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

DISEASES	AL	AZ	AR	CA	FL	GA	LA	MS
	Note:	Table ent		loss (top fig	gure) and	bales lost (lower fig	
Fusarium Wilt	0.50	-	2.50	0.10	Trace	0.50	1.50	Trace
F. oxysporium f.	5,435		48,225	2,096		10,286	13,473	
sp. vasinfectum								
Verticillium Wilt	-	050	0.50	1.50	-	-	Trace	Trace
V. dahliae		3,341	9,645	31,447				
Bacterial Blight	-	-	-	-	-	-	Trace	-
X. malvacearum								
Phymatrotrichum	-	1.00	-	-	-	-	Trace	-
Root Rot		6,681						
P. omnivorum								
Seedling Diseases	7.00	1.00	3.00	1.50	2.00	1.50	3.00	2.50
Several fungi	76,087	6,681	57,870	31,447	3,702	30,857	26,946	60,976
Ascochyta Blight	0.5	-	-	-	-	Trace	Trace	Trace
A. gossypii	5,435							
Boll Rots	10.00	0.50	3.00	Trace	5.00	2.50	5.00	5.00
	108,696	3,341	57,870		9,254	51,429	44,910	121,951
Nematode (Total)	8.50	5.00	6.50	1.50	5.10	7.00	7.00	10.00
	92,391	33,406	125,385	31,447	9,439	144,000	62,874	243,902
Root-knot	0.50	5.00	4.50	1.50	4.10	4.50	2.00	2.50
	5,435	33,406	86,805	31,447	7,588	92,571	17,964	60,976
Reniform	2.00	-	2.00	-	1.00	2.00	5.00	7.00
	21,739		38,580		1,851	41,143	44,910	170,732
Others	-	-	-	-	-	0.50	-	0.50
						10,286		12,195
Leaf Spots And Oth-	4.50	0.10	-	Trace	0.10	1.00	Trace	0.50
ers***	48,913	668			185	20,571		12,195
TOTAL PERCENT	31.00	8.10	15.50	4.60	12.20	12.50	16.50	18.00
BALES LOST	336,957	54,118	298,994	96,436	22,580	257,143	148,204	439,024
YIELDS IN BALES****	1,086,957	668,118	1,928,994	2,096,436	185,080	2,057,143	898,204	2,439,024

Table 1. Estimated Reduction in 2002 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.

Cotton Disease Loss Estimate Committee

AL -	Dr.	William	Gazaway,	Auburn	University
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- 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. Bob Kemerait, University of Georgia, Tifton
- LA Dr. Patrick Colyer, LSU, Bossier City
- MS Dr. Gabe Scuimbato, Mississippi State University, Stoneville

MO - Dr. Al Wrather, University of Missouri

- NM Dr. Natlie Goldburg, 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

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								BALES	AVG. %
MO	NM	NC	OK	SC	TN	ТХ	VA	LOST	LOST
		0.01	0.00	0.50	0.01	0.00			
-	-	0.01	0.30	0.50	0.01	0.20	-	93,382	0.38
	4.50	103	550	1,104	107	12,002)	
-	4.50	0.01	0.30	-	0.10	1.00	-	111,866	0.5
	5,700	103	550		1,069	60,012		,	
- Trace	-	0.20	-		4.00	-	240,413	0.26	
		367			240,047				
- Trace	Trace	-	-	-	-	3.00	-	186,716	0.25
					• • • • •	180,035		,	
5.00	0.50	2.50	0.30	0.50	20.00	2.50	0.75	721,387	3.3
34,043	633	25,849	550	1,104	213,813	150,029	800		0.00
0.50	-	_	0.20	Trace	2.00	_	-	30,587	0.2
3,404			367		21,381			00,007	0.2
-	Trace	4.60	.10	15.00	5.00	0.70	2.00	575,919	3.6
		47,562	183	33,129	53,453	42,008	2,133	575,919	2.05
0.50	5.00	1.00	020	2.50	1.50	2.70	3.50	950,610	4.22
3,404	6,333	10,340	367	5,521	16,036	162,032	3,733	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
0.50	5.00	0.40	0.20	1.00	0.10	2.50	0.50	504,272	2.18
3,404	6,333	4,136	367	2,209	1,069	150,029	533	501,272	
_	_	0.40	_	0.50	1.40	0.20	Trace	351,164	1.34
		4,136		1,104	14,967	12,002		551,107	1.5
_	_	0.20	_	1.00	_		3.00	29,957	0.33
		2,068		2,209			3,200	27,757	
_	- Trace	_	0.20	Trace	0.30	0.30	Trace	104,110	0.4
	Trace		367	IIdee	3,207	18,004	IIdee	104,110	0.4
6.00	10.00	8.12	1.80	18.50	28.91	14.40	6.25		13.2
40,851	12,667	83,957	3,299	40,859	309,067	864,168	6,667	3,014,990	
680,851	/	1,033,957	,	220,859	,	· · ·	106,667	/ /	

Table 1. (continued)

Comments:

AL Heavy rains late in the season resulted in heavy boll rot loss in the south part of the state. The reniform nematode continues to spread. Dr. Ed Sikora and Dr. Dale Monk assisted with the estimates.

GA Conditions were less favorable for seedling disease and boll rot this year. The reniform nematode was found in more locations in 2002.

MS Late season rain increased boll rots as well as caused problems with harvesting and reducing quality. Dr. Gary Lawrence assisted with estimates.

SC Boll rots, hard-lock, tight-lock, and stink bug damage was severe in 2002. The prolonged wet weather aatributed to the problems.

TN Loss estimates were taken from research and extension plots, as well as reports and estimates from extension agents. Seedling disease losses were the highest in the last 30 years.

TX July rains caused leaf spots in the upper coast, the coastal bend and central Texas that were associated with premature defoliation. There were also late defoliating wilts on the High Plains that could not be attributed to either Fusarium or Verticillium wilts.

VA Reniform nematode damage in cotton was found in Southampton county. Dr. Eisenback, nematologist, confirmed the ID. Southern root-knot was confirmed on the north side of the James river, in our northern most cotton production area.

November 2002