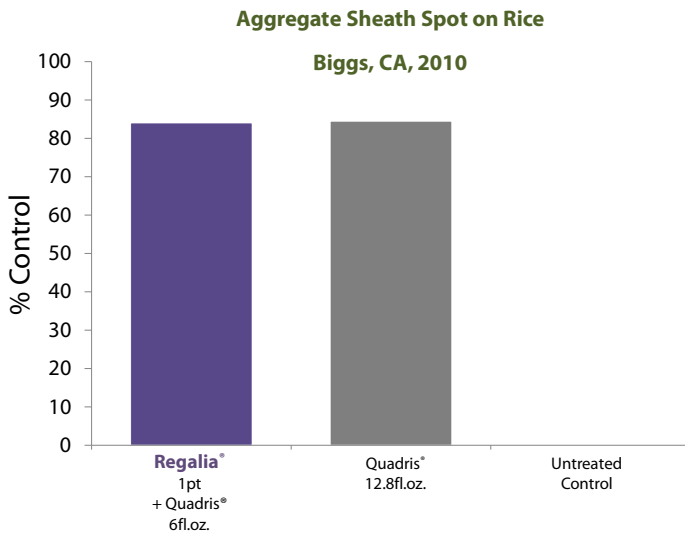




Disease Control on Rice

Improve Yield and Control Disease

Foliar diseases reduce yields in rice. Regalia® is registered for Aggregate Sheath Spot, Stem Rot, Sheath Blight, and Blast*, so rice growers get a broad spectrum of activity with one powerful product. Independent research conducted in Biggs, California proves that yield is increased by applying a low rate of Regalia with a low rate of Quadris®. In the trial, the Regalia/Quadris program resulted in a yield increase of 7.4 CWT per acre.

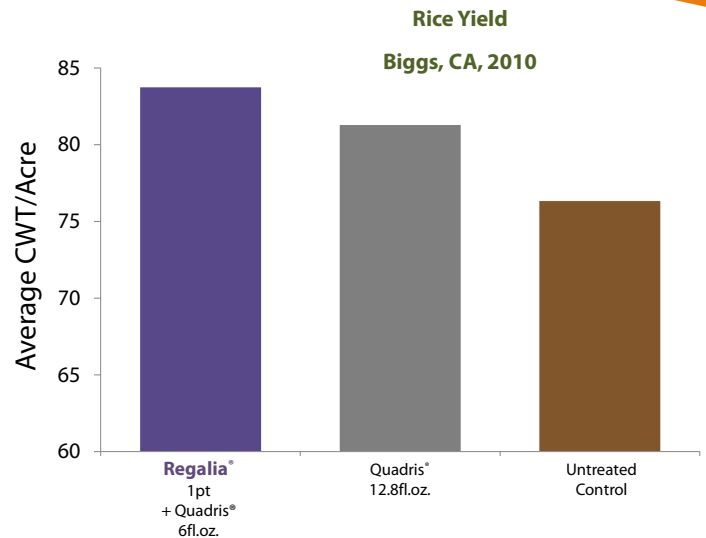


Regalia® plus a low rate of Quadris® is as effective as a high rate of Quadris® alone on Aggregate Sheath Spot.

How Regalia Works

When treated with Regalia, the defense systems of crops are 'switched on' to protect against attacking diseases. Research proves that plants treated with Regalia produce and accumulate elevated levels of specialized proteins and other compounds known to inhibit fungal and bacterial diseases. Regalia induces a plant to produce phytoalexins, cell strengtheners, antioxidants, phenolics, and PR proteins, which are all known inhibitors of plant pathogens.

* Regalia is not registered for Rice Blast in California.



Regalia®/Quadris® tank mix program improves yield in Rice.

Resistance Management

Most rice fungicides contain the same two types of active ingredients: 1. Strobilurins like azoxystrobin (Quadris®) and trifloxystrobin (Stratego®), and 2. Triazoles like propiconazole (Tilt®). Over time, plant diseases are known to become resistant to these types of compounds, and growers should rotate with other chemistries to delay the development of resistance (see chart on back). Many growers have used Quadris on rice for over ten years and this can accelerate the development of resistance. Regalia has a unique mode of action and can be used in combination with triazole and strobilurin fungicides for improved performance and resistance management.


Aerial Application

Regalia can be applied with Quadris by aerial application on rice. Apply Regalia at 1-2 pints per acre in a minimum of 5 gallons of water per acre. Increasing the amount of water applied per acre may improve performance. See label for additional aerial application instructions.

Compatibility Chart - Common Regalia Tank Mix Partners

Regalia® is compatible with strobilurins (such as Quadris® and Stratego®), triazole fungicides (such as Stratego®, Quilt®, and Tilt®), and many other

classes of pesticide chemistry. If compatibility with another product is unknown, a jar test should be conducted.

Brand Name	Active Ingredient	Stem Rot	Sheath Spot	Sheath Blight	Blast*	Resistance Risk
Regalia®	Extract of <i>Reynoutria sachalinensis</i>	✓	✓	✓	✓	Low 
Quadris®	Azoxystrobin	✓	✓	✓	✓	High
Stratego®	Trifloxystrobin + Propiconazole	✓	✓	✓	✓	High
Quilt®	Azoxystrobin + Propiconazole	✓	✓	✓	✓	High
Tilt®	Propiconazole	✓	✓	✓		Medium

Resistance Risk- Determined by the Fungicide Resistance Action Committee (FRAC).
 * Regalia is not registered for Rice Blast in California.

Best Use Recommendations

Rice fields should be observed throughout the growing season for early disease symptoms. Cultural techniques and weather conditions can influence the development and severity of rice diseases with different diseases being manifested in different parts of the rice plant. Detecting the presence of disease at the boot stage and at flag leaf emergence are critical points in controlling rice diseases and maximizing yield. Apply Regalia at the first observation of disease symptoms. To maximize yields in rice, it is important to protect the flag leaf. Apply Regalia at 1 qt/acre alone or in combination with a strobilurin or triazole fungicide in a minimum of 10 gallons of water by ground or 5 gallons of water by air immediately after flag leaf emergence. There is no limitation to the number of applications of Regalia that can be applied and Regalia has a zero- day PHI.

Can Be Used in Both Conventional and Organic Production

Regalia is recognized as fully compliant for use on organic crops by the National Organic Program (NOP), and is listed by Organic Materials Review Institute (OMRI). Organic growers can now access the same powerful Regalia used by conventional growers.



CAN BE USED IN ORGANIC PRODUCTION



To control disease with powerful Regalia contact your local retailer, or call:

- Mark Allen, Northern CA and Pac NW, 530-304-9091
- Jay Osborne, Eastern Territory Manager, 239-207-7168
- Patrick Clark, NE and Midwest Sales Rep., 215-490-3981
- Jesse Rosales, Western Territory Manager, 530-304-2030
- Ryan Hesse, Central Valley CA, 559-799-1659
- David Warman, Director of Sales, 336-202-3433
- Guy Wilson, Prod. Development Specialist, 601-606-2199



www.MarroneBio.com

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