

2009 COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT

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Table 1. Estimated Reduction in 2009 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 <i>F. oxysporium</i> <i>f. sp. vasinfectum</i>	1.00 6,036	-	0.50 4,914	0.20 514	-	Trace	0.10 398	Trace
Verticillium Wilt <i>V. dahliae</i>	1.00 6,036	1.00 4,412	2.00 19,657	0.10 257	-	-	Trace	Trace
Bacterial Blight <i>X. malvacearum</i>	Trace	-	-	-	-	-	Trace	Trace
Phymatotrichum Root Rot <i>P. omnivorum</i>	-	0.30 1,324	-	-	-	-	Trace	-
Seedling Diseases Several fungi	6.00 36,215	0.30 1,324	3.00 29,486	2.00 5,144	0.30 432	1.50 33,195	4.00 15,904	1.50 8,766
Ascochyta Blight <i>A. gossypii</i>	0.60 3,622	-	-	-	2.00 2,883	Trace	0.90 3,578	Trace
Boll Rots	25.00 150,897	0.10 441	3.00 29,486	-	10.00 14,414	1.50 33,195	5.00 19,880	7.00 40,909
Nematode (Total)	5.00 30,179	3.00 13,235	4.00 39,314	0.50 1,286	5.00 7,207	9.50 210,237	7.00 27,831	7.00 40,909
<i>Root-knot</i>	0.30 1,811	3.00 13,235	3.00 29,486	0.50 1,286	3.00 4,324	7.00 154,911	3.00 11,928	1.50 8,766
<i>Reniform</i>	4.70 28,369	-	1.00 9,829	-	2.00 2,883	2.00 44,260	4.00 15,904	5.50 32,143
<i>Others</i>	-	-	-	-	-	0.50 11,065	Trace	Trace
Leaf Spots And Others***	0.10 604	.10 441	-	Trace	5.00 7,207	3.00 66,391	-	7.50 43,831
TOTAL PERCENT	38.70	4.80	12.50	2.80	22.30	15.50	17.00	23.00
BALES LOST	233,589	21,176	122,857	7,202	32,144	343,018	67,590	134,416
YIELDS IN BALES****	603,589	441,176	982,857	257,202	144,144	2,213,010	397,590	584,416

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Table 1. (continued)

MO	NM	NC	OK	SC	TN	TX	VA	BALES LOST	AVG. % LOST
-	-	-	-	1.00 2,212	-	0.20 11,338	-	26,117	0.19
-	2.00 1,189	0.10 864	0.50 1,739	-	-	1.30 73,696	-	69,646	0.50
-	-	-	-	-	-	0.10 5,669	Trace	871	0.01
-	Trace	-	-	-	-	7.50 425,170	-	67,905	0.49
4.00 22,128	0.50 297	5.00 43,182	0.50 1,739	0.50 1,106	4.00 23,639	0.50 28,345	1.00 1,273	301,220	2.16
-	-	-	-	0.10 221	0.50 2,955	-	-	35,694	0.26
-	Trace	6.00 51,818	0.75 2,609	0.50 1,106	5.00 29,549	0.10 5,669	0.30 382	559,347	4.02
2.00 11,064	5.00 2,973	0.90 7,773	-	7.00 15,487	2.01 11,879	2.00 113,379	4.35 5,538	559,434	4.02
2.00 11,064	5.00 2,973	0.50 4,318	-	3.00 6,637	0.01 59	1.60 90,703	3.00 3,820	316,978	2.28
-	-	0.20 1,727	-	1.50 3,319	2.00 11,820	0.40 22,676	0.10 127	203,715	1.46
-	-	0.20 1,727	-	2.50 5,531	-	Trace	1.25 1,592	38,741	0.28
-	Trace	-	0.50 1,739	0.50 1,106	0.50 2,955	0.10 5,669	0.10 127	151,481	1.09
6.00	7.50	12.00	2.25	9.60	12.01	11.80	5.75		12.72
33,191	4,459	103,636	7,826	21,239	70,976	668,934	7,321	1,771,714	
553,191	59,459	863,636	347,826	221,239	590,976	5,668,934	127,321	13,929,25	

* 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.

Comments:

- AL Hardlock is severe in many rain saturated areas.
- GA Seedling diseases and leaf spots diseases (*Stemphylium* sp. and *Corynespora* sp.) are higher due to rainy weather condition.
Nematode losses are higher due to short supply of nematicide.
- MS Yield losses due to rainy weather condition at the time of harvest (45 to 50 %).
- OK *Alternaria* on plant stems caused distorted growth.
- SC Extreme drought during the last third of the growing season led to high yield losses due to *Fusarium* wilt and nematodes.
- TN Extremely wet growing season.
- TX Severe black root rot damage observed in several fields north of Lubbock.
- VA Planting was delayed by rainfall in late April.

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