

COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT**Cotton Disease Loss Estimate Committee**

Don Blasingame, Retired, Mississippi State University; William Gazaway and Kathy Lawrence, Auburn University; Al Wrather, University of Missouri; Mary Olsen, University of Arizona; Natalie Goldberg, New Mexico State University; Terry Kirkpatrick, University of Arkansas; Steve Koenning, North Carolina State University; Mike Davis, University of California; J. C. Banks, Oklahoma State University; Richard K. Sprenkel, University of Florida; John Muller, Clemson University; Bob Kemerait, University of Georgia; Melvin Newman, University of Tennessee; Patrick Colyer, Louisiana State University; Jason Woodward, Texas A & M; Gabe Scuibato, Mississippi State University; Patrick Phipps, Virginia Tech.

DISEASES	AL	AZ	AR	CA	FL	GA	LA	MS
Note: Table entries are % loss (top figure) and bales lost (lower figure)**								
Fusarium Wilt <i>F. oxysporium f. sp. vasinfectum</i>	1.00 6,258	-	0.50 7,584	0.30 1,200	-	Trace	1.00 3,373	Trace
Verticillium Wilt <i>V. dahliae</i>	1.00 6,258	1.00 3,996	0.50 7,584	0.20 800	-	-	Trace	Trace
X. axonopodis pv. <i>malvacearum</i>	Trace	-	-	-	-	-	Trace	Trace
Phymatotrichum Root Rot <i>P. omnivorum</i>	-	0.30 1,199	-	-	-	-	Trace	-
Seedling Diseases Several fungi	4.50 28,160	0.30 1,199	3.00 45,506	4.00 16,000	0.50 601	1.00 19,075	3.00 10,120	2.00 16,250
Ascochyta Blight <i>A. gossypii</i>	0.50 3,129	-	-	-	1.00 1,202	Trace	Trace	Trace
Boll Rots	4.00 25,031	0.30 1,199	2.00 30,337	-	1.00 1,202	1.00 19,075	6.00 20,241	4.00 32,500
Nematode (Total)	9.00 56,320	3.00 11,987	5.00 75,843	0.50 2,000	5.00 6,011	8.00 152,601	7.00 23,614	10.00 81,250
<i>Root-knot</i>	0.50 3,129	3.00 11,987	3.00 45,506	0.50 2,000	3.00 3,607	6.50 123,988	3.00 10,120	2.00 16,250
<i>Reniform</i>	8.50 53,191	-	2.00 30,337	-	2.00 2,404	1.50 28,613	4.00 13,494	8.00 65,000
<i>Others</i>	-	-	-	-	-	0.50 9,538	Trace	Trace
Leaf Spots And Others***	0.10 626	-	-	-	1.00 1,202	3.50 66,763	Trace	4.00 32,500
TOTAL PERCENT	20.10	4.90	11.00	5.00	8.50	13.50	17.00	20.00
BALES LOST	125,782	19,579	166,854	20,000	10,219	257,514	57,349	162,500
YIELDS IN BALES****	625,782	399,579	1,516,854	400,000	120,219	1,907,514	337,349	812,500

Table 1. Estimated Reduction in 2008 Cotton Yield Resulting from Diseases.*

* Cotton disease loss estimates were made by extension and research plant pathologists and agronomists with cotton responsibilities in their respective states. ** Rounding errors present ***Leaf spots (*Alternaria*, *Cercospora*, *Phomopsis*, etc.) and various root rots. **** Yield potential had not disease been present.

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Comments:

- LA Late season rains from Hurricanes Gustav and Ike caused an increase in boll rots.
 MS Late season rain resulted in heavy losses to leaf spots and boll rots (hard lock).
 NM Heavy late summer rains increased Alternaria leaf spot. An isolated problem with southwest cotton rust.
 OK Above average occurrence of Alternaria and associated leaf spots.
 SC Early season drought resulted in lower seedling disease but higher Fusarium and nematode damage. Late season rains resulted in better than average yields.
 TX Boll rots were higher this year due to late season weather conditions.
 VA Early season drought stressed the crop. Blowing sand resulted in some replanting. Nematodes are still our number one problem.

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