

**REPORT OF THE 1996 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 - Eric Webster
California - Ron Vargas
Florida - Barry Brecke
Georgia - Steve Brown
Louisiana - Dearl Sanders
Mississippi - John Byrd

Missouri - Andy Kendig
North Carolina - Alan York
New Mexico -Richard Lee
Oklahoma -Jim Stritzke
South Carolina - Ed Murdock
Tennessee - Bob Hayes
Texas - Paul Baumann

Table 1. Estimated percent reduction in cotton yields by weed genera by state, 1996. (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	-	-	-	-	2	1	1	1	-	-	-	2	-	0.6
Cynodon	8	5	11	5	1	4	-	1	8	2	6	-	3	5	4	4.2
Cyperus	8	5	15	19	18	10	5	2	3	8	12	9	15	4	6	8.6
Digitaria	5	6	-	-	3	2	3	5	2	2	-	3	-	3	-	2.3
Echinochloa	1	1	4	15	-	-	1	1	1	-	2	3	-	1	4	2.3
Eleusine	3	1	-	-	3	-	3	4	1	1	-	-	4	5	-	1.7
Panicum	5	1	1	-	1	8	4	1	-	1	-	8	2	1	5	2.5
Sorghum	3	10	5	5	-	1	6	6	9	1	10	11	2	10	5	5.6
other	-	4 ^a	5 ^a	1 ^e	-	-	-	1 ^b	-	-	-	-	-	-	-	0.7
BROADLEAF WEEDS																
Abutilon	3	1	-	-	-	-	-	5	-	-	-	-	1	2	-	0.8
Acanthospermum	4	-	-	-	5	5	-	-	-	-	-	-	-	-	-	0.9
Amaranthus	4	10	5	7	5	8	7	6	10	15	2	13	28	15	12	9.8
Ambrosia	1	-	-	-	-	2	-	1	-	-	-	-	-	1	3	0.5
Anoda	1	2	-	-	-	-	2	3	1	-	12	-	-	2	3	1.7
Cassia	11	-	-	-	15	14	-	1	1	15	-	-	8	7	-	4.8
Chenopodium	-	-	-	-	-	-	-	1	-	2	-	-	-	1	-	0.3
Convolvulus	-	-	3	5	-	-	-	-	-	-	2	5	-	-	2	1.1
Croton	1	-	-	-	3	5	-	1	-	1	-	-	2	-	-	0.9
Euphorbia	4	14	1	-	5	3	4	5	4	-	-	2	1	2	3	3.2
Helianthus	-	-	-	-	-	-	-	-	-	-	2	-	-	-	7	0.6
Ipomoea	17	25	30	18	15	10	18	22	27	25	25	14	17	9	10	17.5
Melochia	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	0.3
Physalis	-	-	2	4	-	-	1	-	-	-	1	2	-	-	4	0.9
Polygonum	-	-	-	-	1	-	-	3	3	20	-	-	-	1	-	1.9
Portulaca	-	-	-	-	-	-	-	1	-	-	-	10	-	-	-	0.7
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	3	-	-	3	0.4
Salsola	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	0.3
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	0.3
Sesbania	-	-	1	-	-	-	5	-	2	-	-	-	-	-	-	0.5
Sida	13	10	-	-	5	2	7	8	3	4	-	-	1	4	-	3.8
Solanum	1	-	5	20	-	1	5	-	1	-	9	14	-	-	6	4.1
Xanthium	6	10	1	1	15	10	12	20	18	2	6	-	13	30	2	9.7
other	-	4	11	-	10 ^c	15 ^c	15 ^d	2 ^d	5 ^d	-	3 ^e	3	3 ^f	1	7	5.3
Total % Crop Lost	8	10	8	3	10	10	9	10	12	8	7	7	10	11	7	
Total Bales (x 1000)	705	1343	750	2600	81	1300	1500	571	1850	917	82	380	365	790	5300	18534.0
Bales Lost (x 1000)	56	134	60	78	8	130	135	57	222	73	6	27	37	87	371	1481.0

^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, 1996.

	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	Total
Total cotton acres	470	950	427	1095	68	895	810	340	1460	482	84	385	220	585	3550	11821.0
GRASS WEEDS																
Brachiaria	-	40	-	-	-	15	250	10	76	100	-	-	8	40	-	539.0
Cynodon	50	75	50	50	5	25	-	2	325	24	4	6	1	50	5	672.0
Cyperus	75	40	140	150	20	520	250	10	295	169	25	29	36	50	100	1909.0
Digitaria	200	350	-	-	20	600	250	300	600	386	-	6	198	100	400	3410.0
Echinochloa	18	20	30	50	-	1	300	10	118	-	11	6	-	10	600	1174.0
Eleusine	35	300	-	-	12	120	270	100	280	193	-	-	108	60	-	1478.0
Panicum	30	10	19	-	5	800	20	8	9	72	-	15	18	50	850	1906.0
Sorghum	60	350	40	60	-	50	250	50	560	242	21	80	9	300	750	2822.0
other	-	10 ^a	10	10 ^e	12 ^b	-	-	2 ^c	20	-	4 ^a	-	-	-	-	68.0
BROADLEAF WEEDS																
Abutilon	30	10	-	-	-	3	-	150	12	5	-	-	2	90	2	304.0
Acanthospermum	25	-	-	-	12	250	-	-	-	-	-	-	-	-	-	287.0
Amaranthus	160	300	150	100	15	825	50	300	410	350	25	84	190	300	4000	7259.0
Ambrosia	4	-	-	-	-	20	-	1	10	120	-	4	-	30	100	289.0
Anoda	10	10	-	-	-	2	5	50	45	4	17	-	1	95	30	269.0
Campsis	-	-	-	-	-	1	-	-	28	48	-	-	-	190	-	267.0
Cassia	100	25	-	-	30	800	-	-	85	200	-	-	40	100	-	1380.0
Chenopodium	4	-	7	-	-	100	-	1	2	335	-	-	7	15	2	473.0
Convolvulus	-	-	25	30	-	-	-	-	-	-	1	11	-	-	25	92.0
Croton	8	-	-	-	5	120	-	-	35	145	-	-	26	45	9	369.0
Eclipta	-	-	-	-	2	10	-	5	1	240	5	-	-	10	5	278.0
Euphorbia	100	400	50	-	10	60	90	75	675	24	4	9	9	100	10	1616.0
Helianthus	-	-	-	-	-	-	-	-	3	-	2	-	-	-	80	85.0
Ipomoea	250	750	100	250	25	525	400	300	910	410	20	12	45	225	500	4722.0
Melochia	3	-	-	-	6	70	-	-	-	-	-	-	-	-	5	84.0
Physalis	-	-	80	40	-	10	20	-	8	-	8	10	-	10	100	286.0
Polygonum	6	25	-	-	2	40	-	5	120	100	-	-	-	100	5	403.0
Portulaca	-	-	150	-	-	-	-	3	160	-	-	12	-	-	5	330.0
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1500	1506.0
Salsola	-	-	14	-	-	-	-	-	-	-	2	6	-	-	1000	1022.0
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	700.0
Sesbania	12	10	30	-	-	5	80	5	225	-	-	-	-	5	-	372.0
Sida	150	500	-	-	20	300	300	200	650	335	-	-	40	200	5	2700.0
Solanum	10	-	70	500	-	20	5	1	100	-	16	108	-	45	1300	2175.0
Xanthium	225	300	10	20	25	750	200	250	730	170	1	10	140	400	400	3631.0
other	5 ^d	-	5	-	15 ^e	750 ^e	150 ^f	100 ^d	300 ^d	-	1	60	9 ^g	135	50	1580.0

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

Table 3. Estimated herbicide usage (% acres treated) in cotton by states, 1996.

HERBICIDE	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX-I	TX-II
FALLOW/STALE SEEDBED																
2,4-D																
Cyanazine	-	2	-	2	-	-	-	-	8	-	-	-	-	10	-	5
Goal	-	0.5	-	4	-	-	-	-	2	-	-	-	-	-	-	-
Gramoxone Extra	1	15	-	2	2	5	15	5	18	1	-	-	1	20	1	-
Harmony Extra	-	0.5	-	-	-	-	5	-	2	-	-	-	-	-	-	-
MSMA	-	-	-	-	-	1	6	1	-	-	-	-	-	-	1	-
Prometryn	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
Prowl	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roundup	6	5	-	3	2	8	25	15	22	1	-	<1	1	20	8	2
Trifluralin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
Zorial	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
other	-	-	-	4 ^a	-	-2 ^k	-	-	-	-	-	-	-	-	-	-
PREPLANT INCORPORATED																
Prowl	38	35	30	45	50	40	30	26	30	53	20	40	36	20	20	20
Trifluralin	71	44	30	45	40	60	40	57	50	44	57	55	47	30	70	70
Trifluralin + fluometuron	-	1	-	-	-	-	3	3	-	-	-	-	-	-	-	-
Zorial	30	30	-	-	5	15	20	20	18	30	-	-	-	5	-	5
other	-	-	20 ^b	5 ^b	-	-	-	-	-	-	3 ^b	-	17 ^c	-	-	-
	-	-	15 ^d	5 ^{d,e}	-	-	-	-	-	-	20 ^f	-	-	-	-	-
PREEMERGENCE																
Cyanazine	3	2	-	-	3	-	6	3	1	-	-	-	-	1	-	-
Command	30	10	-	25	3	-	85	50	28	10	-	8	30	-	-	-
Diuron	7	1	-	-	-	10	15	-	1	-	-	-	-	1	5	15
Dual	-	4	-	-	-	-	-	4	10	1	4	-	-	7	4	<1
Fluometuron	84	75	-	-	50	75	66	90	96	100	-	1	80	95	-	-
Prometryn	5	-	-	-	-	-	-	-	-	-	-	8	-	-	10	40
Prowl	-	10	-	-	-	30	-	8	1	2	-	5	10	35	5	<1 ^g
Zorial	40	40	-	-	15	30	30	20	12	30	-	-	10	5	-	4
other	-	-	-	-	-	-	2	-	-	-	-	-	10 ^h	20	-	-
POSTEMERGENCE																
Buctril																
Cyanazine	10	25	10	-	-	3	5	2	3	-	-	-	25	1	-	20
+MSMA	30	33	2	3	25	50	10	30	68	40	-	-	30	30	-	-
Cobra	1	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1
+MSMA	2	10	-	-	2	7	10	15	25	1	-	-	-	5	-	-
Diuron	10	1	2	-	-	-	5	-	3	-	5	-	-	-	-	-
+MSMA	5	10	2	-	-	35	10	1	8	-	-	-	-	1	-	-
Fluometuron	20	25	-	-	-	2	20	15	20	-	-	-	-	2	-	10
+MSMA	40	40	-	-	5	65	35	20	10	35	-	-	70	5	-	-
Goal	<1	3	5	3	5	1	20	10	5	1	-	-	-	1	-	-
Gramoxone Extra MSMA or DSMA	64	85	3	3	65	70	40	20	90	20	1	10	70	70	1	5
Assure II/Bugle/Fusilade/PoastPlus/Select	5	5	1	-	10	20	35	20	18	20	5	5	6	60	10	20
Prometryn	10	15	10	-	-	-	4	2	5	-	5	-	-	-	<1	<1
+MSMA	15	20	10	3	10	1	10	8	14	1	1	5	1	5	-	<1
Roundup (hooded)																
Staple																
SPOT TREATMENT																
MSMA	12	12	2	-	-	5	2	10	3	-	3	-	3	2	-	-
Assure II/Bugle/Fusilade/PoastPlus/																
Select	15	20	15	1	-	5	50	20	35	5	30	2	2	2	25	15
Roundup ⁱ	4	4	15	1	-	2	6	10	2	-	2	10	1	-	30	30
LAYBY																
Bladex	25	30	30	35	25	30	10	20	60	10	-	-	30	1	-	10
Diuron	5	10	-	-	20	20	-	10	10	5	-	5	-	<1	-	2
other	-	-	50 ^f	10 ^f	-	-	-	-	1 ^j	-	17 ^f	-	-	-	<1 ^f	5 ^f

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

Table 4. Number of upland cotton samples classed, % reduced for grass contamination and estimated dollar loss in 1995 and 1996.

State	1995			1996		
	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$ x 1000)	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$ x 1000)
Alabama	455,771	4.6	302	748,344	1.2	129
Arizona	766,804	1.3	144	737,818	0.7	74
Arkansas	1,465,511	1.0	211	1,593,378	0.8	184
California	2,019,407	2.0	582	2,100,294	1.3	393
Florida	107,110	6.9	106	93,091	1.7	23
Georgia	1,900,539	6.0	1642	2,063,608	2.0	594
Louisiana	1,379,246	2.0	397	1,299,444	2.5	468
Mississippi	1,774,776	1.3	332	1,812,496	1.3	339
Missouri	476,957	0.7	48	556,930	0.9	72
New Mexico	55,681	1.2	10	75,169	0.9	10
North Carolina	786,793	7.7	872	979,629	4.2	593
Oklahoma	117,323	1.0	17	123,918	0.7	13
South Carolina	335,681	6.1	295	429,299	3.1	192
Tennessee	713,985	1.2	123	663,961	0.6	57
Texas	4,267,177	1.6	983	4,238,463	0.9	549
other ^b	127,909	3.5	64	246,478	4.9	174
Total	16,750,670	2.5 (adjusted)	6030	17,669,229	1.5 (adjusted)	3817

^aAssumed price was reduced by \$0.03 per pound of lint cotton. Information summarized from the United States Department of Agricultural Marketing Service, Cotton Division-United States Cotton Quality Report, Volumes 68, No. 5 and 69, No. 6.

^bIncludes Virginia and Kansas.