

ADAMA RICE CROPPING PORTFOLIO

Proven solutions. Superior yields.





Superior Solutions from the Seeds of Innovation

A Complete Portfolio for Rice Crop Protection.

As part of the Syngenta Group, ADAMA has built an extensive portfolio of proven crop protection product brands that are trusted worldwide. Now we're leveraging our experience, knowledge and resources to bring advanced crop protection solutions to rice growers. Our rice crop protection portfolio offers products and formulations that deliver unsurpassed performance and yields, with innovations that overcome herbicide tolerance and resistance challenges.

ADAMA offers:

- The resources and knowledge base of the world's largest crop protection group
- The industry's largest library of active ingredients in crop protection with a growing solutions set dedicated to rice crop protection
- Ground-breaking collaboration with RiceTec, integrating the industry's leading rice seed with advanced and targeted crop protection technologies from ADAMA
- An innovative portfolio of crop production solutions including herbicides targeting common and troublesome rice weeds, plus advanced insecticides and fungicides
- Straight-forward, trusted advice and responsive service
- Global presence with local commitment, dedicated to the success of our growers

Combined Power to Maximize Your Rice Crop

Innovative solutions that improve herbicide tolerance and generate industry-leading yields.

The collaboration between RiceTec and ADAMA brings the industry's leading rice seed together with the highest quality crop protection solutions. Starting with the FullPage Rice Cropping Solution and now the new Max-Ace Rice Cropping Solution, we deliver rice systems that generate superior yields and improve herbicide tolerance through rotational options. Together, we continue to strive towards ever-improving advancements, new products and comprehensive solutions for the problems that rice growers are facing today and in the future.

INNOVATION: What's new in 2022?

More innovation. More solutions.

In 2022, ADAMA is launching three new herbicides for rice growers, including two new propanil products, Diverge™ Silk and Diverge™ EC. As a further extension of ADAMA's successful collaboration with RiceTec, we are also pleased to introduce the Max-Ace® Rice Cropping Solution which includes ADAMA's proprietary safened Highcard™ herbicide, delivering exceptional hybrid and varietal yields, superior weed and grass control and maximum crop safety.

ADAMA's Complete Rice Portfolio







RiceTec

Diverge[™] Silk

Diverge[™] EC

Vopak[™]3ME

Zurax[™] L Sil

Silencer® VXN

(see page 8 for details)

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Demonstrated Field Advantage for Rice

A Better Way to Grow Rice.

ADAMA and RiceTec designed a specific rice program that improves hybrid herbicide tolerance and generates industry-leading yields. Preface™and Postscript™ herbicides from ADAMA are engineered specifically for the RiceTec FullPage® Rice Cropping Solution, creating an integrated system that provides excellent control of weedy/red/feral rice, barnyardgrass and most other common and challenging rice weeds.

Benefits of the exclusive Preface and Postscript herbicides as part of the FullPage Rice Cropping System:

Maximize Your Harvest

High-yielding hybrids free from weed competition and contamination increase harvest value and profits due to less dockage from the presence of off-color seeds.

Keep Your Rice Fields Clean

Preface and Postscript herbicides from ADAMA provide effective control of red rice and other IMI-resistant rice weeds.



Powerful Protection for Your Acreage

Spend less time and money combatting herbicide resistance issues while maintaining good stewardship.

Get Rewarded

Growers can earn rebates when they are fully in compliance with stewardship agreement.*

Support When and Where You Need It

For growers that follow the best practices outlined in the RiceTec FullPage Technology Use Agreement, ADAMA will provide the training, education and support to ensure your success if any problems should arise.

*Preface and Postscript are the only approved IMI-based herbicides that may be used with FullPage rice seed. The use of any other formulations of imazethapyr, imazamox or premixes containing these two active ingredients is strictly prohibited and purchases will not be eligible for the FullPage Rice Grower Stewardship Program rebate.

Scan here to learn more.

Rebate \$19 per gallon
SEE DETAILS ON PAGE 11



Superior Crop Tolerance, Increased Flexibility

Preface – 12 oz/acre per year herbicide restriction Postscript – 15 oz/acre per year herbicide restriction



*This is above the labeled rate and was done to show tolerance in cool and wet conditions. Source G & H Associates. 2018



"With one mid-season shot of fertilizer and 2 sprayings of Preface at 5 oz each it cleared up the whole 160 acres. There are no weeds and it's hanging like grapes. I'm hoping it's the best rice we've cut."

Craig Keller, Grower



"With the FullPage system we are getting the added benefit of using a higher rate of imazethapyr with the 6 oz of Preface. It's been really, really good comparing that to other technologies we've used in the past. RT7321 FP & RT7521 FP have given us the ability to use Preface and get extended control of grass."

Tyler Hydrick, Consultant

Preface and Postscript Rice Stage Options: The Most Flexible System in Herbicide-tolerant Rice				For Postscript Only
CROP Stages	OPTION 1	OPTION 2	OPTION 3	OPTION 4
	Standard for moderate infestations	For severe, susceptible red/weedy rice	When flooding is timely and less residual is needed	For well-managed fields and maximum rotational flexibility
Pre-emergence Herbicide	Vopak [™] 3ME + saflufenacil			
1-2 Leaf Rice	Preface at 5-6 fl oz/A + Zurax [™] L			Postscript at 5 fl oz/A + Zurax [™] L
4-6 Leaf Rice	Preface at 4-6 fl oz/A		Postscript at 5 fl oz/A	
Scout fields in accordance with best management practices. Post-flood applications should be made if red rice was not completely controlled earlier.				
Post-flood	Postscript at 5 fl oz/A			
Preface and Postscript should be applied with a crop oil concentrate except as noted on the label.				

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Experience Superior Rice Yields

Max-Ace® Rice Cropping Solution with Highcard™ Herbicide.

US rice growers wanting to maximize return and maintain weed control options turn to the Max-Ace Rice Cropping Solution with Highcard herbicide. It provides unprecedented hybrid and varietal yields, superior weed and grass control with maximum crop safety due to ADAMA's proprietary safened herbicide formulation.

Benefits of the novel, safened Highcard herbicide as part of the Max-Ace Rice Cropping System:

More Choices to Farm the Way You Want To

With no residual carryover from Highcard, growers get the full rotational flexibility they need to maintain their options year-over-year. It's the perfect rotational partner with the FullPage™ Rice Cropping Solution.

Effective Grass and Weed Control

Growers can count on Highcard to effectively control a broad range of grass weeds, including red and weedy rice and IMI-resistant weeds, for cleaner fields and increased crop vigor.

High-yielding Varietals and Hybrids

With rice varietals in the 175-180 bushel range and an industry-first hybrid with yields in the 200-215 bushel range, growers can maximize their marketable crop output.

Crop Safety You Can Count On

With an alternate mode of action versus FullPage or Clearfield® and proprietary safened formulation, Highcard delivers excellent crop tolerance compared to other ACCase rice systems.



Scan here to learn more.

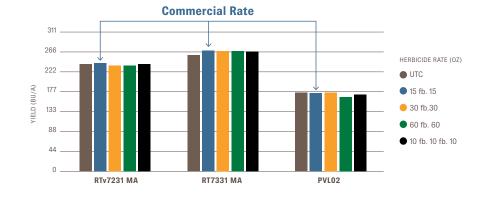
Rebate \$5.50 per gallon SEE DETAILS ON PAGE 11

+36% YIELD ADVANTAGE RT7331 MA vs. PVL 02 12000 +120 bu/A 1200 bu/A 7857 7857 RT7331 MA PVL 02 2020 Max-Ace Tolerance Trials





Rice Tec Max-Ace Lines



"We have switched to a Postscript program...so we can move into more Max-Ace in the future.
We're going to plant as many acres as possible after the control we've seen."

Anthony Cassinelli, Consultant



"Max-Ace is going to be a fit where red rice has become so prevalent in my fields that it is affecting my yields. That is to say that the crop that I planted is being choked out by red rice."

Jordan Hawkins, Consultant

Highcard + Broadleaf Tankmix Partners

- Zurax L 24-32 oz/ac
- Permit® 1 oz/ac
- Permit Plus® 0.75 oz/ac
- Gambit® 2 oz/ac
- Loyant®* 8-12 fl oz/ac

*only if quinclorac has not been us

Max-Ace Rice Cropping Solution

Highcard herbicide must be used with the Max-Ace system as it is a novel safened product.

Highcard Herbicide Use Rate

Use 15.5 fl oz per acre for post-emergence.

2 apps at 15.5 oz

31 oz per acre per year

Highcard has very little residual activity.

Zurax[™]L has shown no antagonism and offers residual with increased resistance management.

ADAMA's Complete Rice Portfolio

Herbicides



Preface™

Preface herbicide, designed specifically for the FullPage® Rice Cropping Solution from RiceTec, provides preemergence, early to mid-postemergence and preflood residual control of some of the most troublesome grasses including weedy rice, red rice and barnyardgrass. Preface is designed to be applied as part of a resistance-management program and to reduce the need for post flood clean up treatments.



Postscript™

Postscript, a soluble liquid herbicide for the FullPage Rice Cropping Solution from RiceTec, can be applied early to mid-postemergence as well as pre- and post flood for control and suppression of many propanil- and quinclorac-resistant grass broadleaf and grass weeds and sedges. It also offers growers rotational flexibility.



Highcard™

Highcard herbicide is a novel, safened formulation specifically designed to be used with the Max-Ace® Rice Cropping Solution from RiceTec. It provides phenomenal annual and perennial grass control as well as the strongest crop safety and rotational flexibility for rice growers.



Diverge[™]Silk

Diverge Silk is a unique herbicide offering rice growers improved quality and handling for reliable weed control with less down time and application headaches. This easy-to-handle, high-quality suspension formulation delivers demonstrated weed control and crop selectivity in 1-3 and 4-6 leaf stage rice.

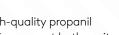


Zurax™L

Vopak 3ME is a cost-effective herbicide used for its powerful grass and broadleaf weed control and has high crop safety when applied preplant through early postemergence. This workhorse product has excellent residual activity and is labeled for rice and other crops.



Zurax L is an economical liquid formulation that gives rice growers reliable control of annual grass and broadleaf weeds with increased handling ease and use. It offers a flexible application window before, during or after planting dry seeded rice, and can also be applied in a foliar manner to dry and water seeded rice for control of susceptible broadleaf and grass weeds.



Diverge EC is a cost-effective, high-quality propanil formulated right here in the US. Growers get both purity control and the weed control they expect. With the Diverge family of propanil options, growers in the Mid-South can farm the way they want to.



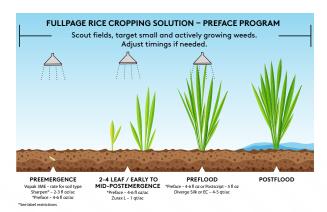
Insecticides

Silencer® VXN

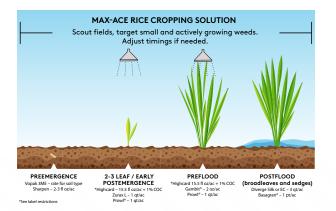
Silencer is a premier product that provides fast knockdown activity for armyworms, cutworms, loopers, plant bugs and weevils. Silencer delivers growers both versatility and extended residual while rapidly controlling major economic pests on more than 50 crops.



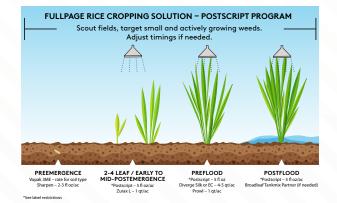


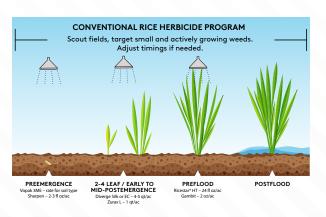












Crop Rotations Provide Flexibility to Grow Profits.

Resistance management is key in all cropping systems. Proper scouting and control and removal of weed escapes as well as sanitation, tillage-as-appropriate and crop competition will give growers long-term benefits.

Growers can purchase and apply with confidence the correct amount of herbicides at the right times for their particular rice cropping solutions based on the guidelines from ADAMA.

ADAMA and RiceTec have designed specific rice systems that improve herbicide tolerance and generate industry-leading yields.

Mix things up to stay weed-free. Rotating between systems and other crops annually provides the opportunity to use different tillage and herbicide modes of action.



Include soybeans in the rotation for growers who choose a herbicide residual program.*



Alternate the Max-Ace with FullPage Rice Cropping Systems year-over-year for growers who want to stick with rice.*



Rotate crops based on what will maximize yield returns while minimizing herbicide resistance through different modes of action.

*Observe rotational limitations for preceding year's herbicide plan

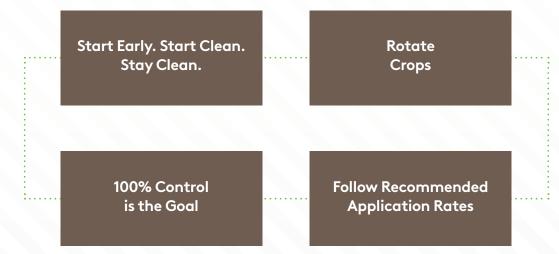
Stewardship & Best Practices

Protect Your Acreage. And Your Investments.

Protect the yield potential you planted. Embrace the leading stewardship practices that result in higher value yields and ultimate control of red rice and grasses resistance issues. ADAMA is here to listen and support growers with proven crop protection solutions.

Stewardship is critical to all rice herbicide-tolerant systems to prevent the development of herbicide-resistant weedy rice. Growers using the FullPage® and /or Max-Ace® Rice Cropping Solutions are required to sign a stewardship agreement when purchasing seed. Stewardship requirements are based on common Best Management Practices for optimum weed control and resistance prevention.

Prevent resistance issues and address weeds at multiple growth stages with these steps:

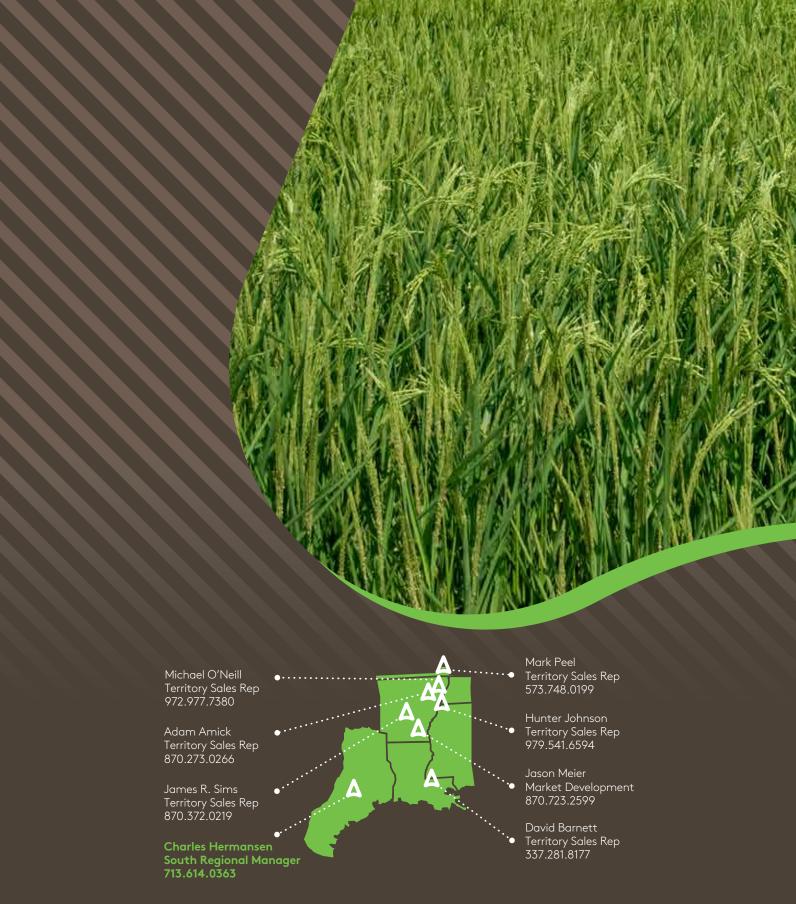


Our Promise: Full Support.

Growers that are compliant receive full support from ADAMA if any problems should arise as well as rebates for the acres grown. Non-compliance results in losing support and/or rebates. Please contact your ADAMA representative if you have any questions with regard to the stewardship gareement.



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Call 866.406.6262 or visit ADAMA.COM for more information.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.Follow the restrictions of the most restrictive herbicide label for tank mix applications.

Silencer VXN is a Restricted Use Pesticide.

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