

COTTON SEEDLING DISEASES

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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. If an in-furrow fungicide cannot be used under these conditions, a planter-box seed treatment can be used (treated seed + planter-box treatment). Thorough coverage is essential for planter-box treatments to be effective; however, planter-box treatments are considered less effective than granules or in-furrow sprays overall.
4. The following products are commonly used in Arkansas cotton production to control seedling diseases.

Commercial Seed Treatment	Product	Active Ingredient	Rate/cwt ¹
Pythium and Rhizoctonia diseases; fungal seed rots	Argent 30 + Baytan + Allegiance FL (formerly Apron)	TCMTB + triadimenol + metalaxyl	1 fl oz + 0.5 fl oz + 0.75 fl oz
	Systhane 40WP + Maxim 4FS + Apron XL LS	myclobutanil + fludioxonil + mefenoxam	1.25 oz + 0.08 fl oz + 0.32 fl oz
	Dynasty CST	azoxystrobin + fludioxonil + mefenoxam	0.03 mg AI/seed
	Seed Shield	azoxystrobin + fludioxonil + mefenoxam	4 oz/cwt
	Avicta Complete Cotton ²	Dynasty CST + thiamethoxam + abamectin	0.03 mg AI/seed 0.34 mg AI/seed 0.15 mg AI/seed
	Trilex Advanced	trifloxystrobin + metalaxyl + triadimenol	1.6 fl oz
Planter-Box or Distributor-Applied Seed Treatment			
Pythium and Rhizoctonia diseases; fungal seed rots	Trilex Advanced	trifloxystrobin + metalaxyl + triadimenol	1.6 fl oz
	Delta Coat AD	metalaxyl + chloroneb	5.75 - 11.75 fl oz
	Catapult	metalaxyl + chloroneb	11.75 fl oz

¹The high rate should be used in fields with severe disease history.

²Avicta Complete Cotton contains Dynasty + an insecticide + a nematicide. This treatment should be considered when nematode assays show that reniform or root-knot are present.

This information was current as of October 1, 2009, and applies only to Arkansas and may not be appropriate for other states or locations. The listing of any product in this publication does not imply endorsement of that product or discrimination against any other product by the University of Arkansas Division of Agriculture. Every effort was made to ensure accuracy, but the user of any crop protection product must read and follow the most current label on the product – The Label is the Law. For further assistance, contact the local Cooperative Extension Service office.