

## COTTON – FOLIAR DISEASES

Travis Faske

Disease	Fungicide	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
Target Spot ( <i>Corynespora cassiicola</i> )	Headline 2.09 SC	pyraclostrobin	11	6 - 12 fl oz	30	
	Quadris 2.08 SC	azoxystrobin	11	6 - 9 fl oz	45	
	Miravis Top 1.67 SC	difenoconazole + pydiflumetofen	3 + 7	13.6 fl oz	45	
	Revyllok 3.33 SC	mefentrifluconazole + fluxapyroxad	3 + 7	4.5 - 6.5 fl oz	14	
	Topguard EQ 4.29 SC	azoxystrobin + flutriafol	11 + 3	5 - 7 fl oz	45	
	Priaxor 4.17 SC	pyraclostrobin + fluxapyroxad	11 + 7	4 - 8 fl oz	30	
	Elatus 45 WG	azoxystrobin + benzovindiflupyr	11 + 7	6 - 7.3 fl oz	45	
	Amistar Top 1.67 SC	azoxystrobin + difenoconazole	11 + 3	8 - 11.6 fl oz	45	
	Revytek 3.33 SC	mefentrifluconazole + fluxapyroxad + pyraclostrobin	3 + 7 + 11	8 – 15 fl oz	21	

## COTTON – NEMATODES

Travis Faske

Nematode	Nematicide	Formulation	Active Ingredient	Rate/Acre	Comments
Root-knot and Reniform	Avicta 500 FS <sup>1</sup>	Seed treatment	abamectin	0.15 mg ai/seed	Available through commercial seed companies and dealer distributors.
	Avicta Elite Cotton <sup>1</sup> + Vibrance	Seed treatment	azoxystrobin + fludioxonil + mefenoxam + thiamethoxam + abamectin + imidacloprid + sedaxane	0.03 mg ai/seed 0.53 mg ai/seed 0.375 mg ai/seed 0.0096 mg ai/seed	Available through commercial seed companies and dealer distributors. Rate based on 5,500 seed/lb.
	Aeris 5 FS <sup>1</sup>	Seed treatment	thiodicarb + imidacloprid	0.75 mg ai/seed	Available through commercial seed companies and dealer distributors.
	Poncho/Votivo 5 FS <sup>1</sup>	Seed treatment	clothianidin + <i>Bacillus firmus</i> I-1582	0.424 mg ai/seed	Commercial seed treatment equipment only.
	BioST Nematicide 100 <sup>1</sup>	Seed treatment	<i>Burkholderia</i> spp. A396	7 fl oz/cwt	
	Trunemco Cotton	Seed treatment	<i>Bacillus amyloliquefaciens</i> strain MBI 600 + cis-Jasmone	0.06 – 0.31 fl oz/cwt	0.31 fl oz/cwt has been used in university trials.
	Copeo 600 FS <sup>1</sup>	Seed treatment	fluopyram	0.2 - 0.3 mg ai/seed	Available through a commercial seed company (BASF). 5.07 to 7.61 fl oz/cwt.
	Velum 4.16 SC <sup>1</sup>	Liquid	fluopyram	5 - 6.8 fl oz/A	Apply as an in-furrow spray with 5 - 6 gal/ac water at planting.
	Averland 0.7 FC	Liquid	abamectin	3.5 fl oz/A	Apply with a minimum of 5 gal/A for suppression of cotton nematodes.
	Telone II 9.85 L <sup>2</sup>	Liquid	1,3-dichloropropene	3 - 6 gal/A	Inject 12 inches below planting depth and seal immediately with appropriate bedding equipment. Wait 7 - 14 days before planting.
	AgLogic 15GG <sup>1</sup>	Granule	aldicarb	3.5 - 7 lb/A	Apply granules in the seed furrow and immediately cover seed and granules with 1 inch or more of soil.

<sup>1</sup>Use where nematode pressure is low to moderate.

<sup>2</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.**

## COTTON – SEEDLING DISEASES

Terry Spurlock

### Chemical Control of Seedling Diseases of Cotton in Arkansas:

1. All cotton seed planted in Arkansas should be treated commercially.
2. Under conditions that favor seedling diseases, additional stand protection may be received from the use of in-furrow fungicides when planting treated seed (treated seed + in-furrow combination).
3. The following products are commonly used in Arkansas cotton production to control seedling diseases.

Disease	Product	Active Ingredient	FRAC Code	Rate/cwt
<b>Commercial Seed Treatments or Distributor-Applied Seed Treatments</b>				
Pythium and Rhizoctonia diseases; fungal seed rots	Vortex 3.77 FS + Spera 240 FS + Allegiance 2.6 FL	ipconazole + myclobutanil + metalaxyl	3	0.08 fl oz +
			3	1.8 fl oz +
			4	0.75 fl oz
	Systhane 40 WSP + Maxim 4 FS + Apron XL 3 SC	myclobutanil + fludioxonil + mefenoxam	3	1.25 oz +
			12	0.08 fl oz +
			4	0.32 fl oz
	Vibrance CST 1.65 FC	azoxystrobin + fludioxonil + mefenoxam + sedaxane	11 + 12 + 4 + 7	3.06 - 4.08 fl oz/cwt 0.040 - 0.053 mg ai/seed based on 45000 seed/lb
	Avicta Elite Cotton Plus Vibrance CST	azoxystrobin + fludioxonil + mefenoxam + sedaxane + thiamethoxam + imidacloprid + abamectin	11 + 12 + 4 + 7	0.03 + 0.0096 + 0.34 + 0.375 + 0.15 mg ai/seed
	Seed Shield Cotton 0.5 FS	azoxystrobin + fludioxonil + mefenoxam + difenoconazole	11 + 12 + 4 + 3	4 oz/cwt based on 5000 seeds/lb
Pythium diseases only	Vayantis 3.3 FC	picarbutrazox	U17	0.0384 – 0.384 fl. oz/cwt
Rhizoctonia diseases	Vibrance 4.3 FS Vibrance CST 1.65 FC	sedaxane	7	0.3 fl oz
<b>In-Furrow Applications</b>				
Pythium and Rhizoctonia diseases; fungal seed rots	Reason 500 SC	fenamidone	11	0.45 fl oz per 1,000 row ft
	Uniform 3.72 SC	azoxystrobin + mefenoxam	11 + 4	0.32 - 0.48 fl oz per 1,000 row ft
	Headline 2.09 SC	pyraclostrobin	11	0.3 - 0.8 fl oz per 1,000 row ft
	Quadris 2.08 SC	azoxystrobin	11	0.4 - 0.7 fl oz per 1,000 row ft
	Priaxor 4.17 SC	pyraclostrobin + fluxapyroxad	11 + 7	0.1 - 0.6 fl oz per 1,000 row ft
Fusarium diseases	Velum 4.16 SC	fluopyram	7	5.0 – 6.84 fl oz per acre