure. As soil is the basis for the crop's success, our products improve the physical properties of soil, such as tilth, aeration, water infiltration, drainage, and moisture holding capacity.

HUMIC SOLUTIONS

Our humate-based soil amendments, including Humic DG™, Black Gypsum DG®, and K-Mate SG™, represent the latest in humic acid nutrient delivery. We offer a complete line of technologically-advanced, easy-to-handle products, superior to others on the market today.

LIMESTONE/GYPSUM BASED PRODUCTS

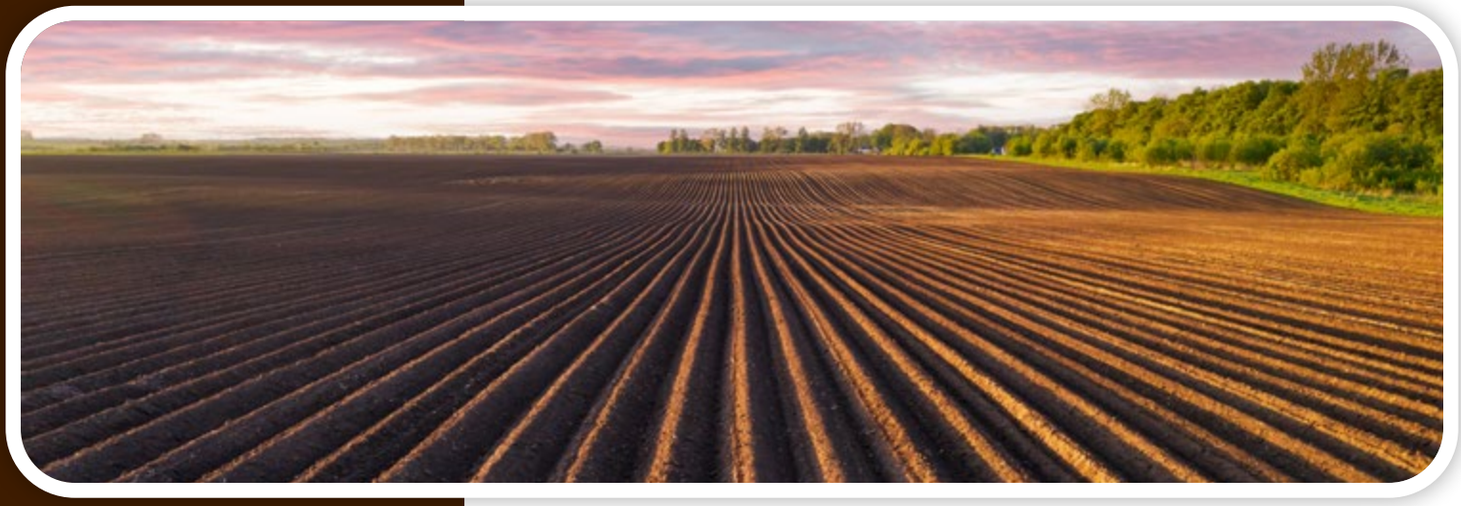
Our limestone/gypsum pelletized products are manufactured from natural, high-quality calcitic or dolomitic limestones and gypsums that are pulverized to a flour-like powder, then formed into fertilizer-sized granules designed to dissolve in moisture.

DISPERSING GRANULE TECHNOLOGY

DISPERSIBLE: The Andersons Dispersing Granule (DG) technology creates spherical, dust-free, and ultra-dry particles. These granules rapidly disperse upon contact with soil moisture, creating tens of thousands of microparticles, which greatly increases surface area and allows for faster breakdown and availability of the applied substances.

SPREADABLE: DG granules can be spread evenly and consistently through all types of application equipment. Other granular competitor products are dusty, non-uniform, and contain up to 20% moisture, making them hard to handle and difficult to spread.

BLENDABLE: DG granules are designed to be ultra-dry, which allows for successful blending with all types of dry fertilizers, including urea.

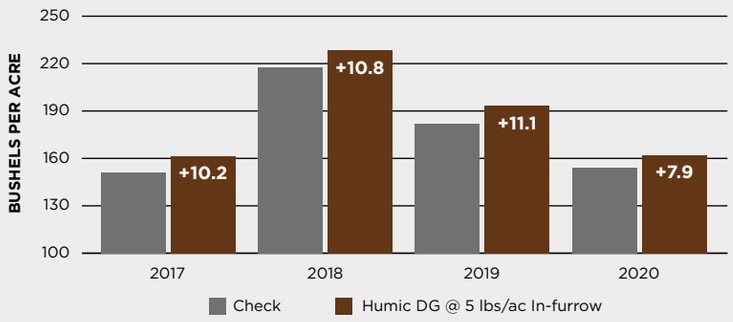


Humic DG™

Humic DG granules contain 70% humic acid and 10% humic acid precursor. DG technology creates a dust-free, spherical, ultra-dry particle that rapidly disperses into thousands of microparticles upon contact with moisture. The increased surface area of Humic DG granules, when compared to screened humate, creates greater availability to the plant. Humic DG contains the full spectrum of humic substances: fulvic acid, humic acid, and humin, as well as humic acid precursor.

Research Summary (Below): Humic DG has been tested over the course of 4 years in organic corn production. In these trials, Humic DG was applied at a rate of 10 lbs/acre in-furrow. On average, the treatment yielded a 10.03 bu/acre advantage compared to the check.

HUMIC DG | ORGANIC CORN



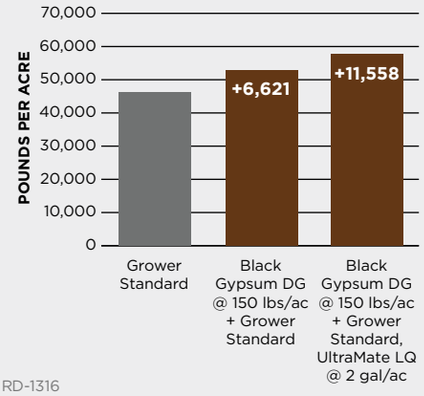
RD-1329, RD-1314, RD-1287, RD-1346, RD-1349

Black Gypsum DG®

Black Gypsum DG granules are homogenous and combine natural gypsum and humic substances to form a unique bioamendment. DG technology creates a dust-free, spherical, ultra-dry granule that rapidly disperses into thousands of microparticles upon contact with moisture. These microparticles deliver calcium, sulfur, and carbon directly into the soil. The DG technology allows for reduced application rates compared to other agricultural-grade gypsum products, which makes this an economical soil amendment.

Research Summary (Right): In 2018 in Wisconsin, Black Gypsum DG was applied to potatoes. At harvest, the treatment yielded a 6,621 pounds/acre advantage compared to the check. When both Black Gypsum DG and UltraMate LQ were applied, a yield increase of 11,558 pounds/acre was observed.

BLACK GYPSUM DG | POTATOES

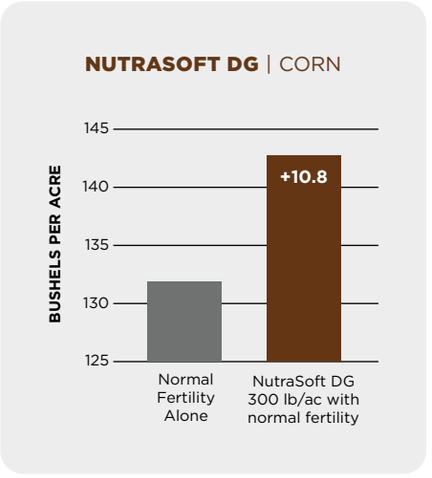


RD-1316

NutraSoft® DG

NutraSoft DG pelletized gypsum can be applied anytime on all soil types and pH ranges. It blends easily with fertilizer and has a low dust level. NutraSoft DG pelletized gypsum's calcium is 150 times more soluble than limestone. It is an excellent source of calcium and sulfur without raising the soil pH. The addition of NutraSoft DG pelletized gypsum will loosen compacted soils quickly and help balance a soil's calcium:magnesium ratio.

Research Summary (Right): In Illinois on corn, 300 lbs/ac of NutraSoft DG was applied with a normal fertility program and resulted in an average 10.8 bu/ac yield increase.

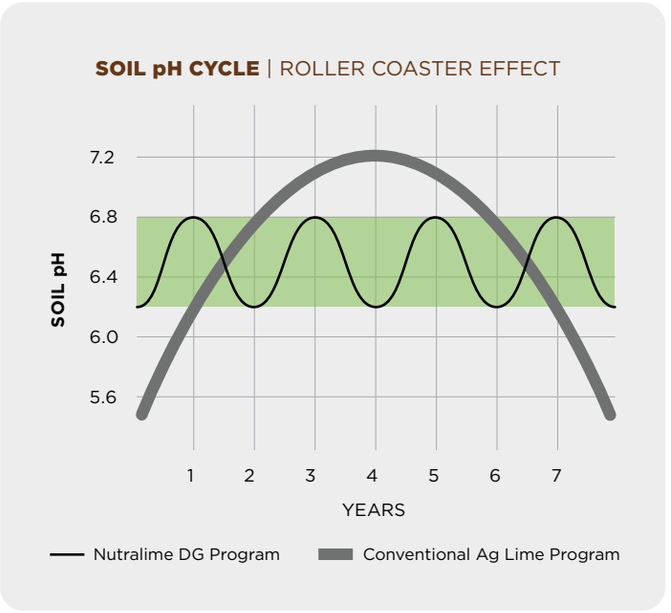


NutraLime® DG

(AVAILABLE AS HI-CAL OR HI-MAG)

NutraLime DG Pelletized Limestone provides an in-season soil acidity adjustment in the application zone. It is available in both a high-calcium (Hi-Cal) and high-magnesium (Hi-Mag) formulation. Calcium and magnesium are plant-available within the current growing season to produce top yields. Proper pH provides the most efficient environment for nutrient uptake.

Using frequent, low rate applications of NutraLime DG pelletized limestone is an excellent tool for flattening the pH curve and preventing the "roller coaster" effect caused by high, less frequent applications of conventional ag lime.



PRODUCT	CHARACTERISTICS	PERFORMANCE	TYPICAL RATES
Competitor's Ag Limestone	• Less soluble powder • Uneven, dusty application • Lower grade	• May take multiple years to adjust pH • Provides calcium only	1000-2000 lbs/A
NutraLime DG (Hi-Cal) **NutraLime DG (Hi-Mag)**	• Pelletized limestone • Exceptional spreadability and field coverage • Easy to handle • Uniform sizing	• In-season pH neutralization • In-season nutrient availability • Calcium and magnesium formulation options	300-500 lbs/A

Right hand: *NutraLime DG*
Left hand: *Competitor's ag limestone powder*

WHY HUMIC ACID?

Humic acid is a natural soil conditioner, organic chelator, and microbial stimulator that provides the following benefits:

- Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH
- Enhances efficiency and availability of applied nutrients
- Chelates soil micronutrients, increasing their availability
- Improves cation exchange capacity
- Enhances soil structure and biology
- Reduces water requirements by increasing water holding capacity and enabling better water penetration in the soil

THE THREE HUMIC FRACTIONS

NATURALLY DERIVED BIO-ORGANIC CARBON SOURCES

Foliar Uptake Soil Uptake

Humates are composed of three major fractions: fulvic acids, humic acids, and humins. Each of these fractions has some similar and some unique physical and chemical properties that contribute to their effectiveness and complement fertilizer programs. Our granular products contain all three forms of humic substances, maximizing the product benefits.

FULVIC ACIDS are highly soluble and readily absorbed by leaves, making them well-suited for foliar application. Fulvic acids enhance the absorption of nutrients and the efficiency of plant metabolic reactions.

HUMIC ACIDS are moderately soluble. They have a high cation exchange capacity (CEC), which helps increase a soil's nutrient holding capacity. Humic acid molecules chelate many essential nutrients and help stimulate soil microbiology.

HUMINS are the least soluble form of humic substances. They contain high levels of carbon and have large nutrient holding capacity. Humins persist in soils for very long periods of time.

In addition to the three humic fractions, humic products utilizing The Andersons Dispersing Granule (DG) Technology contain a unique and powerful ingredient known as humic acid precursor. **HUMIC ACID PRECURSOR** contains a soluble form of organic carbon that releases into the soil as DG granules disperse. Through biochemical reactions, it is transformed into humic and fulvic acids, enhancing nutrient uptake and improving soil health.

WHAT SETS DG (DISPERSING GRANULE) TECHNOLOGY APART?

Many of our humic-based products feature Dispersing Granule (DG) Technology. These spherical, dust-free, and ultra-dry particles deliver many advantages, including handling, spreadability, and efficacy.

HUMIC DG™ **COMPETITOR**

WHY BIOCHAR?

Biochar results from burning wood byproducts at high temperatures with little oxygen present. The resulting material is high in carbon and provides excellent physical structures for microbial development, leading to stronger soil profiles. Biochar also contains karrikins, a family of bioactive compounds that stimulate roots to boost new seedlings.

WHAT'S WRONG WITH TRADITIONAL BIOCHAR PRODUCTS?

For peak effectiveness, biochar needs to migrate through the soil and down into the root system. This can be tricky with many products, which bring application difficulties and poor efficacy.

While crumbled or micronized biochar products move well through the turf canopy, they do present challenges in allowing the product to properly flow through a standard broadcast spreader. Other biochar products contain larger chunks, which causes the product to remain in the thatch layer on top of the soil for long periods of time.

MICRONIZED BIOCHAR	HUMIC DG CHARX	LARGER BIOCHAR
Moves well through soil surface	Moves well through soil surface	Doesn't move well through soil surface
Extremely difficult to apply	Easy to apply	Easy to apply

HumicDG™ CharX®

Humic DG CharX is a powerful 50/50 blend of humic acid and biochar, designed to replenish soil organic matter and improve overall soil health. This combination enhances nutrient and water holding capacity, while biochar contributes karrikins—natural compounds that stimulate root growth and support early seedling vigor.

Formulated with Dispersing Granule (DG) Technology, the granules quickly move through the crop canopy into the root zone for fast, effective results. The spherical, uniform granules are low-dust and easy to apply, either on their own or blended with fertilizers.

Combining Humic DG and biochar, Humic DG CharX provides the benefits of the more quickly-available humic acid and the long-term soil-building qualities of biochar.

Humic DG CharX contains all three humic fractions improving the soil microbiome health and population

- Easy to apply: spherical, uniform, with minimal dust
- DG technology: self-incorporates with rainfall or irrigation
- Can be used with or without conventional fertility programs

SOIL AMENDMENTS

Click here to explore Soil Amendments on our website.

PRODUCT & ANALYSIS	APPLICATION INFORMATION					DENSITY (lbs/ft³)	OMRI Listed
	Crops	Application	Use Rate (per acre)	# of Applications	Placement/ Timing		
HUMIC SOLUTIONS							
Humic DG™ 70% humic acid, 10% humic acid precursor	Corn/Soybeans/ Vegetables	Soil	10 pounds in-furrow; 40 pounds maintenance or corrective	1-2x annually	Before or at planting Post emergence Post harvest	43.0	Yes
Humic DG™ CharX® 70% humic acid, 10% humic acid precursor	Corn/Soybeans/ Vegetables	Soil	50-200 pounds	Annually	Before or at planting Post emergence Post harvest	70.0	Yes
Black Gypsum DG® 70% $CaSO_4 \cdot 2H_2O$ 21% humic acid	Corn/Soybeans/ Vegetables	Soil	100-300 pounds	1-2x annually	Before or at planting Post emergence Post harvest	56.0	Yes
K-Mate SG™ 99% humic acid, 0-0-12	Corn/Soybeans/ Vegetables	Soil	1-3 pounds	1-3x annually	Before or at planting	52.0	Yes
		Foliar	1-3 pounds	1-3x annually	Post emergence		
LIMESTONE/GYPSUM BASED PRODUCTS							
NutraSoft® DG 21.0 Ca, 16.0 S	Corn/Soybeans/ Vegetables	Soil	300-500 pounds	Annually	Before or at planting Post emergence Post harvest	70.0	No*
NutraLime® DG (Hi-Cal) 30.0-34.0 Ca, 0.6-4.0 Mg	Corn/Soybeans/ Vegetables	Soil	300-500 pounds	Annually	Before or at planting Post emergence Post harvest	70.0	No*
NutraLime® DG (Hi-Mag) 20.0-21.0 Ca, 9.0-12.0 Mg	Corn/Soybeans/ Vegetables	Soil	300-500 pounds	Annually	Before or at planting Post emergence Post harvest	70.0	No*

Most products can be used on row and specialty crops such as fruits and vegetables. See label for other crop application recommendations. Always follow label instructions.

Visit AndersonsPlantNutrient.com/Agriculture for complete labels and product sheets.

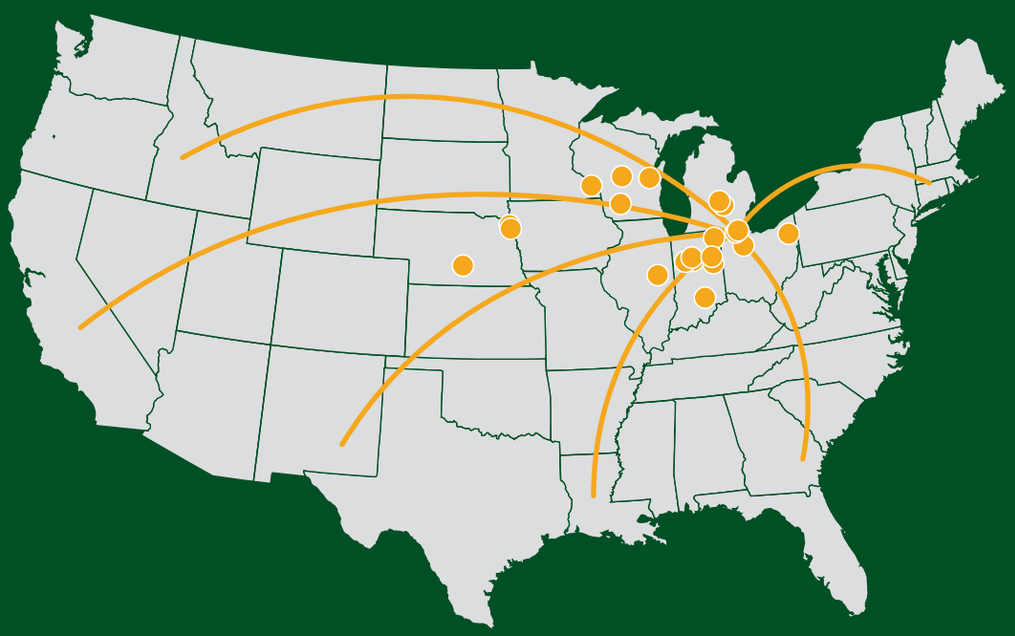
OMRI LISTED For Organic Use

The OMRI Listed® Seal assures the suitability of products to be used for certified organic production, handling, and processing.

OUR REACH

The Andersons' facilities provide access to next-generation crop nutrition products and technologies across the Corn Belt and beyond.

For information about specific products and services offered at these locations, contact your representative from The Andersons or visit AndersonsPlantNutrient.com.



ILLINOIS
Champaign

INDIANA
Delphi
Dunkirk
Logansport
Poneto
Seymour
Walton
Waterloo

IOWA
Sergeant Bluff
Sioux City

MICHIGAN
Laingsburg
Webberville

MINNESOTA
Winona

NEBRASKA
Gibbon

OHIO
Carey
Lordstown
Maumee
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Upper Sandusky

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The Andersons

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