



# Making Fungicide Programs Better

Higher Yields ■ Enhanced Disease Control ■ Reduced Risk of Resistance

REGALIA® Rx is an advanced, broad-spectrum biofungicide that activates plants' natural defenses to improve plant health, combat fungal and bacterial diseases, and boost yield performance. Add REGALIA Rx to the mix and benefit from a crop that is healthier, stronger, and more productive.

## THE VALUE OF REGALIA RX

### Higher Yields and Healthier Plants

REGALIA Rx increases leaf chlorophyll content, leading to enhanced photosynthetic activity; this activity can result in more vigorous plants and higher yields. REGALIA Rx also increases lignification, which strengthens cell walls. This improves the physical barrier to attacking pathogens and has the potential to improve standability and/or reduce lodging.

### Broad-Spectrum Disease Control

Using REGALIA Rx—a preventive biological fungicide—in rotation, or mixed with synthetic fungicides, improves overall disease control by delivering more modes of action against the target pathogen.

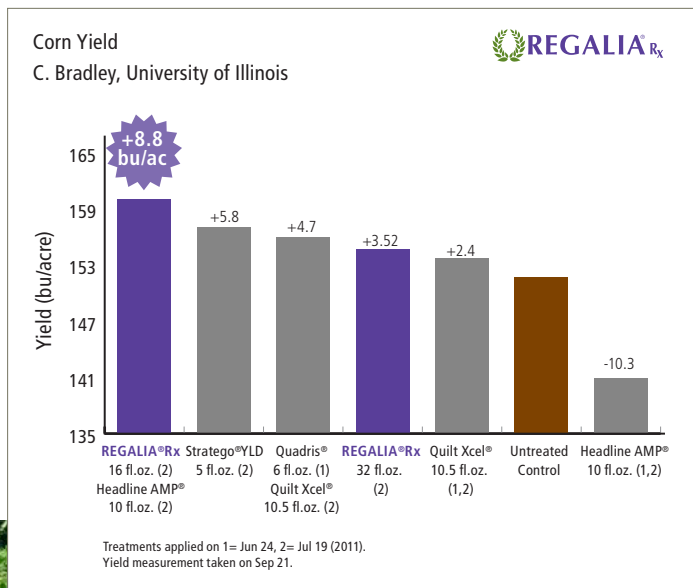
### Ideal for Resistance Management Programs

Resistance to fungicides with a single site of activity is increasingly common. Conversely, REGALIA Rx features multiple modes of action, which minimizes the risk of resistance and can help extend the life of synthetic fungicides when used in rotation or in a tank mix.

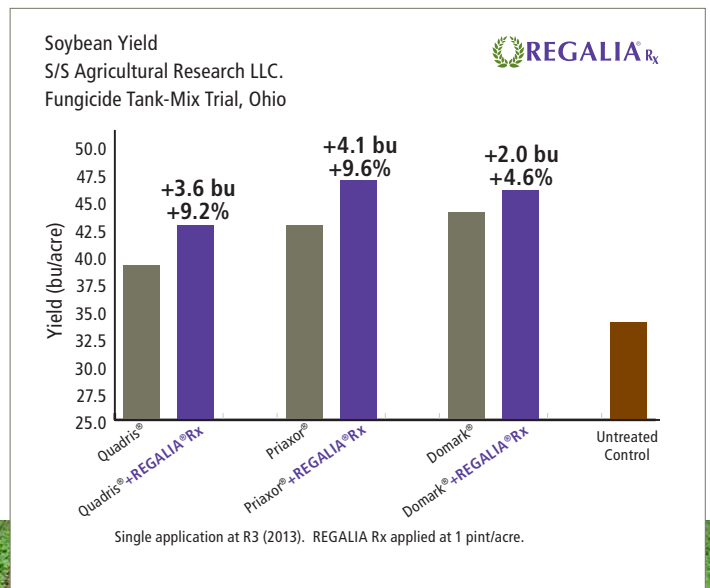
### No Yield Drag

Unlike many fungicides, which can negatively affect yield potential, REGALIA Rx has no yield drag.

REGALIA Rx mixed with Headline AMP® outyielded all other products and mixes.



Added to the tank, REGALIA Rx boosts the performance of synthetic fungicides.



## THE SCIENCE OF REGALIA RX

REGALIA Rx has multiple modes of action collectively referred to as Induced Systemic Resistance (ISR). When applied to crops, REGALIA Rx creates a defense response in treated plants, improves vigor, and promotes growth. The result is a crop that is healthier, stronger, and more productive.

### INHIBITS PATHOGEN GROWTH

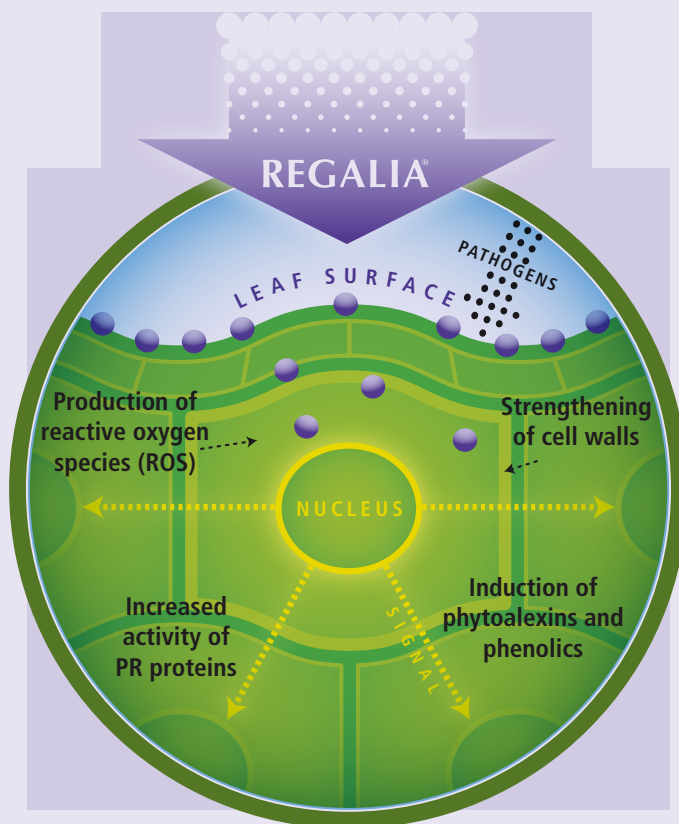
ISR triggers the creation of several antimicrobial compounds that help treated plants inhibit and restrain pathogen growth. In plants treated with REGALIA Rx, phytoalexins and phenolic compounds are induced, activity of defense-related PR proteins is increased, and levels of reactive oxygen species (ROS) are elevated.

### STRENGTHENS CELL WALLS

ISR signals the plant to accumulate more lignin, which thickens and strengthens cell walls. This added strength helps protect against penetration by pathogens and lends structural integrity to the plant.

### PROMOTES PLANT GROWTH

In addition to disease control, REGALIA Rx also enhances plant health by stimulating the production of phytohormones and chlorophyll—a critical compound in photosynthesis, the energy-producing reaction in plants. Higher energy production can lead to more vigorous plant and root growth and, ultimately, yield increases.

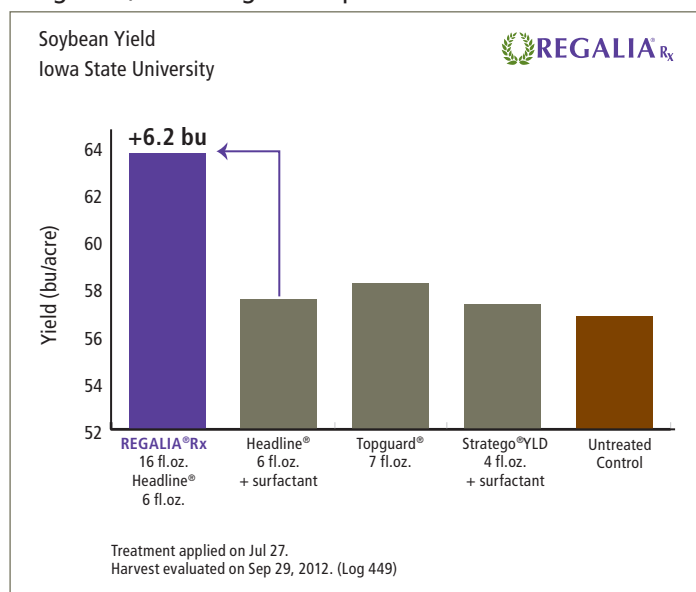


## PROVEN PERFORMANCE

Commercial harvest data, as well as replicated university and third-party research trials, show that adding REGALIA Rx resulted in healthier crops and increased yield.



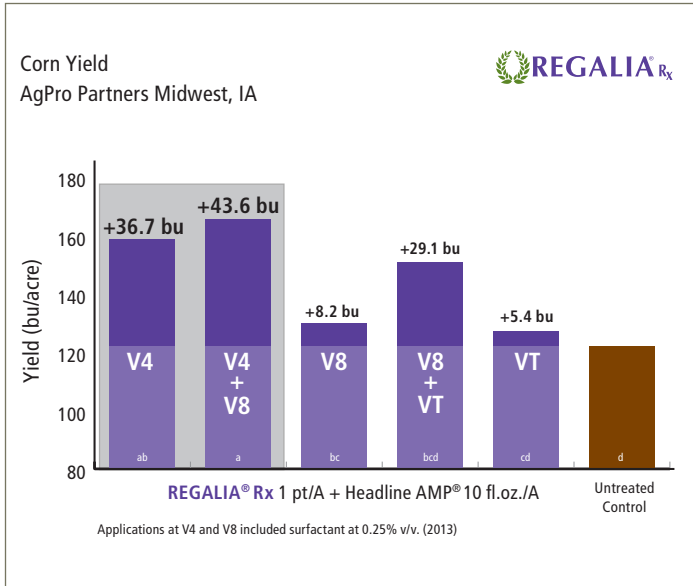
REGALIA Rx has been shown to synergize with synthetic fungicides, enhancing overall performance.



# REGALIA Rx activates plants' natural defenses to protect against disease and increase yield.



Early applications produce higher yields.



REGALIA Rx-treated plot produced larger, fuller ears.



(Left) Untreated (Right) REGALIA Rx 1 pint w/Quilt<sup>®</sup> 10.5 oz./acre

REGALIA Rx helps promote plant growth by increasing the production of chlorophyll; treated plots show greener coloring.



Soybean field treated with synthetic fungicide; plot in back left corner was treated with synthetic fungicide + REGALIA Rx at 1 pint/acre.





*REGALIA Rx acts preventively. Don't wait for a disease to develop; for optimum results, apply REGALIA Rx before the first sign of disease.*

PRODUCT CHARACTERISTICS	
MODE OF ACTION	Induced Systemic Resistance (ISR)
FRAC CODE	P5
ACTIVITY	Preventive with biostimulant activity
RESISTANCE RISK	Low
REI	4 hours
PHI	0 days
FORMULATION	Liquid
RAINFASTNESS	1 hour
ORGANIC USE	OMRI approved and NOP compliant
MRL	Tolerance exempt
SPRAY BUFFER	None required
USE RESTRICTIONS	No restrictions on number of applications

**USING REGALIA RX FOR PLANT HEALTH AND DISEASE CONTROL**

	CORN	SOYBEANS
LABELED DISEASES	Anthracnose Leaf Blight Gray Leafspot Northern Leaf Blight	Northern Leaf Spot Eye Spot Southern Leaf Blight
TIMING	For plant health benefits: Apply at V4–R1. For most consistent results apply between the V4–V8 growth stages.  For control of labeled diseases: Apply REGALIA Rx when conditions are conducive for disease development or when disease is first detected in the field.	For plant health benefits: Apply between R1–R3 growth stages.  For white mold control: Apply REGALIA Rx in combination with another fungicide labeled for white mold when conditions are conducive for disease development, typically at the R1 growth stage followed by a second application at the R3 growth stage.
RATES FOR GROUND APPLICATION	For plant health benefits: Apply 1 pint of REGALIA Rx in a minimum of 15 gallons of water per acre, in a tank mix with a strobilurin or triazole fungicide.  For disease control and enhanced plant health: Apply REGALIA Rx at 1 quart per acre in a minimum of 15 gallons of water.  ORGANIC PRODUCTION: Apply REGALIA Rx at 1 quart per acre in a minimum of 15 gallons of water.	
RATES FOR AERIAL APPLICATION	For plant health benefits: Apply 1 pint of REGALIA Rx in a minimum of 5 gallons of water per acre, in a tank mix with a strobilurin or triazole fungicide.  For disease control and enhanced plant health: Apply REGALIA Rx at 1 quart per acre in a minimum of 5 gallons of water.  ORGANIC PRODUCTION: Apply REGALIA Rx at 1 quart per acre in a minimum of 5 gallons of water.	
COMPATIBILITY	REGALIA Rx (Group P5) is shown to be compatible with Group 11 fungicides such as Headline® and Quadris®, and with Group 3/11 pre-mixes such as Headline AMP®, Quilt Xcel®, and Stratego® YLD. If compatibility with another product is unknown, a jar test should be conducted.	

Always read and follow label directions.



FOR ADDITIONAL INFORMATION, CONTACT YOUR LOCAL RETAILER OR MARRONE BIO INNOVATIONS:  
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