COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT

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Table 1. Estimated Reduction in 1998 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*	 Trace	 -	 2.00 27,907	 0.10 1,367	 0.44 392	 2.00 34,356	 2.00 15,663	 Trace
Verticillium Wilt *V. dahliae*	Trace	0.50 3,204	1.00 13,953	1.50 20,499	-	Trace	Trace	0.30 4,922
Bacterial Blight *Xanthomonas* *malvacearum*	-	-	-	-	-	Trace	Trace	Trace
Phymatrotrichum Root Rot *P. omnivorum*	-	2.00 12,818	-	-	-	-	Trace	-
Seedling Diseases *Rhizoctonia solani,* *Pythium* spp., *Fusarium* spp., etc.	 6.00 42,015	 1.00 6,409	 3.00 41,860	 5.00 68,330	 1.00 890	 3.00 51,534	 4.00 31,325	 3.00 49,224
Ascochyta Blight *A. gossypii*	0.50 3501	-	-	-	-	Trace	Trace	Trace
Boll Rots	4.00 28,010	0.50 3,204	3.00 41,860	Trace	4.40 3,916	4.00 68,712	4.00 31,325	2.50 41,020
Nematode Spp.	8.00 56,020	5.00 32,044	5.00 69,767	1.20 16,399	0.70 623	8.00 137,423	7.00 54,819	4.00 65,632
Leaf Spots And Others***	0.10 700	0.50 3,204	-	Trace	0.20 178	1.50 25,767	Trace	Trace
TOTAL PERCENT	**18.60**	**9.50**	**14.00**	**7.80**	**6.74**	**18.50**	**17.00**	**9.80**
BALES LOST	130,246	60,884	195,349	106,594	5,999	317,791	133,133	160,798
YIELDS IN BALES**	700,246	640,884	1,395,349	1,366,594	88,999	1,717,791	783,133	1,640,798

Table 1. (continued)

DISEASES	NM	NC	OK	SC	TN	TX	VA	BALES LOST	AVG. % LOST
Fusarium Wilt *F. oxysporium f.* *sp. vasinfectum*	 -	 0	 0.50 657	 Trace	 0.01 63	 0.20 6,734	 0	 87,137	 0.45
Verticillium Wilt *V. dahliae*	5.00 5,424	0.01 106	1.00 1,313	0	1.50 9,421	1.50 50,505	0	158,529	0.77
Bacterial Blight *Xanthomonas* *malvacearum*	 Trace	 0	 1.00 1,313	 0	 -	 1.00 33,670	 0	 34,983	 0.13
Phymatrotrichum Root Rot *P. omnivorum*	Trace	0	-	0	-	3.00 101,010	0	113,828	0.31
Seedling Diseases *Rhizoctonia solani,* *Pythium* spp., *Fusarium* spp., etc.	 0.50 5,424	 3.00 31,936	 1.00 1,313	 2.50 9,270	 7.00 43,965	 1.50 50,505	 2.00 3,106	 440,771	 2.78
Ascochyta Blight *A. gossypii*	-	0	0.50 657	Trace	0.02 126	0.10 3,367	0	9,204	0.13
Boll Rots	1.00 1,085	7.00 74,518	0.20 263	0.50 1,854	3.00 18,842	0.30 10,101	1.00 1,553	339,866	2.35
Nematode Spp.	4.50 4,881	0.75 7,984	0.50 657	8.00 29,663	0.40 2,512	3.00 101,010	3.00 4,660	625,200	3.53
Leaf Spots And Others***	0.50 542	0	0.10 131	Trace	0.50 3,140	0.30 10,101	Trace	48,646	0.23
TOTAL PERCENT	**11.50**	**10.76**	**4.80**	**11.00**	**12.43**	**10.90**	**6.00**		**10.68**
BALES LOST	**12,475**	**114,545**	**6,303**	**40,787**	**78,069**	**367,003**	**9,319**	**1,858,163**	
YIELDS IN BALES****	**108,475**	**1,064,545**	**131,303**	**370,787**	**628,069**	**3,367,003**	**155,319**	**15,502,163**	

* 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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Comments:

AL Rhizoctonia sp. was the major seedling disease agent in 1998. Boll rots a problem in south Alabama.

AZ Disease pressure was much lower in 1998.

AR The root-knot nematode/Fusarium complex was much more severe in SE Arkansas in 1998.

GA Late Season drought increased nematode losses.

MO The “Bronze wilt” was a severe problem in some fields. We estimate a 2% State wide loss in 1998. (Figure not included in disease loss estimate)

TN Reniform nematode infestation increasing in State. The “Bronze wilt” was a problem in some areas.

VA Root-knot, stubby root, and sting nematode are the major nematode problem Statewide. Boll rots seen to follow high insect pressure in 1998.