

**COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT**  
**Compiled by: Don Blasingame, Extension Plant Pathologist, Retired and**  
**Mukund V. Patel, Extension Plant Pathologist**  
**Mississippi State, MS**

Table 1. Estimated Reduction in 2000 Cotton Yield Resulting from Diseases.\*

DISEASES	AL	AZ	AR	CA	FL	GA	LA	MS
<b>Note: Table entries are % loss (top figure) and bales lost (lower figure)**</b>								
Fusarium Wilt <i>F. oxysporium f. sp. vasinfectum</i>	0.20 1,370	-	2.50 42,941	0.10 2,577	Trace	1.00 18,400	2.50 27,193	Trace
Verticillium Wilt <i>V. dahliae</i>	Trace	2.00 17,065	0.50 8,588	2.00 51,544	-	-	Trace	Trace
Bacterial Blight <i>X. malvacearum</i>	-	-	-	-	-	-	Trace	-
Phymatotrichum Root Rot <i>P. omnivorum</i>	-	2.00 17,065	-	-	-	-	Trace	-
Seedling Diseases Several fungi	5.00 34,247	1.00 8,532	5.00 85,882	2.50 64,430	1.00 922	2.00 36,800	3.00 32,632	2.50 50,872
Ascochyta Blight <i>A. gossypii</i>	-	-	-	-	-	Trace	Trace	Trace
Boll Rots	3.00 20,548	2.00 17,065	1.00 17,176	Trace	4.50 4,147	2.50 46,000	1.00 10,877	1.50 30,523
Nematode (Total)	8.50 58,219	5.00 42,662	6.00 103,058	1.50 38,658	6.50 5,990	6.00 110,400	8.00 87,018	10.00 203,488
<i>Root-knot</i>	0.50 3,425	5.00 42,662	4.00 68,706	1.50 38,658	5.00 4,608	4.20 77,280	2.00 21,754	2.00 40,697
<i>Reniform</i>	8.00 54,795	-	2.00 34,353	-	1.50 1,382	0.60 11,040	6.00 65,263	7.50 152,616
<i>Others</i>	-	-	-	-	-	1.20 22,080	-	0.50 10,174
Leaf Spots And Others***	3.00 20,548	0.10 853	-	-	0.10 92	1.00 18,400	Trace	Trace
<b>TOTAL PERCENT</b>	<b>19.70</b>	<b>12.10</b>	<b>15.00</b>	<b>6.10</b>	<b>12.10</b>	<b>12.50</b>	<b>14.50</b>	<b>14.00</b>
<b>BALES LOST</b>	134,931	103,242	257,647	157,210	11,150	230,000	141,628	284,884
<b>YIELDS IN BALES****</b>	684,932	853,242	1,717,647	2,577,210	92,150	1,840,000	1,011,628	2,034,884

\*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.

**Cotton Disease Loss Estimate Committee**

AL - Dr. William Gazaway, Auburn University  
 AR - Dr. Terry Kirkpatrick, University of Arkansas, Hope  
 AZ - Dr. Mary Olsen, University of Arizona  
 CA - Dr. Mike Davis, University of California  
 FL - Dr. Richard Sprenkel, University of Florida, Quincy  
 GA - Dr. Richard Davis, University of Georgia, Athens  
 LA - Dr. Patrick Colyer, LSU, Bossier City  
 MS - Mukund V. Patel, Mississippi State University

MO - Dr. Al Wrather, University of Missouri  
 NM - Dr. Natlie Goldberg, New Mexico State University  
 NC - Dr. Steve Koenning, NC State University  
 OK - Dr. J.C. Banks, University of Oklahoma, Attus  
 SC - Dr. John Muller, Clemson University, Blackville  
 TN - Dr. Melvin Newman, University of Tennessee, Jackson  
 TX - Dr. Harold Kaufman, Texas A & M, Lubbock  
 VA - Dr. Patrick Phipps, Virginia Tech, Tidewater

**Table 1. (continued)**

MO	NM	NC	OK	SC	TN	TX	VA	BALES LOST	AVG.% LOST
0.50 2,880	-	0.01 162	0.20 378	0.50 2,131	0.01 79	0.50 24,474	-	122,585	0.50
-	4.00 6,212	0.01 162	0.20 378	-	0.25 1,979	1.00 48,948	-	134,877	0.62
-	Trace	Trace	0.50 945	-	-	2.00 97,896	-	98,841	0.16
-	Trace	-	-	-	-	3.00 146,844	-	163,909	0.31
3.00 17,277	0.50 777	4.50 72,840	0.20 378	1.00 4,262	4.00 31,669	3.00 146,844	0.75 1,291	589,655	2.43
-	-	0.10 1,619	0.30 567	Trace	0.20 1,583	-	-	3,769	0.04
-	0.50 777	5.00 80,933	-	1.00 4,262	3.00 23,752	0.50 24,474	1.00 1,722	282,256	1.66
1.00 5,759	5.00 7,765	0.80 12,949	0.50 945	6.00 25,574	1.00 7,917	1.50 73,422	3.00 5,165	788,991	4.39
1.00 5,759	5.00 7,765	0.40 6,475	0.50 945	2.00 8,525	0.50 3,959	1.50 73,422	Trace	404,640	2.19
-	-	0.20 3,237	-	1.00 4,262	0.50 3,959	-	-	330,907	1.71
-	-	0.20 3,237	-	3.00 12,787	-	-	3.00 5,165	53,444	0.49
-	0.50 777	-	0.20 378	Trace	0.60 4,750	0.10 4,895	Trace	50,693	0.35
<b>4.50</b>	<b>10.50</b>	<b>10.42</b>	<b>2.10</b>	<b>8.50</b>	<b>9.06</b>	<b>11.60</b>	<b>4.75</b>		<b>10.46</b>
25,916	16,307	168,665	3,968	36,230	71,731	567,796	8,178	<b>2,235,576</b>	
575,916	155,307	1,618,665	188,968	426,230	791,731	4,894,796	172,178	19,539,397	

Comments:

- AL Leaf spots severe in central, north, and west Alabama. Leaf spot and drought caused early defoliation in many fields. The reniform nematode continues to spread in Alabama.
- AZ October rains increased boll rot on late harvested cotton.
- AR A cool- wet May and June resulted in increased seedling disease. Root-knot and Fusarium wilt were severe during the late season.
- FL Disease loss estimate data were also supplied by Dr. Jim Morris, Plant Pathologist and Dr. Jim Rich, Nematologist.
- MS Damage to reniform nematode continues to increase, especially in drought stressed area.
- NC Bacterial blight was seen in some fields this year. Ascochyta seedling blight was reported on 5,000 - 10,000 acres.
- SC Dry weather at planting limited seedling disease damage this spring. Heavy fall rains increased boll rots in most locations.