



More from Every Acre, Animal & Gallon of Manure

# Full-Circle Crop Management Products

Conventional – Organic

The Full-Circle System includes crop and livestock management. Crop management allows growers to enhance the soil life and grow more productive crops with better utilization of nutrients and minerals.

**Beneficial Microbial Enhancement Technology:** Products that add or enhance beneficial microbes are designated with a ♥ and can be either microbial inoculants, stimulates or both.

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## Biological Seed Coatings & Stimulants

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♥ **ProfitCoat™ + NB\*** – *Organic Seed Nutrient and Biological Inoculant*

**ProfitCoat + NB** is a liquid organic coating that promotes improved consistency and uniformity of stand, increased seedling vigor, enhanced root health and standability throughout the growing season. It contains beneficial microorganisms that will colonize the germinating seedling root and boost the biology in the rhizosphere. The consortium of beneficial bacteria and fungi fix nitrogen, improve availability and solubility of plant nutrients in addition to enhancing the plant's health. The coating contains a seed lubricant and up to 75 trace elements to support the microbes and seedling during initial stages of growth.

**ProfitCoat + NB** is a "**seedling and season-long plant health enhancement system.**"

♥ **BioSeedCoat™\*** – *Organic Seed Nutrient and Biological Inoculant*

BioSeedCoat is a liquid organic seed coating that promotes uniform emergence, increased seedling vigor, enhanced root health and standability throughout the growing season. It contains beneficial microorganisms that will colonize the germinating seedling root and boost the biology in the rhizosphere. The consortium of beneficial bacterial and fungi fix nitrogen, improve availability and solubility of plant nutrients in addition to enhancing the plant's health. The coating contains a seed lubricant and up to 75 trace elements to support microbes and seedlings during initial stages of growth. **BioSeedCoat** is a "**seedling and season-long plant health enhancement system.**"

♥ **ProfitCoat™ PB\*** (PB - planter box) – *Organic Seed Nutrient and Biological Inoculant*

**ProfitCoat + PB** is a liquid organic coating that promotes improved consistency and uniformity of stand, increased seedling vigor, enhanced root health and standability throughout the growing season. It contains beneficial microorganisms that will colonize the germinating seedling root and boost the biology in the rhizosphere. The consortium of beneficial bacteria and fungi fix nitrogen, improve availability and solubility of plant nutrients in addition to enhancing the plant's health. The coating contains a seed lubricant and up to 75 trace elements to support the microbes and seedling during initial stages of growth. **ProfitCoat PB** is recommended for use on all plant seeds. **ProfitCoat PB** is a "**seedling and season-long plant health enhancement system.**"

♥ **ProfitCoat™ PB + SI\*** – *Organic Seed Nutrient and Biological Inoculant*

**ProfitCoat PB + SI** is a liquid organic coating that promotes improved consistency and uniformity of stand, increased seedling vigor, enhanced root health and standability throughout the growing season. It contains beneficial microorganisms that will colonize the germinating seedling root and boost the biology in the rhizosphere. The consortium of beneficial bacteria and fungi fix nitrogen, improve availability and solubility of plant nutrients in addition to enhancing the plant's health. The coating contains a seed lubricant and up to 75 trace elements to support the microbes and seedling during initial stages of growth. **SI** stands for **Soybean Inoculant** that contains a proprietary blend of three strains of yield-enhancing Bradyrhizobia bacteria.

**ProfitCoat PB + SI** is a "**seedling and season-long plant health enhancement system.**"

\* organic

## ♥ **Organic Soybean Inoculant\*** – *Organic Soybean Inoculant plus Seed Lubricant*

**Organic Soybean Inoculant (OSI)** is a unique organic seed treatment that contains a proprietary blend of three strains of yield-enhancing Bradythizobia bacteria and a special blend of talc and graphite seed lubricant. Designed for on-farm application (planter box and bulk delivery).

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## Spray Adjuvants

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### **Herbolyte** – *The Ideal Liquid Adjuvant*

For a **quicker and more effective weed kill**, use Herbolyte as a replacement for Ammonium Sulfate (AMS) on Roundup Ready, Liberty & Enlist™ systems.

**Herbolyte** drops those troublesome weeds fast while crops stand strong and continue to grow after spraying. Ten quarts of glyphosate and four quarts of Herbolyte are used per 100 gallons of spray solution. Herbolyte is the ideal way to get better weed control at a lower cost for many reasons.

### **Herbolyte Plus** – *The Ideal Liquid Adjuvant & Micronutrient Mix*

Designed to enhance herbicide performance, **Herbolyte Plus** supplies a balanced blend of micronutrients as well as modifies spray solution pH and water hardness. The ingredient blend in **Herbolyte Plus** has been found to promote herbicide uptake in agriculture applications. **Herbolyte Plus** is designed to be used with glyphosate products without the adjuvant additions. For a **quicker and more effective weed kill**, use Herbolyte Plus as a replacement for Ammonium Sulfate (AMS) on Roundup Ready, Liberty & Enlist™ systems.

**Herbolyte Plus** advantages include faster weed burndown and active crop growth after glyphosate application while the micronutrient blend assures adequate availability for the crop.

### **Fulltec Adjuvant**

**Fulltec Adjuvant** is the most complete adjuvant on the market. It brings the convenience of an efficient multi-functional product with the practicality of a user-friendly rate and package. • Drift retardant • Surfactant • Water conditioner • pH adjuster • Emulsifier • Defoamer • Stabilizer • Deposition aid • and more!

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## Biologicals (microbial based)

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### ♥ **BioNurture**

**BioNurture** is a consortium of diverse beneficial microorganisms, with a food source, for in-furrow and preemergent broadcast and sidedress soil applications. **BioNurture** with its diverse population of beneficial microorganisms ensures the soil and plant are able to efficiently work together to maximize the plant's growth and productivity.

**BioNurture** will enhance the microbial digestion of in-field crop residue and applied manures. **BioNurture's** diverse microbes will release nutrients tied up in the residue and the soil. **BioNurture** contains nitrogen fixing microorganisms. The microbes that make up this robust team are not genetically modified, non-pathogenic, and 100% naturally occurring.

### ♥ **BioRegenerate**

**BioRegenerate** is the most complete and advanced tool for managing all types of crop residue. It delivers enhanced residue breakdown powered by a natural team of residue digesting microorganisms. This all-in-one residue management product combines viable and capable microbes with organic acids to degrade crop residue and complex organic compounds. This enhanced biological breakdown allows drills and planters to slice through residue instead of bouncing over it; reduces hair pinning, promotes optimal seed placement, faster soil warm-up in the spring, uniform emergence and an optimized stand. **BioRegenerate** enhances the return of micro and macro nutrients from the residue to the soil and can help drive CO<sub>2</sub> cycling, promote higher yields and healthier soil. Apply **BioRegenerate** to reclaim your investment dollars currently tied up by crop residue in your fields.

### ♥ **CX-1 + Pro\***

Enhance soil and plant health with one easy to use liquid: **CX-1+Pro**. A 100% plant-based extract, broad spectrum, and multi-species, **CX-1+Pro** is a product manufactured with Purple Cow Organics® patented process. Thousands of fungal and bacterial strains are driven to the soil and plant by Aqua-Yield Technology that shields exudates and metabolites, enhancing the rhizosphere. **CX-1+Pro** is an effective and flexible tool in building soil health and nutrient use efficiency throughout the growing season, approved for certified organic as well as conventional systems

## ♥ **NLA<sub>g</sub>**\*

The microbial blend in **NLA<sub>g</sub>** is a direct genetic descendant of the first known microbial soil amendment product that was developed in the 1950's. **NLA<sub>g</sub>** soil amendment simultaneously enhances soil biology and feeds the plants. **NLA<sub>g</sub>** enhances plant growth, color, quality and vigor by increasing nutrient availability and efficiency.

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## **Soil & Plant Biological Stimulant/Soil Remediation**

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### ♥ **Eubio-NBS (c10) Soil & Plant Natural Biological Stimulant\***

**Eubio-NBS (c10)** is a "Next Generation" Natural Biological Stimulant. It optimizes and stimulates the biological medium to help increase already existing natural processes that are essential for healthy soil and plants. **Eubio-NBS (c10)** is biodegradable, non-toxic, non-hazardous, non-corrosive, non-irritating and does not require PPE.

### ♥ **Eubio-NBS (c10) Soil Remediation Technology\***

**Eubio-NBS (c10)** is a Natural Biological Stimulant. It is a "Next Generation" Soil Remediation Technology. It optimizes and stimulates the biological medium to help increase already existing natural processes that are essential to soil remediation. **Eubio-NBS (c10)** is biodegradable, non-toxic, non-hazardous, non-corrosive, non-irritating and does not require PPE.

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## **Soil Nutrient Solubilizers & Stabilizers**

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### ♥ **Bio-Release™ 2-0-2 Nutrient Solubilizer/Stabilizer**

**Bio-Release** is a fertilizer additive that reduces fixation of plant nutrients after soil application and unlocks unavailable plant nutrients in the soil, which allows for maximum crop uptake.

### ♥ **Solu-PLKS™\***

**Solu-PLKS** is a soil conditioner extracted from leonardite ore and biodegradable ingredients. **Solu-PLKS** may help in macro and micronutrients availability for the plants and microorganisms.

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## **Humates**

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### ♥ **Humic Acid\***

**Humic Acid** is a liquid carbon that is designed to aid in the breakdown of organic matter. It stimulates soil microbial activity and can improve moisture management in your soil. This product helps with micronutrient uptake by the plant.

### ♥ **Humates with 70% Humic Acid\***

**Humates with 70% Humic Acid** is a concentrated source of humic acids containing 70% humic acid (by weight). It is a naturally occurring, oxidized lignite, crushed 1-3 mm particle size and screened to exact specifications (custom particle sizes can be requested to meet requirements for specific blends or applicator types). The product add organic material containing humic and fulvic acids to soil to enhance uptake and stimulate soil life. It is a supplemental source of trace elements. **Humates with 70% Humic Acid** is a dry granular product designed to improve root mass growth, enhance nutrient availability and uptake & improve crop yields and quality.

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## **Foundation Granular Soil/Plant Nutrient Amendments**

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### ♥ **Soft Rock Phosphate\***

**Soft Rock Phosphate (SRP)** is a natural organic, ground and prilled fertilizer. It contains 24% P, 31% Ca and over 55 trace elements. The nutrients in SRP are more plant available than traditional commercial phosphate fertilizers. It slowly releases its nutrients over a three-year period. It helps build healthy soil biology communities. It improves the quantity and quality (higher Brix level) of crops. Typical application rates are 150 to 350 lbs per acre. A complete plant nutrient program using SRP as a foundational component can be complemented with a starter, foliar, sidedress, micronutrients and/ore biological (nitrogen-fixing) and nutrient release technology (such as Bio-Release/Solu-PLKS).

### ♥ Potassium Sulfate\*

**Potassium Sulfate** ( $K_2SO_4$ ) contains dual nutrients that provide the vital potassium and sulfur that crops, orchards and turf need to maintain plant health. It helps improve quality and yield.

### ♥ Elemental Sulfur\*

**Elemental Sulfur** provides a natural slow release of sulfate throughout the season. The application rate is based on agronomic soil test recommendations that should also consider crop removal rates of sulfur. With sulfur deficiencies in soil, soluble sulfate must be applied to high sulfur-requiring crops as oil seeds (a blend of Elemental Sulfur and Ammonium Sulfate is very effective). If applied regularly, as part of a balanced fertility program, sulfur levels can be maintained.

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## Micro & Trace Elements Soil & Foliar

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### ♥ MicroNutrient Mix™ 0.60-0.37-3.54 *Liquid chelated micronutrients blend*

**MicroNutrient Mix** is an advanced generation of plant micronutrients complexed to enhance nutrient availability and uptake by the plants. It is formulated for crops that require an immediate source of micronutrients at early or late stage of growth and contains natural buffers to maintain nutrient availability and prevent nutrient interaction with glyphosate.

**MicroNutrient Mix** is designed for at-plant soil and foliar application.

### ♥ SEA-CROP® (90 trace minerals)\* – *A soil microflora stimulant containing over 90 natural trace minerals and active organic substances from Pacific Ocean water.*

**SEA-CROP®** is composed of organic matter, over 90 naturally occurring elements and minerals derived from pristine seawater, but with the sodium chloride 95% reduced. Unlike other sea minerals, **SEA-CROP** has never been dried or subjected to heat. Drying or heating can destroy organic compounds. **SEA-CROP** is an easy to use solution of minerals in an ionic liquid form. These minerals and the equally important trace elements act as an enzyme activator, growth stimulator, biological stimulator and a catalyst in the formation of all other nutrients in plants. The goal is to produce healthy crops that are naturally disease and pest resistant with exceptional taste, flavor and nutrient density.

### Iron Combat 6%

Iron Combat 6% is fully chelated with 6% organic iron to be used on soil with a history of iron deficiency such as iron chlorosis in soybeans. It is formulated so the iron is immediately available to the plant as a soil and foliar application. Iron combat 6% contains natural buffers nutrient availability and prevent nutrient interaction with glyphosate.

### Molybdenum 3%

**Molybdenum 3%** is very essential for nitrogen conversion to amino acid and especially essential for nitrogen-fixing bacteria. **Molybdenum 3%** is an advanced generation of plant nutrients to enhance nutrient availability and uptake by the plants.

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## Soil & Foliar Plant Nutrients

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### YieldBooster – *Starter & foliar soluble concentrate nutrient blend with trace minerals*

**Starter YieldBooster** is made of tech grade materials, highly refined. Unwanted chemicals have been refined out. Not only does it contain nitrogen, phosphorus, and potassium but trace elements as well. There is nothing to add but water. It creates an environment which enhances the entire life cycle of the plant from seed to humus. These qualities allow all our products to be placed directly on the seed at planting. **YieldBooster** has a slightly acidic pH and our phosphate is 100% ortho which allows the seed to utilize it as soon as germination occurs.

**Foliar YieldBooster** can also be sprayed directly on the foliage of the plant. Foliar feeding is the most efficient way of supplying needed elements at critical growth stages. Since **foliar YieldBooster** is acidic, it is the same pH as the surface of the leaf so there is no burning of the foliage. This allows the producer to apply during anytime of the day regardless of moisture.

### ♥ AgroThrive™ LFN 3-3-2 (N-P-K)\* – *100% Natural Organic Fertilizer*

**AgroThrive** is a premium organic fertilizer with a guaranteed minimum analysis of 3.0-3.0-2.0 NPK. This liquid fertilizer is ideal for organic agriculture where the goals are both nutrient supply and stimulation of soil microbes. It can also be used in conventional practices for root stimulation.

## ♥ PacificGro 1.7-7-0 Sea-Phosphate\* & ♥ PacificGro 2-1-0.3 Oceanic Hydrolysate\*

**Pacific Gro** is an organic source of a great range of nutrients that improves soil health and builds humus. Fish oil is a preferred food source for soil microorganisms, particularly beneficial fungi. Farmers notice a proliferation of soil life and restoration of a healthy fungal-bacterial balance. It's often applied with microbial products. It's also used as a foliar with other inputs – the fish oil acts as a sticker, there's plant-available calcium and the amino acids chelate nutrients.

**Pacific Gro** is produced from ocean-caught salmon, shrimp and crab that are ground and enzymatically digested without removal of any of the natural oils or proteins. It is naturally high in fish oil. Most of the nitrogen is in amino acid form. The raw material is collected from seafood processors. The naturally occurring enzymes and vortex action in the breaking tanks digest the shells, fish bones and fish scrap into a fine colloidal suspension.

## ♥ SeaPower 0-0-4\*

**Sea Power** is a beige powder designed to enhance plant growth and root development when applied to the foliage or soil. Foliar applications may be made when plants have sufficient foliage. Sea Power provides plant nutrients but is not intended to replace standard nutrient applications for crops. Soil type, weather, diseases, and environmental conditions may determine yield.

## ♥ Alga K18\*

**Alga K18** is a brown seaweed based nutrition supplement, which provides potassium for plant growth and plant resistance to abiotic stress, when applied to the foliage or soil. For soil application, the organic matter in **Alga K18** provides food for microbes. It is a 100% water soluble powder that can be applied to plant foliage, soil and soilless media. Rates of application need adjustment based on potassium level & stress periods.

## ♥ Top Sea N15\*

**Top Sea N15** is an animal source of nitrogen, which can increase plant growth, especially vegetative growth. It is a 100% water soluble powder that can be applied to plant foliage, soil and soilless media. Rates of application may need to be adjusted based on the nitrogen supplied during a specific growth stage.

## K-30

**K-30** is an advanced generation of plant nutrients to enhance nutrient availability and uptake by the plants. **K-30** is a blend of water-soluble plant nutrients for efficient crop use without chloride salts that can be toxic to plants. **K-30** is formulated for crops that require high potassium levels during early or late stage of growth.

## Fulltec Boron Max

**Fulltec Boron Max** is a high concentration of Boron with the maximum possible dispersion and solubility in water. The two sources of Boron provide maximum efficiency and ensure a long-lasting effect. That means more flowers retained resulting in higher yields.

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## Soil & Foliar Plant Nutrient/Energy/Biocontrol

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## ♥ BioEnergy+™

**BioEnergy+** sublimates the needed energy for the plant to maximize its genetic potential in yield and quality. **BioEnergy+** is a unique blend of sugars, Molasses, Chitosan, Yucca, Quillaja, natural nutrient compounds, microbials & microbial biostimulants which is ideal for all uses on soils and plants. **BioEnergy+** easily incorporates into existing crop production programs.

## ♥ BioEnergy+™ Organic\*

**BioEnergy+Organic** sublimates the needed energy for the plant to maximize its genetic potential in yield and quality. **BioEnergy+ Organic** is a unique blend of organically approved ingredients, sugars, Molasses, Chitosan, Yucca, Quillaja, natural nutrient compounds, microbials & microbial biostimulants which is ideal for all uses on soils and plants. **BioEnergy+ Organic** easily incorporates into existing crop production programs.

## ♥ BioImpact+

**BioImpact+** is a unique synergistic blend of natural surfactants and sticking agents. **BioImpact+** enhances the activity and performance of foliar nutrients and biocontrol agents. The superior wetting of **BioImpact+** results in a more uniform distribution of material which increases the retention and absorption of sprays by reducing surface tension of the spray droplets. **BioImpact+** when applied to seed creates a semipermeable film that helps maintain the seed moisture and absorb the soil moisture, and thus it can promote seed germination.

## StressAway

**StressAway** fertilizer solution is intended for use as a foliar or soil applied supplement to a good fertility program.

**StressAway** helps build tolerance against physical and mechanical injury and environmental stresses such as drought, water stress, heat stress, etc. **StressAway** promotes plant growth while decreasing stress induced photorespiration. It also increases the sugar content within the plant leading to a healthier and more vigorous crop.

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## Soil & Plant Energy Products

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### ♥ Molasses

**Molasses** provides an effective and available source of carbon energy, minerals and trace minerals that feed and stimulate the growth of beneficial microorganisms in your soil that build and maintain higher levels of available nutrients in the soil. The nutrients contained in molasses are available for quick uptake by your plants, simply because they are derived from a plant. It is recommended for all types of crops and turf.

### ♥ Organic Molasses\*

**Organic Molasses** provides an effective and available source of carbon energy that feed and stimulate the growth of beneficial microorganisms in your soil that build and maintain higher levels of available nutrients in the soil. It is recommended for all types of crops and turf.

### ♥ Dextrose Sugar

**Dextrose Sugar** provides an effective and available source of carbon energy

### ♥ Organic Dextrose Sugar\*

**Organic Dextrose Sugar** provides an effective and available source of carbon energy

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## Stimulant of Root Growth and Fruit Bulker

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### Bulk-R 0-0-5

**Bulk-R** is an advanced generation of plant nutrients to enhance nutrient availability and uptake by the plants. It contains natural growth promoters, enzyme precursors and nutrients essential for stimulating root growth and fruit bulking. **Bulk-R** is a blend of water-soluble plant nutrients for efficient crop use and provides nutrients in a readily available form.

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## Forage Fermentation & Enhancement Products

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### ♥ Forage Enhancer\* – *Fermentation microbial blend*

**Forage Enhancer** contains numerous groups of beneficial anaerobic microorganisms that improve the quality of fermentation. They also break down and reduce the complex carbohydrate structures in plants such as lignin, cellulose and hemicellulose, which are less digestible by the animals, and make these feed nutrients more bioavailable in the animal's digestion process. When applied to feed, these microorganisms preserve and enhance the quality. **Forage Enhancer** helps prevent molds, improves taste and nutrient value of feed. It allows higher moisture content during the forage process without spoilage or mold and can also be used for organic production. High moisture forages that already have mold can also be treated and thus prevent forage loss. **Forage Enhancer** is an anaerobic microbial preservative.

### ♥ Fermentation Minerals\*

**Fermentation Minerals** are a select group of micronized natural ores that stimulate the beneficial anaerobic microorganisms in **Forage Enhancer** during the fermentation process of high moisture feed and enhance the digestion process of ruminant animals.