COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT

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Table 1. Estimated Reduction in 2007 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 2,439		0.50 10,565	0.50 3,151	Trace	Trace	1.00 8,140	Trace
Verticillium Wilt *V. dahliae*	0.50 2,439	0.50 2,819	0.50 10,565	0.30 1,891	-	-	Trace	Trace
Bacterial Blight *X. malvacearum*	Trace	-	-	-	-	-	Trace	Trace
Phymatrotrichum Root Rot *P. omnivorum*	-	1.00 5,638	-	-	-	-	Trace	-
Seedling Diseases Several fungi	4.50 21,951	0.50 2,819	2.50 52,825	3.50 22,059	-	2.00 37,931	2.00 16,279	3.00 47,500
Ascochyta Blight *A. gossypii*	0.40 1,951	-	-	-	-	Trace	Trace	Trace
Boll Rots	3.00 14,634	-	2.00 42,260	Trace	3.00 3,333	1.00 18,966	4.00 32,558	1.50 23,750
Nematode (Total)	9.00 43,902	4.00 22,553	5.50 116,215	0.50 3,151	6.00 6,667	8.00 151,724	7.00 56,977	11.00 174,167
Root-knot	0.50 2,439	4.00 22,553	3.00 63,390	0.50 3,151	3.30 3,667	6.00 113,793	3.00 24,419	2.00 31,667
Reniform	8.50 41,463	-	2.50 52,825	-	2.70 3,000	1.50 28,448	4.00 32,558	9.00 142,500
Others	-	-	-	-	-	0.50 9,486	Trace	Trace
Leaf Spots And Others***	0.10 488		0.50 10,565		1.00 1,111	2.00 37,931	Trace	0.50 7,917
TOTAL PERCENT	**18.00**	**6.00**	**11.50**	**4.80**	**10.00**	**13.00**	**14.00**	**16.00**
BALES LOST	87,805	33,830	242,994	30,252	11,111	246,552	113,953	253,333
YIELDS IN BALES**	487,805	563,830	2,112,994	630,252	111,111	1,896,552	813,953	1,583,333

* 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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Table 1. (continued)

MO	NM	NC	OK	SC	TN	TX	VA	BALES LOST	AVG. % LOST
-	-	-	0.20 590	0.50 749	-	0.70 63,851	Trace	**80,535**	**0.24**
Trace	2.00 2,239	-	0.30 885	-	0.01 66	0.90 82,095	-	**42,935**	**0.31**
-	Trace	-	0.20 590	-	-	Trace	0.10 98	**3,769**	**0.02**
-	Trace	-	-	-	-	7.00 638,514	-	**100,495**	**0.50**
1.50 11,969	1.00 1,120	0.70 5,318	0.20 590	0.50 749	3.00 19,897	0.80 72,973	1.00 983	**335,402**	**1.67**
Trace	-	-	-	--	0.50 3,316	-	Trace	**11,306**	**0.06**
Trace	-	1.00 7,597	0.10 295	0.25 374	0.50 3,316	0.10 9,122	0.20 197	**209,155 326,456**	**1.04**
2.00 15,959	5.00 5,598	5.00 37,985	0.30 885	4.50 6,738	2.00 13,265	1.60 145,946	500 4,915	**959,854 1,223,995**	**4.78**
2.00 15,959	5.00 5,598	3.00 22,791	0.30 885	2.00 2,995	-0.01 66	1.30 118,581	3.00 2,949	**488,783**	**2.43**
-	-	1.00 7,597	-	1.00 1,497	2.00 13,265	0.30 27,365	0.10 98	**409,518**	**2.04**
-	-	1.00 7,597	-	1.50 2,246	-	-	1.90 1,868	**61,553**	***0.31***
Trace	Trace	0.50 3,798	0.40 1,180	0.75 1,123	0.50 3,316	0.10 9,122	0.10 98	**81,024**	***0.40***
3.50	***8.00***	***7.20***	***1.700***	***6.50***	***6.52***	***11.20***	***6.40***		***9.02***
27,927	8,957	54,698	5,015	9,73311	43,243	1,021,622	6,291	**1,812,932**	
797,927	111,957	759,698	295,015	149,733	663,234	9,121,622	98,297	**20,099,026**	

Comments:

AL This season was the dries in 100 years, with less than 6 inches in some areas. Dale Monks, cotton agronomist reported 'hardlock" problems in some areas of the state. Drs. C. Burmester, K. Lawrence, and C. Monks assisted in disease loss estimates.

GA There was a slight increase in seedling disease even in dry areas. Nematodes continue to be a problem and laf sports were widespread along the coastal plains.

MS Seedling disease was a problem during an extremely dry year. D. Blasingame and G. Lawrence reported

that nematodes were still our number one problem.
NM Disease loss returned to normal with a return of normal environmental conditions.
SC Leaf sports caused some defoliation. Nematode losses are down due to a cotton/peanut rotation program. Boll rots were down due to the last season drought.
TX An unusually cool- wet spring resulted in higher seedling disease losses.
VA Timely rains resulted in higher yields during on of our driest years.
December 2007