

2026

Row Crop Product Guide

Biostimulants and Related Products





A global leader in biostimulants and related product solutions, consistently delivering cutting-edge innovation to optimize the potential of every acre.

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For a complete lineup of Valent BioSciences' biostimulants and related products, please visit valentbiosciences.com/biostimulants.

About the Featured Photography

Select images featured throughout this year's Row Crop Product Guide were photographed on farms across the U.S. by Valent BioSciences' team members, Brittney Madison and Alison Leon-Rossi.

*The term "biostimulant" refers to the classification of Valent BioSciences' products and is not intended to represent their official registration category. Registration may vary by country or state; please consult official authorities for the most current information.

WHY VALENT BIOSCIENCES

Our science-driven legacy of leadership and innovation is rooted in research, development, and proven results. As growers strive to sustainably optimize the efficiency of their operations, biostimulants are a vital tool to help maximize crop potential and increase ROI.



Bold claims are easy, but we're dedicated to proving our products deliver as promised.

60 YEARS OF AGRICULTURE EXPERTISE

For more than 60 years, Valent BioSciences has been driving innovation and adoption of biological crop inputs around the world. We prioritize continuous innovation and we're proud of our legacy of excellence in research and development. Every single day, we're driven by our desire to solve challenges faced by growers, helping them profitably sustain their farming operations.

Our reach is global. We're backed by the powerhouse, Sumitomo Chemical Co., Ltd., and fueled by our biorational research network, through which we collaborate with scientists and experts at the top of their fields around the world. And then we bring that science home to drive ROI on U.S. farms.



800+

Research Trials Annually to Test and Demonstrate Product Performance



125+

Patents Issued in the U.S. Since 2000



1000+

Product Registrations in 95+ Countries

Soybean Portfolio

Seed Treatment



Extended Root Area,
Nutrient Absorption,
& Improved Water
Holding Capacity

SuperSede[®] Soybean

Better Germination &
Enhanced Root Growth
and Nodulation

V2 - V4

Manron[®]

Improved Photosynthesis
& Increased Nodulation

MicroBlend[™] Zn-Mn-B

Supports Photosynthesis
& Successful Pollination

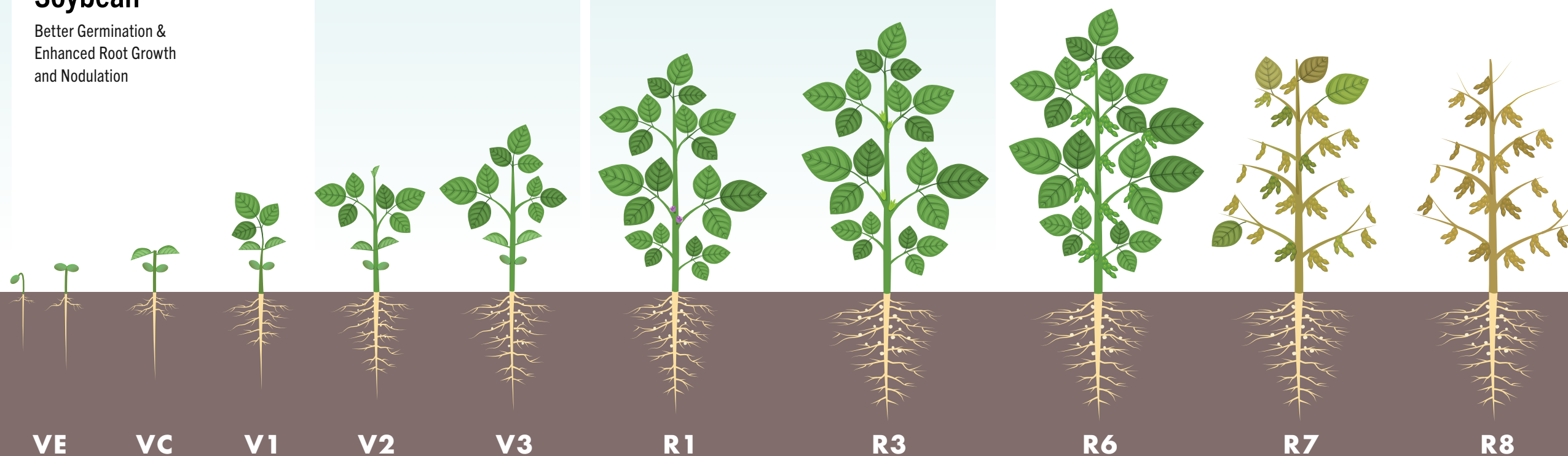
R1 - R3

PodOn[™]

Optimized Transpiration,
Stomatal Regulation,
& Pod Retention

BoronBoost[®]

Carbohydrate Mobility
& Maximized Grain Fill



Corn Portfolio

Seed Treatment

SuperSede[®] Corn

Better Germination & Enhanced Root Growth

In-Furrow



Extended Root Area, Nutrient Absorption, & Improved Water Holding Capacity

V2 - V5



Increased Fertilizer Uptake

V4 - V7

FlexForce[®]

Increased Nutrient Storage & Photosynthesis

MicroBlend[™] Zn-Mn-B

Supports Photosynthesis & Successful Pollination

VT - R2

BoronBoost[®]

Increased Grain Fill



VE

V1

V3

V7

V10

VT

R1

R6

Cotton Portfolio

Seed Treatment

SuperSede[®] Cotton

Better Germination & Enhanced Root Growth

In-Furrow

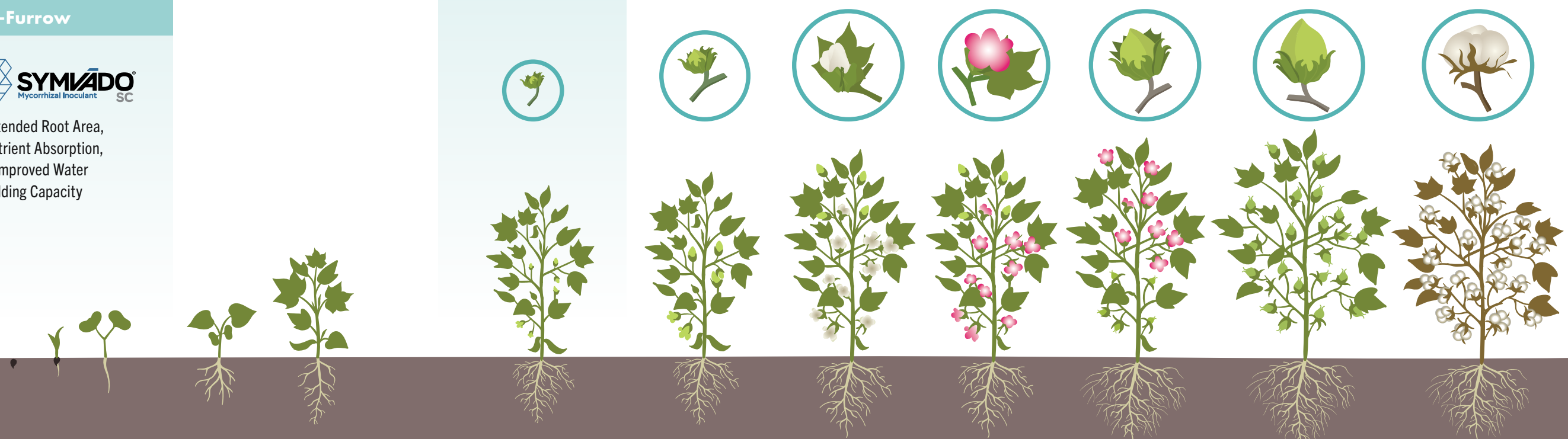


Extended Root Area, Nutrient Absorption, & Improved Water Holding Capacity

2 Leaf - Pinhead Square

Zicron[®]

Improved Transpiration & Boll Development



Planting/
Emergence

Vegetative
Growth

Pinhead
Square

Match-Head
Square

First
Bloom

Mid-Late
Bloom

Boll Set

Boll Fill

Maturity

Wheat Portfolio

Seed Treatment



Extended Root Area,
Nutrient Absorption,
& Improved Water
Holding Capacity

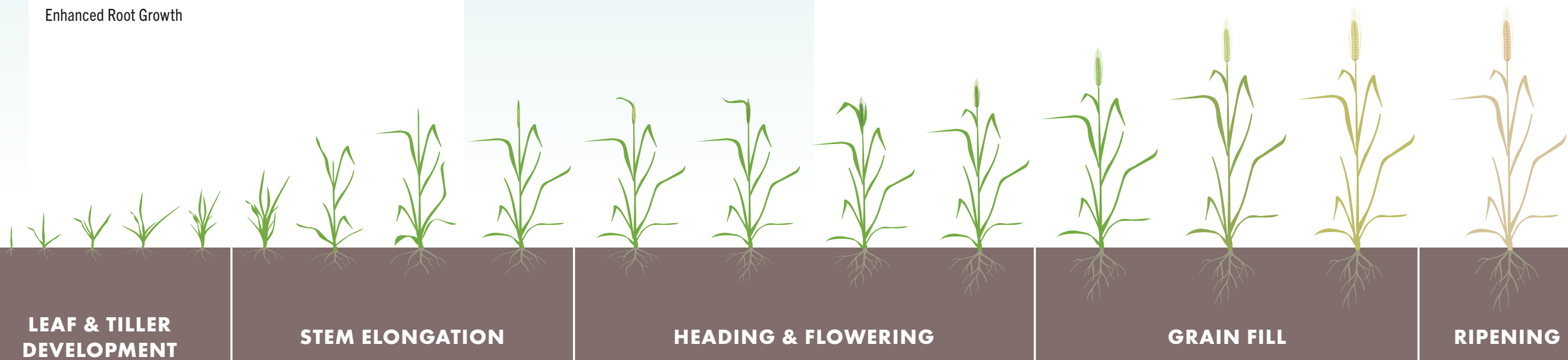
SuperSede® Small Grains

Better Germination &
Enhanced Root Growth

Flag Leaf - 50% Heading

GrainStar™

Increases Drought Tolerance Under
Stress Conditions, Converts Starch
Into Sugars, & Triggers Translocation
of Carbohydrates into Developing Seed
Heads for Improved Grain Fill



Rice Portfolio

At Planting



Extended Root Area,
Nutrient Absorption,
& Improved Water
Holding Capacity

SuperSede[®] Small Grains

Better Germination &
Enhanced Root Growth

4 Leaf - Tillering

Zicron[®]

Increased Tiller &
Node Formation and
Larger & Longer Stems



Planting

Tillering

Stem
Elongation

Panicle
Initiation

Flowering

Milk Stage

Mature Stage

Post-Harvest

Peanut Portfolio

Seed Treatment

SuperSede[®] Soybean

Early Establishment
& Root Growth

In-Furrow



Extended Root Area,
Nutrient Absorption,
& Improved Water
Holding Capacity

Pod Initiation

BoronBoost[®]

Improved Nut Quality



Planting

Germination

Seedling

Leaf Development

Vegetative Growth

Pegging

Flowering

Maturation

Sugarcane Portfolio

In-Furrow



Extended Root Area,
Nutrient Absorption,
& Improved Water
Holding Capacity

1st - 5th Internode

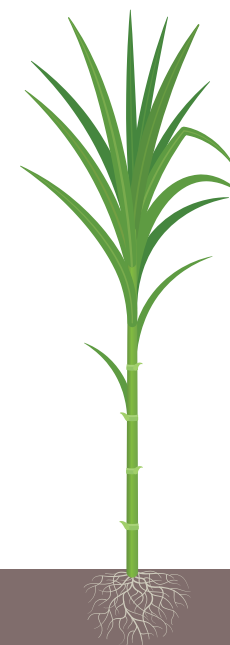
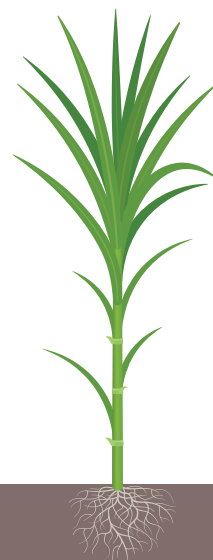
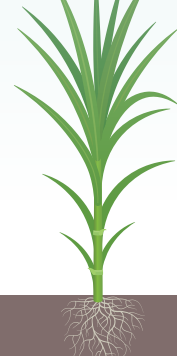
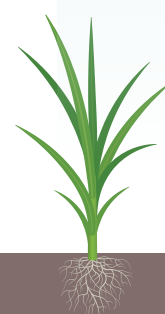
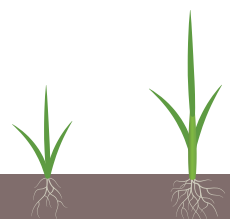


Increased Biomass

8 - 4 Weeks Before Harvest



Increased Sugar Yields



Establishment



Vegetative Phase



Grand Growth



Ripening

Alfalfa Portfolio

Planting



Extended Root Area,
Nutrient Absorption,
& Improved Water
Holding Capacity

After 1st Cutting

Zicron[®]

Improved Regrowth



Early Vegetative



Mid-Vegetative



Late Vegetative



Early Bud



Late Bud



Early Bloom

SuperSede® Corn			
Product Overview	SuperSede® Corn is a seed treatment powered by Transit® biostimulant with complementary corn nutrition that increases germination and supports early root growth for uniformity and establishment. <ul style="list-style-type: none"> • Better Germination • Enhanced Root Growth • Complementary Nutrition 		
Guaranteed Analysis / Complementary Nutrition	Boron (B) 0.5% Manganese (Mn) 0.25% Molybdenum (Mo) 0.0015% Zinc (Zn) 1.5% Derived from: Boric acid, manganese sulfate, sodium molybdate, and zinc sulfate.		
Formulations	SuperSede Corn		
Application Information	Crop	Use Rate	Application Timing
	Corn	1.0 fl oz per 50 lbs	Seed Treatment

SuperSede® Cotton			
Product Overview	SuperSede® Cotton is a seed treatment powered by Transit® biostimulant with complementary cotton nutrition that increases germination and supports early root growth for uniformity and establishment. <ul style="list-style-type: none"> • Better Germination • Enhanced Root Growth • Complementary Nutrition 		
Guaranteed Analysis / Complementary Nutrition	Boron (B) 1.0% Manganese (Mn) 0.25% Zinc (Zn) 0.25% Derived from: Manganese sulfate, zinc sulfate, and boric acid.		
Formulations	SuperSede Cotton		
Application Information	Crop	Use Rate	Application Timing
	Cotton	0.75 fl oz per 100 lbs	Seed Treatment



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SuperSede® Small Grains			
Product Overview	SuperSede® Small Grains is a seed treatment powered by Transit® biostimulant with complementary small grain nutrition that increases germination and supports early root growth for uniformity and establishment. <ul style="list-style-type: none"> • Better Germination • Enhanced Root Growth • Complementary Nutrition 		
Guaranteed Analysis / Complementary Nutrition	Sulfur (S) 1.0% Manganese (Mn) 0.9% Zinc (Zn) 2.25% Derived from: Manganese sulfate and zinc sulfate.		
Formulations	SuperSede Small Grains		
Application Information	Crop	Use Rate	Application Timing
	Small Grains	1.0 fl oz per 50 lbs	Seed Treatment



SuperSede® Soybean			
Product Overview	SuperSede® Soybean is a seed treatment powered by Transit® biostimulant with complementary soybean nutrition that increases germination and supports early root growth for uniformity and establishment. SuperSede Soybean also supports increased nodulation for improved nitrogen fixation. <ul style="list-style-type: none"> • Better Germination • Enhanced Root Growth and Nodulation • Complementary Nutrition 		
Guaranteed Analysis / Complementary Nutrition	Boron (B) 0.2% Cobalt (Co) 0.05% Molybdenum (Mo) 5.0% Zinc (Zn) 0.5% 0.5% Water Soluble Zinc Derived from: Sodium molybdate, cobalt nitrate, boric acid, and zinc sulfate.		
Formulations	SuperSede Soybean		
Application Information	Crop	Use Rate	Application Timing
	Soybeans	1.0 fl oz per 50 lbs	Seed Treatment
	Peanut	1.0 fl oz per 50 lbs	Seed Treatment



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Symvado® ST			
Product Overview	<p>Symvado® ST is a mycorrhizal inoculant seed treatment powered by MycoApply® Arbuscular Mycorrhizal Fungi (AMF). Symvado ST enhances the root absorption area, resulting in increased nutrient and water uptake and efficiency. It also positively impacts the soil environment for improved soil structure.</p> <ul style="list-style-type: none"> • Extended Root Area • Nutrient Absorption • Water Holding Capacity 		
Guaranteed Analysis: Symvado ST Species of AMF	<p><i>Glomus intraradices</i> (5,625 propagules/ml) <i>Glomus mosseae</i> (5,625 propagules/ml) <i>Glomus aggregatum</i> (5,625 propagules/ml) <i>Glomus etunicatum</i> (5,625 propagules/ml)</p> <p>Active Ingredient 8.73% Other Ingredients 91.27% TOTAL 100.0%</p>		
Formulations	Symvado ST		
Application Information	Crop	Use Rate	Application Timing
	Soybeans	0.13 fl oz per 50 lbs	Seed Treatment
	Rice (Hybrid)	0.33 fl oz per 50 lbs	Seed Treatment
	Rice (Conventional)	0.10 fl oz per 50 lbs	Seed Treatment



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BoronBoost®			
Product Overview	BoronBoost® is a biostimulant that supports grain fill during late season development. Utilizing organic acids from our Transit® biostimulant and key complementary nutrition, BoronBoost improves pollination and supports carbohydrate movement from the leaves to the kernel to maximize grain fill and reduce tip-back. <ul style="list-style-type: none"> • Carbohydrate Mobility • Maximized Grain Fill • Reduced Tip-Back 		
Guaranteed Analysis / Complementary Nutrition	Boron (B) 6.0% Derived from: Boron ethanolamine.		
Formulations	BoronBoost Foliar		
Application Information	Crop	Use Rate	Application Timing
	Corn	1 qt/ac	VT – R2
	Soybeans	1 qt/ac	R1 – R3
	Peanut	1 qt/ac	Pod Initiation

FlexForce®			
Product Overview	FlexForce® is a dual action biostimulant that supports development of the harvestable ear in corn. By pairing organic acids from our Transit® biostimulant, plant extracts, and key nutrition, FlexForce increases leaf area and optimizes photosynthetic pathways to capitalize on the additional growth. <ul style="list-style-type: none"> • Greater Leaf Area • Increased Photosynthesis • More Nutrient Storage 		
Guaranteed Analysis / Complementary Nutrition	Total Nitrogen (N) 1.0% 1.0% Urea Nitrogen Sulfur (S) 3.0% 3.0% Combined Sulfur Iron (Fe) 2.0% 2.0% Water Soluble Iron Manganese (Mn) 1.0% 1.0% Water Soluble Manganese Zinc (Zn) 3.0% 3.0% Water Soluble Zinc Derived from: Urea, ferrous sulfate, manganese sulfate, and zinc sulfate.		
Formulations	FlexForce Foliar		
Application Information	Crop	Use Rate	Application Timing
	Corn	1 qt/ac	V4 – V7



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GrainStar™			
Product Overview	GrainStar™ is a first of its kind plant growth regulator for use in wheat and barley. It simultaneously mitigates late season drought stress and drives grain-fill for greater ROI. <ul style="list-style-type: none"> • Drives Grain-Fill for Greater ROI • Mitigates Late Season Drought Stress 		
Ingredient Statement	Active Ingredient: S-Abscisic Acid 8.6% w/w Other Ingredients 91.4% w/w TOTAL 100.0% w/w Contains a total of 8.6 g of S-Abscisic Acid in 100 g of product.		
Formulations	GrainStar	EPA Reg. No.	73049-535
Application Information	Crop	Use Rate	Application Timing
	Wheat, Barley <i>(Not for use in California)</i>	1 oz/ac	Flag Leaf to 50% Heading

Manron®			
Product Overview	Manron® is a foliar biostimulant that supports photosynthesis and nodulation in soybeans. With organic acids from our Transit® biostimulant and key nutrients, Manron utilizes Transit–chelated manganese to support superior transport in the xylem and phloem. <ul style="list-style-type: none"> • Improved Photosynthesis • Increased Nodulation 		
Guaranteed Analysis / Complementary Nutrition	Sulfur (S) 3.0% 3.0% Combined Sulfur Manganese (Mn) 5.0% 5.0% Water Soluble Manganese Derived from: Manganese sulfate.		
Formulations	Manron Foliar		
Application Information	Crop	Use Rate	Application Timing
	Soybeans	1 qt/ac	V2 – V4

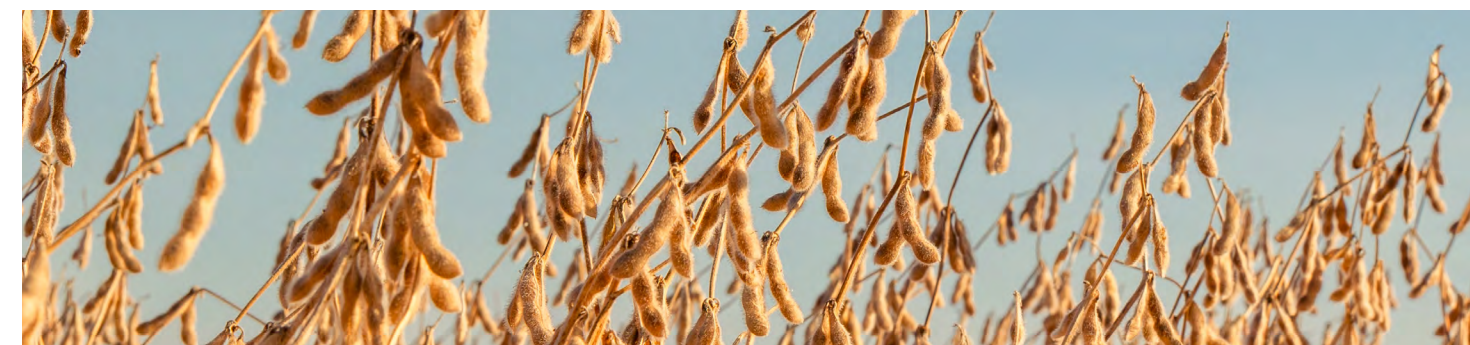


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MicroBlend™ Zn-Mn-B			
Product Overview	<p>MicroBlend™ Zn-Mn-B is a foliar biostimulant that supports photosynthesis and successful pollination. With organic acids from our Transit® biostimulant and key complementary nutrition, MicroBlend Zn-Mn-B utilizes Transit-chelated zinc, manganese, and boron to enhance plant functions for improved yields.</p> <ul style="list-style-type: none"> • Improved Photosynthesis • Improved Pollination • Optimized Formulation 		
Guaranteed Analysis / Complementary Nutrition	<p>Sulfur (S) 3.0% 3.0% Combined Sulfur Boron (B) 0.5% 0.5% Water Soluble Boron Manganese (Mn) 3.0% 3.0% Water Soluble Manganese Zinc (Zn) 3.0% 3.0% Water Soluble Zinc Derived from: Boric acid, manganese sulfate, and zinc sulfate.</p>		
Formulations	MicroBlend Foliar Zn-Mn-B		
Application Information	Crop	Use Rate	Application Timing
	Soybeans	1 qt/ac	V2 – V4
	Corn	2 qt/ac	V4 – V7

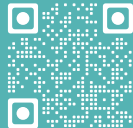
PodOn™			
Product Overview	<p>PodOn™ is a dual action biostimulant that supports pod retention in soybeans. By pairing organic acids from our Transit® biostimulant, plant extracts, and key nutrition, PodOn optimizes transpiration and stomatal regulation to support pod retention for increased bean weight and bean count.</p> <ul style="list-style-type: none"> • Optimized Transpiration • Stomatal Regulation • Pod Retention 		
Guaranteed Analysis / Complementary Nutrition	<p>Manganese (Mn) 1.0% 1.0% Water Soluble Manganese Zinc (Zn) 6.0% 6.0% Water Soluble Zinc Derived from: Manganese sulfate and zinc sulfate.</p>		
Formulations	PodOn		
Application Information	Crop	Use Rate	Application Timing
	Soybeans	1 qt/ac	R1 – R3



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Proliant® Plant Growth Regulator			
Product Overview	Designed for livestock operations, Proliant® is a gibberellic acid (GA3) plant growth regulator that provides enhanced early growth in pasture and hay and silage corn in a unique water-soluble formulation. <ul style="list-style-type: none"> Maximizes Silage Corn Tonnage While Retaining Nutrition Quality Stress Tolerance Extends the Grazing Season on Perennial Grasses Enhanced Growth 		
Ingredient Statement	Active Ingredient: Gibberellin A3 40.0% w/w Other Ingredients 60.0% w/w TOTAL 100.0% w/w Contains a total of 1 g of Gibberellic Acid in 2.5 g of product.		
Formulations	Proliant Plant Growth Regulator Water Soluble Granule	EPA Reg. No.	73049-1
Application Information	Crop	Use Rate	Application Timing
	Corn: Field, Silage, Popcorn, Sweet Corn, Seed Corn Perennial Forage Grasses	2 – 6 g a.i. 5 – 15 g product 0.3 – 0.6 oz product 3 – 11 g a.i. 7.5 – 27.5 g product 0.3 – 1.0 oz product	Apply at V2 – V6 Spring Application: 1 – 3 applications every 3 – 4 weeks starting at green up after 1 – 2 inches of new shoot growth has emerged. Autumn Application: 1 – 3 applications every 3 – 4 weeks starting when forage growth has slowed due to cool temperatures. Best response occurs when average daily temperatures are between 40 °F – 60 °F and adequate moisture and nutrition are present.
Scan the code to learn how you can maximize your tonnage with Proliant Plant Growth Regulator! 			

Proliant® Plant Growth Regulator			
Application Information (Continued)	Crop	Use Rate	Application Timing
	Annual Forage Grasses	3 – 11 g a.i. 7.5 – 27.5 g product 0.3 – 1.0 oz product	Apply 1 – 6 applications every 3 – 4 weeks from autumn to early spring during periods of suboptimal growth due to cool temperatures. If applying to over-seeded pasture or newly established pasture, apply only after seedlings are well established. Best response occurs when average daily temperatures are between 40 °F – 60 °F and adequate moisture and nutrition are present.
	Timothy Hay	0.3 – 1.0 oz product	Spring Application: Apply when forage growth is slow due to cool temperatures. After Cutting: Apply 7 – 14 days after cutting to promote growth.
	Cereal Grains	3 – 11 g a.i. 7.5 – 27.5 g product 0.3 – 1.0 oz product	Spring Application: 1 – 3 applications every 3 – 4 weeks starting at green up after 1–2 inches of new shoot growth has emerged. Autumn Application: 1 – 3 applications every 3 – 4 weeks starting when forage growth has slowed due to cool temperatures. Application to cereal grains during stem elongation (jointing onwards) can result in lodging. Apply during early tillering growth stages prior to stem elongation to avoid lodging. Best response occurs when average daily temperatures are between 40 °F – 60 °F and adequate moisture and nutrition are present.
	Winter Brassicas	3 – 11 g a.i. 7.5 – 27.5 g product 0.3 – 1.0 oz product	Spring Application: 1 – 3 applications every 3 – 4 weeks starting at green up after 1 – 2 inches of new shoot growth has emerged. Autumn Application: 1 – 3 applications every 3 – 4 weeks starting when forage growth has slowed due to cool temperatures. Best response occurs when average daily temperatures are between 40 °F – 60 °F and adequate moisture and nutrition are present.

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SugarMax™ Plant Growth Regulator			
Product Overview	SugarMax™ Plant Growth Regulator is a novel ripening agent for sugarcane. SugarMax promotes ripening and sugar accumulation in plant stems, resulting in greater sucrose availability, higher cane yield, and increased sugar productivity per acre without damaging regrowth. <ul style="list-style-type: none"> • Improved Ripening • Increased Cane Yield • Better Regrowth 		
Ingredient Statement	Active Ingredient: S-Abscisic Acid 20.0% w/w Other Ingredients 80.0% w/w TOTAL 100.0% w/w Contains a total of 20 g of S-Abscisic acid in 100 g of product.		
Formulations	SugarMax Plant Growth Regulator	EPA Reg. No	73049-461
Application Information	Crop	Use Rate	Application Timing
	Sugarcane	0.5 oz/ac	4 – 8 weeks prior to harvest
	Sugar Beets	0.85 oz/ac	Apply when roots have reached harvestable size.

Symvado® Granular			
Product Overview	Symvado® Granular Mycorrhizal Inoculant enhances crop success for greater ROI. Using our unique MycoApply® formulation, Symvado Granular improves nutrient uptake and efficiency, optimizes fertilizer availability, and increases water acquisition and retention. It also positively impacts the soil environment for greater crop production efficiency. <ul style="list-style-type: none"> • Extended Root Area • Nutrient Absorption • Water Holding Capacity 		
Guaranteed Analysis: Symvado Granular Species of AMF	<i>Funneliformis mosseae</i> (33.1 propagules/g) <i>Rhizophagus intraradices</i> (33.1 propagules/g) <i>Claroideoglossum etunicatum</i> (33.1 propagules/g) <i>Claroideoglossum claroideum</i> (33.1 propagules/g) Active Ingredient 0.03% Other Ingredients 99.97% TOTAL 100.0%		
Formulations	Symvado Granular		
Application Information	Crop	Use Rate	Application Timing
	Alfalfa	1.5 – 2 lbs/ac	Planting



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Symvado® SC			
Product Overview	Symvado® SC is a mycorrhizal inoculant liquid formulation powered by MycoApply® Arbuscular Mycorrhizal Fungi (AMF). Symvado SC is specifically formulated for in-furrow or 2x2 applications. Symvado SC extends the root absorption area by up to 50x for season-long access to nutrients and water. <ul style="list-style-type: none"> • Extended Root Area • Nutrient Absorption • Water Holding Capacity 		
Guaranteed Analysis: Symvado SC Species of AMF	<i>Glomus intraradices</i> (381 propagules/ml) <i>Glomus mosseae</i> (381 propagules/ml) <i>Glomus aggregatum</i> (381 propagules/ml) <i>Glomus etunicatum</i> (381 propagules/ml) Active Ingredient 0.25% Other Ingredients 99.75% TOTAL 100.0%		
Formulations	Symvado SC		
Application Information	Crop	Use Rate	Application Timing
	Corn	2 fl oz/ac	In-Furrow, 2 x 2
	Cotton	2 fl oz/ac	In-Furrow, 2 x 2
	Peanut	2 fl oz/ac	In-Furrow, 2 x 2
	Sugarcane	2 fl oz/ac	In-Furrow, 2 x 2

Transit®			
Product Overview	Transit® is a biostimulant that utilizes organic acids to support plant growth and nutrient translocation in the xylem and phloem. Foliar applications of Transit support increased leaf area for greater photosynthetic capacity. Whether soil or foliar applied, once Transit is in the plant, it improves nutrient mobility. <p>Increased nutrient use efficiency leads to:</p> <ul style="list-style-type: none"> • Increased Photosynthesis • Improved Nutrient Mobility 		
Guaranteed Analysis / Complementary Nutrition	Zinc (Zn) 0.5% 0.5% Chelated Zinc Derived from: Zinc EDTA.		
Formulations	Transit Foliar, Transit Soil		
Application Information	Formulation	Crop	Use Rate
	Transit Foliar	Corn	10 fl oz/ac
		Soybeans	10 fl oz/ac
Transit Soil	Corn	8 – 12 fl oz/ac	
			Application Timing
			V4 – V7
			V2 – V4
			Side-dress



This is not the complete label; see label for complete Directions for Use. Always read and follow label instructions. For the full product warranty, terms, and conditions, please visit www.warrantydetails.net or contact us at 1-877-696-4204. Tank mix compatibility is impacted by water quality. When mixing products, always establish compatibility using a standard jar test prior to tank mixing. Not all products listed are registered and available in all 50 states.

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Soil and Foliar Solutions

Zicron®			
Product Overview	<p>Zicron® is a dual action biostimulant that supports boll development and retention in cotton. By pairing organic acids from our Transit® biostimulant, plant extracts, and key nutrition, Zicron optimizes transpiration and stomatal regulation to support boll development and retention for increased lint.</p> <ul style="list-style-type: none"> • Optimized Transpiration • Stomatal Regulation • Boll Development and Retention 		
Guaranteed Analysis / Complementary Nutrition	<p>Sulfur (S) 3.0% 3.0% Combined Sulfur Manganese (Mn) 1.0% 1.0% Water Soluble Manganese Zinc (Zn) 6.0% 6.0% Water Soluble Zinc Derived from: Manganese sulfate and zinc sulfate.</p>		
Formulations	Zicron Foliar		
Application Information	Crop	Use Rate	Application Timing
	Cotton	1 qt/ac	Pinhead to Match-head square
	Rice	1 qt/ac	Four Leaf – Tillering
	Alfalfa	2 qt/ac	After 1st Cutting



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