

# “New” Fungicides for Disease Management in LA Crops

Trey Price

LSU AgCenter

318-235-9805

[pprice@agcenter.lsu.edu](mailto:pprice@agcenter.lsu.edu)



# Fungicide Modes of Action



- “Triazoles” = Demethylation Inhibitors = DMIs = Group 3
  - Medium risk to select for resistance
- “SDHIs” = succinate dehydrogenase inhibitors = carboxamides = Group 7
  - High risk to select for resistance
- “QoIs” = Strobilurins = “Strobies” = Quinone Outside Inhibitors = Group 11
  - High risk to select for resistance
- MBCs = thiophanates = Group 1
  - High risk to select for resistance

[www.frac.info](http://www.frac.info)



Northern corn leaf blight (**NCLB**)



Southern corn leaf blight (**SCLB**)



Curvularia leaf spot (**CLS**)



Southern rust (**SR**)



Gray leaf spot (**GLS**)

- Typical application timing = VT/R1...disease resistant hybrids do not require fungicides.
- Some V-stage applications by farmers who budget 2 applications
- Vast majority of fungicides going out by air...a handful that spray by ground
- Efficacy data for all crops based on ground applications at 15GPA

# Foliar Corn Diseases of Concern in Louisiana



3, 7, 11  
SR



3, 3, 7\*  
NCLB, SR



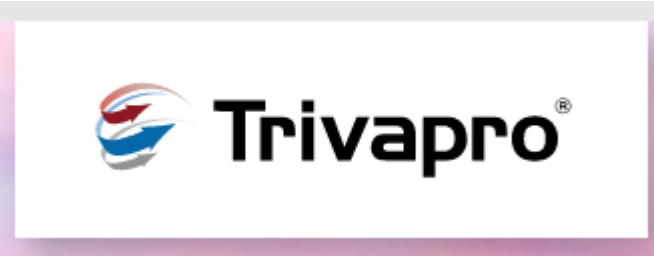
3, 7, 11  
GLS, NCLB, SR



3, 7, 11  
GLS, NCLB, SR



3, 7  
GLS, NCLB, SR



3, 7, 11  
GLS, NCLB, SR



3, 7, 11  
GLS, NCLB, SR



3, 11  
GLS, NCLB, SR



3\* at planting  
GLS, NCLB

# “Newer” Corn Fungicides



Fungicide mode of action groups:  
 Group 11 QoI Strobilurins  
 Group 3 DMI Triazoles  
 Group 7 SDHI

## Fungicide Efficacy for Control of Corn Diseases Table (04/2022)

[www.cropprotectionnetwork.org](http://www.cropprotectionnetwork.org)

Product/Trade name	Rate/A (fl oz)	Anthraxnose leaf blight	Common rust	Eyespot	Gray leaf spot	Northern corn leaf blight	Southern rust	Tar spot <sup>1</sup>	Harvest restriction <sup>2</sup>
Quadris 2.08 SC, multiple generics	6.0 - 15.5	VG	E	VG	E	G	VG	NL	7 days
Headline 2.09 EC/SC	6.0 - 12.0	VG	E	E	E	VG	VG	NL	7 days
Approach 2.08 SC	3.0 - 12.0	VG	VG-E	VG	F-VG	VG	G	G <sup>3</sup>	7 days
Xyway LFR 1.92 SC	LFR: 7.6-15.2	NL	U	NL	G	VG	NL	NL	N/A
Xyway 3D 2.5 SC	3D: 5.8-11.8								
Tilt 3.6 EC, multiple generics	2.0 - 4.0	NL	VG	E	G	G	F	NL	30 days
Proline 480 SC	5.7	U	VG	E	U	VG	G	NL	14 days
Folicur 3.6 F, multiple generics	4.0 - 6.0	NL	U	NL	U	VG	F	NL	36 days
Domark 230 ME	4.0 - 6.0	U	U	U	E	VG	G	G <sup>3</sup>	R3 (milk)
Quilt Xcel 2.2 SE, multiple generics	10.5 - 14.0	VG	VG-E	VG-E	E	VG	VG	NL	30 days
Trivapro 2.21 SE	13.7	U	U	U	E	VG	E	G-VG	30 days
Approach Prima 2.34 SC	3.4 - 6.8	U	U	U	E	VG	G	G-VG <sup>3</sup>	30 days
Fortix 3.22 SC	4.0 - 6.0	U	U	U	E	VG	VG	G-VG <sup>3</sup>	R4 (dough)
Preemptor 3.22 SC									
Lucento	3.0-5.5	U	U	U	VG-E	VG	VG	G <sup>3</sup>	R4
TopGuard EQ	5.0-7.0	U	F	U	VG	G-VG	G-VG	G-VG <sup>3</sup>	7 days

Veltyrna	7.0-10.0	U	U	U	VG-E	VG-E	VG	VG	21 days
Revytek	8.0-15.0	U	U	U	VG-E	VG-E	VG	VG	21 days
Delaro325 SC	8.0-12.0	VG	E	VG	E	VG	G-VG	G-VG	14 days
Delaro Complete 3.83 SC	8.0-12.0	U	U	U	E	VG	G-VG	VG	35 days
Miravis Neo 2.5 SE	13.7	U	U	U	E	VG-E	VG	G-VG	30 days
Priaxor 4.17 SC	4.0 - 8.0	U	VG	U	VG	VG-E	VG	G-VG	21 days
Headline AMP 1.68 SC	10.0 - 14.4	U	E	E	E	VG	G	G-VG	20 days
Stratego YLD 4.18 SC	4.0 - 5.0	VG	E	VG	E	VG	G	NL	14 days
Affiance 1.5 SC	10.0-14.0	U	G-VG	U	G-VG	G-VG	G	G <sup>3</sup>	7 days

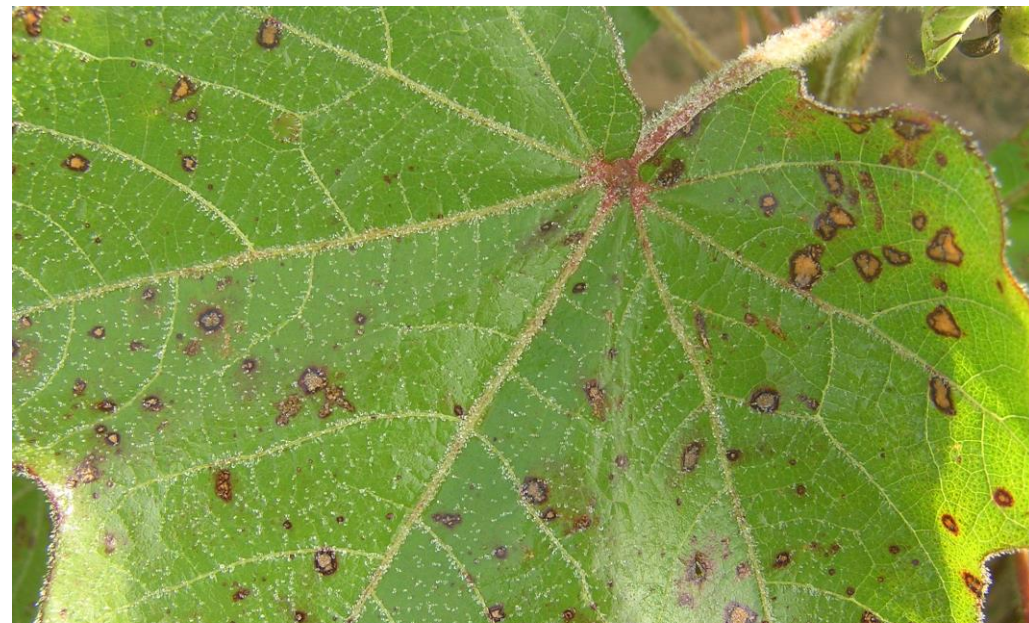


Target spot (*Corynespora cassiicola*) **TS**

# Common Cotton Foliar Diseases



Cotton leaf spot complex (*Alternaria*, *Cercospora*, *Stemphylium*, *Ascochyta* species) **CLSC**





3, 11  
TS, CLSC



3, 11  
TS, CLSC



3, 7  
TS, CLSC

**Headline**<sup>®</sup> 11  
Fungicide TS, CLSC

**Priaxor**<sup>®</sup> 7, 11  
Xemium<sup>®</sup> Brand Fungicide TS, CLSC

**Revytek**<sup>™</sup> 3, 7, 11  
Fungicide TS, CLSC

- All of these products have activity on target spot and cotton leaf spot complex but return on investment is very rare with CLSC and not guaranteed with target spot.
- Will provide more detail Friday 9:45-10:00 am.

“Newer” Cotton Fungicides

[www.lsuagcenter.com](http://www.lsuagcenter.com)

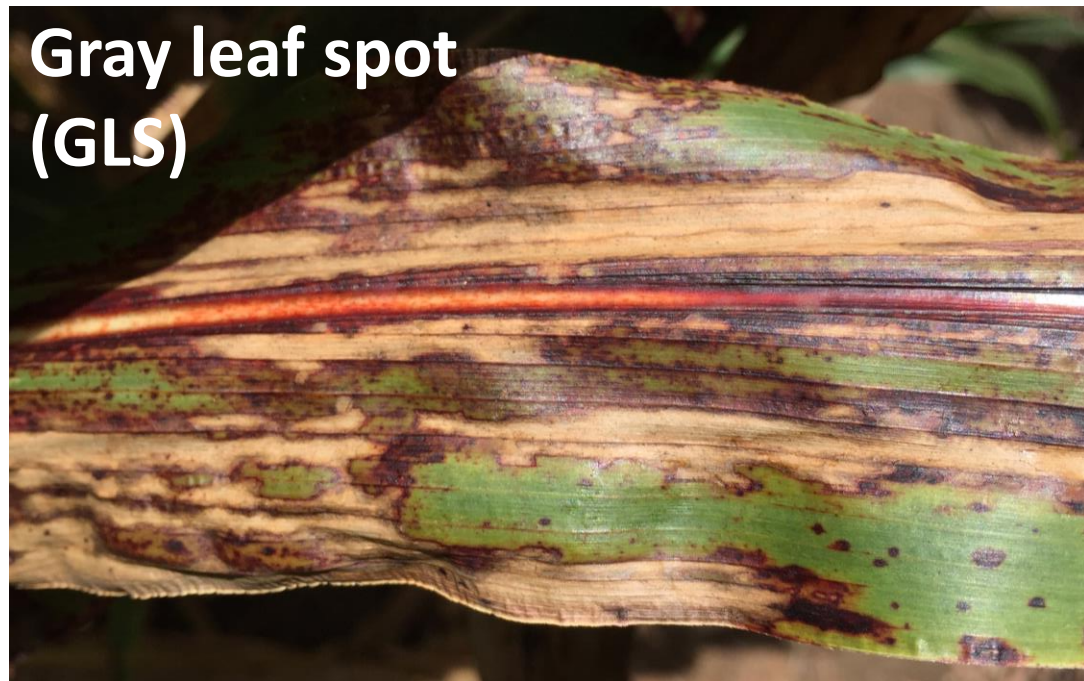
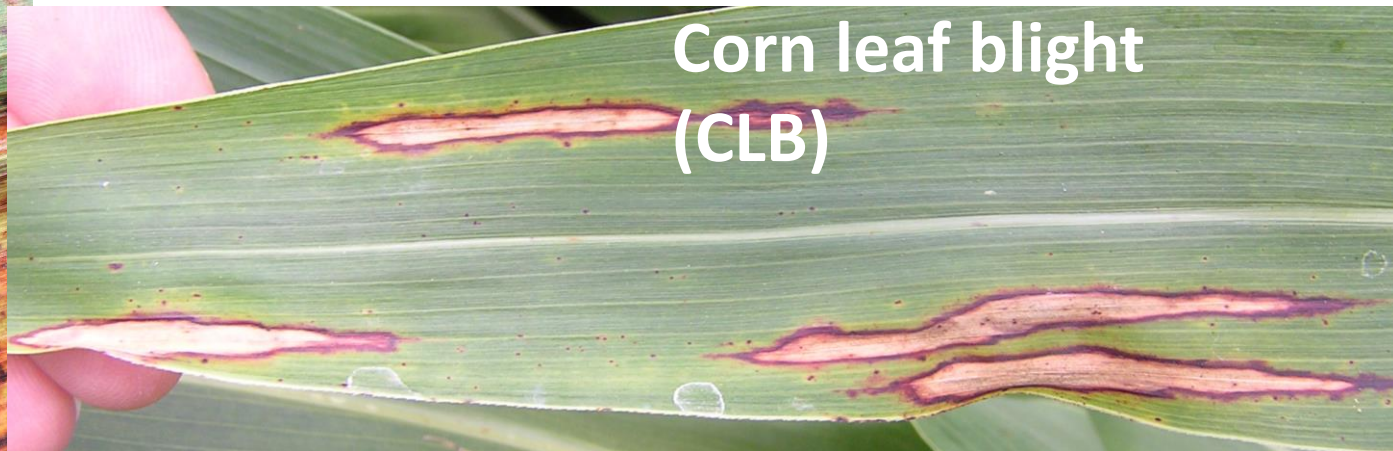
# Louisiana Plant Disease Management Guide



Table 1. Foliar fungicides labeled for use in Louisiana cotton.

Fungicide <sup>1</sup>	Mode of Action Group <sup>2</sup>	Use Rate (fl oz/A)	Target Disease(s)/Pathogen(s) <sup>3</sup>
<b>Amistar Top (Syngenta)</b>	11+3	8-11.6	Alternaria leaf spot ( <i>Alternaria</i> spp.), Anthracnose ( <i>Glomerella gossypii</i> ), Areolate mildew ( <i>Ramularia gossypii</i> ), Ascochyta blight ( <i>A. gossypii</i> ), boll rots ( <i>Ascochyta gossypii</i> , <i>Alternaria</i> spp., <i>Diplodia</i> spp., <i>Phoma</i> spp.), cotton rust ( <i>Puccinia schedonnardi</i> ), Diplodia boll rot ( <i>Diplodia</i> spp.), hard lock ( <i>Fusarium verticillioides</i> ), leafspots and blights ( <i>Alternaria</i> spp., <i>Ascochyta gossypii</i> , <i>Cercospora</i> spp., <i>Stemphylium</i> spp.), Southwestern cotton rust ( <i>Puccinia cacabata</i> , <i>Puccinia</i> spp.) Stemphylium leaf spot ( <i>Stemphylium</i> spp.), target spot ( <i>Corynespora cassiicola</i> )
<b>Approach</b>	11	6-12	Stemphylium leaf spot ( <i>Stemphylium</i> spp.)
<b>Delaro (Bayer)</b>	11+3	8-12	Target spot ( <i>Corynespora cassiicola</i> ), rust ( <i>Puccinia</i> spp.)
<b>Elatus (Syngenta)</b>	11+7	5-7.3	Ascochyta blight ( <i>A. gossypii</i> ), Target spot ( <i>Corynespora cassiicola</i> )
<b>Headline (BASF)</b>	11	6-12	Alternaria leaf spot/boll rot ( <i>Alternaria</i> spp.), Anthracnose/boll rot ( <i>Glomerella</i> spp.), Ascochyta blight/boll rot ( <i>Ascochyta</i> spp.), Cercospora blight and leaf spot ( <i>Cercospora</i> spp.), Diplodia boll rot ( <i>Diplodia</i> spp.), Hard lock/boll rot ( <i>Fusarium</i> spp.), Phoma blight, boll rot ( <i>Phoma</i> spp.), Stemphylium leaf spot ( <i>Stemphylium</i> spp.)
<b>Miravis Top (Syngenta)</b>	7+3	13.7	Alternaria leaf spot ( <i>Alternaria</i> spp.), Areolate mildew ( <i>Ramularia gossypii</i> ), Ascochyta blight ( <i>A. gossypii</i> ), boll rots ( <i>Ascochyta gossypii</i> , <i>Alternaria</i> spp., <i>Diplodia</i> spp., <i>Phoma</i> spp.), hard lock ( <i>Fusarium verticillioides</i> ), leafspots and blights ( <i>Alternaria</i> spp., <i>Ascochyta gossypii</i> , <i>Cercospora</i> spp., <i>Stemphylium</i> spp.), target spot ( <i>Corynespora cassiicola</i> )
<b>Priaxor (BASF)</b>	7+11	4-8	Same as above plus Target spot/ <i>Corynespora</i> leaf spot ( <i>Corynespora cassiicola</i> )
<b>Proline (Bayer)</b>	3	5-5.7	Target spot ( <i>Corynespora cassiicola</i> )
<b>Quadris (Syngenta)<sup>4</sup></b>	11	6-9	Same as Amistar Top.
<b>Revytek (BASF)</b>	3+7+11	8-15	Same as Priaxor plus Rust ( <i>Phakopsora</i> and <i>Puccinia</i> spp.)
<b>Topguard (FMC)</b>	3	7-14	Alternaria leaf spot/boll rot ( <i>Alternaria</i> spp.), anthracnose/boll rot ( <i>Glomerella</i> spp.), Areolate mildew ( <i>Ramularia gossypii</i> ), Ascochyta blight/boll rot ( <i>Ascochyta gossypii</i> ), Cercospora blight and leaf spot ( <i>Cercospora</i> spp.), Diplodia boll rot ( <i>Diplodia</i> spp.), Fusarium boll rot ( <i>Fusarium</i> spp.), hard lock ( <i>Fusarium verticillioides</i> ), Phoma blight/boll rot ( <i>Phoma</i> spp.), Stemphylium leaf spot ( <i>Stemphylium</i> spp.), target spot ( <i>Corynespora cassiicola</i> )
<b>Topguard EQ (FMC)</b>	11+3	5-7	Same as Topguard.
<b>Twinline (BASF)</b>	3+11	7-8.5 (10-12 for Target spot)	Same as Priaxor.
<b>Vertisan (Corteva)</b>	7	16-24	Boll rot ( <i>Diplodia</i> spp., <i>Fusarium</i> spp.), Foliar disease complex, Alternaria leaf and stem spots ( <i>Alternaria</i> spp.), Cercospora leaf spot ( <i>Cercospora</i> spp.), Stemphylium leaf spot ( <i>Stemphylium</i> spp.), Hard lock ( <i>Fusarium</i> spp.), Soil-borne diseases, Seedling and root rot ( <i>Rhizoctonia solani</i> )

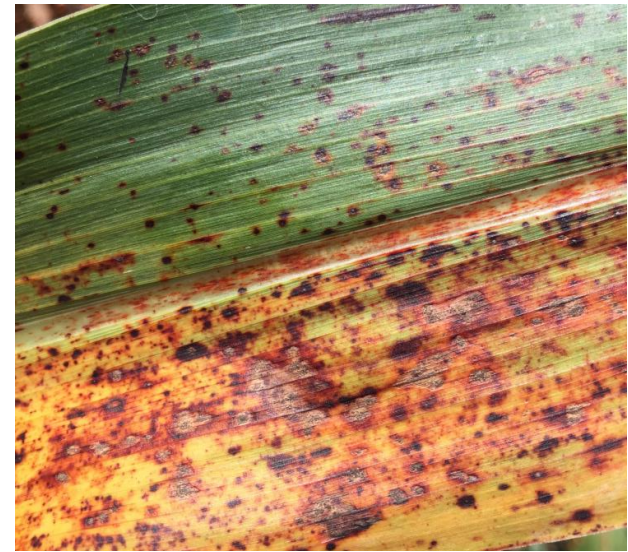




## Sorghum Diseases of Concern



**3, 7, 11\***  
**Anthraco**nose,  
**others, not labeled**  
**for target leaf spot**



**Nexicor™**  
Xemium® Brand Fungicide

**3, 7, 11**  
**Anthraco**nose,  
**Target leaf spot**



**Priaxor®**  
Xemium® Brand Fungicide

**7, 11**  
**Anthraco**nose, **Target leaf spot**

**“Newer” Grain Sorghum Fungicides**

[www.lsuagcenter.com](http://www.lsuagcenter.com)



- Plant Disease Management Guide

**Table 1. Recommended fungicides, rates and application timing for Anthracnose disease of grain sorghum.**

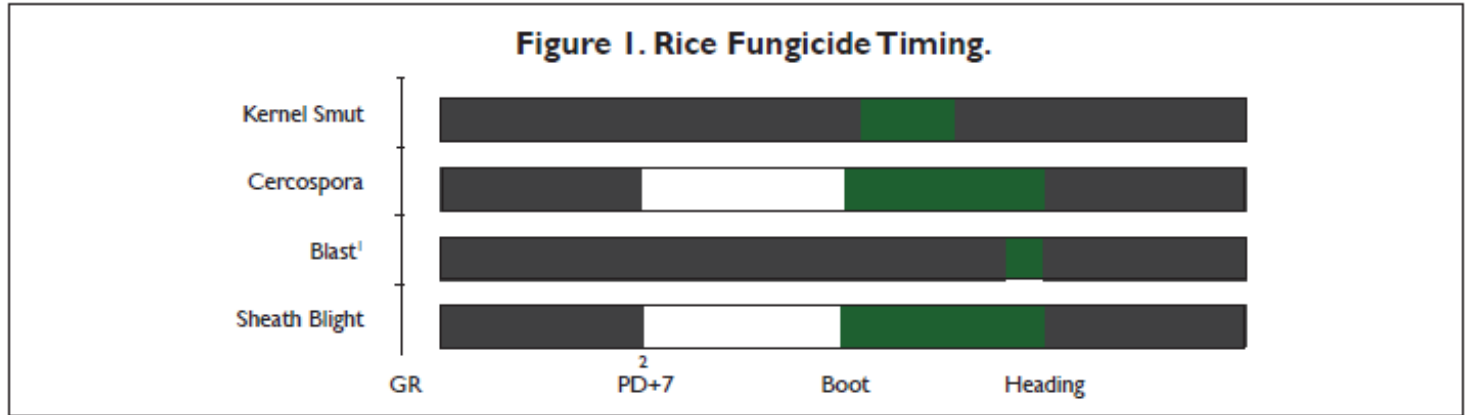
Target	Product Choices <sup>1</sup> and Product Mode of Action Group <sup>2</sup>		Rate <sup>3</sup>	Time of Application	PHI <sup>4</sup>
Anthracnose ( <i>Colletotrichum graminicola</i> )	Adastrio	3,7,11	7-9 fl oz	See label	30
	Aframe	11	6-15.5 fl oz	Prior to disease development	14
	Aproach	11	12 fl oz	Prior to flowering	-- <sup>6</sup>
	Evito 480 SC	11	2-4 fl oz	Prior to disease development	21
	Headline	11	6-12 fl oz	Apply no later than 25% flowering	-- <sup>5</sup>
	Headline SC	11	6-12 fl oz	Apply no later than 25% flowering	-- <sup>5</sup>
	Nexicor	3,7,11	7-13 fl oz	Prior to disease development	21
	Priaxor	7,11	4-8 fl oz	Prior to disease development	21
	Quadris	11	6-15.5 fl oz	Prior to disease development	14
	Quilt	11,3	14 fl oz	Prior to disease development	21
	Quilt Xcel	11,3	10.5-14 fl oz	At first appearance of disease	21
	Topguard	3	7-14 fl oz	Prior to disease development	7
	Topguard EQ	3,11	5-7 fl oz	Prior to disease development	30

# Primary Rice Diseases



2023

# RICE VARIETIES & MANAGEMENT TIPS



Class and Mode of Action Group <sup>1</sup>	Active Ingredient	Product(s) <sup>2</sup>	Rate <sup>3</sup> (fl oz)	Blast	Sheath Blight	Qol Resistant Sheath Blight	Cercospora	Kernel Smut
Qol Strobilurins Group 11	Azoxystrobin	Quadris 2.08 SC Others	9-15.5	G	VG	P	P	P
	Trifloxystrobin	Flint Extra	3.1-4.7	VG	G	P	NL	NL
	Flutolanil	Elegia 3.8 F	12-32	NL	G	G	NL	NL
Carboxamides Group 7	Fluxapyroxad	Sercadis 2.47 SC	4.5-6.8	NL	G	G	NL	NL
	Propiconazole	Tilt 3.6 EC Others	6-10	NL	F	F	G	G
Mixed <sup>4</sup>	Azoxystrobin, Propiconazole	Quilt Xcel 2.2 SE Others	14-27	G	VG	P	G	G
	Azoxystrobin, Difenconazole	Amistar Top Other	10-15	G	VG	G	G	G



Rice Seed Treatment  
Excellent Rhizoc material  
Same AI as Excalia in soybean



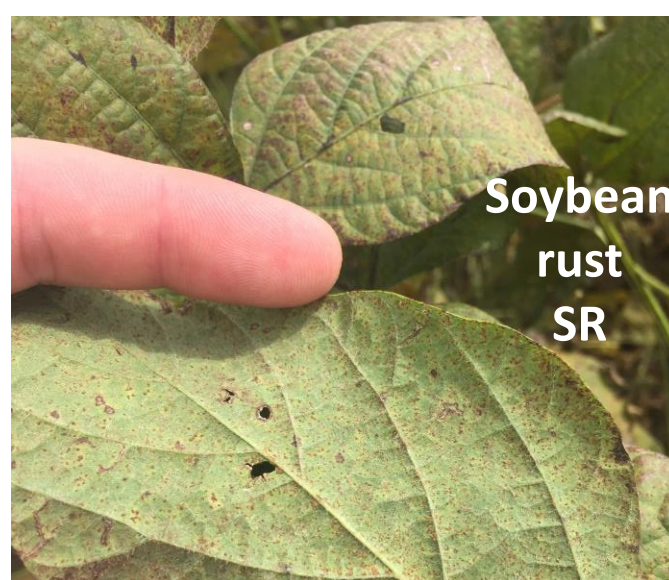
Excellent on aerial blight in soybean  
Labeled for soybean rust as well  
Effective on "white mold" peanut



**Cercospora  
leaf blight  
CLB**



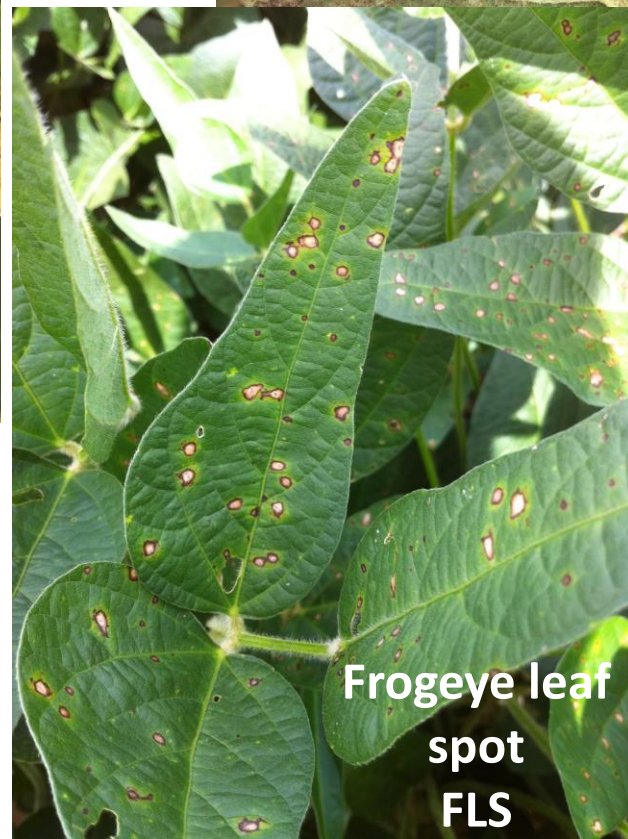
**Aerial blight  
AB**



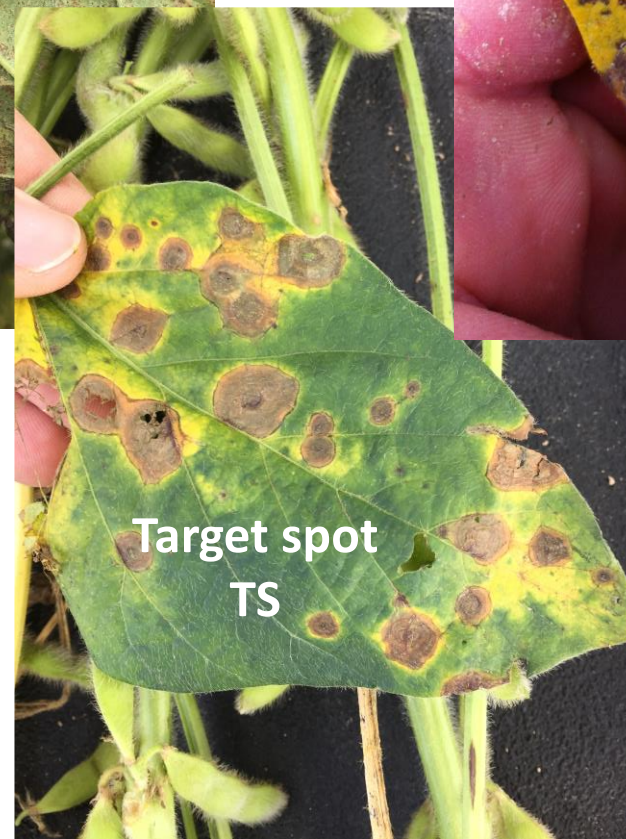
**Soybean  
rust  
SR**



**Septoria  
brown  
Spot  
BS**



**Frogeye leaf  
spot  
FLS**



**Target spot  
TS**

**Foliar  
Soybean  
Diseases  
of Concern**



3, 7, 11  
AB, BS, FLS



7  
AB



3, 7  
AB, BS, CLB,  
FLS, SBR, TS



3, 7  
AB, BS, CLB,  
FLS, ,TS

# Revytek™

Fungicide

3, 7, 11  
AB, BS, CLB,  
FLS, SBR, TS

# Veltyma™

Fungicide

3, 7, 11  
?



Registered for in-furrow  
use to manage nematodes  
3-6 fl oz/A



Labeled for “off-the-  
seed” placement at  
planting in soybean



“Biofungicide/bionematicide”  
“Promising results”






# Sugarcane

- Brown rust
- Orange rust
- Brown stripe

 **Quilt Xcel**<sup>®</sup> 3, 11

 **Trivapro**<sup>®</sup> 3, 7, 11

**Headline**<sup>®</sup> 11

Fungicide

**Priaxor**<sup>®</sup> 7, 11

Xemium<sup>®</sup> Brand Fungicide

**Revytek**<sup>™</sup> 3, 7, 11

Fungicide

**Veltyma**<sup>™</sup> 3, 7, 11

Fungicide

**Call Jeff Hoy...he doesn't retire until August!**



**Wheat Diseases of  
Concern**

 **Miravis<sup>®</sup>Ace**

**3, 7**  
**Scab, rusts,**  
**others**



**3, 3, 7\***  
**Scab, rusts,**  
**others**

**Sphaerex<sup>™</sup>**  
Fungicide

**3, 3**  
**Scab, rusts,**  
**others**

**Nexicor<sup>™</sup>**  
Xemium<sup>®</sup> Brand Fungicide

**3, 7, 11\***  
**Rusts, others**  
**\*Not labeled**  
**for scab**

## Other Products for Scab Management

**Caramba<sup>®</sup>**

Fungicide



**PROLINE<sup>®</sup>**





# Generic Active Ingredients for Use in Most Crops

- Azoxystrobin (Quadris)
  - Propiconazole (Tilt)
  - Tebuconazole (Folicur)
  - Tetraconazole (Domark)
  - Prothioconazole (Proline)
- Many different commercial products
  - Lots of companies
  - Many different pre-mixes
  - Refer to AIs on the efficacy table to get an idea of what fungicides would be useful on...



	<b>Acuron GT</b>	<b>Halex GT</b>		
	3.75 pt/A	3.6 pt/A	3.75 pt/A	4 pt/A
S-metolachlor (7.62 lb/gal formulation)	15.8 oz/A	15.4	16.5	17.6
glyphosate (4.5 lb/gal formulation)	25.1	24.4	26.1	27.9
mesotrione	3	2.9	3.1	3.3
bicyclopyrone	0.045 lb/A			

- acetochlor
- flumetsulam
- clopyralid
- 1.5 to 2.5 pt/A
- PRE and POST up to 11-inches
- 8 to 9 on most weeds
- Rotation?
  - Cotton – 26 months
  - Grain sorghum – 12 months
  - Soybean – spring following application
  - Wheat – 4 months



- acetochlor
- mesotrione
- clopyralid
- 2.25 to 2.75 pt/A
- PRE and POST up to 11-inches
- 7 on grass species, 9 on most broadleaf species
- Rotation?
  - Cotton – 12 months
  - Grain sorghum – 10 ½ months
  - Soybean – 10 ½ months
  - Wheat – 4 months



**Resicore<sup>®</sup>**

**HERBICIDE**



- tolpyralate
- HPPD-inhibitor
- 1 to 1.35 oz/A
- POST up to V6 or 20-inches
- 1% MSO or COC required
- 6 on grass species, 7 to 9 on most broadleaf species
- 5 on sicklepod
- Needs atrazine as tank-mix partner
- Rotation?
  - Cotton – 9 months
  - Grain sorghum – 9 months
  - Soybean – 9 months
  - Wheat – 3 months

**SHIELDEX<sup>®</sup> 400SC**  
**HERBICIDE**



- topramezone
- glufosinate
- 21 to 28 oz/A
  - Impact – 0.75 to 1 oz/A
  - Liberty – 22 to 30 oz/A
- POST emergence to V7
- 1% MSO and 1.5 lb/A AMS required
- 7 to 9 on most weed species
- Spectrum improved with atrazine as tank-mix partner
- Rotation?
  - Cotton – 9 months
  - Grain sorghum – 9 months
  - Soybean – 9 months
  - Wheat – 3 months



- tiafenacil
- 1 to 3 oz/A
- nonselective
- 1% MSO or COC required
- Spectrum improved with glyphosate as tank-mix partner
- Not a paraquat replacement
- Research ongoing evaluating it as soybean desiccant



# Rogue SC



- Gowan
- benzobicyclon
- Labelled in 2022 for use in drill and water-seeded rice
- Must be applied in flood, not active on dry ground
  - 8.4 to 12.6 fl oz/A
  - Dry-seeded: 4 leaf to 2 tillers
  - Water-seeded: Peg to 2 tillers
- Activity on ducksalad, sprangletop species, and rice flatsedge

# Arroz 80



- Bispyribac 80%
- Same formulation as Regiment
- AMVAC
- Labelled in 2022
- 0.4 – 0.67 oz/A
- Maximum of 1.06 oz/A per year
- See approved adjuvant bulletin

# Rinde SL



- Prepackaged mixture of Facet and Regiment
- AMVAC: to be available in 2023
- 22-36 oz/A


Rinde	Equivalent to a Tankmix of:	
Formulated Rate (Fl Oz/Ac)	Facet L (Fl Oz/AC)	Regiment 80 (Oz/AC)
22	22	0.413
24	24	0.450
26	26	0.488
<b>28</b>	<b>28</b>	<b>0.525</b>
30	30	0.563
<b>32</b>	<b>32</b>	<b>0.600</b>
34	34	0.638
36	36	0.675

# Rinde SL



- Timing: 3 leaf to green ring
- Apply with an adjuvant plus a nitrogen source
  - Ex. Dyne-A-Pak or Phasell
  - If chosen adjuvant does not have a nitrogen source then add a urea-ammonium nitrate for optimal control
  - See approved adjuvant bulletin

# Approved Adjuvant Bulletin


BULLETIN

## ARROZ 80<sup>®</sup> HERBICIDE APPROVED SURFACTANTS


**Arroz 80<sup>®</sup> Herbicide** provides effective and flexible barnyardgrass, aquatic and broadleaf weed control.

Product	Minimum Use Rate	
	fl oz/100 gal	fl oz/A
AirForce <sup>®</sup> + UAN	32 + 128	3.2 + 12.8
Cadence <sup>®</sup>	16	1.6
Dyne-Amic <sup>®</sup>	50	5.0
Dyne-A-Pak <sup>®</sup>	128-192	12.8-19.2
Freeway <sup>®</sup>	16	1.6
Inergy <sup>®</sup>	96	9.6
Invade Xtra™	128	12.8
Kinetic <sup>®</sup> HV	32	3.2
Persist <sup>®</sup> Advanced + UAN	48 + 128	4.8 + 12.8
Phase <sup>®</sup>	32	3.2
Phase <sup>®</sup> II	128	12.8
Renegade <sup>®</sup>	128	12.8
Rivet™	96	9.6
Silkin <sup>®</sup>	24	2.4
Syl-Tac <sup>®</sup>	32	3.2
Triple Play™	128	12.8
Volare™ + UAN	64 + 128	6.4 + 12.8

The addition of 2% volume/volume (v/v) 32% or 28% UAN (urea-ammonium nitrate) to one of the above listed surfactants (except Dyne-A-Pak, Phase II and Triple Play which already contain UAN) is recommended and may enhance the activity of **Arroz 80** when applied under some conditions. The addition of 32% or 28% UAN at 1% v/v to AirForce, Persist and Volare adjuvants is required when used with **Arroz 80**. UAN is not a substitute for an approved adjuvant. Instead, it should be used in combination with one of the approved adjuvants.

Arroz 80 is exclusively sold by Helene Agri-Enterprises.  
See AMVAC's entire line of products at [AMVAC.com](http://AMVAC.com).

**Arroz 80 Herbicide**  
HRAC Group 2



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4/20





	Tendovo	Boundary	
	3.5 pt/A	3.5 pt/A	4 pt/A
S-metolachlor (7.62 lb/gal formulation)	25.5 oz/A	16.5	22.1
metribuzin (75 DF formulation)	6.1	5	6.67
cloransulam (FirstRate 84%)	5.4		

- Wheat – 4 ½ months



# 7 different products with Authority in their name

- All contain sulfentrazone
  - Excellent residual morningglory control



S-metolachlor



pyroxasulfone

- A. Supreme has 2.08 lb ai/gal of both
- A. Edge has 1.52 and 2.73 lb ai/gal of pyroxasulfone and sulfentrazone



cloransulam-methyl



metribuzin



chlorimuron



imazethapyr

sulfentrazone + S-metolachlor



sulfentrazone + cloransulam-methyl



chlorimuron + metribuzin



sulfentrazone + chlorimuron



S-metolachlor + metribuzin



# Newly Registered Sugarcane Herbicides for 2023

S-metolachlor  
Products

**MOCCASIN II Herbicide**



**Dual II Magnum<sup>®</sup>**  
syngenta.

**Medal II EC**  
HERBICIDE syngenta.

S-metolachlor +  
metribuzin

GROUP 2, 15 HERBICIDES  
**Boundary 6.5 EC**  
Herbicide  
syngenta.

metribuzin +  
flumioxazin

**Panther MTZ**  
Nufarm

metribuzin

**RANCOR<sup>™</sup>**  
75 DF  
Atticus

trinexapac-ethyl  
(Generic Moddus)

**MAZATA<sup>™</sup>**  
Atticus

# A University Perspective on New Products for Managing Pests in Louisiana Field Crops

## **Entomology Section**

James Villegas

Field Crops Entomologist

LSU AgCenter

Dean Lee Research and Extension Center



2023

Louisiana  
**Insect Pest**  
Management Guide



# PLINAZOLIN®

The Syngenta logo features the word "syngenta" in a bold, blue, lowercase sans-serif font. A small green leaf icon is positioned above the letter 'g'.

- Mode of Action – IRAC Group 30
- Good activity towards stinkbugs in *Lygus spp.*
- Maybe available for use in 2025

**Bollgard<sup>3</sup>**  
**Thryv<sup>ON</sup>**<sup>TM</sup>  
With **XTENDFLEX**  
TECHNOLOGY



- Bt trait – Cry51Aa1
- Specific to hemipteran and coleopteran insect pests
- Commercially available in time for the 2023 cotton season





- Mode of Action – IRAC Group 28
- Rate – 1.2 – 2.5 fl oz/ A
- New for 2023
- pre-emergence application in rice for RWW
- Preflood application in rice anticipated for 2025

Chlorantraniliprole patent expired? What's next?



- Active Ingredients – bifenthrin and chlorantraniliprole
- Mode of Action – IRAC Group 3A and 28
- Rate – 5.6 – 9.6 fl oz/ A

- Active Ingredients – lambda-cyhalothrin and chlorantraniliprole
- Mode of Action – IRAC Group 3A and 28
- Rate – 6 – 10 fl oz/ A

## FIFRA Section 2(ee) Recommendation



FOR DISTRIBUTION AND USE ONLY IN THE STATES OF ALABAMA, ARKANSAS,  
GEORGIA, KENTUCKY, LOUISIANA, MISSISSIPPI, OKLAHOMA, SOUTH CAROLINA,  
AND TENNESSEE

# **BELAY**<sup>®</sup>

## **INSECTICIDE**

EPA Reg. No. 59639-150

**BELAY<sup>®</sup> INSECTICIDE FOR THE CONTROL OF REDBANDED STINK BUG (*Piezodorus guildinii*  
Westwood) IN SOYBEANS**

### **BELAY INSECTICIDE APPLICATION TO SOYBEANS**

	<b>FOLIAR APPLICATION</b>		
<b>Pest</b>	<b><i>Belay</i> Insecticide Application Rate</b>	<b>Mixture partner application rate</b>	<b>Instructions</b>
Redbanded stink bug	2.0 fl oz/A (0.03 lb ai/A)	Bifenthrin 0.06 to 0.10 lb ai/A	<b>For the control of adults and immature stages of redbanded stinkbug. Bifenthrin will aid by delivering a faster knockdown of adults.</b>
	2.0 fl oz/A (0.03 lb ai/A)	Acephate 0.75 to 1.0 lb ai/A	<b>For the control of adults and immature stages of redbanded stinkbug. Acephate will aid by delivering a faster knockdown of adults.</b>

# Endangered Species Act (ESA) Biological Evaluation for Sulfoxaflor

## Transform<sup>®</sup> WG

Insecticide | Group 4C



Isoclast™ active

Communication  
Update

Dear Business Partner,

I'm happy to share with you that the U.S. Court of Appeals for the Ninth Circuit issued a decision on December 21 that allows sulfoxaflor products – those products containing Isoclast™ active – to remain on the market and pursuant to current labeling while the U.S. Environmental Protection Agency conducts additional assessments and administrative processes that the court determined are necessary.

With this news, growers can continue to use sulfoxaflor to effectively control costly pests and protect the quality, health and economic viability of their crops. Sulfoxaflor is an important tool for growers to effectively control tough pests, reduce the number of applications and help mitigate the development of resistance.

Reach out to your Corteva Agriscience representative with any questions.

Thank you,

A handwritten signature in black ink that reads "Jaret Fipps".

**Jaret Fipps**  
U.S. Portfolio Marketing Leader – Specialty Crops

