

REPORT OF THE 2001 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	Missouri - Andy Kendig
Arizona - Bill McCloskey	North Carolina - Alan York
Arkansas - Ken Smith	New Mexico - Jill Schroeder
California - Ron Vargas	Oklahoma - J. C. Banks
Florida - Barry Brecke	South Carolina - Ed Murdock
Georgia - Stanley Culpepper	Tennessee - Bob Hayes
Louisiana - Steve Kelly	Texas - Paul Baumann
Mississippi - John Byrd	

Table 1. Estimated percent reduction in cotton yields by weed genera by state, 2001.

(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	5	-	1	8	2	6	-	3	3	4	3.7
Cyperus	8	6	12	20	8	12	5	2	3	5	12	9	10	3	6	8.1
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	8	4	1	-	1	-	5	2	1	5	2.5
Sorghum	3	3	5	5	2	1	4	6	9	1	10	11	2	3	10	5.0
other	2	4 ^a	5 ^a	1 ^e	-	-	-	1 ^b	-	-	-	-	-	-	-	0.9
BROADLEAF WEEDS																
Abutilon	1	1	-	-	-	-	-	5	2	-	-	-	1	1	-	0.7
Acanthospermum	4	-	-	-	5	5	-	-	-	-	-	-	-	-	-	0.9
Amaranthus	4	15	5	7	5	12	7	6	15	35	2	13	38	10	12	12.4
Ambrosia	1	-	-	-	-	-	-	1	-	1	-	-	-	-	3	0.4
Anoda	1	2	-	-	-	-	2	3	1	-	12	-	-	2	1	1.6
Chenopodium	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	0.1
Convolvulus	-	-	3	5	-	-	-	-	1	-	2	5	-	-	1	1.1
Croton	1	-	-	-	4	3	-	1	-	-	-	-	2	-	1	0.8
Euphorbia	4	8	1	-	5	5	4	5	5	-	-	2	1	2	1	2.9
Helianthus	-	-	-	-	-	-	-	-	-	-	2	-	-	-	5	0.5
Ipomoea	17	25	15	19	10	18	10	22	27	30	25	14	12	10	12	17.7
Melochia	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	0.3
Physalis	-	-	3	2	-	-	1	-	-	-	1	2	-	-	1	0.7
Polygonum	-	-	-	-	3	-	-	3	6	4	-	-	1	1	-	1.2
Portulaca	-	-	-	-	-	-	-	1	-	-	-	5	-	-	-	0.4
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	0.5
Salsola	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.1
Senna	11	-	-	-	10	6	-	1	2	10	-	-	15	8	-	4.2
Sesbania	-	1	1	-	-	1	5	-	8	-	-	-	-	-	-	1.1
Sida	13	12	-	-	5	2	7	8	6	1	-	-	1	5	-	4.0
Solanum	1	-	3	20	-	1	5	-	1	-	9	14	-	-	4	3.9
Xanthium	1	5	1	1	15	5	7	20	10	5	6	-	5	15	1	6.3
other	5	4	5	-	10 ^c	14 ^c	15 ^d	2 ^d	5 ^d	-	3 ^e	3	3 ^f	1	7	5.1
Total % Crop Lost	8	10	7	3	10	7	7	10	9	5	7	7	10	8	7	
Total Bales (x 1000)	900	1788	656	2328	147	2149	1639	673	2338	1639	70	193	404	950	4186	20060.0
Bales Lost (x 1000)	72	179	46	70	15	150	115	67	210	82	5	14	40	76	293	1434.0

^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, 2001.

	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	Total
Total cotton acres	600	950	278	860	80	1480	689	340	1630	1060	84	170	320	565	5300	14127.0
GRASS WEEDS																
Brachiaria	50	40	-	-	-	20	250	10	76	375	-	-	10	40	-	871.0
Cynodon	25	20	96	50	8	100	10	2	325	30	4	5	2	60	5	742.0
Cyperus	150	50	84	150	25	1000	250	10	295	200	25	12	45	50	100	2446.0
Digitaria	200	350	-	-	25	800	250	300	600	750	-	6	275	100	400	4056.0
Echinochloa	18	20	47	150	-	2	300	10	118	-	11	6	-	10	400	1092.0
Eleusine	100	300	-	-	12	400	270	100	280	250	-	-	120	50	-	1882.0
Panicum	70	10	-	-	20	1200	20	8	9	100	-	15	18	40	850	2360.0
Sorghum	10	200	64	60	-	50	250	50	560	50	21	50	9	250	1000	2624.0
other	-	10 ^a	46 ^a	-	10 ^b	-	-	2 ^c	20	-	4 ^a	-	-	-	-	92.0
BROADLEAF WEEDS																
Abutilon	30	10	-	-	-	3	-	150	12	5	-	-	2	50	2	264.0
Acanthospermum	60	-	-	-	12	450	-	-	-	-	-	-	-	-	-	522.0
Amaranthus	250	400	120	100	65	1400	50	300	410	950	25	80	300	300	5000	9750.0
Ambrosia	4	-	-	-	1	35	-	1	10	120	-	4	-	25	300	500.0
Anoda	10	10	-	-	-	2	5	50	45	4	17	-	1	50	100	294.0
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
Croton	60	-	-	-	4	300	10	-	35	145	-	-	28	45	50	677.0
Eclipta	-	-	-	-	4	40	-	5	1	200	5	-	-	10	5	270.0
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	1100	350	300	910	950	20	10	75	225	700	6138.0
Melochia	3	-	-	-	20	150	-	-	-	-	-	-	-	-	5	178.0
Physalis	-	-	66	40	-	50	20	-	8	-	8	10	-	10	100	312.0
Polygonum	15	25	-	-	4	65	-	5	120	200	-	-	7	100	5	546.0
Portulaca	-	-	54	-	-	8	-	3	160	-	-	12	-	-	5	242.0
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1500	1506.0
Salsola	-	-	3	-	-	-	-	-	-	-	2	6	-	-	2000	2011.0
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	700.0
Senna	300	25	-	-	60	1300	10	-	85	635	-	-	190	110	-	2715.0
Sesbania	5	10	10	-	-	20	90	5	225	-	-	-	-	1	-	366.0
Sida	230	600	-	-	30	450	300	200	650	400	-	-	40	200	10	3110.0
Solanum	20	-	31	500	-	40	5	1	100	-	16	60	-	45	2000	2818.0
Xanthium	50	250	5	20	35	1000	150	250	730	200	1	7	140	400	1000	4238.0
other	5 ^d	-	45 ^e	5	12 ^c	1400 ^e	150 ^f	100 ^d	300 ^d	-	1	60	10 ^g	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, 2001.

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	-	-	-	-	6	-	-	-	-	10	1	5
Goal	-	0.5	-	6	-	-	10	-	2	-	-	-	-	-	-	-
Gramoxone Max glyphosate	15	15	-	3	2	8	15	5	12	10	-	-	15	25	10	-
Harmony Extra	-	0.5	-	-	-	-	5	-	6	-	-	-	-	-	-	-
MSMA	-	-	-	-	-	-	6	1	-	-	-	-	-	-	15	-
Prometryn	5	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
Prowl	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trifluralin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
other	15	-	-	-	-	10 ^k	-	-	4	-	-	-	-	-	-	-
PREPLANT INCORPORATED																
Prowl	5	45	30	45	25	10	30	26	30	10	20	30	38	20	20	20
Trifluralin	15	30	30	45	20	20	40	57	35	5	57	65	35	25	70	70
Trifluralin + fluometuron	-	1	-	-	-	-	3	3	-	-	-	-	-	-	-	-
Zorial	1	5	1	-	-	5	10	20	-	-	-	-	-	-	-	5
other	1	-	35 ^b	10 ^b	-	-	-	-	-	-	23 ^b	-	5 ^c	-	-	-
PREEMERGENCE																
Cyanazine	3	2	-	-	-	-	6	3	1	-	-	-	-	-	-	-
Command	1	2	-	-	-	-	20	50	2	-	-	1	6	1	-	-
Diuron	7	1	-	-	-	3	15	-	5	-	-	-	-	1	10	15
Dual	-	4	-	-	-	-	-	4	13	-	4	-	-	8	4	<1
Fluometuron	10	70	-	-	30	15	66	90	40	35	-	1	30	75	-	-
Prometryn	5	5	-	-	-	-	-	-	-	-	-	8	-	2	10	40
Prowl	25	10	3	-	-	40	-	8	1	30	-	5	20	25	5	<1 ^g
Staple	10	-	-	-	5	15	5	20	33	3	-	-	-	-	2	-
Zorial	1	10	-	-	5	5	10	20	1	-	-	-	<1	1	2	4
other	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
POSTEMERGENCE OVERTOP																
Assure II/Bugle/Fusilade/ PoastPlus/Select	2	10	2	20	15	10	35	20	8	10	5	5	5	20	10	20
Buctril	1	25	2	1	-	1	10	30	8	2	-	2	<1	10	12	-
Roundup	85	5	65	35	85	80	40	30	34	75	-	15	42	60	50	-
Staple	35	40	20	35	25	30	10	50	55	20	-	-	15	10	5	-
POSTEMERGENCE DIRECTED																
Cyanazine	5	25	2	5	-	-	5	2	3	-	-	-	7	-	1	20
+MSMA	5	33	1	3	-	-	10	30	30	4	-	-	20	15	-	-
Cobra	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
+MSMA	4	10	-	-	2	3	10	15	4	1	-	-	-	3	-	-
Diuron	10	1	5	-	-	-	5	-	3	-	5	-	-	-	1	-
+MSMA	5	10	1	-	5	25	10	1	8	-	-	-	-	1	-	-
Fluometuron	20	25	-	-	-	1	20	15	10	-	-	-	-	-	-	10
+MSMA	40	40	-	-	5	8	35	20	10	1	-	-	2	1	-	-
Goal	<1	3	-	3	5	1	20	10	1	-	-	-	-	-	-	-
Gramoxone Extra	-	-	-	-	-	1	-	-	-	10	-	-	-	1	-	-
MSMA or DSMA	64	85	-	15	30	5	40	20	30	10	1	10	30	5	2	5
Prometryn	10	15	10	-	-	-	4	2	3	-	5	-	10	-	<1	<1
+MSMA	15	20	1	3	10	10	10	8	14	45	1	0	20	10	-	<1
Roundup	45	5	55	15	50	50	20	25	25	45	-	-	-	30	3	-
SPOT TREATMENT																
MSMA	12	12	-	-	-	10	2	10	3	-	3	-	<1	1	1	-
Assure II/Bugle/Fusilade/PoastPlus/ Select	5	20	3	5	-	5	50	20	18	5	30	2	2	2	15	15
Roundup ⁱ	4	4	1	5	-	5	6	10	2	-	2	10	1	1	30	30
LAYBY																
Bladex	5	30	1	35	-	-	10	20	40	-	-	-	15	1	2	10
Command	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diuron	20	10	2	-	5	25	40	10	20	-	-	5	-	2	5	-
linuron	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
other	20	-	50 ^f	10 ^f	-	-	20	-	1 ^j	10	17 ^f	-	40	-	<1 ^f	5 ^f

^aGoal, Bladex or Prometryn ^bTrifluralin or Prowl + Prometryn ^cTrifluralin plus norflurazon ^dGoal ^ePrometryn ^fSurflan ^gfluometuron + norflurazon ⁱincludes wick application ^jFluometuron ^kDiuron

State	2000			2001		
	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)
Alabama	521,562	0.7	53	906,867	0.9	117
Arizona	571,167	0.6	49	656,778	0.2	19
Arkansas	1,405,081	0.5	101	1,788,118	0.6	154
California	2,026,142	0.9	263	2,328,985	0.6	201
Florida	91,672	1.0	13	147,443	0.5	11
Georgia	1,541,811	1.9	422	2,149,726	0.6	186
Kansas	-	-	-	25,076	0.2	72
Louisiana	922,961	0.3	40	1,044,667	0.9	135
Mississippi	1,675,294	0.2	48	2,338,481	0.4	135
Missouri	501,878	0.8	58	673,788	0.2	19
New Mexico	55,609	0.3	2	70,780	0.2	2
North Carolina	1,304,882	3.5	658	1,639,594	2.0	472
Oklahoma	141,209	0.1	2	193,105	0.05	1
South Carolina	351,660	2.1	106	404,229	0.8	47
Tennessee	691,257	0.3	30	950,194	0.2	27
Texas	3,761,253	0.4	217	4,186,672	0.8	482
Virginia	144,705	4.1	85	177,971	2.7	69
Total	15,733,025	1.0	2266	19,030,226	0.7	1918
		(adjusted)			(adjusted)	

^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 Vol. 73, No. 5, and <http://www.ams.usda.gov/cotton/mncs/index.htm>