



Jason Kelley and Scott Monfort

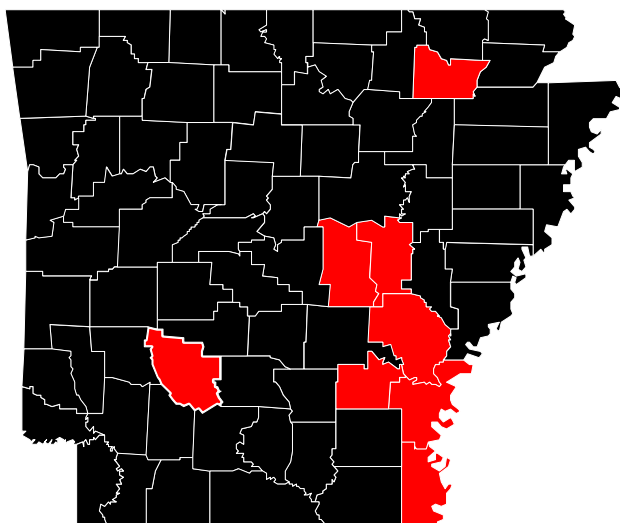
April 7, 2008

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Wheat Disease Update

Foliar diseases have been on the increase statewide over the last week after cool temperatures and widespread rainfall. Leaf rust is common on susceptible varieties, especially in the southern part of the state. Septoria can be found statewide in many fields at higher levels than has been experienced in the past few years, but it is still mainly in the lower canopy. Stripe rust has been confirmed in the following counties highlighted in red as of April 7, 2008.

Counties in red indicate stripe rust confirmed as of April 7, 2008.



Stripe rust has been showing up on varieties rated as being susceptible or moderately susceptible the previous year. Varieties with confirmed stripe rust this year include Hornbeck 3266, Croplan Genetics 554W, Croplan Genetics 514, Armor 260Z, Delta King 9577, Terral 8558 and several other unknown varieties. Disease ratings for many commonly grown wheat varieties are listed later in this newsletter. The 2007 wheat update, which has a description of many foliar diseases along with variety disease ratings, can be found at the following web address:

http://www.aragriculture.org/News/wheat_update/default.htm

Producers should be out looking at their wheat to see what foliar diseases they currently have. All fields should be closely monitored for disease development as weather conditions forecasted over the next few days continue to be favorable for foliar disease development.

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ARKANSAS WHEAT



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Stripe rust on Moderately
Susceptible Variety



Septoria Low in Plant Canopy

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Disease Reactions - Compiled by Drs. Gene Milus, Scott Monfort and Rick Cartwright

Table 5. Disease Reactions of Selected Wheat Varieties and Lines Evaluated in Arkansas 2003 - 2007.

	Spindle	Soil	Stripe	Leaf	Powdery	Leaf
Variety/Brand Name	Streak	Borne	Rust	Rust	Mildew	Blotch
AGRIPRO/COKER BERETTA	R	R	MR	MR	MR	MS
AGRIPRO/COKER BRANSON			MR*	MR	R	
AGRIPRO/COKER 9375	S	S	MR*	MS	R	MS
AGRIPRO/COKER 9553			R	R	S	
AGRIPRO/COKER 9700			R			
AGRIPRO/COKER COOPER	R	R	VS*	R	MR	
AGRIPRO/COKER MAGNOLIA			R	MR	S	
AGRIPRO/COKER NATCHEZ	MR	R	MR*	R	R	MR
AGRIPRO/COKER PANOLA	VS	R	R	MS	MR	MS
AGS 2000	VS	S	S	R	R	MR
AGS 2010			R			
AGS 2050			S	MR	R	
AGS 2060			R	MR	MS	
ARMOR 2010	MR	R	R*	MS	S	S
ARMOR 260Z			MS	MR	R	
ARMOR 3015			R*	MS	MS	
ARMOR 3035	MS	MR	MR*	S	S	MS
ARMOR 3330	R	R	R*	MS	S	MS
ARMOR 5110	R	R	R	MR	S	MS
CROPLAN GENET 514W	S	MR	VS*	R	R	
CROPLAN GENET 554W	R	R	S	MR	R	
CROPLAN GENET 8302			R	R	S	
DELTA GROW 1600			MS	MR	R	
DELTA GROW 4100			R	MS	S	
DELTA GROW 4200	MS	MS	R*	MR	S	MS
DELTA GROW 4500	MR	R	MR	S	S	MS
DELTA GROW 4888	MS	MR	R*	MR	MS	MS
DELTA GROW 5200			R	S	S	
DELTA KING 7710	R	R	R	MS	S	MS
DELTA KING 7830	S	R	MR	MS	S	MS
DELTA KING 9410	MR	R	R	S	S	MR
DELTA KING 9577	S	R	MS	MR	R	S
DELTA KING GR9108	VS	MR	R	MS	R	MS
DIXIE 900	S	MS	R	S	S	MR
DIXIE 9512	MS	R	MR*	S	S	MR

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Table 5. Disease Reactions of Selected Wheat Varieties and Lines Evaluated in Arkansas 2003 - 2007.

	Spindle	Soil	Stripe	Leaf	Powdery	Leaf
Variety/Brand Name	Streak	Borne	Rust	Rust	Mildew	Blotch
DIXIE 989			MR	R	R	
DIXIE 9812	MS	R	MR*	MS	S	MR
DIXIE BELL DB3440			MS	MS	MR	
DIXIE BELL DB7440			R			
FFR 556	R	R	S	MR	R	
FFR 8302			R	R	MS	
HBK 3266	S	MS	S	R	S	
PROGENY 110	VS	R	MR*	MS	S	MR
PROGENY 133	MS	R	R	S	S	MS
PROGENY 145	S	R	MR	S	S	MS
PROGENY 166	S	R	MR	S	S	MS
PROGENY 185			S	MR	R	
PROGENY 196			R*	MR	S	
ROANE	S	R	S	S	R	S
SABBE	S	MS	MR	S	R	MR
TERRAL LA841	S	VS	R	MR	MR	MS
TERRAL LA482			R			
TERRAL TV8450	VS	VS	MR*	R	S	S
TERRAL TV8466	MR	R	MR	MS	MR	MS
TERRAL TV8558			MS	MR	R	
TERRAL TV8565	MS	MR	MR*	MS	MS	MS
TERRAL TV8331			MS	R	R	
USG 3209	S	MS	S	MS	MS	MS
USG 3350	MS	R	MR	S	S	MS
USG 3295			R			
USG 3665			MS	MS	R	

R = Resistant; MR = Moderately Resistant; MS = Moderately Susceptible; S = Susceptible; VS = Very Susceptible.

*Stripe Rust ratings with an * were taken in previous years; all other stripe rust ratings were taken in 2007. Other disease ratings were taken in previous years and were not evaluated in 2007 due to lack of disease.

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[MP 154 – Wheat Foliar Fungicides](#)

WHEAT – FOLIAR FUNGICIDES

Rick Cartwright, Scott Monfort and Gene Milus

Fungicides are beneficial only if certain diseases are present at high enough levels and early enough in the season to cause yield and quality losses. The most important times for application of foliar fungicides are usually between GS 8 (flag leaf emergence) and GS 10.5 (full heading). In most years, GS 10 (full boot) is considered the ideal timing for a single fungicide application to control leaf rust and Septoria leaf blotch. Fields with stripe rust should be sprayed when the disease is first observed. Finally, the higher the yield potential of the field, the more likely an economic return from fungicide use.

Disease	Fungicide	Active Ingredient	Rate/Acre	Comments
Leaf Rust	Tilt 3.6EC*	propiconazole	4 fl oz	Do not apply after Feekes GS 10.5.* Do not apply more than 4 fl oz per acre per crop per season. Do not graze or feed treated wheat for forage, hay, green chop or silage. Check 24(c) label for days to harvest restrictions.
Stagonospora (Glume) Blotch ¹	Propimax EC*	propiconazole	4 fl oz	
Septoria Leaf Blotch	Bumper	propiconazole	4 fl oz	
Powdery Mildew				
Tan Spot ²				
Stripe Rust ³	Quadris 2.08 FL	azoxystrobin	6 fl oz (8.5 fl oz for powdery mildew)	Do not apply after Feekes GS 10.5. Do not harvest treated wheat for forage. Do not apply within 14 days of harvest for hay or 45 days for grain or straw. See label for other restrictions.
	Quilt*	azoxystrobin + propiconazole	10.5 - 14 fl oz	Do not apply after Feekes GS 10.5.* Tank mixes with certain herbicides and fertilizers may result in crop injury – see label for all restrictions.
	Stratego 250EC*	trifloxystrobin + propiconazole	10 fl oz	Do not apply after Feekes GS 10.5. Please refer to 24(c) label for all restrictions.
	Headline	pyraclostrobin	6 - 9 fl oz	Do not apply after Feekes GS 10.5 (beginning of flowering). See label. Headline is also labeled for control of black point of wheat.

* Section 24(c) Special Local Need Label for Arkansas – Label must be in possession of user at time of application – allows these fungicides to be applied up to Feekes GS 10.5. GS 10.5 is headed but prior to flowering. Section 24(c) labels MAY EXPIRE or new ones added prior to use season so the current status of these labels should be checked prior to use in 2005. Contact the local county Extension office for the latest information or call the Arkansas State Plant Board.

¹ Stagonospora (glume) blotch is more effectively controlled by seed treatment fungicides because it is primarily seedborne under Arkansas conditions and foliar symptoms are difficult to scout for in the spring. See Wheat Seed Treatment Table for details.

² Tan spot is generally rare in Arkansas but appears to be increasing in no-till fields in recent years. The identity of the disease should always be confirmed before a fungicide is considered since tan spot symptoms can be confused with herbicide injury and other non-disease problems.

³ All fields with active hot spots of stripe rust should be sprayed immediately if found prior to Feekes GS 10.5.

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Contact Information:

Please contact your local county Extension agent in Arkansas or the authors by email at jkelly@uaex.edu, or smonfort@uaex.edu, if you have questions or comments regarding this newsletter. Previous issues of this newsletter can be found at the following address: <http://www.aragriculture.org/newsletters.htm>

Acknowledgments:

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