

REPORT OF THE 2000 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, 2000.

	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	1	-	-	-	1	1	0.7
Cynodon	8	2	11	5	3	8	-	1	8	2	6	-	3	3	4	4.3
Cyperus	8	6	15	20	8	10	5	2	3	8	12	9	10	3	6	8.3
Digitaria	5	6	-	-	3	2	3	5	2	2	-	3	-	1	1	2.2
Echinochloa	1	2	4	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	-	0.8
Acanthospermum	4	-	-	-	5	5	-	-	-	-	-	-	-	-	-	0.9
Amaranthus	4	15	5	7	5	8	7	6	15	15	2	13	38	10	12	10.8
Ambrosia	1	-	-	-	-	-	-	1	-	-	-	-	-	-	3	0.3
Anoda	1	2	-	-	-	-	2	3	1	-	12	-	-	2	1	1.6
Chenopodium	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	0.2
Convolvulus	-	-	3	5	-	-	-	-	1	-	2	5	-	-	1	1.1
Croton	1	-	-	-	4	5	-	1	-	1	-	-	2	-	1	1.0
Euphorbia	4	8	1	-	5	5	4	5	5	-	2	1	2	1	2.9	
Helianthus	-	-	-	-	-	-	-	-	-	-	2	-	-	-	5	0.5
Ipomoea	17	25	30	19	10	14	10	22	27	25	25	14	12	10	12	18.1
Melochia	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	0.3
Physalis	-	-	2	2	-	-	1	-	-	-	1	2	-	-	1	0.6
Polygonum	-	-	-	-	3	-	-	3	6	20	-	-	1	1	-	2.3
Portulaca	-	-	-	-	-	-	-	1	-	-	-	5	-	-	-	0.3
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	3	-	-	4	0.5
Salsola	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.1
Senna	11	-	-	-	10	14	-	1	2	15	-	-	15	8	-	5.1
Sesbania	-	1	1	-	-	-	5	-	8	-	-	-	-	-	-	1.0
Sida	13	12	-	-	5	2	7	8	6	4	-	-	1	5	-	4.2
Solanum	1	-	5	20	-	1	5	-	1	-	9	14	-	-	4	4.0
Xanthium	1	5	1	1	15	5	7	20	10	2	6	-	5	15	1	6.3
other	5	4	11	-	10 ^c	12 ^c	15 ^d	2 ^d	5 ^d	-	3 ^e	3	3 ^f	1	7	5.4
Total % Crop Lost	8	10	8	3	10	7	7	10	9	8	7	7	10	8	7	
Total Bales (x 1000)	705	1300	750	2600	80	1550	1500	571	1700	1000	82	380	245	590	5300	18353.0
Bales Lost (x 1000)	56	130	60	78	8	109	105	57	153	80	6	27	25	47	371	1312.0

^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, 2000.

	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	Total
Total cotton acres	560	950	427	860	80	1480	689	340	1280	850	84	170	320	565	5300	12655.0
GRASS WEEDS																
Brachiaria	50	40	-	-	-	20	250	10	76	300	-	-	10	40	-	796.0
Cynodon	65	20	50	50	8	100	10	2	325	24	4	5	2	60	5	730.0
Cyperus	150	50	140	150	25	800	250	10	295	180	25	12	45	50	100	2282.0
Digitaria	200	350	-	-	25	1000	250	300	600	600	-	6	275	100	400	6388.0
Echinochloa	18	20	30	150	-	2	300	10	118	-	11	6	-	10	400	1075.0
Eleusine	100	300	-	-	12	400	270	100	280	200	-	-	120	50	-	1832.0
Panicum	70	10	19	-	20	1200	20	8	9	75	-	15	18	40	850	2354.0
Sorghum	10	200	40	60	-	50	250	50	560	50	21	50	9	250	1000	2600.0
other	-	10 ^a	10	-	10 ^b	-	-	2 ^c	20	-	4 ^a	-	-	-	-	56.0
BROADLEAF WEEDS																
Abutilon	30	10	-	-	-	3	-	150	12	5	-	-	2	50	2	264.0
Acanthospermum	60	-	-	-	12	450	-	-	-	-	-	-	-	-	-	522.0
Amaranthus	250	400	150	100	65	1400	50	300	410	650	25	80	300	300	5000	9480.0
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	-	7	-	-	130	-	1	2	335	-	-	7	15	2	503.0
Convolvulus	-	-	25	30	-	1	-	-	-	-	1	8	-	-	25	90.0
Croton	25	-	-	-	4	400	10	-	35	145	-	-	28	45	50	742.0
Eclipta	-	-	-	-	4	40	-	5	1	180	5	-	-	10	5	250.0
Euphorbia	150	300	50	-	15	100	90	75	675	24	4	7	10	100	40	1640.0
Helianthus	-	-	-	-	-	-	-	-	3	-	2	-	-	-	800	805.0
Ipomoea	350	750	100	250	45	1000	350	300	910	750	20	10	75	225	700	5835.0
Melochia	3	-	-	-	20	150	-	-	-	-	-	-	-	-	5	178.0
Physalis	-	-	80	40	-	50	20	-	8	-	8	10	-	10	100	326.0
Polygonum	15	25	-	-	4	65	-	5	120	200	-	-	7	100	5	546.0
Portulaca	-	-	150	-	-	10	-	3	160	-	-	12	-	-	5	340.0
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1500	1506.0
Salsola	-	-	14	-	-	-	-	-	-	-	2	6	-	-	2000	2022.0
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	700.0
Senna	300	25	-	-	60	1300	10	-	85	500	-	-	190	110	-	2580.0
Sesbania	8	10	30	-	-	20	90	5	225	-	-	-	-	1	-	389.0
Sida	230	600	-	-	30	450	300	200	650	400	-	-	40	200	10	3101.0
Solanum	20	-	70	500	-	40	5	1	100	-	16	60	-	45	2000	2817.0
Xanthium	50	250	10	20	35	1000	150	250	730	200	1	7	140	400	1000	4243.0
other	5 ^d	-	5	5	12 ^e	1400 ^e	150 ^f	100 ^d	300 ^d	-	1	60	10 ^g	135	1000	3183.0

^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, 2000.

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 Extra	15	15	-	3	2	8	15	5	12	10	-	-	15	25	10	-
Harmony Extra	-	0.5	-	-	-	-	5	-	6	-	-	-	-	-	-	-
MSMA	-	-	-	-	-	0	6	1	-	-	-	-	-	-	15	-
Prometryn	5	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
Prowl	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roundup	30	5	-	4	2	10	25	15	43	25	-	<1	20	30	10	2
Trifluralin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
other	5	-	-	-	-	3 ^k	-	-	4	-	-	-	-	-	-	-
PREPLANT INCORPORATED																
Prowl	18	45	30	45	50	25	30	26	30	25	20	30	38	20	20	20
Trifluralin	35	30	30	45	40	55	40	57	35	20	57	65	35	25	70	70
Trifluralin + fluometuron	-	1	-	-	-	-	3	3	-	-	-	-	-	-	-	-
Zorial	1	5	-	-	5	5	10	20	-	5	-	-	-	-	-	5
other	1	-	35 ^b	10 ^b	-	-	-	-	-	-	23 ^b	-	5 ^c	-	-	-
PREEMERGENCE																
Cyanazine	3	2	-	-	3	-	6	3	1	-	-	-	-	-	-	-
Command	1	2	-	-	3	-	20	50	2	5	-	1	6	1	-	-
Diuron	7	1	-	-	-	3	15	-	5	-	-	-	-	1	10	15
Dual	-	4	-	-	-	-	-	4	13	1	4	-	-	8	4	<1
Fluometuron	10	70	-	-	60	45	66	90	40	65	-	1	30	75	-	-
Prometryn	5	5	-	-	-	-	-	-	-	-	-	8	-	2	10	40
Prowl	25	10	-	-	-	30	-	8	1	20	-	5	20	25	5	<1 ^e
Staple	-	-	-	-	-	10	5	20	33	3	-	-	-	-	2	-
Zorial	1	10	-	-	20	5	10	20	1	5	-	-	<1	1	2	4
other	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
POSTEMERGENCE OVERTOP																
Assure II/Bugle/Fusilade/ PoastPlus/Select																
PoastPlus/Select	2	10	1	20	15	10	35	20	8	10	5	5	5	20	10	20
Buctril	1	25	-	1	-	3	10	30	8	10	-	2	<1	10	12	-
Roundup	85	5	-	10	25	60	40	30	34	55	-	15	42	60	50	-
Staple	35	40	-	35	30	10	10	50	55	20	-	-	15	10	5	-
POSTEMERGENCE DIRECTED																
Cyanazine	10	25	10	5	-	1	5	2	3	-	-	-	7	0	1	20
+MSMA	30	33	2	3	30	45	10	30	30	20	-	-	20	15	-	-
Cobra	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
+MSMA	2	10	-	-	2	3	10	15	4	1	-	-	-	3	-	-
Diuron	10	1	2	-	-	-	5	-	3	-	5	-	-	-	1	-
+MSMA	5	10	2	-	-	15	10	1	8	-	-	-	-	1	-	-
Fluometuron	20	25	-	-	-	1	20	15	10	-	-	-	-	-	-	10
+MSMA	40	40	-	-	5	20	35	20	10	1	-	-	2	1	-	-
Goal	<1	3	5	3	5	1	20	10	1	1	-	-	-	-	-	-
Gramoxone Extra	-	-	-	-	-	6	-	-	-	10	-	-	-	-	1	-
MSMA or DSMA	64	85	3	15	65	10	40	20	30	10	1	10	30	5	2	5
Prometryn	10	15	10	-	-	-	4	2	3	-	5	-	10	-	<1	<1
+MSMA	15	20	10	3	10	10	10	8	14	50	1	0	20	10	-	<1
Roundup	45	5	-	10	25	35	20	25	25	20	-	-	-	30	3	-
SPOT TREATMENT																
MSMA																
Assure II/Bugle/ Fusilade/PoastPlus/ Select																
Select	5	20	15	5	-	5	50	20	18	5	30	2	2	2	15	15
Roundup ⁱ	4	4	15	5	-	2	6	10	2	-	2	10	1	1	30	30
LAYBY																
Bladex	25	30	30	35	25	30	10	20	40	5	-	-	15	1	2	10
Diuron	20	10	-	-	20	20	40	10	20	0	-	5	-	2	5	-
other	5	-	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 ^eGoal ^fPrometryn

^gSurflan ^hfluometuron + norflurazon ⁱincludes wick application ^jFluometuron ^kDiuron

State	1999			2000		
	Bales classified (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)	Bales classified (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)
Alabama	620,444	0.5	45	521,562	0.7	53
Arizona	669,507	0.4	39	571,167	0.6	49
Arkansas	1,383,130	0.5	100	1,405,081	0.5	101
California	1,546,385	0.6	134	2,026,142	0.9	263
Florida	104,980	0.4	6	91,672	1.0	13
Georgia	1,516,216	0.7	153	1,541,811	1.9	422
Louisiana	918,891	1.1	146	922,961	0.3	40
Mississippi	1,679,814	0.4	97	1,675,294	0.2	48
Missouri	450,122	0.5	32	501,878	0.8	58
New Mexico	52,736	0.4	3	55,609	0.3	2
North Carolina	801,298	2.1	242	1,304,882	3.5	658
Oklahoma	136,630	0.1	2	141,209	0.1	2
South Carolina	264,602	0.7	27	351,660	2.1	106
Tennessee	574,034	0.2	17	691,257	0.3	30
Texas	4,880,281	1.0	703	3,761,253	0.4	217
Virginia	133,823	1.7	33	144,705	4.1	85
Total	18,405,965	0.7	1855	15,733,025	1.0	2266
		(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. 4 and Vol. 74, No. 4.