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Cotton Variety Reactions to the Fusarium Wilt-Nematode Complex - 1988

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Planting resistant varieties is the most effective and economical way to control the Fusarium wilt-nematode complex in cotton. The following tables are designed solely to provide a quick reference for variety reactions to this disease complex. For additional information on the Fusarium wilt-nematode complex itself, refer to OSU Extension Facts 7650. Agronomic performance for cotton varieties in Oklahoma is summarized in OSU Current Report 2094. Variety disease reactions reported in Table 1 are based on published research data. These classifications can be taken with considerable confidence. Variety reactions in Table 2 are based on commercial descriptions and represent the best available data at the present time.

Table 1. Cotton Variety Reactions to Fusarium Wilt-Nematode Complex Based on Published Research Data. Varieties Within Each Category Are Arranged in Alphabetical Order.

RESISTANT	INTERMEDIATE	SUSCEPTIBLE
Coker 310	Cencot	Stoneville 825
Delcot 311	Coker 139	
Delcot 344	Coker 208	
Deltapine 41	*Coker 315	
*Deltapine 50	Delcot 390	
*Deltapine Acala 90	Deltapine 20	
DES 119	Deltapine 61	
*DES 422	Stoneville 213	
McNair 220		
*McNair 235		
Simwalt 82		
*Stoneville 112		
*Stoneville 506		
Tamcot CAB-CS		
*Tamcot CAMD-E		
Tamcot CD3H		
*Tamcot SP21S		
*Tamcot SP37H		
*Westburn M		

Resistant = $\pm 10\%$ wilted plants compared to the resistant check.
Intermediate = resistant and susceptible plant classes nearly equal.
Susceptible = $\pm 10\%$ wilted plants compared to the susceptible check

* On recommended variety list for Oklahoma in 1986 (P-877), in 1987 (CR-2094), and/or in 1988 [CR-2094 (Rev.)].

The ratings in Table 1 were partially based on the 1987 Regional Cotton Fusarium Wilt Report, published by W. C. Johnson as Agronomy and Soils Departmental Series No. 119 of the Alabama Agricultural Experiment Station, Auburn University, in cooperation with the Crop Science Research Laboratory, USDA-ARS, Mississippi State University and on Departmental Series Nos. 112 (1986), 104 (1985), 95 (1984), and 86 (1983).

Table 2. Cotton Variety Reactions to the Fusarium Wilt-Nematode Complex Based on Commercial Descriptions. Varieties Within Each Category Are Arranged in Alphabetical Order.

RESISTANT	INTERMEDIATE	SUSCEPTIBLE
	Balebuster-1	Bronco 360
*Cascot L-7	Cascot BR-1	Bronco 625
Coker 304	Cascot B-2	Drylander 289
Coker 500	*Cascot C-13	Dunn 119
*Coker 4360	Coker 312	Dunn 219
Coker 5110	Coker 3131	*GP 3755
Deltapine 77	Deltapine SR-5	*GP 3774
Deltapine SR-383	*Deltapine SR-482	*GSA 71
Dunn 400	Deltapine SR-980	Lankart 57
GSA 74	Dunn 118	*Lankart 175
GSC 20	Dunn 120	*Lankart LX 571
GSC 25	Dunn 224	Lankart 611
GAC 27	GSA 78	*Paymaster 792
GSC 71+	GSC 30	Prolific Stormproof
Lankart PR-68	Hurdt's 100	Rilcot 90-A
*Lankart 7563	Hurdt's 580	Western 44
*Paymaster 145	Hurdt's 700	
*Paymaster 404	Hurdt's 850	
Paymaster 505	*Lankart PR-75	
Paymaster 505	Lankart 511	
	*Lockett 77	
	McDonald 3	
	Ranger BB 53	
	Rilcot RK-6	
	Rosebud PR-80	
	Terra SR-10	

* On recommended variety list for Oklahoma in 1986 (P-877), in 1987 (CR-2094), and/or in 1988 [CR-2094 (Rev.)].



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