

COTTON DISEASE LOSS ESTIMATE COMMITTEE REPORT

Compiled by: Don Blasingame and Mukund V. Patel, Extension Plant Pathologists,
Retired, Mississippi State, MS 39762

Table 1. Estimated Reduction in 2012 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 f. sp. vasinfectum</i>	1.00 8,302	-	0.05 694	0.70 3,414	-	Trace	1.00 5,111	Trace
Verticillium Wilt <i>V. dahliae</i>	1.00 8,302	1.50 10,568	-	0.20 975	-	-	Trace	Trace
Bacterial Blight <i>X. malvacearum</i>	Trace	-	Trace	-	-	Trace	Trace	0.20 2,172
Phymatotrichum Root Rot <i>P. omnivorum</i>	-	0.50 3,523	-	-	-	-	Trace	-
Seedling Diseases Several fungi	4.50 37,358	0.30 2,114	2.50 34,718	1.50 7,315	0.10 244	0.50 17,308	2.00 10,222	1.50 16,293
Ascochyta Blight <i>A. gossypii</i>	0.50 4,151	-	-	-	2.00 4,889	Trace	Trace	Trace
Boll Rots	5.00 41,509	0.10 705	1.00 13,887	Trace	-	3.00 103,846	-	3.00 32,587
Nematode (Total)	5.50 45,660	2.50 17,613	5.00 69,437	0.20 975	6.00 14,668	13.00 450,000	7.00 35,778	5.00 54,311
<i>Root-knot</i>	0.50 4,151	2.50 17,613	3.50 48,606	0.20 975	3.00 7,334	10.00 346,154	3.00 15,333	1.00 10,862
<i>Reniform</i>	5.00 41,509	-	1.50 20,831	-	3.00 7,334	2.50 86,538	4.00 20,444	4.00 43,449
<i>Others</i>	-	-	-	-	-	0.50 17,308	Trace	-
Leaf Spots And Others***	3.00 24,906	-	-	Trace	6.00 14,668	5.50 190,385	Trace	1.00 10,862
TOTAL PERCENT	20.50	4.90	8.55	2.60	14.10	22.00	10.00	10.70
BALES LOST	170,189	34,522	118,737	12,680	34,470	761,538	51,111	116,226
YIELDS IN BALES****	830,189	704,522	1,388,737	487,680	244,470	3,461,538 4	511,111	1,086,226

* 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
AR - Dr. Terry Kirkpatrick, University of Arkansas, Hope
CA - Dr. Robert Huttmacher, University of California
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OK - Dr. Randy Boman, Oklahoma State University, Altus
SC - Dr. John Muller, Clemson University, Blackville
TN - Dr. Melvin Newman, University of Tennessee, Jackson
TX - Dr. Jason Woodward, Texas A & M, Lubbock
VA - Dr. Patrick Phipps, Virginia Tech, Tidewater

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Table 1. (continued) 2012

MO	NM	NC	OK	SC	TN	TX	VA	BALES LOST	AVG. % LOST
-	-	0.01 124	-	0.50 2,869	-	0.40 25,934	-	46,448	0.23
-	1.00 1,022	0.01 124	0.25 380	-	0.50 3,920	1.00 64,835	-	90,125	0.34
Trace	-	-	-	-	-	0.10 6,484	Trace	8,656	0.02
-	Trace	-	0.10 152	-	-	4.70 304,725	-	308,400	0.33
0.50 3,454	0.50 511	2.00 24,735	0.30 456	0.25 1,435	6.00 47,038	0.50 32,418	1.50 2,787	238,395	1.53
-	-	-	-	0.05 287	0.50 3,920	-	Trace	13,247	0.19
Trace	-	5.00 61,812	-	0.10 574	0.50 3,920	0.10 6,484	0.20 372	265,695	1.13
2.50 17,268	5.00 5,108	3.50 43,268	0.10 152	4.50 25,824	3.01 23,597	2.00 129,670	3.60 6,688	940,018	4.28
2.50 17,268	5.00 5,108	2.50 30,906	0.10 152	2.50 14,346	0.01 78	1.80 116,703	2.00 3,715	639,306	2.51
-	-	0.50 6,181	-	1.00 5,739	3.00 23,519	0.20 12,967	0.10 186	268,698	1.55
-	-	0.50 6,181	-	1.00 5,739	-	Trace	1.50 2,787	32,014	0.22
-	0.50 511	0.50 6,181	0.50 759	0.50 2,869	0.20 1,568	0.20 12,967	0.50 929	266,605	1.15
3.00	7.00	11.02	1.25	5.98	10.71	9.00	5.80		9.19
20,722	7,151	136,233	1,899	33,858	83,962	583,516	10,775	1,721,796	
690,722	102,151	1,236,233	151,899	573,858	783,962	6,483,516	185,775	18,736,813	

Comments:

GA A ver warm spring and wet growing season resulted in significant damage to nematodes, boll rots, and *Corynespora* leaf spot.
 NC *Corynespora* leaf spot was present.
 SC An extensive outbreak of Target spot (*Corynespora cassiicola*) in August.
 TN Extremely hot and dry during the middle of the growing season.
 TX Late season *Alternaria* leaf spot was present.
 VA *Corynespora* leaf spot was a problem on cotton and soybean.

December 2012

Beltwide Cotton Disease Percent Loss

YEAR	FW	VW	BB	PR	SD	AB	BR	NEMA	RKN	RFN	Others	LS	Totals
1952	1.12	0.45	1.35	0.65	3.32		1.52	1.32				1.12	10.85
1953	1.36	2.10	1.27	0.79	2.28		0.55	1.70				0.36	10.41
1954	1.21	1.01	0.71	0.72	2.91		0.72	1.11				0.36	8.75
1955	1.29	1.38	1.08	0.42	2.67		2.75	1.35				0.51	11.45
1956	1.17	1.33	1.56	0.82	2.63		1.47	1.23				0.44	10.65
1957	1.11	1.78	1.74	1.05	2.41		2.61	1.09				0.21	12.00
1958	0.74	2.42	3.42	1.45	2.58		2.53	0.91				0.22	14.27
1959	0.93	1.69	2.48	1.61	2.09		2.71	1.13				0.79	13.43
1960	1.24	1.69	2.27	1.83	3.26		2.62	1.81				1.31	16.03
1961	0.94	3.40	1.92	2.12	3.20		1.97	1.67				1.71	16.93
1962	1.02	2.30	1.60	1.90	2.07		2.70	1.70				1.30	14.59
1963	1.29	2.02	0.82	1.57	2.73		2.01	1.76				1.71	13.91
1964	0.87	2.26	0.59	1.21	2.79		2.72	1.66				0.36	12.46
1965	0.74	2.74	0.59	0.86	3.16	0.14	2.49	1.70				0.70	13.12
1966	0.90	4.08	0.83	0.63	4.03	0.13	2.81	1.63				0.24	15.28
1967	0.61	4.40	0.93	0.54	3.90	0.05	2.05	1.63				0.24	14.35
1968	0.81	3.37	1.01	0.54	3.21	0.13	2.05	2.02				0.33	13.47
1969	1.19	2.66	1.68	1.24	3.73	0.21	3.70	2.44				1.12	17.97
1970	0.62	2.48	1.23	0.54	2.98	0.03	5.33	2.86				0.57	16.64
1971	0.82	1.95	0.79	0.77	4.00	0.12	3.86	2.04				0.85	15.20
1972	1.00	2.81	1.73	0.69	2.63	0.42	2.24	2.69				0.62	14.83
1973	0.73	2.87	1.05	0.64	2.70	0.16	2.52	2.93				0.31	13.91
1974	0.64	2.03	0.38	0.22	2.06	0.05	3.13	1.62				0.42	10.55
1975	0.49	2.90	0.66	0.64	2.52	0.05	3.09	2.04				1.21	13.60
1976	0.40	3.67	0.71	0.75	3.64	0.08	2.29	2.49				0.24	14.27
1977	0.51	2.19	0.51	1.22	1.48	0.02	2.54	1.70				0.41	10.58
1978	0.60	1.90	0.40	1.50	3.30	0.15	2.00	2.50				0.62	12.97
1979	0.44	2.78	0.30	1.77	2.41	0.05	1.90	2.86				0.34	12.85
1980	0.15	2.32	0.01	1.64	2.41	0.00	2.19	1.43				0.19	10.34
1981	0.60	1.98	0.20	2.99	2.69	0.00	2.19	1.41				0.84	12.90
1982	0.19	1.74	0.03	0.95	2.19	0.00	1.87	1.24				0.11	8.32
1983	0.50	2.00	0.20	1.70	2.10	0.00	2.10	1.90				0.00	10.50
1984	0.20	0.20	0.00	0.40	2.90	0.00	2.20	1.90				0.40	8.20
1985	0.20	1.80	0.10	0.50	2.00	0.00	1.70	1.60				0.20	8.10
1986	0.20	1.90	0.10	0.50	2.20	0.10	1.60	1.80				0.30	8.70
1987	0.24	2.00	0.07	0.38	2.00	0.09	2.00	1.00				0.33	8.11
1988	0.35	1.18	0.04	0.23	2.23	0.05	4.92	1.78				0.47	11.25
1989	0.20	1.50	0.00	0.60	3.70	0.00	1.50	1.80				0.30	9.60
1990	0.30	1.70	0.00	1.10	3.00	0.00	1.10	2.30				0.50	10.00
1991	0.40	1.50	0.00	0.10	2.70	0.00	1.50	2.40				0.40	9.00
1992	0.30	1.20	0.10	0.50	3.50	0.80	2.10	2.70				0.50	11.70
1993	0.41	1.12	0.13	0.61	3.38	0.05	1.70	3.27				0.48	11.15
1994	0.30	1.40	0.10	0.50	3.10	0.10	1.50	3.20				0.40	10.60
1995	0.42	1.22	0.10	0.51	3.82	0.09	2.45	3.54				0.68	12.83
1996	0.31	1.29	0.10	0.54	2.75	0.04	2.73	3.42				0.69	11.87
1997	0.32	1.37	0.11	0.57	3.54	0.47	1.58	3.71				0.64	12.31
1998	0.45	0.77	0.13	0.31	2.78	0.13	2.35	3.53				0.23	10.68
1999	0.41	0.75	0.25	0.31	2.78	0.09	2.14	4.24				0.22	11.19
2000	0.50	0.62	0.16	0.31	2.43	0.04	1.66	4.39	2.19	1.71	0.49	0.35	10.46
2001	0.40	0.41	0.20	0.31	2.71	0.13	3.82	4.13	2.20	1.41	0.46	0.51	12.62
2002	0.38	0.53	0.26	0.25	3.35	0.20	3.65	4.22	2.18	1.34	0.33	0.44	13.28
2003	0.45	0.42	0.05	0.38	4.02	0.06	2.06	4.54	2.43	1.78	0.33	0.20	12.18
2004	0.33	0.62	0.02	0.44	2.18	0.10	2.25	4.68	2.49	1.93	0.26	0.33	10.95
2005	0.33	0.54	0.01	0.50	1.88	0.09	1.49	4.71	2.24	2.10	0.36	0.24	9.79
2006	0.35	0.38	0.15	0.47	2.01	0.13	1.42	5.32	2.66	2.37	0.30	1.51	11.74

Beltwide Cotton Disease Percent Loss

YEAR	FW	VW	BB	PR	SD	AB	BR	NEMA	<i>RKN</i>	<i>RFN</i>	<i>Others</i>	LS	Totals
2007	0.24	0.31	0.02	0.50	1.67	0.06	1.04	4.78	<i>2.43</i>	<i>2.04</i>	<i>0.31</i>	0.40	9.02
2008	0.27	0.46	0.08	0.46	1.68	0.13	1.37	4.73	<i>2.49</i>	<i>1.97</i>	<i>0.31</i>	1.34	10.52
2009	0.19	0.50	0.01	0.49	2.16	0.26	4.02	4.02	<i>2.28</i>	<i>1.46</i>	<i>0.28</i>	1.09	12.74
2010	0.29	0.31	0.01	0.46	1.63	0.19	1.04	4.16	<i>2.35</i>	<i>1.48</i>	<i>0.33</i>	0.70	8.79
2011	0.24	0.30	0.22	0.31	1.82	0.13	0.95	3.80	<i>2.10</i>	<i>1.50</i>	<i>0.20</i>	0.25	8.02
2012	0.23	0.34	0.02	0.33	1.53	0.19	1.13	4.28	<i>2.51</i>	<i>1.55</i>	<i>0.22</i>	1.15	9.20

USDA November Production Report

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USDA November Production Report

U.S. Cotton Crop, 2012-13					
	PLANTED ACRES Thou. 1/	HARV. ACRES Thou.	YIELD PER HARV. ACRE Lb.	5-YEAR AVG. YIELD Lb.	480- POUND BALES Thou.
UPLAND					
SOUTHEAST	2,747	2,728	948	789	5,385
Alabama	380	377	840	676	660
Florida	108	105	960	760	210
Georgia	1,290	1,285	1,009	826	2,700
North Carolina	585	580	910	780	1,100
South Carolina	298	296	876	797	540
Virginia	86	85	988	811	175
MID-SOUTH	2,020	1,965	994	913	4,070
Arkansas	590	580	1,051	985	1,270
Louisiana	230	220	1,004	823	460
Mississippi	470	460	1,012	924	970
Missouri	350	330	975	1,006	670
Tennessee	380	375	896	768	700
SOUTHWEST	6,962	5,127	571	702	6,095
Kansas	57	52	415	653	45
Oklahoma	305	175	411	770	150
Texas	6,600	4,900	578	700	5,900
WEST	392	386	1,542	1,467	1,240
Arizona	200	198	1,624	1,502	670
California	142	141	1,617	1,537	475
New Mexico	50	47	970	1,094	95
TOTAL					
UPLAND	12,121	10,206	790	805	16,790
TOTAL ELS	239	237	1,328	1,324	657
Arizona	3	3	1,120	930	7
California	225	224	1,350	1,379	630
New Mexico	3	3	828	814	5
Texas	8	8	960	899	15
ALL COTTON	12,360	10,443	802	817	17,447

Source: USDA-NASS November Crop Production Report.
1/ Updated from June Acreage Report.