COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT

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Table 1. Estimated Reduction in 2001 Cotton Yield Resulting from Diseases.*

DISEASES	AL	AZ	AR	CA	FL	GA	LA	MS
	Note: Table entries are % loss (top figure) and bales lost (lower figure)**							
Fusarium Wilt *F. oxysporium f. sp. vasinfectum*	0.50 5,742	-	2.50 54,315	0.10 2,537	Trace	0.50 12,866	1.50 24,331	Trace
Verticillium Wilt *V. dahliae*	-	050 4,075	0.50 10,863	1.00 25,367	-	-	Trace	Trace
Bacterial Blight *X. malvacearum*	-	-	-	-	-	-	Trace	-
Phymatrotrichum Root Rot *P. omnivorum*	-	2.00 16,302	Trace	-	-	-	Trace	-
Seedling Diseases Several fungi	6.50 74,645	0.50 4,075	4.00 86,905	2.00 50,734	4.00 3,686	3.00 77,193	4.00 64,882	2.0 60,988
Ascochyta Blight *A. gossypii*	-	-	-	-	-	Trace	Trace	Trace
Boll Rots	5.00 57,419	0.50 4,075	3.00 65,179	Trace	2.50 2,304	4.00 102,924	23.00 373,071	10.00 304,938
Nematode (Total)	6.50 74,645	5.00 40,755	6.00 130,357	1.50 38,050	5.50 5,068	6.00 154,386	7.00 113,543	7.00 213,457
Root-knot	*0.50* *5,741*	*5.00* *40,755*	*4.00* *86,905*	*1.50* *38,050*	*4.50* *4,147*	*4.20* *108,070*	*2.00* *32,441*	*1.50* *45,741*
Reniform	*6.00* *68,903*	-	*2.00* *43,452*	-	*1.00* *922*	*0.60* *15,439*	*5.00* *81,102*	*5.00* *152,469*
Others	-	-	-	-	-	*1.20* *30,877*	-	*0.50* *15,247*
Leaf Spots And Others***	4.00 45,935	0.10 815	-	Trace	0.10 92	1.00 25,731	1.0 16,220	Trace
TOTAL PERCENT	**22.50**	**8.60**	**16.00**	**4.60**	**12.10**	**14.50**	**36.50**	**19.00**
BALES LOST	258,387	70,098	347,619	116,688	11,150	373,099	592,047	579,382
YIELDS IN BALES****	1,148,387	815,098	2,172,619	2,536,688	92,150	2,573,099	1,622,047	3,049,383

*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

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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
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Table 1. (continued)

MO	NM	NC	OK	SC	TN	TX	VA	BALES LOST	AVG. % LOST
-	-	0.01 168	0.30 642	0.50 2,291	0.01 116	0.40 18,937	-	121,944	0.40
-	4.00 5,843	0.01 168	0.40 856	-	0.10 1,158	0.10 4,734	-	53,065	0.41
-	Trace	-	0.20 428	-	-	3.00 142,027	-	142,456	0.20
-	Trace	-	-	-	-	3.00 142,027	-	158,329	0.31
1.00 7,282	0.50 730	3.00 50,527	0.30 642	1.00 4,581	8.50 98,444	2.50 118,356	0.50 969	704,639	2.71
-	-	0.05 842	0.10 214	Trace	2.00 23,163	-	-	24,219	0.13
1.00 7,282	0.50 730	4.00 67,369	.10 214	1.00 4,581	5.00 57,908	0.70 33,140	0.75 1,453	1,082,587	3.82
0.50 3,641	5.00 7,303	0.90 15,158	030 642	8.00 36,648	1.00 11,582	2.70 127,825	3.25 6,296	979,357	4.13
0.50 *3,641*	*5.00* *7,303*	*0.40* *6,737*	*0.30* *642*	*3.00* *13,743*	*0.10* *1,158*	*2.50* *118,356*	*0.25* *484*	*513,916*	*2.20*
-	-	*0.40* *6,737*	-	*1.50* *6,872*	*0.90* *10,423*	*0.20* *9,469*	-	*395,788*	*1.41*
-	-	*0.10* *1,684*	-	*2.50* *11,452*	-		*3.00* *5,812*	*65,072*	*0.46*
-	1.00 1,461	-	0.20 428	Trace	0.50 5,791	0.30 14,203	Trace	110,677	0.51
2.50	**11.00**	**7.97**	**1.90**	**10.50**	**17.11**	**12.70**	**4.50**		**12.62**
18,205	16,067	134,233	4,067	48,101	198,161	601,250	8,717	**3,377,274**	
728,205	146,067	1,684,233	214,067	458,101	1,158,161	4,734,250	193,717	23,132,557	

Comments:

AL Heavy rains resulted in higher losses to boll rot and foliar diseases- Ed Sikora and Dale Monks.
AR High boll rots in the southern part of the state. Two fields found with Texas root rot.
GA A cool wet spring resulted in higher seedling disease losses. A wet fall increased boll rots.
LA Heavy fall rains contributed to severe boll rot and "tight lock". Many fields were abandoned.
MS Adequate rainfall resulted in lower nematode losses. Severe boll rot on early maturing varieties south of Highway 82.
NC High stand loss was the result of dry weather, fertilizer injury and small amounts of seedling disease.
TN Ascochyta blight and boll rots were severe this year.
TX Boll rots were severe in central and south Texas. Bacterial blight was heavy in some areas of the high plains.

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