

REPORT OF THE 1998 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 - Richard Lee
California - Ron Vargas	Oklahoma - Don Murray
Florida - Barry Brecke	South Carolina - Ed Murdock
Georgia - Steve Brown	Tennessee - Bob Hayes
Louisiana - Dearl Sanders	Texas - Paul Baumann
Mississippi - John Byrd	

Table 1. Estimated percent reduction in cotton yields by weed genera by state, 1998.

	(Values based on individual states) Total % crop lost = 100%															% LOST AVG
	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	
GRASS WEEDS																
Brachiaria	1	1	-	-	1	-	2	1	1	1	-	-	-	2	-	0.7
Cynodon	8	5	11	5	3	4	-	1	8	2	6	-	3	6	4	4.4
Cyperus	8	5	15	19	8	10	5	2	3	8	12	9	10	5	6	8.3
Digitaria	5	6	-	-	3	2	3	5	2	2	-	3	-	3	-	2.3
Echinochloa	1	1	4	15	2	-	1	1	1	-	2	3	-	1	4	2.4
Eleusine	3	1	-	-	3	-	3	4	1	1	-	-	4	5	-	1.7
Panicum	5	1	1	-	3	8	4	1	-	1	-	8	2	1	5	2.7
Sorghum	3	10	5	5	2	1	6	6	9	1	10	11	2	8	5	5.5
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	30	20	12	10.3
Ambrosia	1	-	-	-	-	2	-	1	-	-	-	-	-	1	3	0.5
Anoda	1	2	-	-	-	-	2	3	1	-	12	-	-	2	3	1.7
Chenopodium	-	-	-	-	-	-	-	1	-	2	-	-	-	1	-	0.3
Convolvulus	-	-	3	5	-	-	-	-	-	-	2	5	-	-	2	1.1
Croton	1	-	-	-	4	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	10	10	18	22	27	25	25	14	12	10	10	18.2
Melochia	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	0.3
Physalis	-	-	2	4	-	-	1	-	-	-	1	2	-	-	4	0.9
Polygonum	-	-	-	-	3	-	-	3	3	20	-	-	1	1	-	2.1
Portulaca	-	-	-	-	-	-	-	1	-	-	-	10	-	-	-	0.7
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	3	-	-	3	0.4
Salsola	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	0.3
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	0.3
Senna	11	-	-	-	10	14	-	1	1	15	-	-	15	7	-	4.9
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	20	2	9.1
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	7	9	10	9	8	7	7	10	9	7	
Total Bales (x 1000)	705	1343	750	2600	80	2000	1500	571	1450	1000	82	380	365	545	5300	18671.0
Bales Lost (x 1000)	56	134	60	78	8	140	135	57	131	80	6	27	37	49	371	1369.0

^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, 1998.

	AL	AR	AZ	CA	FL	GA	LA	MO	MS	NC	NM	OK	SC	TN	TX	Total
Total cotton acres	470	950	427	1160	80	1375	810	340	960	705	84	385	290	680	3550	12266.0
GRASS WEEDS																
Brachiaria	-	40	-	-	-	20	250	10	76	200	-	-	9	40	-	645.0
Cynodon	65	75	50	50	8	100	-	2	325	24	4	6	2	60	5	776.0
Cyperus	150	40	140	150	25	700	250	10	295	169	25	29	43	50	100	2176.0
Digitaria	200	350	-	-	25	1000	250	300	600	500	-	6	255	100	400	3986.0
Echinochloa	18	20	30	50	-	2	300	10	118	-	11	6	-	10	600	1175.0
Eleusine	60	300	-	-	12	200	270	100	280	200	-	-	115	50	-	1578.0
Panicum	70	10	19	-	20	1000	20	8	9	75	-	15	18	40	850	2154.0
Sorghum	60	350	40	60	-	90	250	50	560	50	21	80	9	250	750	2620.0
other	-	10 ^a	10	10 ^c	10 ^b	-	-	2 ^c	20	-	4 ^a	-	-	-	-	66.0
BROADLEAF WEEDS																
Abutilon	30	10	-	-	-	3	-	150	12	5	-	-	2	50	2	264.0
Acanthospermum	60	-	-	-	12	450	-	-	-	-	-	-	-	-	-	522.0
Amaranthus	250	300	150	100	65	1300	50	300	410	550	25	84	270	300	4000	8154.0
Ambrosia	4	-	-	-	1	35	-	1	10	120	-	4	-	25	100	300.0
Anoda	10	10	-	-	-	2	5	50	45	4	17	-	1	100	30	270.0
Campsis	-	-	-	-	-	1	-	-	28	5	-	-	-	200	-	234.0
Chenopodium	4	-	7	-	-	130	-	1	2	335	-	-	7	15	2	503.0
Convolvulus	-	-	25	30	-	-	-	-	-	-	1	11	-	-	25	92.0
Croton	15	-	-	-	4	200	-	-	35	145	-	-	26	45	9	479.0
Eclipta	-	-	-	-	4	20	-	5	1	240	5	-	-	10	5	290.0
Euphorbia	150	400	50	-	15	85	90	75	675	24	4	9	9	100	10	1696.0
Helianthus	-	-	-	-	-	-	-	-	3	-	2	-	-	-	80	85.0
Ipomoea	350	750	100	250	45	800	400	300	910	680	20	12	65	225	500	5407.0
Melochia	3	-	-	-	20	80	-	-	-	-	-	-	-	-	5	108.0
Physalis	-	-	80	40	-	15	20	-	8	-	8	10	-	10	100	291.0
Polygonum	6	25	-	-	4	65	-	5	120	200	-	-	5	100	5	535.0
Portulaca	-	-	150	-	-	-	-	3	160	-	-	12	-	-	5	330.0
Proboscidea	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1500	1506.0
Salsola	-	-	14	-	-	-	-	-	-	-	2	6	-	-	1000	1022.0
Salvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	700.0
Senna	300	25	-	-	60	1200	-	-	85	400	-	-	170	110	-	2350.0
Sesbania	12	10	30	-	-	8	80	5	225	-	-	-	-	1	-	371.0
Sida	230	500	-	-	30	450	300	200	650	335	-	-	40	200	5	2940.0
Solanum	10	-	70	500	-	30	5	1	100	-	16	108	-	45	1300	2185.0
Xanthium	225	300	10	20	35	1000	200	250	730	170	1	10	140	400	400	3891.0
other	5 ^d	-	5	-	12 ^e	1200 ^e	150 ^f	100 ^d	300 ^d	-	1	60	9 ^e	135	50	2027.0

^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, 1998.

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	-	-	-	-	8	-	-	-	-	10	-	5
Goal	-	0.5	-	4	-	-	-	-	2	-	-	-	-	-	-	-
Gramoxone Extra	1	15	-	2	2	8	15	5	18	5	-	-	15	25	1	-
Harmony Extra	-	0.5	-	-	-	-	5	-	2	-	-	-	-	-	-	-
MSMA	-	-	-	-	-	1	6	1	-	-	-	-	-	-	1	-
Prometryn	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
Prowl	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roundup	6	5	-	3	2	10	25	15	22	10	-	<1	20	30	8	2
Trifluralin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
other	-	-	-	4 ^a	-	3 ^k	-	-	-	-	-	-	-	-	-	-
PREPLANT INCORPORATED																
Prowl	38	35	30	45	50	40	30	26	30	30	20	40	36	20	20	20
Trifluralin	71	44	30	45	40	60	40	57	50	25	57	55	47	25	70	70
Trifluralin + fluometuron	-	1	-	-	-	-	3	3	-	-	-	-	-	-	-	-
Zorial	25	30	-	-	5	15	20	20	-	10	-	-	-	-	-	5
other	-	-	35 ^b	10 ^b	-	-	-	-	-	-	23 ^b	-	5 ^c	-	-	-
PREEMERGENCE																
Cyanazine	3	2	-	-	3	-	6	3	1	-	-	-	-	-	-	-
Command	30	10	-	-	3	-	85	50	6	5	-	8	7	1	-	-
Diuron	7	1	-	-	-	10	15	-	2	-	-	-	-	1	5	15
Dual	-	4	-	-	-	-	-	4	10	1	4	-	-	8	4	<1
Fluometuron	84	75	-	-	60	75	66	90	76	75	-	1	60	75	-	-
Prometryn	5	-	-	-	-	-	-	-	-	-	-	8	-	-	10	40
Prowl	2	10	-	-	-	30	-	8	1	20	-	5	18	25	5	<1 ^g
Staple	-	-	-	-	-	-	-	20	13	3	-	-	-	-	-	-
Zorial	40	40	-	-	20	30	30	20	4	10	-	-	4	1	-	4
other	-	-	-	-	-	-	2	-	-	-	-	-	5 ^h	-	-	-
POSTEMERGENCE OVERTOP																
Assure II/Bugle/Fusilade/ PoastPlus/Select	5	5	1	10	15	12	35	20	18	10	5	5	6	20	10	20
Buctril	1	-	-	-	-	-	-	30	22	3	-	-	-	40	-	-
Roundup	-	-	-	-	25	-	-	30	14	45	-	-	70	18	-	-
Staple	50	-	-	35	30	15	-	50	65	10	-	-	25	20	-	-
POSTEMERGENCE DIRECTED																
Cyanazine	10	25	10	-	-	3	5	2	3	1	-	-	7	0	-	20
+MSMA	30	33	2	3	30	60	10	30	68	30	-	-	20	20	-	-
Cobra	1	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1
+MSMA	2	10	-	-	2	7	10	15	20	1	-	-	-	5	-	-
Diuron	10	1	2	-	-	-	5	-	3	-	5	-	-	-	-	-
+MSMA	5	10	2	-	-	35	10	1	8	-	-	-	-	1	-	-
Fluometuron	20	25	-	-	-	2	20	15	14	-	-	-	-	-	-	10
+MSMA	40	40	-	-	5	65	35	20	10	1	-	-	25	1	-	-
Goal	<1	3	5	3	5	1	20	10	1	1	-	-	-	-	-	-
Gramoxone Extra	-	-	-	-	-	8	-	-	3	10	-	-	-	1	-	-
MSMA or DSMA	64	85	3	15	65	70	40	20	60	10	1	10	40	15	1	5
Prometryn	10	15	10	-	-	-	4	2	3	-	5	-	-	-	<1	<1
+MSMA	15	20	10	3	10	1	10	8	14	30	1	5	25	10	-	<1
Roundup	10	-	-	5	25	8	-	25	8	30	-	-	-	15	10	-
SPOT TREATMENT																
MSMA	12	12	2	-	-	5	2	10	3	-	3	-	3	1	-	-
Assure II/Bugle/Fusilade/ PoastPlus/ Select	15	20	15	-	-	5	50	20	28	5	30	2	2	2	25	15
Roundup ⁱ	4	4	15	-	-	2	6	10	2	-	2	10	1	1	30	30
LAYBY																
Bladex	25	30	30	35	25	30	10	20	60	10	-	-	15	1	-	10
Diuron	5	10	-	-	20	20	-	10	10	0	-	5	-	1	-	2
other	-	-	50 ^f	10 ^f	-	-	-	-	1 ^j	-	17 ^f	-	15	-	<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	1997			1998		
	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)	Bales classed (no.)	Grassy bales (%)	Revenue lost ^a (\$x1000)
Alabama	523,106	1.0	75	537,976	1.2	92
Arizona	766,811	1.9	210	556,674	0.7	56
Arkansas	1,627,087	0.5	117	1,164,610	1.0	167
California	1,984,337	1.5	429	1,092,790	1.3	204
Florida	92,214	0.7	9	64,804	0.3	2
Georgia	1,870,374	0.8	215	1,502,123	2.0	432
Louisiana	1,001,998	1.5	216	652,580	2.9	272
Mississippi	1,768,792	0.6	153	1,400,807	1.0	201
Missouri	546,652	0.6	47	337,768	1.1	53
New Mexico	68,105	0.7	7	61,587	0.7	6
North Carolina	910,017	3.3	432	1,005,932	4.1	593
Oklahoma	171,812	0.1	2	136,425	0.1	1
South Carolina	383,541	2.1	116	333,324	3.4	163
Tennessee	646,721	1.0	93	529,671	1.1	83
Texas	4,976,529	0.8	573	3,458,609	0.4	199
Virginia	131,215	3.1	59	133,660	2.7	51
Total	17,469,311	1.1	2767	12,975,449	1.4	2615
		(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. 70, No. 6 and Vol. 72, No. 5.