

COTTON INSECT LOSSES 2000

Key to Tables

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Oklahoma	---	Dr. Miles Karner
South Carolina	---	Dr. Mitchell Roof
Tennessee	---	Dr. Gary Lentz
Texas	---	Dr. James Leser
Virginia	---	Dr. Ames Herbert

Background

This information was provided by state coordinators and was collected from surveys of county agents, extension specialists, private consultants and research entomologists. **All data are averaged over a total reporting unit.** For example, if a unit report represents 100 acres had an 8% loss on 25 of those acres, then in the table summary this shows up as a 2% loss. $(.08 \times 25)/100$. This type of averaging is used for all data reported, including yields and costs of control. Because of averaging and rounding some individual state summary numbers listed as `0' are slightly larger. Costs are averaged to the nearest cent, bales and acres to the nearest whole number, other numbers are rounded to the nearest .001. Bales are calculated at 480 pounds, and a cost of \$0.65 per pound of lint is used in figuring costs.

Highlights

Arthropod pests reduced overall yield by 9.26% in 2000. Acreage was up and yields were down, largely due to weather. As in 1999, Texas losses overshadowed those in the remainder of the cotton belt. Boll weevil, no longer a major factor east of the Mississippi River, was again the number 1 pest of US cotton in 2000. While infesting only about 44% of the acres it reduced yields by 2.86% across the US. Another surprise was the beet armyworm which came in second at 2.11% loss. The bollworm/budworm complex, causing 1.43% loss, was the number three arthropod pest of cotton in 2000. Eighty-one percent (81%) of US cotton acres was infested by heliothines. Of those, 79% were bollworms, *Helioverpa zea*. Thrips at 0.59% loss was 4th and *Lygus* at 0.56% were 5th. Stink bugs (0.52%), aphids (0.44%), spider mites (0.22%), cotton fleahopper (0.15%) and western flower thrips (0.14%) complete the top ten insect pests of 2000. Total cost of management and loss to insects to the 2000 crop was \$1.671 billion or \$117.32 per acre. Of those costs approximately \$62 are direct insect management costs.

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Explanation of Tables

In an attempt to include as many of the costs of insect management as possible, the Cotton Insect Losses estimates have changed in the last few years. They were begun as a simple attempt to arrive at the `average cost of spraying insecticide' for control of cotton arthropod pests. We still attempt to arrive at the most accurate estimate possible for spray activities, but have also added some of the other costs which are incurred in cotton insect pest management. These `additional' costs increase the bottom line of expenditures for arthropod pest management - but also more accurately reflect true expenditures. We include `at planting insecticide costs,' (an estimate of the cost of systemic insecticides applied at planting for control of thrips and other pests of seedling cotton); `Bt cotton costs,' (an estimate of the technology fee); `eradication costs' (which include the maintenance fee in those states which have eradicated the weevil and other eradication projects); and `scouting costs,' in addition to the traditional `foliar insecticide costs.' Bales lost are also given a dollar value using 480 pound bales at \$0.65 per pound. Remember, these are estimates and may not totally reflect an individual farm or area, but they do reflect trends and serve as a general comparison.

Table 1. USDA Cotton Production Estimates.

State	Upland Cotton			Cotton yields in pounds lint per acre		
	Acres Planted	Acres harvested	Est. Yield *	December	January	1999
Alabama	590,000	530,000	520	489	489	601
Arizona	280,000	278,000	1287	1273	1312	1118
Arkansas	960,000	950,000	709	743	733	685
California	775,000	770,000	1275	1380	1371	849
Florida	130,000	106,000	490	420	453	498
Georgia	1,500,000	1,350,000	600	594	583	517
Kansas	40,000	37,000	300	525	298	501
Louisiana	710,000	695,000	639	627	628	573
Mississippi	1,300,000	1,280,000	662	649	649	755
Missouri	400,000	388,000	731	648	668	509
New Mexico	90,000	85,000	625	734	734	781
North Carolina	930,000	925,000	770	748	747	669
Oklahoma	280,000	170,000	440	420	438	540
South Carolina	300,000	290,000	645	629	629	600
Tennessee	570,000	565,000	600	606	607	593
Texas	6,400,000	4,400,000	379	410	431	519
Virginia	110,000	108,000	800	722	707	770
total US	15,365,000	12,927,000	595	612	625	616
	Pima	Pima		Pima	Pima	Pima
Arizona	6,000	6,000		824	824	768
California	145,000	144,000		1200	1167	900
New Mexico	4,500	4,500		680	768	617
Texas	16,000	16,000		930	900	649
total US	171,500	170,500		1144	1119	842
	all cotton	all cotton		all cotton	all cotton	all cotton
TOTAL US	15,536,500	13,097,500		619	631	621

From USDA/NASS Agricultural Statistics Service, January, 2001 *estimates from losses Coordinators

Table 1a. USDA Planting and Harvest Estimates 1997-1999.

State	Area Planted			Area Harvested		
	1997	1998	1999	1997	1998	1999
<u>Upland</u>						
Alabama	535,000	495,000	565,000	442,000	475,000	561,000
Arizona	325,000	250,000	270,000	324,000	248,000	269,000
Arkansas	980,000	920,000	970,000	965,000	900,000	960,000
California	880,000	650,000	610,000	875,000	620,000	605,000
Florida	100,000	89,000	107,000	99,000	80,000	106,000
Georgia	1,440,000	1,400,000	1,470,000	1,425,000	1,320,000	1,300,000
Kansas	12,000	17,000	33,000	10,000	16,000	28,000
Louisiana	655,000	535,000	615,000	650,000	525,000	610,000
Mississippi	985,000	950,000	1,200,000	970,000	940,000	1,180,000
Missouri	395,000	370,000	380,000	390,000	357,000	377,000
New Mexico	70,000	60,000	84,000	66,000	58,000	79,000
North Carolina	690,000	710,000	880,000	685,000	705,000	825,000
Oklahoma	200,000	160,000	240,000	190,000	120,000	150,000
South Carolina	290,000	290,000	330,000	286,000	286,000	315,000
Tennessee	490,000	450,000	570,000	480,000	445,000	565,000
Texas	5,500,000	5,650,000	6,150,000	5,200,000	3,300,000	5,100,000
Virginia	101,000	92,000	110,000	100,000	91,000	108,000
total US	13,648,000	13,088,000	14,584,000	13,157,000	10,486,000	13,138,000
<u>Pima</u>						
Arizona	22,000	15,900	9,000	22,000	15,500	8,900
California	185,000	200,000	240,000	184,000	180,000	239,000
New Mexico	11,000	9,000	7,500	11,000	9,000	7,000
Texas	32,000	105,000	33,000	32,000	32,000	32,000
total US	250,000	329,900	289,500	249,000	236,500	286,900
TOTAL US	13,898,000	13,417,900	14,873,500	13,406,000	10,722,500	13,424,900

*USDA/NASS -January 2001 estimates

Table 2. At Planting Insecticide Applications.

State	Number acres	Weighted Avg Cost	Cost/Treated Acre	Total Cost
Alabama, South	225,000	\$10.80	\$12.00	\$2,700,000
Alabama, Central	85,000	\$11.33	\$12.00	\$1,020,000
Alabama, North	250,000	\$13.50	\$13.50	\$3,375,000
Arizona Bt	35,800	\$1.87	\$9.33	\$334,014
Arizona Conv	10,000	\$0.93	\$9.33	\$93,300
Arkansas, Northeast	500,000	\$12.00	\$12.00	\$6,000,000
Arkansas, Southeast	450,000	\$9.45	\$10.50	\$4,725,000
California, San Joaquin Valley	180,000	\$3.07	\$15.00	\$2,700,000
Florida	66,000	\$6.75	\$9.20	\$607,200
Georgia	1,050,000	\$8.08	\$10.00	\$10,500,000
Kansas	10,000	\$3.00	\$12.00	\$120,000
Louisiana Conv	96,658	\$5.51	\$7.35	\$710,436
Louisiana Bt	431,787	\$5.51	\$7.35	\$3,173,634
Mississippi Delta	740,000	\$9.66	\$10.60	\$7,844,000
Mississippi Hills	390,000	\$8.09	\$9.85	\$3,841,500
Missouri	359,080	\$8.57	\$9.55	\$3,429,214
New Mexico	30,000	\$1.88	\$4.50	\$135,000
North Carolina Bt	471,000	\$11.01	\$11.50	\$5,416,500
North Carolina Conv	385,000	\$10.83	\$11.50	\$4,427,500
Oklahoma	75,000	\$2.33	\$6.75	\$506,250
South Carolina	285,000	\$14.96	\$15.75	\$4,488,750
Tennessee	536,962	\$8.27	\$9.16	\$4,918,572
Texas, Upper Gulf Coast	142,051	\$6.35	\$11.55	\$1,640,689
Texas, Lower Gulf Coast	41,947	\$1.27	\$11.55	\$484,488
Texas, Northern Rolling Plains	18,000	\$0.19	\$4.90	\$88,200
Texas, High Plains	800,000	\$2.64	\$9.95	\$7,960,000
Texas, Far West	31,650	\$0.32	\$7.00	\$221,550
Texas, Lower Rio Grande Valley	0	\$0.00	\$0.00	\$0
Texas, Southern Rolling Plains	0	\$0.00	\$0.00	\$0
Texas, Northern Blacklands	120,000	\$4.80	\$6.00	\$720,000
Texas, Southern Blacklands	25,000	\$1.43	\$7.50	\$187,500
Virginia	105,000	\$11.78	\$12.00	\$1,260,000
Total US	7,945,935	\$5.87	\$10.52	\$83,628,298

Table 3. Cotton Insect Eradication.

State	Number Acres	Cost/Acre	Wt cost/acre	Total Cost
Alabama, South	250,000	\$5.00	\$5.00	\$1,250,000
Alabama, Central	90,000	\$5.00	\$5.00	\$450,000
Alabama, North	250,000	\$5.00	\$5.00	\$1,250,000
Arizona Bt	179,000	\$1.78	\$1.78	\$318,620
Arizona Conv	100,000	\$1.78	\$1.78	\$178,000
Arkansas, Northeast	200,000	\$15.00	\$6.00	\$3,000,000
Arkansas, Southeast	430,000	\$35.00	\$30.10	\$15,050,000
California, San Joaquin Valley	0	\$0.00	\$0.00	\$0
Florida	90,000	\$6.00	\$6.00	\$540,000
Georgia	1,300,000	\$4.00	\$4.00	\$5,200,000
Kansas	0	\$0.00	\$0.00	\$0
Louisiana Conv	128,877	\$14.00	\$14.00	\$1,804,278
Louisiana Bt	575,716	\$14.00	\$14.00	\$8,060,024
Mississippi Delta	812,000	\$22.00	\$22.00	\$17,864,000
Mississippi Hills	475,000	\$23.40	\$23.40	\$11,115,000
Missouri	0	\$0.00	\$0.00	\$0
New Mexico	40,772	\$24.15	\$13.73	\$984,644
North Carolina Bt	492,000	\$1.85	\$1.85	\$910,200
North Carolina Conv	409,000	\$1.85	\$1.85	\$756,650
Oklahoma	216,970	\$12.20	\$12.20	\$2,647,034
South Carolina	300,000	\$5.35	\$5.35	\$1,605,000
Tennessee	594,897	\$13.20	\$13.20	\$7,852,640
Texas, Upper Gulf Coast	0	\$0.00	\$0.00	\$0
Texas, Lower Gulf Coast	381,337	\$23.14	\$23.14	\$8,824,138
Texas, Northern Rolling Plains	460,000	\$10.30	\$10.30	\$4,738,000
Texas, High Plains	1,950,000	\$8.00	\$5.18	\$15,600,000
Texas, Far West	547,000	\$10.10	\$8.04	\$5,524,700
Texas, Lower Rio Grande Valley	0	\$0.00	\$0.00	\$0
Texas, Southern Rolling Plains	680,000	\$11.00	\$45.33	\$7,480,000
Texas, Northern Blacklands	0	\$0.00	\$0.00	\$0
Texas, Southern Blacklands	0	\$0.00	\$0.00	\$0
Virginia	107,000	\$3.25	\$3.25	\$347,750
Total US - BOLL WEEVIL	11,059,569	\$8.66	\$6.72	\$95,743,961
California, San Joaquin Valley Pink Bollworm	879,680	\$5.31	\$0.33	\$4,671,101
Texas, Far West Pink Bollworm	47,000	\$0.00	\$0.00	\$0
Total US - Insect Eradication	11,986,249	\$8.38	\$7.05	\$100,415,062

Table 4. Bt Cotton by State.

State	Number acres	Bt cost/Acre	Average/ all Acres	Total Cost	% population Bollworm	Acres Bt cotton sprayed	Avg. # appli to Bt cotton
Alabama, South	150,000	\$26.00	\$15.60	\$3,900,000	60	5,000	1.00
Alabama, Central	55,800	\$28.00	\$17.36	\$1,562,400	60	1,000	1.00
Alabama, North	205,000	\$26.00	\$21.32	\$5,330,000	50	0	0.00
Arizona	179,000	\$30.11	\$19.32	\$5,389,690	63	2,000	1.00
Arkansas, Northeast	100,000	\$28.00	\$5.60	\$2,800,000	70	50,000	0.50
Arkansas, Southeast	250,000	\$28.00	\$14.00	\$7,000,000	30	200,000	1.00
California, San Joaquin Valley	33,000	\$12.00	\$0.45	\$396,000	100	0	0.00
Florida	41,000	\$25.00	\$11.39	\$1,025,000	50	1,000	1.00
Georgia	650,000	\$26.00	\$13.00	\$16,900,000	50	162,500	1.00
Kansas	0	\$0.00	\$0.00	\$0	100	0	0.00
Louisiana	575,716	\$29.16	\$23.83	\$16,787,879	100	262,984	1.50
Mississippi Delta	570,000	\$30.20	\$21.20	\$17,214,000	50	285,000	1.10
Mississippi Hills	380,000	\$30.50	\$24.40	\$11,590,000	70	39,000	1.00
Missouri	74,065	\$27.25	\$5.05	\$2,018,271	99	993	1.00
New Mexico	12,000	\$24.55	\$4.11	\$294,600	100	2,000	1.00
North Carolina	492,000	\$19.25	\$10.51	\$9,471,000	95	0	0.00
Oklahoma	83,000	\$19.75	\$7.56	\$1,639,250	75	3,000	1.00
South Carolina	225,000	\$22.00	\$16.50	\$4,950,000	85	185,000	1.50
Tennessee	458,491	\$22.00	\$16.96	\$10,086,802	86	135,905	0.80
Texas, Upper Gulf Coast	108,500	\$19.75	\$8.30	\$2,142,875	65	25,182	1.00
Texas, Lower Gulf Coast	57,200	\$19.75	\$2.96	\$1,129,700	65	2,860	1.00
Texas, Northern Rolling Plains	25,000	\$22.80	\$1.24	\$570,000	60	1,000	1.00
Texas, High Plains	250,000	\$22.20	\$1.84	\$5,550,000	99	10,000	1.00
Texas, Far West	80,820	\$24.58	\$2.89	\$1,986,556	100	0	0.00
Texas, Lower Rio Grande Valley	0	\$0.00	\$0.00	\$0	100	0	0.00
Texas, Southern Rolling Plains	50,000	\$11.65	\$3.53	\$582,500	68	0	0.00
Texas, Northern Blacklands	12,000	\$21.00	\$1.68	\$252,000	100	0	0.00
Texas, Southern Blacklands	60,000	\$22.00	\$10.08	\$1,320,000	85	40,000	1.00
Virginia	42,800	\$18.00	\$7.20	\$770,400	90	40,660	1.20
Total US	5,220,392	\$25.41	\$9.31	\$132,658,922	79	1,455,084	0.33

*Pink Bollworm

Table 5. Insecticide Application Type and Cost.*

State	Acres treated by air	Cost/ Acre by air	Total cost application air	Acres treated by ground	Cost/ Acre by ground	Total cost application ground	Total # applications all arthropods	Average number by air	Average number by ground
Alabama, South	12,500	\$3.75	\$46,875	100,000	\$2.50	\$500,000	1.174	1.000	2.000
Alabama, Central	4,500	\$3.25	\$14,625	36,000	\$2.50	\$135,000	1.012	1.000	1.500
Alabama, North	50,000	\$3.10	\$155,000	200,000	\$2.00	\$600,000	1.341	1.000	1.500
Arizona Bt	128,880	\$3.97	\$869,811	54,237	\$3.00	\$162,711	1.441	1.700	1.000
Arizona Conv	70,000	\$3.58	\$626,500	29,600	\$2.64	\$117,216	3.294	2.500	1.500
Arkansas, Northeast	350,000	\$3.25	\$4,550,000	150,000	\$2.00	\$900,000	7.400	4.000	3.000
Arkansas, Southeast	350,000	\$4.00	\$5,600,000	150,000	\$2.00	\$900,000	5.720	4.000	3.000
California, San Joaquin Valley	501,418	\$12.50	\$6,894,492	747,728	\$10.00	\$8,972,736	2.374	1.100	1.200
Florida	22,500	\$3.50	\$78,750	67,500	\$2.25	\$151,875	1.279	1.000	1.000
Georgia	650,000	\$3.50	\$2,275,000	910,000	\$3.00	\$5,460,000	2.269	1.000	2.000
Kansas	800	\$15.00	\$12,000	1,200	\$12.00	\$14,400	0.084	1.000	1.000
Louisiana Conv	115,989	\$4.68	\$2,497,018	79,904	\$3.20	\$613,661	6.985	4.600	2.400
Louisiana Bt	518,144	\$4.68	\$11,154,613	351,187	\$3.21	\$2,705,543	4.053	4.600	2.400
Mississippi Delta	609,000	\$2.20	\$3,483,480	812,000	\$1.90	\$3,085,600	4.643	2.600	2.000
Mississippi Hills	142,500	\$2.25	\$256,500	475,000	\$1.90	\$722,000	1.582	0.800	0.800
Missouri	192,000	\$4.00	\$1,536,000	264,000	\$2.00	\$2,112,000	5.497	2.000	4.000
New Mexico	70,288	\$14.00	\$4,428,116	21,517	\$8.60	\$185,043	2.974	4.500	1.000
North Carolina Bt	98,400	\$4.50	\$88,560	442,800	\$2.50	\$885,600	2.182	0.200	0.800
North Carolina Conv	143,150	\$4.50	\$322,088	351,740	\$2.50	\$1,758,700	3.855	0.500	2.000
Oklahoma	119,334	\$3.50	\$835,335	141,031	\$3.00	\$1,269,275	1.721	2.000	3.000
South Carolina	165,000	\$4.50	\$1,113,750	195,000	\$4.00	\$1,560,000	3.090	1.500	2.000
Tennessee	550,875	\$3.46	\$1,867,907	464,020	\$3.65	\$4,911,648	6.666	9.800	2.900
Texas, Upper Gulf Coast	116,224	\$3.15	\$1,464,419	142,051	\$2.50	\$1,775,641	8.557	4.000	5.000
Texas, Lower Gulf Coast	133,468	\$3.15	\$462,466	228,802	\$2.50	\$1,144,011	3.116	1.100	2.000
Texas, Northern Rolling Plains	80,040	\$3.50	\$420,210	50,600	\$1.50	\$98,670	0.675	1.500	1.300
Texas, High Plains	1,806,000	\$4.00	\$28,896,000	1,505,000	\$3.50	\$15,802,500	4.510	4.000	3.000
Texas, Far West	618,300	\$3.59	\$3,551,515	4,809	\$2.85	\$34,264	0.366	1.600	2.500
Texas, Lower Rio Grande Valley	146,400	\$3.00	\$2,635,200	244,000	\$2.15	\$2,098,400	6.828	6.000	4.000
Texas, Southern Rolling Plains	82,500	\$3.50	\$288,750	82,500	\$3.50	\$288,750	0.079	1.000	1.000
Texas, Northern Blacklands	30,000	\$3.00	\$90,000	120,000	\$3.00	\$900,000	2.262	1.000	2.500
Texas, Southern Blacklands	111,350	\$2.35	\$1,570,035	78,600	\$2.25	\$530,550	6.687	6.000	3.000
Virginia	10,700	\$6.50	\$13,910	96,300	\$4.00	\$1,078,560	3.304	0.200	2.800
US AVERAGE	8,000,259	\$2.41	\$35,704,463	8,597,125	\$2.06	\$24,021,766	3.576	1.852	1.354

* Does not include treatments applied as part of boll weevil eradication programs.

Table 6. Cotton Insect Monitoring Costs.

State	Acres Scouted	Times per week Scouted	wt Avg Cost over all acres	Cost/scouted acre	Total Cost
Alabama, South	150,000	1.20	\$4.05	\$6.75	\$1,012,500
Alabama, Central	72,000	1.20	\$4.80	\$6.00	\$432,000
Alabama, North	175,000	1.30	\$3.57	\$5.10	\$892,500
Arizona Bt	177,210	1.62	\$9.57	\$9.67	\$1,713,621
Arizona Conv	99,000	1.81	\$8.80	\$8.89	\$880,110
Arkansas, Northeast	475,000	1.50	\$5.70	\$6.00	\$2,850,000
Arkansas, Southeast	450,000	2.00	\$7.20	\$8.00	\$3,600,000
California, San Joaquin Valley	750,000	1.50	\$10.23	\$12.00	\$9,000,000
Florida	74,000	1.80	\$7.24	\$8.80	\$651,200
Georgia	1,010,000	1.50	\$5.63	\$7.25	\$7,322,500
Kansas	25,000	1.00	\$2.50	\$4.00	\$100,000
Louisiana Conv	112,123	1.60	\$7.26	\$8.34	\$935,106
Louisiana Bt	505,306	1.60	\$7.32	\$8.34	\$4,214,252
Mississippi Delta	765,000	1.60	\$7.16	\$7.60	\$5,814,000
Mississippi Hills	395,000	1.40	\$6.07	\$7.30	\$2,883,500
Missouri	334,000	1.00	\$4.55	\$5.45	\$1,820,300
New Mexico	34,000	1.00	\$4.27	\$9.00	\$306,000
North Carolina Bt	266,000	0.70	\$4.05	\$7.50	\$1,995,000
North Carolina Conv	324,000	1.00	\$5.94	\$7.50	\$2,430,000
Oklahoma	130,000	1.00	\$3.45	\$5.75	\$747,500
South Carolina	255,000	1.30	\$7.23	\$8.50	\$2,167,500
Tennessee	298,742	1.00	\$2.91	\$5.80	\$1,732,704
Texas, Upper Gulf Coast	245,361	1.00	\$5.70	\$6.00	\$1,472,166
Texas, Lower Gulf Coast	316,510	1.00	\$4.77	\$5.75	\$1,819,933
Texas, Northern Rolling Plains	25,000	1.50	\$0.33	\$6.00	\$150,000
Texas, High Plains	900,000	1.20	\$1.42	\$4.75	\$4,275,000
Texas, Far West	23,000	1.70	\$0.29	\$8.52	\$195,960
Texas, Lower Rio Grande Valley	195,000	0.70	\$1.26	\$1.58	\$308,100
Texas, Southern Rolling Plains	75,000	1.00	\$2.27	\$5.00	\$375,000
Texas, Northern Blacklands	100,000	1.00	\$3.00	\$4.50	\$450,000
Texas, Southern Blacklands	90,000	1.50	\$2.75	\$4.00	\$360,000
Virginia	30,000	1.50	\$2.38	\$8.50	\$255,000
Total US	8,876,252	1.35	\$4.43	\$7.12	\$63,161,451

Table 7. Summary of All States.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	6,241,872	3,867,108	1.109	\$7.20	\$7.99	2.861	840,931
Bollworm/budworm	11,444,647	5,567,312	0.721	\$10.78	\$7.78	1.427	419,287
Pink Bollworm	572,100	84,700	0.014	\$14.51	\$0.21	0.061	17,930
Cotton Fleahopper	5,913,848	1,036,657	0.076	\$5.42	\$0.41	0.152	44,808
Lygus	7,586,200	2,642,950	0.226	\$10.04	\$2.27	0.562	165,218
Cotton Leafperforator	467,708	9,000	0.001	\$12.00	\$0.01	0.000	31
Spider Mites	3,190,851	1,454,551	0.124	\$22.23	\$2.75	0.221	64,856
Thrips, early season	12,086,338	4,109,091	0.346	\$5.61	\$1.94	0.590	173,430
Beet Armyworm	6,244,406	3,065,592	0.342	\$14.39	\$4.93	2.112	620,722
Fall Armyworm	1,873,997	440,913	0.028	\$11.31	\$0.31	0.061	17,830
European Corn Borer	313,520	1,300	0.000	\$9.33	\$0.00	0.003	768
Stink Bugs	5,293,202	1,459,549	0.138	\$7.75	\$1.07	0.522	153,508
Grasshoppers	610,071	101,721	0.008	\$7.55	\$0.06	0.010	2,903
Salt-marsh Caterpillars	1,139,090	85,285	0.003	\$8.35	\$0.03	0.004	1,036
Aphids	11,088,096	3,800,402	0.311	\$8.16	\$2.54	0.437	128,297
Bandedwinged Whitefly	3,267,953	466,127	0.029	\$7.51	\$0.22	0.018	5,169
Silverleaf Whitefly	836,372	206,171	0.018	\$29.04	\$0.52	0.041	12,028
Soybean Loopers	850,464	340,858	0.014	\$10.63	\$0.14	0.006	1,826
Cabbage Loopers	2,604,519	302,481	0.021	\$12.74	\$0.27	0.022	6,582
Western Flower Thrips	6,476,631	394,714	0.029	\$12.66	\$0.37	0.140	41,115
Cutworms	2,566,553	781,310	0.052	\$4.36	\$0.23	0.014	4,059

Percent Lost	9.26	Est. yield/acre	595	Foliar insecticide	\$34.03
Total Acres	14,248,474	Spray applications	3.610	At planting	\$5.87
Total Bales lost	2,722,335	Cost + loss	\$1,671,680,209	Bt use fees	\$9.31
Bales lost in dollars	\$784,032,442	Cost + loss/acre	\$117.32	Eradication	\$8.66
				Scouting	\$4.43
				Total	\$62.30

Table 8. Alabama Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	1,600	1,600	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	567,500	150,000	0.292	\$9.07	\$2.65	0.650	9,227
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	60,000	3,000	0.005	\$6.17	\$0.03	0.044	625
Lygus	440,000	230,000	0.390	\$4.98	\$1.94	0.498	7,068
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	120,000	5,000	0.008	\$9.90	\$0.08	0.229	3,250
Thrips, early season	590,000	85,000	0.144	\$4.11	\$0.59	0.761	10,802
Beet Armyworm	300	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	5,000	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	590,000	85,000	0.144	\$6.00	\$0.86	0.511	7,250
Grasshoppers	20,000	8,200	0.017	\$9.45	\$0.16	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	590,000	30,000	0.051	\$11.13	\$0.57	1.239	17,573
Bandedwinged Whitefly	245,000	5,000	0.008	\$12.00	\$0.10	0.081	1,146
Silverleaf Whitefly	10,000	1,000	0.002	\$12.00	\$0.02	0.000	0
Soybean Loopers	26,000	12,000	0.020	\$14.92	\$0.30	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	150,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	92,000	81,500	0.138	\$2.85	\$0.39	0.000	0

Percent Lost	4.01
Total Acres	590,000
Total Bales lost	56,940
Bales lost in dollars	\$16,398,750

Est. yield/acre	520
Spray applications	1.220
Cost + loss	\$44,118,550
Cost + loss/acre	\$74.78

	Cost/ Acre
Foliar insecticide	\$7.70
At planting	\$12.03
Bt use fees	\$18.29
Eradication	\$5.00
Scouting	\$3.96
Total	\$46.98

Table 8a. North Alabama.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	250,000	15,000	0.060	\$8.25	\$0.50	0.000	0
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	0	0	0.000	N/A	\$0.00	0.000	0
Lygus	250,000	200,000	0.800	\$4.80	\$3.84	0.750	5,078
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	120,000	5,000	0.020	\$9.90	\$0.20	0.480	3,250
Thrips, early season	250,000	30,000	0.120	\$3.80	\$0.46	0.500	3,385
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	250,000	0	0.000	N/A	\$0.00	0.100	677
Grasshoppers	5,000	200	0.001	\$7.25	\$0.01	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	250,000	5,000	0.020	\$12.80	\$0.26	1.500	10,156
Bandedwinged Whitefly	100,000	0	0.000	N/A	\$0.00	0.000	0
Sweetpotato Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	3,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	150,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	85,000	80,000	0.320	\$2.75	\$0.88	0.000	0

Percent Lost	3.33
Total Acres	250,000
Total Bales lost	22,547
Bales lost in dollars	\$6,493,500

Est. yield/acre	580
Spray applications	1.341
Cost + loss	\$18,873,700
Cost + loss/acre	\$75.49

	Cost/ Acre
Foliar insecticide	\$6.13
At planting	\$13.50
Bt use fees	\$21.32
Eradication	\$5.00
Scouting	\$3.57
Total	\$49.52

Table 8b. Central Alabama.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	1,200	1,200	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	67,500	22,500	0.250	\$7.00	\$1.75	0.375	633
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	30,000	1,000	0.011	\$5.50	\$0.06	0.167	281
Lygus	90,000	10,000	0.111	\$5.50	\$0.61	0.500	844
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	90,000	30,000	0.333	\$4.50	\$1.50	1.000	1,688
Beet Armyworm	300	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	90,000	10,000	0.111	\$6.00	\$0.67	0.500	844
Grasshoppers	10,000	8,000	0.107	\$9.50	\$1.01	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	90,000	5,000	0.056	\$10.00	\$0.56	1.000	1,688
Bandedwinged Whitefly	45,000	0	0.000	N/A	\$0.00	0.000	0
Sweetpotato Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	8,000	2,000	0.022	\$14.50	\$0.32	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	5,000	1,000	0.011	\$9.00	\$0.10	0.000	0

Percent Lost	3.54
Total Acres	90,000
Harvested acres	
Total Bales lost	5,977
Bales lost in dollars	\$1,721,250

Est. yield/acre	340
Spray applications	1.012
Cost + loss	\$5,777,850
Cost + loss/acre	\$64.20

	Cost/ Acre
Foliar insecticide	\$6.58
At planting	\$11.33
Bt use fees	\$17.36
Eradication	\$5.00
Scouting	\$4.80
Total	\$45.07

Table 8c. South Alabama.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	400	400	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	250,000	112,500	0.540	\$9.50	\$5.13	1.500	8,594
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	30,000	2,000	0.008	\$6.50	\$0.05	0.060	344
Lygus	100,000	20,000	0.080	\$6.50	\$0.52	0.200	1,146
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	250,000	25,000	0.100	\$4.00	\$0.40	1.000	5,729
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	5,000	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	250,000	75,000	0.300	\$6.00	\$1.80	1.000	5,729
Grasshoppers	5,000	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	250,000	20,000	0.080	\$11.00	\$0.88	1.000	5,729
Bandedwinged Whitefly	100,000	5,000	0.020	\$12.00	\$0.24	0.200	1,146
Sweetpotato Whitefly	10,000	1,000	0.004	\$12.00	\$0.05	0.000	0
Soybean Loopers	15,000	10,000	0.040	\$15.00	\$0.60	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	2,000	500	0.002	\$6.00	\$0.01	0.000	0

Percent Lost	4.96
Total Acres	250,000
Total Bales lost	28,417
Bales lost in dollars	\$8,184,000

Est. yield/acre	525
Spray applications	1.174
Cost + loss	\$19,467,000
Cost + loss/acre	\$77.87

	Cost/ Acre
Foliar insecticide	\$9.68
At planting	\$10.80
Bt use fees	\$15.60
Eradication	\$5.00
Scouting	\$4.05
Total	\$45.13

Table 9. Arizona Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	\$0.00	N/A	\$0.00	0.000	0
Bollworm/budworm	103,700	38,580	\$0.17	\$16.37	\$2.78	0.309	3,029
Pink Bollworm	246,100	60,000	\$0.56	\$15.60	\$8.72	1.139	11,177
Cotton Fleahopper	195,300	9,265	\$0.02	\$8.00	\$0.13	0.140	1,374
Lygus	279,000	151,820	\$1.01	\$20.66	\$20.78	3.105	30,461
Cotton Leafperforator	32,900	9,000	\$0.03	\$12.00	\$0.39	0.003	31
Spider Mites	69,750	13,950	\$0.05	\$15.00	\$0.75	0.023	228
Thrips, early season	279,000	22,320	\$0.08	\$12.67	\$1.01	0.093	912
Beet Armyworm	169,500	58,950	\$0.20	\$10.63	\$2.08	0.023	221
Fall Armyworm	0	0	\$0.00	N/A	\$0.00	0.000	0
European Corn Borer	0	0	\$0.00	N/A	\$0.00	0.000	0
Stink Bugs	26,740	6,580	\$0.01	\$20.50	\$0.30	0.015	149
Grasshoppers	0	0	\$0.00	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	23,950	3,000	\$0.01	\$15.00	\$0.16	0.000	0
Aphids	32,850	2,790	\$0.01	\$23.00	\$0.14	0.006	56
Bandedwinged Whitefly	139,500	2,358	\$0.00	\$15.00	\$0.06	0.002	23
Silverleaf Whitefly	262,210	138,450	\$0.66	\$29.18	\$19.18	0.519	5,096
Soybean Loopers	0	0	\$0.00	N/A	\$0.00	0.000	0
Cabbage Loopers	7,370	0	\$0.00	N/A	\$0.00	0.000	0
Western Flower Thrips	139,500	0	\$0.00	N/A	\$0.00	0.000	0
Cutworms	0	0	\$0.00	N/A	\$0.00	0.000	0

Percent Lost	5.38
Total Acres	279,000
Total Bales lost	52,757
Bales lost in dollars	15,193,930

Est. yield/acre	1,285
Spray applications	2.802
Cost + loss	\$39,859,628
Cost + loss/acre	\$142.87

	Cost/ Acre
Foliar insecticide	\$56.48
At planting	\$1.53
Bt use fees	\$19.32
Eradication	\$1.78
Scouting	\$9.30
Total	\$88.41

Table 9a. Arizona Bt Cotton.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	53,700	3,580	0.020	\$16.37	\$0.33	0.150	953
Pink Bollworm	161,100	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	125,300	6,265	0.018	\$8.00	\$0.14	0.140	889
Lygus	179,000	103,820	1.090	\$20.75	\$22.63	3.140	19,941
Cotton Leafperforator	17,900	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	44,750	8,950	0.050	\$15.00	\$0.75	0.025	159
Thrips, early season	179,000	14,320	0.080	\$12.67	\$1.01	0.100	635
Beet Armyworm	89,500	8,950	0.025	\$6.50	\$0.16	0.000	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	10,740	3,580	0.013	\$20.50	\$0.26	0.006	38
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	8,950	0	0.000	N/A	\$0.00	0.000	0
Aphids	26,850	1,790	0.006	\$23.00	\$0.14	0.008	48
Bandedwinged Whitefly	89,500	358	0.001	\$15.00	\$0.02	0.003	16
Silverleaf Whitefly	177,210	98,450	0.756	\$29.63	\$22.41	0.594	3,772
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	5,370	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	89,500	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	4.17
Total Acres	179,000
Total Bales lost	26,451
Bales lost in dollars	\$7,617,877

Est. yield/acre	1,322
Spray applications	2.059
Cost + loss	\$23,937,610
Cost + loss/acre	\$133.73

	Cost/ Acre
Foliar insecticide	\$47.84
At planting	\$1.87
Bt use fees	\$30.11
Eradication	\$1.78
Scouting	\$9.57
Total	\$91.17

Table 9b. Arizona Conventional Cotton.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	50,000	35,000	0.438	\$16.37	\$7.16	0.600	2,076
Pink Bollworm	85,000	60,000	1.560	\$15.60	\$24.34	3.230	11,177
Cotton Fleahopper	70,000	3,000	0.015	\$8.00	\$0.12	0.140	484
Lygus	100,000	48,000	0.854	\$20.44	\$17.46	3.040	10,520
Cotton Leafperforator	15,000	9,000	0.090	\$12.00	\$1.08	0.009	31
Spider Mites	25,000	5,000	0.050	\$15.00	\$0.75	0.020	69
Thrips, early season	100,000	8,000	0.080	\$12.67	\$1.01	0.080	277
Beet Armyworm	80,000	50,000	0.500	\$11.00	\$5.50	0.064	221
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	16,000	3,000	0.019	\$20.50	\$0.38	0.032	111
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	15,000	3,000	0.030	\$15.00	\$0.45	0.000	0
Aphids	6,000	1,000	0.006	\$23.00	\$0.14	0.002	8
Bandedwinged Whitefly	50,000	2,000	0.010	\$15.00	\$0.15	0.002	7
Silverleaf Whitefly	85,000	40,000	0.480	\$27.90	\$13.39	0.383	1,324
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	2,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	50,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	7.60
Total Acres	100,000
Total Bales lost	26,306
Bales lost in dollars	\$7,576,054

Est. yield/acre	1,220
Spray applications	4.132
Cost + loss	\$15,922,017
Cost + loss/acre	\$159.22

	Cost/ Acre
Foliar insecticide	\$71.95
At planting	\$0.93
Bt use fees	\$0.00
Eradication	\$1.78
Scouting	\$8.80
Total	\$83.46

Table 10. Arkansas Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	975,000	625,000	2.500	\$7.49	\$18.73	1.926	37,109
Bollworm/budworm	1,000,000	900,000	2.250	\$13.00	\$29.25	3.270	63,021
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	400,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	1,000,000	200,000	0.200	\$8.00	\$1.60	0.641	12,344
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	450,000	175,000	0.275	\$16.45	\$4.53	0.224	4,323
Thrips, early season	950,000	500,000	0.650	\$6.69	\$4.35	1.897	36,563
Beet Armyworm	200,000	100,000	0.100	\$14.00	\$1.40	0.000	0
Fall Armyworm	400,000	150,000	0.150	\$12.00	\$1.80	0.197	3,802
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	500,000	5,000	0.005	\$6.00	\$0.03	0.021	396
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	150,000	10,000	0.010	\$9.00	\$0.09	0.000	0
Aphids	1,000,000	200,000	0.200	\$8.50	\$1.70	0.500	9,635
Bandedwinged Whitefly	250,000	20,000	0.020	\$10.00	\$0.20	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	150,000	10,000	0.000	N/A	\$0.01	0.000	0
Cabbage Loopers	100,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	400,000	100,000	0.100	\$7.00	\$0.70	0.118	2,281
Cutworms	300,000	100,000	0.100	\$2.50	\$0.25	0.000	0

Percent Lost	8.79
Total Acres	1,000,000
Total Bales lost	169,474
Bales lost in dollars	\$48,808,500

Est. yield/acre	709
Spray applications	6.560
Cost + loss	\$158,463,500
Cost + loss/acre	\$158.46

	Cost/ Acre
Foliar insecticide	\$64.63
At planting	\$10.73
Bt use fees	\$9.80
Eradication	\$18.05
Scouting	\$6.45
Total	\$109.66

Table 10a. Northeast Arkansas.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	475,000	425,000	3.400	\$7.25	\$24.65	2.375	22,266
Bollworm/budworm	500,000	450,000	1.800	\$10.00	\$18.00	2.500	23,438
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	350,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	500,000	100,000	0.200	\$8.00	\$1.60	1.000	9,375
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	250,000	100,000	0.400	\$17.00	\$6.80	0.250	2,344
Thrips, early season	500,000	300,000	0.900	\$7.00	\$6.30	2.000	18,750
Beet Armyworm	100,000	50,000	0.100	\$14.00	\$1.40	0.000	0
Fall Armyworm	300,000	100,000	0.200	\$12.00	\$2.40	0.300	2,813
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	300,000	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	50,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	500,000	100,000	0.200	\$9.00	\$1.80	0.500	4,688
Bandedwinged Whitefly	150,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	50,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	100,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	300,000	50,000	0.100	\$7.00	\$0.70	0.180	1,688
Cutworms	200,000	50,000	0.100	\$3.00	\$0.30	0.000	0

Percent Lost	9.11
Total Acres	500,000
Total Bales lost	85,359
Bales lost in dollars	\$24,583,500

Est. yield/acre	680
Spray applications	7.400
Cost + loss	\$71,208,500
Cost + loss/acre	\$142.42

Cost/ Acre	
Foliar insecticide	\$63.95
At planting	\$12.00
Bt use fees	\$5.60
Eradication	\$6.00
Scouting	\$5.70
Total	\$93.25

Table 10b. Southeast Arkansas.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	500,000	200,000	1.600	\$8.00	\$12.80	1.500	14,844
Bollworm/budworm	500,000	450,000	2.700	\$15.00	\$40.50	4.000	39,583
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	50,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	500,000	100,000	0.200	\$8.00	\$1.60	0.300	2,969
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	200,000	75,000	0.150	\$15.00	\$2.25	0.200	1,979
Thrips, early season	450,000	200,000	0.400	\$6.00	\$2.40	1.800	17,813
Beet Armyworm	100,000	50,000	0.100	\$14.00	\$1.40	0.000	0
Fall Armyworm	100,000	50,000	0.100	\$12.00	\$1.20	0.100	990
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	200,000	5,000	0.010	\$6.00	\$0.06	0.040	396
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	100,000	10,000	0.020	\$9.00	\$0.18	0.000	0
Aphids	500,000	100,000	0.200	\$8.00	\$1.60	0.500	4,948
Bandedwinged Whitefly	100,000	20,000	0.040	\$10.00	\$0.40	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	100,000	10,000	0.000	N/A	\$0.02	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	100,000	50,000	0.100	\$7.00	\$0.70	0.060	594
Cutworms	100,000	50,000	0.100	\$2.00	\$0.20	0.000	0

Percent Lost	8.50
Total Acres	500,000
Total Bales lost	84,115
Bales lost in dollars	\$24,225,000

Est. yield/acre	738
Spray applications	5.720
Cost + loss	\$87,255,000
Cost + loss/acre	\$174.51

Cost/ Acre	
Foliar insecticide	\$65.31
At planting	\$9.45
Bt use fees	\$14.00
Eradication	\$30.10
Scouting	\$7.20
Total	\$126.06

Table 11. California - San Joaquin Valley.*

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	% red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	87,968	8,797	0.010	\$26.00	\$0.26	0.002	59
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	0	0	0.000	N/A	\$0.00	0.000	0
Lygus	791,712	351,872	0.400	\$27.00	\$10.80	2.250	65,976
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	870,833	659,760	1.125	\$30.00	\$33.75	1.485	43,542
Thrips, early season	0	0	0.000	N/A	\$0.00	0.000	0
Beet Armyworm	263,904	131,352	0.149	\$18.00	\$2.69	0.060	1,759
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	527,808	263,904	0.300	\$18.00	\$5.40	0.300	8,797
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	105,562	52,781	0.060	\$33.00	\$1.98	0.012	352
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	870,883	263,904	0.330	\$15.00	\$4.95	0.990	29,029
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	5.10
Total Acres	879,680
Total Bales lost	149,514
Bales lost in dollars	\$43,059,963

Est. yield/acre	1,275
Spray applications	2.374
Cost + loss	\$107,785,226
Cost + loss/acre	\$122.53

	Cost/ Acre
Foliar insecticide	\$59.83
At planting	\$3.07
Bt use fees	\$0.45
Eradication	\$0.00
Scouting	\$10.23
Total	\$73.58

*The Sacramento and Imperial Valleys are not included in this year's report.

Table 12. Florida Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	% red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	80,000	25,000	0.278	\$9.00	\$2.50	0.533	720
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	0	0	0.000	N/A	\$0.00	0.000	0
Lygus	75,000	8,000	0.089	\$4.25	\$0.38	0.000	0
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	90,000	6,000	0.067	\$5.50	\$0.37	0.200	270
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	6,000	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	84,000	65,000	0.722	\$7.20	\$5.20	0.933	1,260
Grasshoppers	5,000	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	90,000	10,000	0.111	\$11.00	\$1.22	0.180	243
Bandedwinged Whitefly	40,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	40,000	1,000	0.011	\$18.00	\$0.20	0.000	0
Soybean Loopers	30,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	20,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	1,000	150	0.002	\$8.00	\$0.01	0.000	0

Percent Lost	1.85
Total Acres	90,000
Total Bales lost	2,493
Bales lost in dollars	\$717,993

Est. yield/acre	490
Spray applications	1.279
Cost + loss	\$4,430,593
Cost + loss/acre	\$49.23

	Cost/ Acre
Foliar insecticide	\$9.88
At planting	\$6.75
Bt use fees	\$11.39
Eradication	\$6.00
Scouting	\$7.24
Total	\$41.25

Table 13. Georgia Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	950,000	587,600	1.130	\$10.00	\$11.30	1.462	39,583
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	15,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	150,000	65,000	0.050	\$6.00	\$0.30	0.000	0
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	5,000	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	1,100,100	227,500	0.175	\$5.00	\$0.88	0.000	0
Beet Armyworm	20,000	13,000	0.010	\$10.00	\$0.10	0.000	0
Fall Armyworm	20,000	13,000	0.010	\$10.00	\$0.10	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	900,000	690,000	0.796	\$8.00	\$6.37	1.385	37,500
Grasshoppers	50,000	1,000	0.001	\$8.00	\$0.01	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	500,000	91,000	0.070	\$9.00	\$0.63	0.385	10,417
Bandedwinged Whitefly	10,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	150,000	5,000	0.006	\$15.00	\$0.09	0.231	6,250
Soybean Loopers	40,000	26,000	0.020	\$14.00	\$0.28	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	5,000	1,500	0.001	\$6.00	\$0.01	0.000	0

Percent Lost	3.46
Total Acres	1,300,000
Total Bales lost	93,750
Bales lost in dollars	\$27,000,000

Est. yield/acre	600
Spray applications	2.269
Cost + loss	\$92,992,500
Cost + loss/acre	\$71.53

	Cost/ Acre
Foliar insecticide	\$20.05
At planting	\$8.08
Bt use fees	\$13.00
Eradication	\$4.00
Scouting	\$5.63
Total	\$50.76

Table 14. Kansas Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	1,000	640	0.016	\$15.00	\$0.24	0.025	10
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	1,000	200	0.005	\$12.00	\$0.06	0.000	0
Lygus	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	10,000	2,500	0.063	\$12.00	\$0.75	1.250	521
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	0	0	0.000	N/A	\$0.00	0.000	0
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	1.28
Total Acres	40,000
Total Bales lost	531
Bales lost in dollars	\$153,000

Est. yield/acre	300
Spray applications	0.084
Cost + loss	\$415,000
Cost + loss/acre	\$10.38

	Cost/ Acre
Foliar insecticide	\$1.05
At planting	\$3.00
Bt use fees	\$0.00
Eradication	\$0.00
Scouting	\$2.50
Total	\$6.55

Table 15. Louisiana Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	547,089	172,633	0.363	\$0.06	\$0.02	0.186	2,350
Bollworm/budworm	637,571	375,449	1.319	\$9.45	\$12.46	1.006	12,691
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	147,966	32,292	0.000	N/A	\$0.00	0.001	12
Lygus	407,141	270,800	0.525	\$4.52	\$2.37	0.270	3,405
Cotton Leafperforator	4,808	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	339,918	333,546	0.237	\$9.61	\$2.28	0.067	841
Thrips, early season	640,759	292,217	0.456	\$5.45	\$2.49	0.158	1,997
Beet Armyworm	400,288	179,626	0.138	\$10.61	\$1.46	0.150	1,894
Fall Armyworm	249,970	108,313	0.088	\$8.30	\$0.73	0.028	357
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	374,699	127,705	0.213	\$5.36	\$1.14	0.638	8,049
Grasshoppers	97,871	1,121	0.000	\$4.50	\$0.00	0.000	0
Salt-marsh Caterpillars	331,740	51,785	0.016	\$4.99	\$0.08	0.000	0
Aphids	602,182	412,663	0.586	\$5.78	\$3.38	0.129	1,632
Bandedwinged Whitefly	322,432	263,069	0.254	\$6.92	\$1.76	0.074	933
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	298,164	245,058	0.139	\$8.71	\$1.21	0.085	1,066
Cabbage Loopers	29,014	1,081	0.000	\$11.00	\$0.00	0.000	4
Western Flower Thrips	243,821	2,132	0.000	\$8.00	\$0.00	0.008	99
Cutworms	374,053	356,960	0.456	\$3.70	\$1.69	0.061	767

Percent Lost	2.86
Total Acres	704,593
Total Bales lost	36,096
Bales lost in dollars	\$10,395,744

Est. yield/acre	639
Spray applications	4.790
Cost + loss	\$67,981,698
Cost + loss/acre	\$96.48

	Cost/ Acre
Foliar insecticide	\$31.08
At planting	\$5.51
Bt use fees	\$23.83
Eradication	\$14.00
Scouting	\$7.31
Total	\$81.73

Table 15a. Louisiana Conventional Cotton Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	100,068	31,576	0.343	\$0.37	\$0.13	0.078	173
Bollworm/budworm	125,592	112,465	4.538	\$10.87	\$49.33	2.797	6,225
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	25,364	5,340	0.000	N/A	\$0.00	0.002	4
Lygus	76,890	47,788	0.445	\$4.72	\$2.10	0.298	664
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	63,131	60,411	0.234	\$9.32	\$2.18	0.064	142
Thrips, early season	116,878	52,098	0.445	\$5.38	\$2.39	0.218	484
Beet Armyworm	71,807	36,639	0.199	\$10.93	\$2.18	0.212	471
Fall Armyworm	44,393	13,591	0.042	\$8.56	\$0.36	0.010	23
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	68,890	28,799	0.156	\$5.45	\$0.85	0.641	1,428
Grasshoppers	17,945	205	0.000	\$4.50	\$0.00	0.000	0
Salt-marsh Caterpillars	60,678	3,618	0.014	\$6.25	\$0.09	0.000	0
Aphids	111,501	75,856	0.589	\$6.20	\$3.65	0.216	481
Bandedwinged Whitefly	4,095	48,876	0.228	\$7.00	\$1.59	0.006	14
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	30,251	23,360	0.073	\$9.05	\$0.66	0.045	99
Cabbage Loopers	5,749	198	0.000	\$11.00	\$0.00	0.001	1
Western Flower Thrips	60,207	390	0.000	\$8.00	\$0.00	0.000	0
Cutworms	70,836	66,540	0.465	\$3.70	\$1.72	0.049	110

Percent Lost	4.64
Total Acres	128,877
Total Bales lost	10,320
Bales lost in dollars	\$2,972,192

Est. yield/acre	640
Spray applications	7.770
Cost + loss	\$15,085,997
Cost + loss/acre	\$117.06

	Cost/ Acre
Foliar insecticide	\$67.23
At planting	\$5.51
Bt use fees	\$0.00
Eradication	\$14.00
Scouting	\$7.26
Total	\$94.00

Table 15b. Louisiana Bt-Cotton Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	447,021	141,057	0.368	\$0.00	\$0.00	0.210	2,178
Bollworm/budworm	511,979	262,984	0.914	\$7.04	\$6.43	0.623	6,466
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	122,602	26,952	0.000	N/A	\$0.00	0.001	9
Lygus	330,251	223,012	0.542	\$4.48	\$2.43	0.264	2,741
Cotton Leafperforator	4,808	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	276,787	273,135	0.237	\$9.68	\$2.30	0.067	699
Thrips, early season	523,881	240,119	0.459	\$5.47	\$2.51	0.146	1,512
Beet Armyworm	328,481	142,987	0.124	\$10.50	\$1.30	0.137	1,422
Fall Armyworm	205,577	94,722	0.099	\$8.28	\$0.82	0.032	334
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	305,809	98,906	0.225	\$5.35	\$1.20	0.637	6,621
Grasshoppers	79,926	916	0.000	\$4.50	\$0.00	0.000	0
Salt-marsh Caterpillars	271,062	48,167	0.017	\$4.75	\$0.08	0.000	0
Aphids	490,681	336,807	0.585	\$5.68	\$3.32	0.111	1,151
Bandedwinged Whitefly	318,337	214,193	0.260	\$6.90	\$1.80	0.088	919
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	267,913	221,698	0.154	\$8.67	\$1.34	0.093	967
Cabbage Loopers	23,265	883	0.000	\$11.00	\$0.00	0.000	3
Western Flower Thrips	183,614	1,742	0.000	\$8.00	\$0.00	0.010	99
Cutworms	303,217	290,420	0.454	\$3.70	\$1.68	0.063	656

Percent Lost	2.48	Est. yield/acre	639	Cost/ Acre	
Total Acres	575,716	Spray applications	4.438	Foliar insecticide	\$25.21
Total Bales lost	25,776	Cost + loss	\$54,173,172	At planting	\$5.51
Bales lost in dollars	\$7,423,552	Cost + loss/acre	\$94.10	Bt use fees	\$29.16
				Eradication	\$14.00
				Scouting	\$7.32
				Total	\$81.20

Table 16. Mississippi Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	1,287,000	515,000	0.863	\$13.20	\$11.39	2.232	59,850
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	38,800	0	0.000	N/A	\$0.00	0.001	29
Lygus	1,287,000	870,000	0.925	\$6.97	\$6.44	0.352	9,448
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	480,000	74,000	0.075	\$10.93	\$0.82	0.062	1,667
Thrips, early season	1,287,000	652,000	0.648	\$5.24	\$3.39	0.626	16,790
Beet Armyworm	530,000	96,000	0.075	\$11.73	\$0.87	0.071	1,917
Fall Armyworm	767,000	157,000	0.122	\$12.14	\$1.48	0.445	11,925
European Corn Borer	20,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	770,000	38,100	0.030	\$7.37	\$0.22	0.212	5,688
Grasshoppers	51,200	10,000	0.008	\$7.60	\$0.06	0.007	196
Salt-marsh Caterpillars	209,000	19,000	0.015	\$9.11	\$0.13	0.016	435
Aphids	1,287,000	531,000	0.492	\$6.78	\$3.33	0.330	8,845
Bandedwinged Whitefly	730,000	106,500	0.108	\$8.95	\$0.96	0.054	1,448
Silverleaf Whitefly	1,000	300	0.000	\$19.50	\$0.00	0.004	104
Soybean Loopers	215,000	47,000	0.037	\$11.83	\$0.43	0.028	760
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	1,287,000	152,000	0.118	\$6.68	\$0.79	0.087	2,343

Percent Lost	4.53	Est. yield/acre	662	Cost/ Acre	
Total Acres	1,287,000	Spray applications	3.513	Foliar insecticide	\$30.34
Total Bales lost	121,444	Cost + loss	\$152,183,853	At planting	\$9.08
Bales lost in dollars	\$34,975,980	Cost + loss/acre	\$118.25	Bt use fees	\$22.38
				Eradication	\$22.52
				Scouting	\$6.76
				Total	\$91.07

Table 16a. Mississippi Delta.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	812,000	410,000	1.161	\$13.20	\$15.33	1.900	32,142
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	28,000	0	0.000	N/A	\$0.00	0.002	29
Lygus	812,000	730,000	1.259	\$7.20	\$9.06	0.500	8,458
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	160,000	55,000	0.088	\$10.80	\$0.95	0.059	1,000
Thrips, early season	812,000	510,000	0.817	\$5.40	\$4.41	0.700	11,842
Beet Armyworm	390,000	83,000	0.102	\$11.70	\$1.20	0.096	1,625
Fall Armyworm	580,000	120,000	0.148	\$11.80	\$1.74	0.429	7,250
European Corn Borer	20,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	420,000	5,100	0.006	\$7.20	\$0.05	0.207	3,500
Grasshoppers	8,200	0	0.000	N/A	\$0.00	0.001	17
Salt-marsh Caterpillars	129,000	17,000	0.021	\$9.20	\$0.19	0.016	269
Aphids	812,000	490,000	0.724	\$6.80	\$4.92	0.400	6,767
Bandedwinged Whitefly	510,000	85,000	0.136	\$8.70	\$1.18	0.031	531
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	140,000	37,000	0.046	\$11.70	\$0.53	0.017	292
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	812,000	110,000	0.135	\$6.60	\$0.89	0.080	1,353

Percent Lost	4.44	Est. yield/acre	680	Cost/ Acre	
Total Acres	812,000	Spray applications	4.643	Foliar insecticide	\$40.46
Total Bales lost	75,075	Cost + loss	\$103,214,750	At planting	\$9.66
Bales lost in dollars	\$21,621,480	Cost + loss/acre	\$127.11	Bt use fees	\$21.20
				Eradication	\$22.00
				Scouting	\$7.16
				Total	\$100.48

Table 16b. Mississippi Hills.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	475,000	105,000	0.354	\$13.20	\$4.67	2.800	27,708
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	10,800	0	0.000	N/A	\$0.00	0.000	0
Lygus	475,000	140,000	0.354	\$5.55	\$1.96	0.100	990
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	320,000	19,000	0.052	\$11.30	\$0.59	0.067	667
Thrips, early season	475,000	142,000	0.359	\$4.60	\$1.65	0.500	4,948
Beet Armyworm	140,000	13,000	0.027	\$11.90	\$0.33	0.029	292
Fall Armyworm	187,000	37,000	0.078	\$13.25	\$1.03	0.472	4,675
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	350,000	33,000	0.069	\$7.40	\$0.51	0.221	2,188
Grasshoppers	43,000	10,000	0.021	\$7.60	\$0.16	0.018	179
Salt-marsh Caterpillars	80,000	2,000	0.004	\$8.30	\$0.03	0.017	167
Aphids	475,000	41,000	0.095	\$6.50	\$0.62	0.210	2,078
Bandedwinged Whitefly	220,000	21,500	0.059	\$9.95	\$0.59	0.093	917
Silverleaf Whitefly	1,000	300	0.001	\$19.50	\$0.01	0.011	104
Soybean Loopers	75,000	10,000	0.021	\$12.30	\$0.26	0.047	469
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	475,000	42,000	0.088	\$6.90	\$0.61	0.100	990

Percent Lost	4.69	Est. yield/acre	630	Cost/ Acre	
Total Acres	475,000	Spray applications	1.582	Foliar insecticide	\$13.02
Total Bales lost	46,370	Cost + loss	\$48,969,103	At planting	\$8.09
Bales lost in dollars	\$13,354,500	Cost + loss/acre	\$103.09	Bt use fees	\$24.40
				Eradication	\$23.40
				Scouting	\$6.07
				Total	\$74.98

Table 17. Missouri Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	311,200	298,400	2.984	\$6.82	\$20.35	3.734	32,116
Bollworm/budworm	347,600	301,600	0.905	\$8.34	\$7.55	1.469	12,630
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	51,200	10,400	0.026	\$7.00	\$0.18	0.000	0
Lygus	352,400	106,000	0.292	\$6.43	\$1.87	0.546	4,697
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	98,400	28,800	0.072	\$11.90	\$0.86	0.106	910
Thrips, early season	400,000	137,000	0.343	\$4.46	\$1.53	1.230	10,578
Beet Armyworm	8,830	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	41,200	1,600	0.004	\$11.00	\$0.04	0.010	89
European Corn Borer	36,000	800	0.002	\$10.00	\$0.02	0.009	77
Stink Bugs	61,600	3,600	0.009	\$4.00	\$0.04	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	280,000	221,600	0.609	\$6.89	\$4.20	0.574	4,936
Bandedwinged Whitefly	130,000	69,200	0.173	\$5.00	\$0.87	0.023	196
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	39,200	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	61,607	10,268	0.026	\$5.00	\$0.13	0.000	0
Cutworms	79,200	21,200	0.053	\$5.73	\$0.30	0.044	375

Percent Lost	7.74
Total Acres	400,000
Total Bales lost	66,604
Bales lost in dollars	\$19,181,875

Est. yield/acre	731
Spray applications	5.497
Cost + loss	\$41,623,025
Cost + loss/acre	\$104.06

	Cost/ Acre
Foliar insecticide	\$37.93
At planting	\$8.57
Bt use fees	\$5.05
Eradication	\$0.00
Scouting	\$4.55
Total	\$56.10

Table 18. New Mexico Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	41,908	18,908	0.527	\$18.00	\$9.49	1.753	2,014
Bollworm/budworm	44,000	41,000	1.143	\$18.00	\$20.58	2.454	2,820
Pink Bollworm	15,000	8,000	0.112	\$18.00	\$2.01	0.941	1,081
Cotton Fleahopper	2,000	0	0.000	N/A	\$0.00	0.014	16
Lygus	25,000	6,500	0.091	\$8.50	\$0.77	1.569	1,802
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	15,000	2,000	0.028	\$9.00	\$0.25	0.314	360
Beet Armyworm	34,000	4,000	0.056	\$21.00	\$1.17	0.474	545
Fall Armyworm	4,000	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	8,000	500	0.007	\$18.00	\$0.13	0.056	64
Grasshoppers	18,000	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	42,000	16,000	0.223	\$21.00	\$4.68	0.000	0
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	14,000	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	7.57
Total Acres	71,722
Total Bales lost	8,703
Bales lost in dollars	\$2,506,436

Est. yield/acre	625
Spray applications	2.186
Cost + loss	\$7,029,617
Cost + loss/acre	\$98.01

	Cost/ Acre
Foliar insecticide	\$39.08
At planting	\$1.88
Bt use fees	\$4.11
Eradication	\$13.73
Scouting	\$4.27
Total	\$63.07

Table 19. North Carolina Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	901,000	826,500	1.717	\$8.25	\$14.17	3.212	75,364
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	400,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	901,000	98,000	0.109	\$6.50	\$0.71	0.406	9,518
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	8,950	895	0.001	\$13.00	\$0.02	0.000	0
Thrips, early season	901,000	622,000	0.897	\$4.75	\$4.26	1.200	28,156
Beet Armyworm	10,500	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	84,000	700	0.001	\$10.25	\$0.01	0.000	0
European Corn Borer	120,000	500	0.001	\$8.25	\$0.00	0.002	47
Stink Bugs	901,000	93,000	0.123	\$8.10	\$1.00	2.751	64,538
Grasshoppers	44,000	4,400	0.005	\$6.00	\$0.03	0.002	41
Salt-marsh Caterpillars	60,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	901,000	36,000	0.044	\$12.00	\$0.53	0.160	3,754
Bandedwinged Whitefly	20,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	12,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	450,000	11,100	0.012	\$12.00	\$0.15	0.240	5,625
Cutworms	202,000	22,200	0.025	\$5.00	\$0.12	0.000	0

Percent Lost	7.97	Est. yield/acre	770	Cost/ Acre	
Total Acres	901,000	Spray applications	2.935	Foliar insecticide	\$20.99
Total Bales lost	187,043	Cost + loss	\$98,189,242	At planting	\$10.93
Bales lost in dollars	\$53,868,330	Cost + loss/acre	\$108.98	Bt use fees	\$10.51
				Eradication	\$1.85
				Scouting	\$4.91
				Total	\$49.19

Table 19a. North Carolina Bt Cotton Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	492,000	426,000	0.866	\$8.25	\$7.14	1.260	16,144
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	200,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	492,000	59,500	0.121	\$6.50	\$0.79	0.560	7,175
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	4,950	495	0.001	\$13.00	\$0.02	0.000	0
Thrips, early season	492,000	342,000	0.904	\$4.75	\$4.29	1.200	15,375
Beet Armyworm	5,500	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	44,000	200	0.000	\$10.25	\$0.00	0.000	0
European Corn Borer	60,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	492,000	90,000	0.220	\$8.10	\$1.78	3.840	49,200
Grasshoppers	24,000	2,400	0.005	\$6.00	\$0.03	0.002	23
Salt-marsh Caterpillars	10,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	492,000	19,800	0.044	\$12.00	\$0.53	0.160	2,050
Bandedwinged Whitefly	10,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	6,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	247,000	6,100	0.012	\$12.00	\$0.15	0.241	3,088
Cutworms	101,000	12,200	0.025	\$5.00	\$0.12	0.000	0

Percent Lost	7.26	Est. yield/acre	779	Cost/ Acre	
Total Acres	492,000	Spray applications	2.198	Foliar insecticide	\$14.85
Total Bales lost	93,054	Cost + loss	\$51,899,812	At planting	\$11.01
Bales lost in dollars	\$26,799,480	Cost + loss/acre	\$105.49	Bt use fees	\$19.25
				Eradication	\$1.85
				Scouting	\$4.05
				Total	\$51.02

Table 19b. North Carolina Conventional Cotton Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	409,000	400,500	2.742	\$8.25	\$22.62	5.560	59,220
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	200,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	409,000	38,500	0.094	\$6.50	\$0.61	0.220	2,343
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	4,000	400	0.001	\$13.00	\$0.02	0.000	0
Thrips, early season	409,000	280,000	0.890	\$4.75	\$4.23	1.200	12,781
Beet Armyworm	5,000	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	40,000	500	0.001	\$10.25	\$0.01	0.000	0
European Corn Borer	60,000	500	0.001	\$8.25	\$0.01	0.004	47
Stink Bugs	409,000	3,000	0.007	\$8.10	\$0.06	1.440	15,338
Grasshoppers	20,000	2,000	0.005	\$6.00	\$0.03	0.002	19
Salt-marsh Caterpillars	50,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	409,000	16,200	0.044	\$12.00	\$0.52	0.160	1,704
Bandedwinged Whitefly	10,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	6,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	203,000	5,000	0.012	\$12.00	\$0.15	0.238	2,538
Cutworms	101,000	10,000	0.024	\$5.00	\$0.12	0.000	0

Percent Lost	8.82	Est. yield/acre	760	Cost/ Acre	
Total Acres	409,000	Spray applications	3.822	Foliar insecticide	\$28.38
Total Bales lost	93,989	Cost + loss	\$46,289,430	At planting	\$10.83
Bales lost in dollars	\$27,068,850	Cost + loss/acre	\$113.18	Bt use fees	\$0.00
				Eradication	\$1.85
				Scouting	\$5.94
				Total	\$46.99

Table 20. Oklahoma Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	216,970	50,000	0.461	\$12.75	\$5.88	3.000	9,153
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	216,970	80,000	0.369	\$6.50	\$2.40	1.000	3,051
Lygus	30,000	1,000	0.005	\$6.75	\$0.03	0.035	105
Cotton Leafperforator	40,000	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	3,000	550	0.005	\$14.00	\$0.07	0.007	21
Thrips, early season	216,970	130,000	0.599	\$6.50	\$3.89	1.000	3,051
Beet Armyworm	50,000	10,464	0.048	\$16.50	\$0.80	0.346	1,055
Fall Armyworm	5,000	1,000	0.005	\$16.50	\$0.08	0.035	105
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	50,000	250	0.001	\$10.75	\$0.01	0.058	176
Grasshoppers	38,000	13,000	0.060	\$8.00	\$0.48	0.088	267
Salt-marsh Caterpillars	15,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	150,000	17,000	0.157	\$9.75	\$1.53	2.074	6,328
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	60,000	2,500	0.012	\$11.50	\$0.13	0.138	422
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	7.78	Est. yield/acre	440	Cost/ Acre	
Total Acres	216,970	Spray applications	1.721	Foliar insecticide	\$15.29
Total Bales lost	23,735	Cost + loss	\$15,694,070	At planting	\$2.33
Bales lost in dollars	\$6,835,793	Cost + loss/acre	\$72.33	Bt use fees	\$7.56
				Eradication	\$12.20
				Scouting	\$3.45
				Total	\$40.83

Table 21. South Carolina Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	295,000	225,000	1.050	\$8.75	\$9.19	3.933	21,510
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	4,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	10,000	1,000	0.003	\$8.50	\$0.03	0.000	0
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	15,000	1,000	0.005	\$13.00	\$0.07	0.050	273
Thrips, early season	260,000	125,000	0.625	\$4.50	\$2.81	0.000	0
Beet Armyworm	1,000	500	0.002	\$16.00	\$0.03	0.000	0
Fall Armyworm	5,000	500	0.002	\$15.50	\$0.03	0.017	91
European Corn Borer	3,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	225,000	175,000	1.167	\$9.00	\$10.50	3.000	16,406
Grasshoppers	50,000	10,000	0.067	\$9.00	\$0.60	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	150,000	50,000	0.167	\$8.00	\$1.33	0.000	0
Bandedwinged Whitefly	20,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	1,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	1,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	20,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	5,000	1,000	0.003	\$5.00	\$0.02	0.000	0

Percent Lost	7.00
Total Acres	300,000
Total Bales lost	38,281
Bales lost in dollars	\$11,025,000

Est. yield/acre	645
Spray applications	3.090
Cost + loss	\$31,615,000
Cost + loss/acre	\$105.38

	Cost/ Acre
Foliar insecticide	\$24.60
At planting	\$14.96
Bt use fees	\$16.50
Eradication	\$5.35
Scouting	\$7.23
Total	\$68.63

Table 22. Tennessee Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	574,897	574,897	3.444	\$8.01	\$27.58	3.002	33,969
Bollworm/budworm	415,726	290,189	0.824	\$11.32	\$9.33	1.502	16,996
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	0	0	0.000	N/A	\$0.00	0.000	0
Lygus	594,897	103,558	0.295	\$7.18	\$2.12	0.800	9,052
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	298,500	132,250	0.432	\$13.40	\$5.79	0.400	4,526
Thrips, early season	594,897	473,254	1.300	\$8.01	\$10.42	1.159	13,113
Beet Armyworm	380,050	500	0.001	\$17.00	\$0.01	0.011	129
Fall Armyworm	151,950	1,000	0.002	\$17.00	\$0.03	0.052	585
European Corn Borer	133,520	0	0.000	N/A	\$0.00	0.000	4
Stink Bugs	530,348	129,484	0.218	\$8.24	\$1.79	1.400	15,846
Grasshoppers	26,000	5,000	0.008	\$7.50	\$0.06	0.005	56
Salt-marsh Caterpillars	149,600	0	0.000	N/A	\$0.00	0.010	110
Aphids	513,244	70,660	0.119	\$10.38	\$1.23	0.195	2,210
Bandedwinged Whitefly	217,321	0	0.000	N/A	\$0.00	0.103	1,161
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	30,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	119,215	0	0.000	N/A	\$0.00	0.004	42
Western Flower Thrips	458,490	3,810	0.006	\$5.54	\$0.04	0.602	6,813
Cutworms	32,300	9,800	0.016	\$6.60	\$0.11	0.029	331

Percent Lost	9.27
Total Acres	594,897
Total Bales lost	104,943
Bales lost in dollars	\$30,223,605

Est. yield/acre	600
Spray applications	6.666
Cost + loss	\$90,784,905
Cost + loss/acre	\$152.61

	Cost/ Acre
Foliar insecticide	\$58.52
At planting	\$7.99
Bt use fees	\$16.96
Eradication	\$15.64
Scouting	\$2.70
Total	\$101.80

Table 23. Texas Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	% red	Bales lost
Boll weevil	3,790,178	2,175,670	1.840	\$7.18	\$13.20	7.347	729,894
Bollworm/budworm	4,403,612	1,125,957	0.203	\$10.74	\$2.18	0.940	93,397
Pink Bollworm	311,000	16,700	0.007	\$9.34	\$0.07	0.057	5,672
Cotton Fleahopper	4,381,612	901,500	0.179	\$5.30	\$0.95	0.400	39,701
Lygus	1,227,000	178,400	0.033	\$8.29	\$0.27	0.108	10,748
Cotton Leafperforator	390,000	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	431,500	29,800	0.009	\$9.87	\$0.09	0.057	5,685
Thrips, early season	4,644,612	738,800	0.146	\$5.76	\$0.84	0.503	50,009
Beet Armyworm	4,176,034	2,471,200	0.797	\$14.48	\$11.54	6.158	611,698
Fall Armyworm	134,877	7,800	0.001	\$7.09	\$0.01	0.001	88
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	270,745	40,330	0.007	\$6.81	\$0.05	0.018	1,758
Grasshoppers	210,000	49,000	0.010	\$6.84	\$0.07	0.023	2,283
Salt-marsh Caterpillars	199,800	1,500	0.000	\$6.70	\$0.00	0.000	0
Aphids	4,395,262	1,847,485	0.428	\$7.73	\$3.31	0.519	51,545
Bandedwinged Whitefly	1,143,700	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	253,600	7,640	0.001	\$16.15	\$0.02	0.002	226
Soybean Loopers	48,300	800	0.000	\$10.75	\$0.00	0.000	0
Cabbage Loopers	2,308,720	301,400	0.055	\$12.74	\$0.70	0.061	6,099
Western Flower Thrips	3,602,330	1,000	0.000	\$4.90	\$0.00	0.000	10
Cutworms	189,000	35,000	0.006	\$7.87	\$0.05	0.002	175

Percent Lost	16.20	Est. yield/acre	377	Cost/ Acre	
Total Acres	5,486,612	Spray applications	3.724	Foliar insecticide	\$33.35
Total Bales lost	1,608,986	Cost + loss	\$722,764,741	At planting	\$2.06
Bales lost in dollars	\$463,387,962	Cost + loss/acre	\$131.73	Bt use fees	\$2.47
				Eradication	\$7.69
				Scouting	\$1.71
				Total	\$47.27

Table 23a. Texas - Upper Coastal Bend.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	% red	Bales lost
Boll weevil	258,275	250,000	5.808	\$6.26	\$36.36	7.000	37,665
Bollworm/budworm	258,275	103,310	0.400	\$9.90	\$3.96	1.000	5,381
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	258,275	200,000	0.774	\$4.76	\$3.69	0.000	0
Lygus	200,000	70,000	0.271	\$8.15	\$2.21	0.774	4,167
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	258,275	120,000	0.697	\$6.50	\$4.53	3.000	16,142
Beet Armyworm	50,000	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	46,490	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	82,645	21,000	0.081	\$6.70	\$0.54	0.320	1,722
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	25,800	500	0.002	\$6.70	\$0.01	0.000	0
Aphids	258,275	129,138	0.500	\$7.00	\$3.50	1.000	5,381
Bandedwinged Whitefly	64,500	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	22,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	24,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	280,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	103,000	6,000	0.023	\$6.55	\$0.15	0.000	0

Percent Lost	13.09	Est. yield/acre	625	Cost/ Acre	
Total Acres	258,275	Spray applications	8.557	Foliar insecticide	\$54.95
Total Bales lost	70,457	Cost + loss	\$39,739,985	At planting	\$6.35
Bales lost in dollars	\$20,291,670	Cost + loss/acre	\$153.87	Bt use fees	\$8.30
				Eradication	\$0.00
				Scouting	\$5.70
				Total	\$75.30

Table 23b. Texas - Lower Coastal Bend.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	343,203	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	381,337	222,447	0.583	\$9.90	\$5.78	1.000	7,945
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	381,337	286,000	0.750	\$4.76	\$3.57	0.000	0
Lygus	10,000	1,000	0.003	\$8.15	\$0.02	0.000	0
Cotton Leafperforator	25,000	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	200,000	5,000	0.013	\$9.30	\$0.12	0.524	4,167
Thrips, early season	381,337	228,800	0.600	\$6.50	\$3.90	3.000	23,834
Beet Armyworm	152,534	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	53,387	1,800	0.005	\$7.40	\$0.03	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	52,000	18,000	0.047	\$6.70	\$0.32	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	19,500	1,000	0.003	\$6.70	\$0.02	0.000	0
Aphids	381,337	205,922	1.080	\$7.00	\$7.56	4.000	31,778
Bandedwinged Whitefly	12,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	11,000	500	0.001	\$8.20	\$0.01	0.000	0
Cabbage Loopers	15,000	1,000	0.003	\$8.20	\$0.02	0.000	0
Western Flower Thrips	19,830	0	0.000	N/A	\$0.00	0.000	0
Cutworms	46,000	11,000	0.029	\$6.55	\$0.19	0.000	0

Percent Lost	8.52
Total Acres	381,337
Total Bales lost	67,723
Bales lost in dollars	\$19,504,176

Est. yield/acre	728
Spray applications	3.116
Cost + loss	\$39,975,748
Cost + loss/acre	\$104.83

	Cost/ Acre
Foliar insecticide	\$21.54
At planting	\$1.27
Bt use fees	\$2.96
Eradication	\$23.14
Scouting	\$4.77
Total	\$53.68

Table 23c. Texas - Northern Rolling Plains.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	280,000	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	60,000	48,000	0.136	\$7.90	\$1.07	0.522	3,000
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	60,000	45,000	0.098	\$4.90	\$0.48	0.078	450
Lygus	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	10,000	2,000	0.005	\$9.10	\$0.04	0.022	125
Thrips, early season	90,000	30,000	0.072	\$4.10	\$0.29	0.010	56
Beet Armyworm	110,000	80,000	0.209	\$11.68	\$2.44	1.196	6,875
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	5,000	500	0.001	\$8.84	\$0.01	0.001	6
Grasshoppers	42,000	28,000	0.067	\$7.30	\$0.49	0.274	1,575
Salt-marsh Caterpillars	2,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	70,000	26,000	0.085	\$7.52	\$0.64	0.076	438
Bandedwinged Whitefly	2,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	2,000	400	0.001	\$15.55	\$0.01	0.001	5
Western Flower Thrips	10,000	1,000	0.002	\$4.90	\$0.01	0.002	10
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	2.18
Total Acres	460,000
Total Bales lost	12,540
Bales lost in dollars	\$3,611,520

Est. yield/acre	175
Spray applications	0.675
Cost + loss	\$11,681,440
Cost + loss/acre	\$25.39

	Cost/ Acre
Foliar insecticide	\$5.49
At planting	\$0.19
Bt use fees	\$1.24
Eradication	\$10.30
Scouting	\$0.33
Total	\$17.54

Table 23d. Texas - High Plains.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	% red	Bales lost
Boll weevil	1,840,000	1,475,000	2.205	\$7.25	\$15.99	10.698	654,063
Bollworm/budworm	3,010,000	600,000	0.159	\$11.50	\$1.83	1.000	61,141
Pink Bollworm	50,000	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	2,500,000	50,000	0.017	\$5.50	\$0.09	0.415	25,391
Lygus	900,000	50,000	0.017	\$9.75	\$0.16	0.075	4,570
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	100,000	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	3,010,000	225,000	0.075	\$5.00	\$0.37	0.100	6,114
Beet Armyworm	3,010,000	2,317,700	1.386	\$14.50	\$20.10	9.500	580,836
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	75,000	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	150,000	0	0.000	N/A	\$0.00	0.000	0
Aphids	3,010,000	1,384,600	0.552	\$8.00	\$4.42	0.200	12,228
Bandedwinged Whitefly	1,000,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	300	300	0.000	\$15.00	\$0.00	0.000	0
Cabbage Loopers	2,000,000	300,000	0.100	\$12.75	\$1.27	0.100	6,094
Western Flower Thrips	3,010,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	22.09
Total Acres	3,010,000
Total Bales lost	1,350,436
Bales lost in dollars	\$388,925,550

Est. yield/acre	366
Spray applications	4.510
Cost + loss	\$555,453,555
Cost + loss/acre	\$184.54

	Cost/ Acre
Foliar insecticide	\$44.23
At planting	\$2.64
Bt use fees	\$1.84
Eradication	\$5.18
Scouting	\$1.42
Total	\$55.32

Table 23e. Texas - Far West.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	% red	Bales lost
Boll weevil	550,700	6,670	0.010	\$3.00	\$0.03	0.080	630
Bollworm/budworm	103,000	33,200	0.082	\$13.01	\$1.07	0.435	3,416
Pink Bollworm	261,000	16,700	0.056	\$9.34	\$0.52	0.722	5,672
Cotton Fleahopper	563,000	7,500	0.019	\$9.20	\$0.17	0.820	6,439
Lygus	42,000	26,400	0.038	\$8.00	\$0.31	0.141	1,105
Cotton Leafperforator	300,000	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	241,000	30,000	0.044	\$7.00	\$0.31	0.000	0
Beet Armyworm	532,500	30,500	0.089	\$17.90	\$1.59	2.945	23,144
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	8,600	830	0.001	\$10.78	\$0.01	0.004	30
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	2,500	0	0.000	N/A	\$0.00	0.000	0
Aphids	46,650	10,825	0.024	\$8.00	\$0.19	0.024	192
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	9,600	2,640	0.004	\$24.00	\$0.09	0.029	226
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	6,720	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	32,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	5.20
Total Acres	687,000
Total Bales lost	40,854
Bales lost in dollars	\$11,765,904

Est. yield/acre	176
Spray applications	0.366
Cost + loss	\$22,640,321
Cost + loss/acre	\$32.96

	Cost/ Acre
Foliar insecticide	\$4.29
At planting	\$0.32
Bt use fees	\$2.89
Eradication	\$8.04
Scouting	\$0.29
Total	\$15.83

Table 23f. Texas - Lower Rio Grande Valley.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	244,000	224,000	5.508	\$8.00	\$44.07	3.800	15,453
Bollworm/budworm	244,000	25,000	0.102	\$11.00	\$1.13	0.020	81
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	244,000	180,000	0.738	\$6.15	\$4.54	0.020	81
Lygus	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Leafperforator	35,000	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	25,000	2,000	0.008	\$8.00	\$0.07	0.000	0
Thrips, early season	244,000	0	0.000	N/A	\$0.00	0.000	0
Beet Armyworm	220,000	30,000	0.122951	\$14.00	\$1.72	0.036	147
Fall Armyworm	5,000	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	244,000	70,000	0.287	\$7.00	\$2.01	0.020	81
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	244,000	5,000	0.020	\$12.00	\$0.25	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	244,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	244,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	10,000	10,000	0.041	\$10.00	\$0.41	0.000	0

Percent Lost	3.90
Total Acres	244,000
Total Bales lost	15,844
Bales lost in dollars	\$4,563,072

Est. yield/acre	491
Spray applications	6.828
Cost + loss	\$18,091,172
Cost + loss/acre	\$74.14

	Cost/ Acre
Foliar insecticide	\$54.18
At planting	\$0.00
Bt use fees	\$0.00
Eradication	\$0.00
Scouting	\$1.26
Total	\$55.44

Table 23g. Texas - Southern Rolling Plains.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	165,000	4,000	0.024	\$11.50	\$0.28	1.000	1,818
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	165,000	5,000	0.030	\$7.00	\$0.21	1.000	1,818
Lygus	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Leafperforator	30,000	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	165,000	0	0.000	N/A	\$0.00	0.000	0
Beet Armyworm	50,000	3,000	0.018	\$18.00	\$0.33	0.303	551
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	32,500	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	65,000	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	165,000	1,000	0.006	\$9.00	\$0.05	0.000	0
Bandedwinged Whitefly	65,200	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	13,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	6,500	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	2.30
Total Acres	165,000
Total Bales lost	4,188
Bales lost in dollars	\$1,206,120

Est. yield/acre	200
Spray applications	0.079
Cost + loss	\$9,787,620
Cost + loss/acre	\$59.32

	Cost/ Acre
Foliar insecticide	\$0.87
At planting	\$0.00
Bt use fees	\$3.53
Eradication	\$45.33
Scouting	\$2.27
Total	\$52.01

Table 23h. Texas - Northern Blacklands.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	143,000	110,000	1.100	\$6.50	\$7.15	1.907	2,979
Bollworm/budworm	51,000	20,000	0.133	\$15.00	\$2.00	0.680	1,063
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	110,000	53,000	0.353	\$4.50	\$1.59	0.733	1,146
Lygus	20,000	1,000	0.007	\$6.50	\$0.04	0.067	104
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	1,500	800	0.005	\$14.00	\$0.07	0.005	8
Thrips, early season	135,000	75,000	0.500	\$4.50	\$2.25	1.800	2,813
Beet Armyworm	1,000	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	10,000	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	68,000	11,000	0.110	\$6.50	\$0.72	0.453	708
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	135,000	8,000	0.053	\$7.00	\$0.37	0.450	703
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	6.10	Est. yield/acre	340	Cost/ Acre	
Total Acres	150,000	Spray applications	2.262	Foliar insecticide	\$14.20
Total Bales lost	9,523	Cost + loss	\$6,294,200	At planting	\$4.80
Bales lost in dollars	\$2,742,750	Cost + loss/acre	\$41.96	Bt use fees	\$1.68
				Eradication	\$0.00
				Scouting	\$3.00
				Total	\$23.68

Table 23i. Texas - Southern Blacklands.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	131,000	110,000	3.359	\$7.00	\$23.51	5.000	19,104
Bollworm/budworm	131,000	70,000	1.069	\$9.75	\$10.42	2.500	9,552
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	100,000	75,000	1.145	\$6.00	\$6.87	1.145	4,375
Lygus	55,000	30,000	0.229	\$6.50	\$1.49	0.210	802
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	95,000	20,000	0.305	\$10.00	\$3.05	0.363	1,385
Thrips, early season	120,000	30,000	0.229	\$5.00	\$1.15	0.275	1,050
Beet Armyworm	50,000	10,000	0.076	\$11.00	\$0.84	0.038	146
Fall Armyworm	30,000	6,000	0.046	\$7.00	\$0.32	0.023	88
European Corn Borer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	5,000	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	35,000	10,000	0.076	\$6.00	\$0.46	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	85,000	12,000	0.092	\$7.50	\$0.69	0.195	744
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	15,000	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	4,000	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	30,000	8,000	0.061	\$8.00	\$0.49	0.046	175

Percent Lost	9.79	Est. yield/acre	955	Cost/ Acre	
Total Acres	131,000	Spray applications	6.687	Foliar insecticide	\$49.28
Total Bales lost	37,421	Cost + loss	\$19,100,700	At planting	\$1.43
Bales lost in dollars	\$10,777,200	Cost + loss/acre	\$145.81	Bt use fees	\$10.08
				Eradication	\$0.00
				Scouting	\$2.75
				Total	\$63.54

Table 24. Virginia Summary.

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll weevil	0	0	0.000	N/A	\$0.00	0.000	0
Bollworm/budworm	106,000	106,000	1.981	\$11.00	\$21.79	0.857	1,530
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	0	0	0.000	N/A	\$0.00	0.000	0
Lygus	16,050	1,000	0.009	\$11.00	\$0.10	0.043	77
Cotton Leafperforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.000	0
Thrips, early season	107,000	93,500	1.311	\$5.50	\$7.21	1.154	2,060
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
European Corn Borer	1,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	1,070	0	0.000	N/A	\$0.00	0.000	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Salt-marsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	26,750	300	0.003	\$16.00	\$0.04	0.000	0
Bandedwinged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	0	0	0.000	N/A	\$0.00	0.000	0

Percent Lost	2.05
Total Acres	107,000
Total Bales lost	3,667
Bales lost in dollars	\$1,056,201

Est. yield/acre	800
Spray applications	3.304
Cost + loss	\$6,808,526
Cost + loss/acre	\$63.63

	Cost/ Acre
Foliar insecticide	\$29.15
At planting	\$11.78
Bt use fees	\$7.20
Eradication	\$3.25
Scouting	\$2.38
Total	\$53.76