

REPORT OF THE 2002 COTTON WEED LOSS COMMITTEE

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Cotton yield losses by weed genera, acres infested by weed genera, herbicide usage, and bales reduced for grass contamination are presented by states in tables 1, 2, 3, and 4, respectively. Data for tables 1, 2, and 3 are provided by committee members and/or co-workers in each state. Committee members are listed below.

Alabama - Mike Patterson

Arizona - Bill McCloskey

Arkansas - Ken Smith

California - Ron Vargas

Florida - Barry Brecke

Georgia - Stanley Culpepper

Louisiana - Steve Kelly

Mississippi - John Byrd

Missouri - Andy Kendig

North Carolina - Alan York

New Mexico - Jill Schroeder

Oklahoma - Case Medlin

South Carolina - Ed Murdock

Tennessee - Bob Hayes

Texas - Paul Baumann

Table 1. Estimated percent reduction in cotton yields by weed genera by state, 2002.

(Values based on individual states) Total % crop lost = 100%

	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	% LOST AVG
GRASS WEEDS																
Brachiaria	1	1	-	-	1	-	2	1	1	2	-	-	-	1	1	0.7
Cynodon	8	2	5	5	3	2	-	1	8	2	6	-	2	3	4	3.4
Cyperus	8	6	12	20	8	12	5	2	3	3	12	4	10	3	6	8.5
Digitaria	5	6	-	-	3	2	3	5	2	1	-	3	-	1	1	2.1
Echinochloa	1	2	5	15	2	-	1	1	1	-	2	3	-	1	4	2.5
Eleusine	3	1	-	-	3	-	3	4	1	1	-	-	4	3	-	1.5
Panicum	5	1	1	-	3	12	4	1	-	1	-	5	3	1	5	2.8
Sorghum	1	3	5	5	2	1	4	6	9	1	10	6	2	3	10	4.5
other	2	4 ^a	5 ^a	1 ^c	-	-	-	1 ^b	-	-	-	-	-	-	-	0.9
BROADLEAF WEEDS																
Abutilon	1	1	-	-	-	-	-	5	2	-	-	-	1	1	-	0.8
Acanthospermum	4	-	-	-	5	3	-	-	-	-	-	-	-	-	-	0.8
Amaranthus	6	15	5	7	5	25	7	6	15	35	2	13	38	10	12	13.4
Ambrosia	1	-	-	-	-	-	-	1	-	1	-	-	-	-	3	0.4
Anoda	1	2	-	-	-	-	1	3	1	-	12	-	-	2	1	1.5
Chenopodium	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	0.1
Convolvulus	-	-	3	5	-	-	-	-	1	-	2	4	-	-	1	1.1
Croton	1	-	-	-	4	-	-	1	-	-	-	-	2	-	1	0.7
Euphorbia	4	8	1	-	5	2	3	5	5	-	-	3	1	2	1	2.7
Helianthus	-	-	-	-	-	-	-	-	-	-	2	-	-	-	5	0.5
Ipomoea	17	25	15	19	10	25	10	22	27	35	25	14	12	10	12	16.0
Melochia	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	0.3
Physalis	-	-	3	2	-	-	1	-	-	-	1	2	-	-	1	0.7
Polygonum	-	-	-	-	3	-	-	3	3	1	-	-	1	1	-	0.8
Portulaca	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	0.2
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	0.5
Salsola	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.1
Senna	13	-	-	-	10	2	-	1	2	10	-	-	15	8	-	4.9
Sesbania	-	1	1	-	-	1	5	-	8	-	-	-	-	-	-	1.1
Sida	11	12	-	-	5	1	7	8	6	1	-	-	1	5	-	3.8
Solanum	1	-	3	20	-	-	5	-	1	-	9	12	-	-	4	3.7
Xanthium	1	5	1	1	15	2	5	20	10	5	6	-	5	10	1	5.8
other	5	4	5	-	10 ^c	10 ^c	15 ^d	2 ^d	5 ^d	-	3 ^e	3	3 ^f	2	7	4.9
Total % Crop Lost	5	10	7	3	10	7	7	10	9	5	7	7	10	8	7	
Total Bales (x 1000)	600	1300	730	2600	80	1650	748	571	1920	790	82	380	245	790	5300	17786.0
Bales Lost (x 1000)	32	130	51	78	8	116	59	57	153	41	6	27	25	63	371	1217.0

^aIncludes *Brachiaria*, *Digitaria*, *Echinochloa*, *Eleusine*, and *Leptochloa* spp. ^b*Setaria* ^c*Desmodium*, *Jacquemontia*, and *Richardia* spp. ^dIncludes *Ampelamus*, *Brunnichia*, and *Campsis* spp. ^e*Datura* spp. ^fIncludes *Acanthospermum*, *Ambrosia*, *Anoda*, and *Polygonum* spp.

Table 2. Estimated cotton acreage (x1000) infested by weed genera by state, 2002.

	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	Total
Total cotton acres	590	950	278	860	80	1440	480	340	1170	920	84	170	287	535	5300	13484.0
GRASS WEEDS																
Brachiaria	100	40	-	-	-	20	250	10	76	375	-	-	9	40	-	920.0
Cynodon	50	20	96	50	8	75	20	2	325	30	4	5	2	60	5	752.0
Cyperus	150	50	84	150	25	1000	250	10	295	200	25	12	40	50	100	2441.0
Digitaria	200	350	-	-	25	700	250	300	600	750	-	6	275	100	400	3956.0
Echinochloa	18	20	47	150	-	2	300	10	118	-	11	6	-	10	400	1092.0
Eleusine	100	300	-	-	12	300	270	100	280	250	-	-	120	50	-	1782.0
Panicum	70	10	-	-	20	1200	20	8	9	100	-	15	18	40	850	2360.0
Sorghum	10	200	64	60	-	50	250	50	300	50	21	50	7	250	1000	2362.0
other	-	10 ^a	46 ^a	-	10 ^b	-	-	2 ^c	20	-	4 ^a	-	-	-	-	92.0
BROADLEAF WEEDS																
Abutilon	30	10	-	-	-	3	-	150	6	5	-	-	2	50	2	258.0
Acanthospermum	60	-	-	-	12	450	-	-	-	-	-	-	-	-	-	522.0
Amaranthus	250	400	120	100	65	1400	250	300	400	950	25	80	280	300	5000	9920.0
Ambrosia	10	-	-	-	1	35	-	1	10	120	-	4	-	25	300	506.0
Anoda	15	10	-	-	-	2	5	50	45	4	17	-	1	50	100	299.0
Campsis	1	-	-	-	-	1	-	-	28	5	-	-	-	50	-	85.0
Chenopodium	4	-	1	-	-	130	-	1	2	450	-	-	7	15	2	612.0
Convolvulus	-	-	11	30	-	1	-	-	-	-	1	8	-	-	25	76.0
Conyza	-	-	-	-	-	-	-	-	125	-	-	-	-	300	-	-
Croton	60	-	-	-	4	300	10	-	35	145	-	-	24	45	50	673.0
Eclipta	-	-	-	-	4	40	-	5	15	200	5	-	-	10	5	284.0
Euphorbia	150	300	1	-	15	100	90	75	675	15	4	7	10	100	40	1582.0
Helianthus	-	-	-	-	-	-	-	-	3	-	2	-	-	-	800	805.0
Ipomoea	350	750	103	250	45	1200	350	300	850	950	20	10	75	300	700	6253.0
Melochia	3	-	-	-	20	150	-	-	-	-	-	-	-	-	5	178.0
Physalis	-	-	66	40	-	50	20	-	6	-	8	10	-	10	100	310.0
Polygonum	15	25	-	-	4	65	-	5	120	200	-	-	7	100	5	546.0
Portulaca	-	-	54	-	-	15	-	3	160	-	-	12	-	-	5	249.0
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1500	1506.0
Salsola	-	-	3	-	-	-	-	-	-	-	2	6	-	-	2000	2011.0
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	700.0
Senna	300	25	-	-	60	1200	10	-	85	635	-	-	190	110	-	2615.0
Sesbania	5	10	10	-	-	20	90	5	500	-	-	-	-	1	-	641.0
Sida	230	600	-	-	30	250	200	200	650	400	-	-	40	200	10	2810.0
Solanum	20	-	31	500	-	40	5	1	100	-	16	60	-	45	2000	2818.0
Xanthium	50	250	5	20	35	700	100	250	730	200	1	7	100	400	1000	3848.0
other	5 ^d	-	45 ^e	5	12 ^e	1400 ^e	150 ^f	100 ^d	300 ^d	-	1	60	10 ⁰	135	1000	3223.0

^a*Leptochloa* ^b*Dactyloctenium* ^c*Setaria* ^dPerennial vines: *Ampelamus*, *Brunnichia*, *Campsis*, *Cynanchum*, *Ipomoea* ^e*Desmodium*, *Jacquemontia*, and *Richardia* spp. ^f*Hibiscus* ^gIncludes *Acanthospermum*, *Ambrosia*, *Polygonum* spp., *Datura* spp., and *Kochia*.

Table 3. Estimated herbicide usage (% acres treated) in cotton by states, 2002.

HERBICIDE	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX-I	TX-II
FALLOW/STALE SEEDBED																
Cyanazine	-	2	-	2	-	-	-	-	2	-	-	-	-	-	1	5
Goal	-	0.5	-	6	-	-	10	-	2	-	-	-	-	-	-	-
Gramoxone Max	15	15	-	3	2	8	15	5	5	10	-	-	15	25	10	-
glyphosate	50	5	-	10	2	27	50	15	60	35	-	<1	35	30	10	2
Harmony Extra	-	0.5	-	-	-	1	5	-	6	-	-	-	-	-	-	-
MSMA	-	-	-	-	-	1	6	1	-	-	-	-	-	-	15	-
Prometryn	5	-	-	-	-	1	-	-	3	-	-	-	-	-	-	-
Prowl/Trifluralin	10	-	-	-	-	4	-	-	-	-	-	-	-	-	-	70
other	15	-	-	-	-	10 ^k	-	-	-	4	-	-	-	-	-	-
PREPLANT INCORPORATED																
Prowl	5	45	30	45	25	5	30	26	10	5	20	30	30	10	20	20
Trifluralin	15	30	30	45	20	20	10	57	12	5	57	65	35	10	70	70
Trifluralin + fluometuron	-	1	-	-	-	-	3	3	-	-	-	-	-	-	-	-
other	2	5	36 ^b	10 ^b	-	1	10	20	-	-	23 ^b	-	-	-	-	5
PREEMERGENCE																
Cyanazine	-	2	-	-	-	-	6	3	1	-	-	-	-	-	-	-
Command	1	2	-	-	-	-	10	50	2	-	-	1	1	1	-	-
Diuron	7	1	-	-	-	3	15	-	5	-	-	-	-	2	10	15
Dual	-	4	-	-	-	-	-	4	3	-	4	-	-	5	4	<1
Fluometuron	10	70	-	-	30	10	66	90	18	30	-	1	10	25	-	-
Prometryn	5	5	-	-	-	-	-	-	-	-	-	8	-	1	10	40
Prowl	25	10	3	-	-	40	20	8	1	30	-	5	15	25	5	<1 ^e
Staple	15	-	-	-	5	22	5	20	33	1	-	-	-	1	2	-
other	1	10	-	-	5	1	12	20	33	-	-	-	-	-	2	4
POSTEMERGENCE OVERTOP																
Assure II/Bugle/Fusilade/																
PoastPlus/Select	2	10	2	20	15	5	35	20	8	10	5	5	2	10	10	20
Buctril	-	25	2	1	-	-	10	30	8	-	-	2	-	5	12	-
Dual	-	-	-	-	-	-	-	-	8	15	-	-	-	-	-	-
glyphosate	90	5	65	35	85	90	60	30	80	75	-	15	95	75	50	-
Staple	35	40	20	35	25	40	30	50	55	20	-	-	25	10	5	-
POSTEMERGENCE DIRECTED																
Cyanazine	5	25	2	5	-	-	5	2	3	-	-	-	-	-	1	20
+MSMA	-	33	1	3	-	-	10	30	30	-	-	-	-	1	-	-
Cobra	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
+MSMA	4	10	-	-	2	3	10	15	4	1	-	-	-	1	-	-
Diuron	10	1	5	-	-	10	5	-	3	-	5	-	-	-	1	-
+MSMA	-	10	1	-	5	12	20	1	8	1	-	-	-	25	-	-
Fluometuron	20	25	-	-	-	1	20	15	10	-	-	-	-	-	-	10
+MSMA	-	40	-	-	5	8	35	20	10	1	-	-	-	1	-	-
Goal	<1	3	-	3	5	1	20	10	1	-	-	-	-	-	-	-
Gramoxone Extra	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-
MSMA or DSMA	64	85	-	15	30	2	40	20	30	10	1	10	5	5	2	5
Prometryn	10	15	10	-	-	5	4	2	3	-	5	-	-	-	<1	<1
+MSMA	15	20	1	3	10	8	10	8	14	50	1	0	20	10	-	<1
glyphosate	65	5	55	15	50	60	20	25	40	45	-	-	40	50	3	-
SPOT TREATMENT																
MSMA																
Assure II/Bugle/Fusilade/																
PoastPlus/Select	5	20	3	5	-	5	50	20	18	5	30	2	1	2	15	15
glyphosate ⁱ	4	4	1	5	-	5	6	10	2	-	2	10	1	1	30	30
LAYBY																
Bladex	-	30	1	35	-	-	10	20	40	-	-	-	-	1	2	10
Command	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diuron	20	10	2	-	5	10	40	10	20	-	-	5	-	10	5	-
glyphosate	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-
linuron	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
other	20	-	50 ^f	10 ^f	-	10	20	-	1 ^j	10	17 ^f	-	40	-	<1 ^f	5 ^f

^aGoal, Bladex or Prometryn ^bTrifluralin or Prowl + Prometryn ^cTrifluralin plus norflurazon ^eGoal ^fPrometryn ^gSurflan ^hfluometuron + norflurazon ⁱincludes wick application ^jFluometuron ^kDiuron

State	2001			2002		
	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)
Alabama	521,562	0.7	53	565,817	0.2	32
Arizona	571,167	0.6	49	576,412	0.4	51
Arkansas	1,405,081	0.5	101	1,615,035	0.2	130
California	2,026,142	0.9	263	1,423,576	0.7	78
Florida	91,672	1.0	13	67,274	0.2	8
Georgia	1,541,811	1.9	422	1,548,686	0.2	116
Kansas	-	-	-	64,682	0.1	1
Louisiana	922,961	0.3	40	749,006	0.3	59
Mississippi	1,675,294	0.2	48	1,879,712	0.2	153
Missouri	501,878	0.8	58	578,585	0.1	8
New Mexico	55,609	0.3	2	40,608	0.1	6
North Carolina	1,304,882	3.5	658	781,736	1.3	41
Oklahoma	141,209	0.1	2	195,631	0	27
South Carolina	351,660	2.1	106	126,580	0.7	25
Tennessee	691,257	0.3	30	788,945	0.1	63
Texas	3,761,253	0.4	217	4,936,929	1.2	371
Virginia	144,705	4.1	85	85,793	1.5	19
Total	15,733,025	-	2266	16,025,007	-	1188

^aAssumed price was reduced by \$0.03 per pound of lint. Information summarized from the United States Department of Agriculture, Agricultural Marketing Service, Cotton Division, Cotton Quality Reports online at <http://www.ams.usda.gov/cotton/mncls/>.