

**SOYBEAN – FOLIAR DISEASES**

Cliff Coker, John Rupe and Terry Kirkpatrick

Disease	Fungicide	Active Ingredient	FRAC Code*	Rate/Acre	Days to Harvest	Comments
Aerial Blight	Quadris 2.08FL	azoxystrobin	11	6 - 15.5 fl oz	14 days	Apply at first sign of disease for maximum control. Applications after significant disease development will result in poor control. Use the high rates under conditions favorable for severe disease development, dense plant canopies or when highly susceptible varieties are planted.
	Headline**	pyraclostrobin	11	6 - 12 fl oz	21 days	
	Stratego**	trifloxystrobin + propiconazole	11 + 3	10 fl oz	21 days	
	Stratego YLD**	prothioconazole + trifloxystrobin	3 + 11	4 - 4.65 fl oz	21 days	
	Quilt**	azoxystrobin + propiconazole	11 + 3	14 - 20.5 fl oz	21 days	
	Quilt Xcel**	azoxystrobin + propiconazole	11 + 3	10.5 - 14 fl oz	See label.	
Anthracnose, Frogeye Leaf Spot, Pod and Stem Blight, Cercospora Leaf Blight and General Seed Quality Diseases	Headline	pyraclostrobin	11	6 - 12 fl oz	21 days	Apply at first sign of disease for maximum Frogeye Leaf Spot control. Applications after significant disease development will result in limited control. An application between R2 and late R5 has been used by seed producers for general seed quality protection.
	Quadris 2.08FL	azoxystrobin	11	6 - 15.5 fl oz	14 days	
	Quilt	azoxystrobin + propiconazole	11 + 3	14 - 20.5 fl oz	21 days	
	Quilt Xcel	azoxystrobin + propiconazole	11 + 3	10.5 - 14 fl oz	See label.	
	GEM RC	trifloxystrobin	11	3 - 3.5 fl oz	21 days	
	Stratego	trifloxystrobin + propiconazole	11 + 3	10 fl oz	21 days	
	Stratego YLD	prothioconazole + trifloxystrobin	3 + 11	4 - 4.65 fl oz	21 days	
	Alto	cyproconazole	3	4 - 5.5 fl oz	30 days	
	Quadris Xtra	cyproconazole + azoxystrobin	3 + 11	5 - 6.8 fl oz	30 days	
	Topsin 4.5FL or	thiophanate-methyl	1	10 - 20 fl oz	21 days	
	Micro Flo Thiophanate-Methyl	thiophanate-methyl	1	0.5 - 1 lb	21 days	
	70W WSB or					
	FarmSaver.com Thiophanate-Methyl 85WDG	thiophanate-methyl	1	0.4 - 0.8 lb	21 days	
Topguard	flutriafol	3	7 - 14 fl oz	14 days		
Evito 480SC	fluoxastrobin	11	2 - 5.7 fl oz	30 days		
Soybean Rust	Domark 230ME	tetraconazole	3	4 - 5 fl oz	See label.	There are many Section 18 fungicides available for soybean rust, and this is a volatile area, so please check our web site at <a href="http://www.aragriculture.org/diseases/Soybeans/Rust/">http://www.aragriculture.org/diseases/Soybeans/Rust/</a> for the latest fungicide information on this disease.
	Alto 100SL	cyproconazole	3	4 - 5.5 oz	30 days	
	Quadris Xtra	cyproconazole + azoxystrobin	3 + 11	4 - 6.8 oz	30 days	
	Folicur 3.6F, or Muscle 3.6F, or Tebu 3.6F, or TebuStar 3.6F, or Tebuzol 3.6F, or Orius 3.6F	tebuconazole	3	3 - 4 fl oz	21 days	
		tebuconazole	3	3 - 4 fl oz	21 days	
		tebuconazole	3	3 - 4 fl oz	21 days	
	Proline 480SC	prothioconazole	3	2.5 - 3 oz	21 days	If soybean rust is present, use the high rates combined with an additional triazole fungicide for improved disease control.
	Bravo Ultrex, or Bravo	chlorothalonil	M5	See label.	42 days	
	WeatherStik, or Chlorothalonil	chlorothalonil	M5	See label.	42 days	
	720SC, or Equus, or Echo 720, or Echo 90DF	chlorothalonil	M5	See label.	42 days	
		chlorothalonil	M5	See label.	42 days	
	Laredo	myclobutanil	3	4 - 8 fl oz	28 days	
	Quadris 2.08FL	azoxystrobin	11	6 - 15.5 fl oz	14 days	
Headline	pyraclostrobin	11	6 - 12 fl oz	21 days		

(continued)

## SOYBEAN – FOLIAR DISEASES (continued)

Disease	Fungicide	Active Ingredient	FRAC Code*	Rate/Acre	Days to Harvest	Comments
Soybean Rust ( <i>cont.</i> )	Stratego	trifloxystrobin + propiconazole	11 + 3	10 fl oz	21 days	
	Stratego YLD	prothioconazole + trifloxystrobin	3 + 11	4 - 4.65 fl oz	21 days	
	Quilt	azoxystrobin + propiconazole	11 + 3	14 - 20.5 fl oz	21 days	
	Quilt Xcel	azoxystrobin + propiconazole	11 + 3	14 - 21 fl oz	See label.	
	Tilt, or AmTide Propiconazole	propiconazole	3	4 - 6 fl oz	See label.	
	41.8EC, or Propiconazole E AG	propiconazole	3	4 - 6 fl oz	See label.	
	41.8EC, or Bumper	propiconazole	3	4 - 6 fl oz	See label.	
	Evito-T	fluxastrobin + tebuconazole	11 + 3	4 - 6 fl oz	See label.	
Topguard	flutriafol	3	7 - 14 fl oz	See label.		

\* **FRAC Code** – Fungicides with the same FRAC Code have the same mode of action. See <http://www.frac.info/frac/index.htm> for an explanation of the FRAC Codes. Rotation of fungicides with different FRAC Codes could minimize the development of fungicide-resistant strains.

\*\* Use for control of aerial blight is based on other states' data.

**NOTE:** There is little or no recent information on the economic value of foliar fungicides on today's soybean varieties in Arkansas. An economic return is more likely on high-value (seed) beans or fields with high yield potential (>40 bu/A) or high-yielding irrigated fields with a history of disease problems (under pivots that encourage foliar diseases or in rotations that encourage aerial blight).

## SOYBEAN NEMATODES

Terry Kirkpatrick and Cliff Coker

Nematode	Nematicide	Formulation	Active Ingredient	Rate/Acre	Comments
Soybean Cyst, Root Knot and Reniform	Telone II <sup>1</sup>	Liquid	1,3-dichloropropene	3 - 6 gal	Inject 12 inches below planting depth and seal immediately with appropriate bedding equipment. Wait 7 - 14 days before planting.
	K-Pam or Vapam <sup>1</sup>	Liquid	potassium N - methylthiocarbamate or sodium methylthiocarbamate	See label.	Inject 12 inches below planting depth and seal immediately 14 - 21 days before planting.
	Avicta 500 FS	Seed treatment	abamectin	See label.	For use by commercial seed treaters only. Use in conjunction with moderately resistant cultivars.
	Poncho/Votivo	Liquid	clothianidin + <i>Bacillus firmus</i> I-1582	0.13 mg ai/seed	Commercial seed treatment equipment only.

<sup>1</sup>Use where nematode pressure is severe.

**RESTRICTED USE PESTICIDES** – For sale and use only by licensed/certified applicators or persons under their direct supervision. **These are dangerous pesticides – use caution in handling and read and follow current label directions.** If nematodes are suspected to be causing problems, a diagnostic soil sample should be taken to your county agent for submission to the Cooperative Extension Service Nematode Diagnostic Laboratory. **A small fee is required.**

**NOTE:** The economic value of using nematicides on Arkansas soybeans is sometimes questionable. The value of soybeans in today's market must be considered. Planting resistant varieties or using crop rotation offers more economical control.