											Application Rate			Rate					May Be Mixed With					
		Characteristics>	Purpose	Active Ingredients	Nutrients	Dry or Liquid	Watch-Outs	Biological or BioStimulant	SA	ST	SC	PB	LiF	F	Shelf Life	Starters	UAN	PGRs	Herbicides	Glyphosate	Pesticides	Insecticides	Fungicides	Labeled Crop
		Products																						
	Seed Treatment	Dri-Fecta	Seed Drying - Shine - Flow agent	Titanium Mica Soy protein amino acid (DUST)		L				.8 oz/unit														Any
	Planter Box	DUST	A superior bio-complex microbe carrier, seed and planter parts lubricant	Bio-complex soy protein amino acid blend		D		BioStimulant				0.5 oz/unit			5 years									Any
	Planter Box	DUST+B4	soil. Shows natural antifungal properties. Already blended with a superior bio-complex carrier and	Brevibacillus laterosporous Bacillus licheniformis Bacillus amyloliquefaciens Bacillus pumilus Soy protein amino acid (DUST)		D		Both				0.5 oz/unit			2 years									Any
	Planter Box	MycoGold + DUST Corn	Also prevents various soil-borne pathogens and insect pests from crop damage. Provides top-end singulation and is	Endomycorrhizal Fungi Beauveria Bassiana Fungi Azotobacter Rhodopseudomonas palustris Fortlifed Aminos Humates Soy protein amino acid (DUST)	Iron (Fe) 2.0% Manganese (Mn) 0.50% Magnesium (Mg) 2.0% Boron (B) 0.050% Cobalt (Co) 0.0020% Molybdemum (Mo) 0.0010% ZinC (Zr) 6.0% Suffur (S) 5.0% Calcium (Ca) 8.0% Copper (Cu) 0.15%	D	120 hour window after mixed with seed (dry application) 4 week window after treated with seed (liquid Slurry application)	Both				2 oz/unit			2 years									Corn
TION	Planter Box	MycoGold + DUST Soybeans	Will accelerate growth, enhance root system, colonizes roots, and provide superior drought stress protection. Also prevents various soil-borne pathogens and insect pests from crop damage. Provides top-end singulation and is less abrasive to seeds than talc and graphite.	Endomycorrhizal Fungi Beauveria Bassiana Fungi Azospirillum Azotobacter Bradyrhizobia Japonicum Fortified Aminos Humates Soy protein amino acid (DUST)	Iron (Fe) 2.0% Manganese   (Mn) 0.50% Magnesium (Mg)   2.0% Boron (B) 0.050%   Cobalt (Co) 0.0020% Molybdenum   (Mo) 0.0010% Zinc (2n) 2.0%   Suffur (S) 5.0% Calcium   (Ca) 8.0% Copper (Cu) 0.15%	D	120 hour window after mixed with seed (dry application) 4 week window after treated with seed (liquid Slurry application)	Both				2 oz/unit			2 years									Soybeans
DRY APPLICATION	Planter Box	Nutriquire+DUST+TS401	Intended to increase the active biomass in the soil. Introduces microbes into the soil resulting in improved nutrient cycling. Allows plants to more effectively utilize nutrients while providing superior and safe seed lubrication	Bacillus subtilis Pseudomonas putida Humic Acids Stimulate siderophores for Iron Solubilization Soy protein amino acid (DUST)		D	180 day life on seed dry application	Both				0.5 oz/unit			9 months									Soybeans
	Planter Box		Intended to increase the active biomass in the soil. Introduces microbes into the soil resulting in improved nutrient cycling. Allows plants to more effectively utilize nutrients while providing superior and safe seed lubrication	Bacillus subtilis Pseudomonas putida Humic Acids Stimulate siderophores for Iron Solubilization Soy protein amino acid (DUST)		D	180 day life on seed dry application	Both				0.5 oz/unit			9 months									Corn
	Planter Box	Terrasym401 + DUST	Helps improve emergence, early plant vigor and nodulation. Allows plants to more effectively utilize nutrients while providing superior and safe seed lubrication	Methylobacterium hispanicum Soy protein amino acid (DUST)		D	180 day life on seed dry application	Both				0.5 oz/unit soybeans 0.5 oz/25,000 sunflower seeds			9 months									Soybeans Sunflowers
	Planter Box	Terrasym450 + DUST	Helps improve emergence, early plant vigor and root growth. Allows plants to more effectively utilize nutrients while providing superior and safe seed lubrication	Methylobacterium gregans Soy protein amino acid (DUST)		D	180 day life on seed dry application	Both				0.5 oz/unit corn 0.5oz/unit 50,000 sorghum seeds			9 months									Corn Sorghum
	Planter Box	Terrasym450+DUST+TS201		Methylobacterium gregans Methylorubrum extorquens strain NLSO042 Soy protein amino acid (DUST)		D	180 day life on seed dry application	Both				0.5 oz/unit corn			9 months									Corn
	Seed Treatment	Azo	Fixes atmospheric N and increases plant health in all plants.	Azospirillum brasilense bacteria		L	7 day life on seed	Biological		1 oz/unit			16 oz/acre		1 year									Any
	Seed Treatment Liq- in-Furrow	84		Brevibacillus laterosporous Bacillus licheniformis Bacillus amyloliquefaciens Bacillus pumilus		L	2 years life on seed	Biological		0.5 oz/unit			16 oz/acre											Any
	Seed Treatment Follar	COTE Foliar	Soy protein amino acid polymer used to coat seed or coat leaf to deliver amino acids and other beneficial ingredients. Healthy carrier of biology and biostimulants. Wettable powder in water 45 degrees or warmer.	Soy protein amino acid complex		L	2 years life on seed	BioStimulant		0.5 oz/unit				2 oz/acre	3 or more years									Any
	Seed Treatment Foliar	CrownEx		Bacillus Megaterium Bacillus lichenformis Soluble Potash		L	Can apply in spring at greenup but do not apply with 25% nitrogen unless using boom injection system	Both		1 oz/unit				16 oz/acre with 10-20 gal			No	No	Yes	No	Yes	Yes	No	Wheat & Small Grains

	Liq-in-Furrow Foliar	0829	Feeds soil & plant bacteria	Mineral feed for soil & plant bacteria		L	Watch high salt fertilizer	BioStimulant				16 oz/ acre with 3 gal	16 oz/acre with 10 gal	2 years	Yes			Yes	Yes	Yes	Yes	Yes	
	Liq-in-Furrow Follar	Envita	Nitrogen fixation and increased phophorus efficiency	Gluconacetobacter diazotrophicus		L	and strong infurrow micronutrient mixes, mix and plant or spray within 4 to 8 hours, For wheat in spring do not apply with 28% unless with boom injection system	Biological				0.8 oz/acre	0.8 oz/acre		Yes	No	Yes	Avoid Group 4	Yes	Yes	Yes	Yes	
	Foliar	Forti-5 PAAC (Proprietary Amino Acid Chelate Micronutrients)	To provide bioavailable nutrients to your crops.	Micronutrients chelated in amino acid form, no-charge particles	3-0-0 Total Nitrogen 3.0% Magnesium 0.9% Sulfur 2.0% Boron 0.5% Copper 1.0% Manganese 0.5% Zinc 1.0%	L	Protect from freezing For Foliar application (not in-furrow)						16 oz/acre with 20 gal			Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Liq-in-Furrow Follar	rrenzy	A biotechnology that is a proven enzyme for helping plants withstand and recover from stress, while increasing nutrient efficiency.	9-Tricarboxalic Acid		L		BioStimulant				16 oz/ acre with 3 gal water or fertilizer mix	16 oz/acre with 10-20 gal	2 years	Yes	Yes	Yes	Yes	Yes	Yes		Yes	
LIQUID APPLICATION	Seed Treatment Liq-in-Furrow Foliar Soll Amendment	Growthful	Polyelectrolyte H ion liquid which provides energizing activity to nutrient mixes and the soil structure to release nutrients from the soil particle and keep nutrients and fertilizer more available in soil solution, provides hydrogen ion for moving materials into plant leaf & within plant.	Polyelectrolyte Hydronium Ion		L	See label for full details on rates for different crops and applications					16 oz/ acre with 3 gal	12.8 oz/acre with 10 gal	5 years	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
LIQ	Seed Treatment Lig- in-Furrow Follar	lon£x	Selected to support, enhance or supplement plant functions. Unlocks a plant's ability to produce growth regulators and metabolites.	Pseudomonas fluorescence Soluble Potash		L	Watch high salt fertilizer and strong infurrow micronutrient mixes, mix and plant or spray within 4 to 8 hours	Both		1 oz/unit		16 oz/acre with 5 gal	16 oz/acre with 10-20 gal		Yes		No	Yes	No	Yes	Yes	Yes	Co gra
	Follar	NutriPhi	Stalk degradation/Soil Remediation Manure/Compost Management	Bacillus Pseudomonas Arthobacter Actinomycetes		L		Both					1-2 quarts/acre with 15 gal over stalks			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Bro
	Soil Amendment Lig-in-Furrow Follar	Nutriquire	Intended to increase the active biomass in the soil. Introduces microbes into the soil resulting in improved nutrient cycling.	Bacillus subtilis Pseudomonas putida Humic Acids		L		Both	32 oz/acre			32 oz/acre	32 oz/acre		Yes	Yes	Yes	Yes	Yes	Yes	No	No	
	ieed Treatment Liq- In-Furrow Foliar	Phenom	Nitrogen fixation and increased phophorus efficiency	Pseudomonas siliginis Curtobacterium salicaceae		L	Watch high salt fertilizer and strong infurrow micronutrient mixes, mix and plant or spray within 4 to 8 hours	Biological		1 oz/unit		16 oz/acre	16 oz/acre	10 months	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	
	Liq-in-Furrow Foliar	Rizosphere	Food for soil microbes increasing the aeration of the soil; promotes a better environment for root development and overall plant health.	3 natural growth hormones Thyme oil Essential organic compounds	70 micro-nutrients (see label for complete list)	L	See label for full details on rates for different crops and applications	Both				4 oz/acre	4 oz/acre	2 years	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
	Seed Treatment	Soy30	High concentrate premium nitrogen fixing nodule production on soybeans	Bradyrhizobium japonicum bacteria		L	30 day life on seed	Biological		0.5 oz/unit				9 months							No	No	So
	Seed Treatment	5ογ7	Nitrogen fixing nodule production on soybeans	Bradyrhizobium japonicum bacteria		L	7 day life on seed	Biological		1 oz/unit											No	No	Soy
	Foliar	SoyFx	Improves soil structure creating a better plant root environment	Bacillus megaterium Bacillus Pumilus Soluble Potash		L	Watch high salt fertilizer and strong infurrow micronutrient mixes, mix and plant or spray within 4 to 8 hours	Both		4oz/unit													So
	Seed Treatment	Stride	Extends on-seed life of Soy30 by an additional 40-80 days	Biological food source		L		Biological		.25oz/unit adds 40 days 0.5oz/unit adds 80 days				2 years									Soj
	Foliar	Viald Inciden	Increases root mass in corn and nodulation in soybeans which greatly increases water, nitrogen and other nutrient uptake, leading to healthier and more durable plants.	Humic/Fulvic Acid 3% & NPK	N 9% - P 9% - K 3%	L						32 oz/acre	32 oz/acre		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Spray - Wash- Mister - Wipe	BAC Ag (Botanical Anti-Microbial Cleaner)	Tackles surface-damaging mold, organisms, pests and insects, making it the leading antimicrobial cleaner for commercial, residential and agricultural use.	Thyme Oil Lemongrass Oil		L	see label for application and usage instructions																
	Spray Mister Drone	BigShot Maxim Botanical Insecticide	Botanical insect solution that works. Provides 3-4 week residual.	Cedarwood Oil Cinnamon Oil Thyme Oil		L	see label for application and usage instructions																

	LeafTech Scanner (use of Unit and Subscription)	Delivers an on-demand handheld "digital lab" that geo-locates and analyzes a plant's leaf for nutrient composition. Removes the time delay to send samples and reduces cost.	Spectral Signal Scanning (not transmittance)	12 metrics found on standard lab leaf tissue sampling	Consult with NewFields Ag regarding use and benefits								Corn Soybeans Cotton
		cost.											