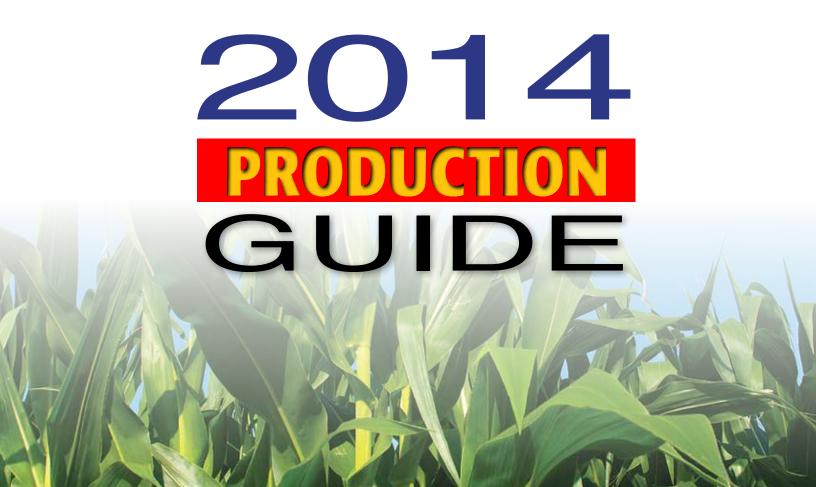


# **AGRONOMY**





# United Farmers Coop Agronomy Team





Plant Analysis

# **Nutra-Links**Plant Analysis Program

Plant Sampling Program to Agronomically Interpret
Plant Nutritional Status and To Link that Data to a
Foliar Product Rate and Timing Application

Seed Treatment



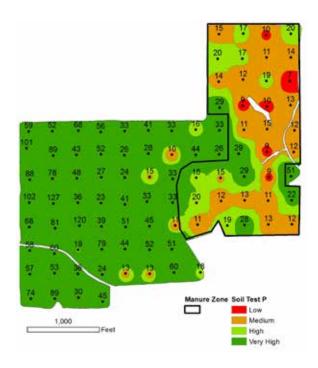
PROTECTION. PERFORMANCE. PROFIT.

INOVATE® Seed Protectant is a state-ofthe-art soybean seed protectant that helps growers improve plant stand and provide healthier plants resulting in increased yield and return on investment.



- Super-systemic and contact protection from yieldrobbing diseases including Rhizoctonia, Fusarium, Pythium, seed-borne fungi and more
- Leading edge management tool for unmatched protection from wireworm, white grub, seed corn maggot, bean leaf beetle, aphid and thrips
- Lock Tight<sup>™</sup> Technology offers ease of use, outstanding retention on the seed, excellent plantability and unmatched protection of the grower's single most important input – the seed

# **Grid Sampling**



# **Custom Applica**





LG5470



98 Day

Plant

Height

MT

**Traits** 

VT2Pro Rib Conventional

RR2

Dominant performing hybrid in this maturity Widely adapted to all soil types Very good stalks and roots

, 6						
Drought	Stalk	Goss's	Emer-	Corn on	Fungicide	Seeding
Tolerance	Strength	Wilt	gence	Corn	Response	Rate

**LG2501** 





9

**100 Day** 

**Traits** 

VT3Pro Rib VT2Pro Rib

30-36

An a attractive high yielding hybrid at harvest Superior heat, Dr ought and stress tolerance Very good emergence and standability

•					Fungicide	•	
Tolerance	Strength	Wilt	gence	Corn	Response	Rate	Height
8	8	6	8	8	9	28-34	MT

LG5499





**100 Day** 

**Traits** 

STX Rib

VT2Pro Rib Conventional RR2

Dominant performance

Solid agronomics

A must plant

Drought Tolerance					Fungicide Response		
8	9	7	9	9	7	30-36	М

LG5522





**103 Day** 

**Traits** 

VT3Pro Rib VT2Pro Rib

RR2

The earliest true flex ear

Very healthy plant Plant at moderate population

		1 1					
•					Fungicide Response	_	
8	8	7	8	7	7	26-34	МТ

**3699VT3P/RIB** 

VT2P/RIB

**CROPLAN** w WINFIELD

96 Day

**Traits** 

RR

Excellent emergence and seedling vigor

Good heat and moisture stress; very good Goss's wilt tolerance Good ear flex works west very well

Drought Tolerance					Fungicide Response		Plant Height
9	8	6	8	9	М	28-32	MT

4099SS/RIB

Traits

**CROPLAN** w WINFIELD

99 Day

Tall racehorse-type hybrid

Like's heat; very good Goss's wilt tolerance

Excellent yield potential, roots and late season harvest appearance

Drought	Stalk	Goss's	Emer-	Corn on	Fungicide	Seeding	Plant
Tolerance	Strength	Wilt	gence	Corn	Response	Rate	Height
7	7	7	8	3	М	28-34	MT

4199SS/RIB

**CROPLAN** WINFIELD

**101 Day** 

**Traits** 

VT2P/RIB

Excellent seeding vigor

Likes heat

A must plant

Drought Tolerance				Fungicide Response		
7	9	5	9	М	30-36	М

4975VT3P/RIB

**CROPLAN** w WINFIELD

Traits

**102 Day** 

# VT2P/RIB

Excellent Goss's wilt tolerance and corn-on-corn performance Above average staygreen and late season intactness responses to management, push population

Drought Tolerance					Fungicide Response	_	
8	7	7	8	5	М	26-34	М





# C1917R2



1.9 Mat

# **Traits**

### RR2

A proven variety in the area High yielding excellent emergence Clusters pods above leaf canopy

Plant		Iron				White
Height	Standability	chlorosis	Phytophthora	Shatter	Plant type	mold
MT	7	7	Rps1c/1k	8	М	7

# C2175R2





2.1 Mat

# **Traits**

**Traits** 

Excellent and high yield potential Excellent against white mold **Excellent against IDC** 

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter	Plant type	White mold
MT	9	8	Rps1c	8	MB	7

# C2222R2





2.2 Mat

Dominant performance Solid agronomics

A must plant

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter	Plant type	White mold
MT	8	7	Rps1k	8	MB	7

# C2259LL





2.2 Mat

# **Traits**

# Liberty

Great yields Very healthy plant Tolerant to Liberty

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter	Plant type	White mold
MT	8	7	Rps1k	8	В	7

# R2C1750PrPak



1.7 Mat

**Traits** 

Great for tough PRR situations

**Excellent IDC tolerance** 

Very good SWM,SDS,BSR tolerance

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter			Genetic placement
М	8	8	Rps1k		Int/ Bush	7	Def/off

# R2C2072



2.0 Mat

**Traits** 

BSR resistance

Rps1c gene for PRR resistance

Very good SDS tolerance

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter			Genetic placement
	7	_	Durata		Int/	_	D-4/-#
M	/	/	Rps1c		Bush	ь	Def/off

# R2C2200 PrPak



2.2 Mat

**Traits** 

Awesome high-end yield potential Very good defensive package

Above average SDS, BSR,SWM and IDC ratings

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter			Genetic placement
M-T	8	7	Rps1c, 1k		Int/ Bush	7	Off/def

# R2C2263





2.2 Mat

**Traits** 

Consistent across environments Excellent across soil types including heavy clays

Rps1k gene for PRR resistance

Plant Height	Standability	Iron chlorosis	Phytophthora	Shatter			Genetic placement
М	7	7	Rps1k		Int	7	Off/def

# THERE'S A TWO LETTER DIFFERENCE BETWEEN DEFICIENT AND EFFICIE N T.

N&P

This year reduce your fertilizer deficiency with fertilizer enhancers from SFP®. Maximize your fertilizer efficiency with AVAIL® Phosphorus Fertilizer Enhancer and NutriSphere-N® Nitrogen Fertilizer Manager.

For more information, talk to your dealer or visit **sfp.com** today.

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# Foundational Microbial Seed Inoculant for Increased Yield

The live microorganisms in QuickRoots are a specific bacterium, Bacillus amyloliquefaciens and a specific fungus, Trichoderma virens—which quickly colonize the root system, producing novel enzymes that can release soil nutrients from the soil profile and make them available to the plant throughout the growing season. The result of the increase in nutrient uptake has been proven to:

- · Provide Consistent, Profitable Yield Response
- · Improve Nutrient Uptake, Including NPK
- · Enhance Seedling Vigor
- · Maximize Yield Potential
- · Expand Root Volume
- · Accelerate Plant Growth
- · Increase Nodulation in Legumes

QuickRoots Complements Many Fungicide and Insecticide Seed Treatments

The yield response consistently generated by QuickRoots is not duplicated by other seed treatments. While QuickRoots performs independently, its synergistic beneficial bacterial and fungal component with a dual mode of action often provides an additional yield boost when combined with other products.

# **QuickRoots**

is a foundational,
microbial, seed inoculant
proven in field trials to
increase seedling vigor, root
volume, root mass and fine
root hairs, increasing uptake
of certain nutrients
including NPK, which leads
to optimal plant vigor
and increased
vield response.

QuickRoots is available in both Wettable Powder and Dry Planter Box formulations, designed per crop for optimal agronomic and economic performance on:

Alfalfa Cotton Sugar Beets
Canola Pulse Crops Sunflowers
Corn Soybeans Wheat

CONTACT TJ TECHNOLOGIES OR YOUR DEALER TO LEARN MORE.











# **BRANDT Smart Trio**<sup>®</sup>

**Foliar Nutrient Delivery** 

BRANDT Smart Trio\* is a proprietary blend of nutrients, including Zinc, Manganese and Boron. Designed for row crops, this solution can be tank mixed with most post-emergence herbicides, for easy and efficient application. It helps reduce plant stress from post-emergent herbicides and improves plant health, quality and yield.



GROWTH EARLY NUTRITION EARLY UPTAKE EARLY MANGANESE ON-TIME BORON ON-TIME CALCIUM IRON-TI COPPERION-T ZINCLIA

SUIGIE

# Right place. Right time.

RIEVITTA

The superior placement and enhanced availability of Wolf Trax® DDP® Micronutrients guarantee more consistent, early plant uptake for optimum growth and productivity.

Ask for Wolf Trax and deliver micronutrients to your crops on time. Call 855.237.9653, or visit wolftrax.com.





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- Excellent Disease Control and Plant Health benefits
- Unique, Best-in-Class triazole
- Delivers Maximum Protection



- Provides continuous disease protection
- Proven plant health benefits
- More consistent performance for maximum yield potential
- Innovation for soybean disease management



-	



### **Notice to Buyer:**

EXCLUSION OF WARRANTY AND LIMITATIONS OF LIABILITY. We warrant the seeds sold are as described on the label within legally recognized tolerances. THE FOREGOING IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE WHICH ARE HEREBY EXPRESSLY DISCLAIMED. Without limiting the foregoing, it is expressly agreed that the seller makes no warranty, expressed or implied, as to the yield, quality or tolerance to disease, insect or growing conditions of the seed or the crop produced therefrom. In any event, it is expressly agreed that the seller's liability to the buyer or other (whether such loss results from breach of warranty orcontract, negligence or any other theory of liability) shall be limited to the purchase price of the seed. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY CONSEQUENTIAL OR SPECIAL DAMAGE SUSTAINED BY THE BUYER OR ANY OTHER PERSON. THE ABOVE DISCLAIMERS ARE VOID IN STATES WHERE PROHIBITED BY LAW.

- A. Buyer represents that he is purchasing the seed solely for purposes of planting and that the seed, and any product from the seed, shall not be resold or used as seed.
- B. Buyer agrees not to alter, or permit the alteration of the seed, or product of the seed, through genetic techniques or otherwise.
- C. Buyer acknowledges that failure to adhere to the above provisions would substantially damage the supplier/developer who has a substantial investment in this seed product.

### **BENEFITS OF NEW SEED**

### Convenience

- · High quality and high yield potential product vs. bin-run
- · Reliable seed supply in many maturities

Economics of New Seed vs. Bin-Run

- Average loss of ~10–15% cleanout at harvest for bin-run seed
- Bin-run planting rates are generally 15% higher than new certified seed Limited Warranty Benefits
  - Dealer agronomic support before and after the sale
  - Risk management benefits of Roundup Rewards® (over \$600 million in benefits paid)

### New Innovations

- Monsanto's 100% commitment to agriculture
- Our very preliminary estimate is that farmers get a \$6 benefit for each \$1 spent on private sector research.

### SOYBEAN PIRACY STATEMENT

Seeds containing the Roundup Ready® trait and the Genuity® Roundup Ready 2 Yield® trait are protected under numerous United States patents, including Patent No. RE39,247. It is unlawful to save Roundup Ready® Soybeans or Genuity® Roundup Ready 2 Yield® Soybeans for planting or transfer to others for use as a planting seed.

### LIBERTYLINK PATENT STATEMENT

Soybean seeds containing the LibertyLink® trait are protected under multiple United States patents and may be planted only to produce one (1) commercial crop and only after signing a Grower Trait License agreement. It is illegal to save or catch soybean seeds containing the LibertyLink trait for use as planting seed or for transfer to others for use as planting seed.









Before opening a bag of seed, be sure to read and understand the stewardship requirements, **ncluding applicable refuge requirements for insect resistance management**, for the biotechnology traits expressed in the seed as set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comly with those stewardship requirements.

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Growers of Genuity® SmartStax® are required to plant a structured refuge as mandated by the EPA. See the IRM Grower Guide for details. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and vears whenever possible.

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