

COTTON INSECT LOSSES - 2005
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Abstract

Arthropod pests reduced overall yield by 4.47% in 2005. There were 14.5 million acres of cotton planted in 2005, but only 13.9 million acres harvested. Oklahoma at 13.3% reported the greatest percentage loss to insects in 2005. The bollworm/budworm complex was the top pest of 2005 taking 1.50% of the 2005 crop. Almost 83% of the US crop was infested with the complex of which 95% were bollworms. *Lygus* at 0.90% were the 2nd most damaging pest. Fifty-three percent (53%) of US cotton acres was infested by *Lygus*. Stink bugs were third at 0.64% and Thrips were fourth at 0.43% reduction and infested 91% of US cotton acres. Spider mites (5th) reduced yields by 0.35% while infesting 5.151 million US acres. Cotton fleahoppers (0.18%) were 6th, aphids (0.13%) were 7th and fall armyworms (0.11%) were 8th most damaging pests. Silverleaf whiteflies (*Bemisia* sp) at 0.08% were 9th and boll weevils were 10th at 0.049%, edging pink bollworm into 11th at 0.045%. No other pest exceeded 0.03% reduction. Total cost of management and loss to insects to the 2005 crop was \$1.256 billion or \$88.01 per acre. Of those costs approximately \$57 are direct insect management costs.

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Background and explanation of tables

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

The Cotton Insect Losses Estimates are a simple attempt to arrive at the average cost of control of cotton arthropod pests. We attempt to arrive at the most accurate estimate possible for arthropod management activities, but have also added 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			Cotton Insect Losses 2005		
State	Upland Cotton		Cotton yields in pounds lint per acre			
	Acres planted	Acres harvested	Est. Yield*	December	January	2004
Alabama	550,000	545,000	777	766	749	724
Arizona	244,000	243,000	1,369	1,300	1,300	1,451
Arkansas	1,050,000	1,040,000	983	1,011	1,011	1,114
California	665,000	659,000	1,252	1,238	1,178	1,540
Florida	86,000	85,000	675	700	728	601
Georgia	1,220,000	1,210,000	850	853	853	674
Kansas	75,000	70,000	560	617	655	424
Louisiana	610,000	600,000	925	896	896	867
Mississippi	1,200,000	1,180,000	855	879	864	1,024
Missouri	440,000	435,000	988	988	970	1,054
New Mexico	66,000	62,000	864	937	941	850
North Carolina	815,000	810,000	827	830	847	900
Oklahoma	240,000	220,000	800	764	730	727
South Carolina	265,000	263,000	840	785	761	875
Tennessee	640,000	635,000	800	862	847	900
Texas	5,925,000	5,524,000	699	708	716	695
Virginia	93,000	92,000	940	835	956	956
total US	14,184,000	13,673,000	819	832	824	855
Pima						
Arizona	4,000	4,000		960	937	896
California	230,000	226,000		1,274	1,216	1,532
New Mexico	11,000	11,000		916	918	869
Texas	25,000	24,000		900	900	890
total US	270,000	265,000		1,221	1,171	1,443
TOTAL US	14,454,000	13,938,000		839	831	831

From USDA/NASS January 2006

Agricultural Statistical Service

*estimates from Losses Coordinators

Table 1a		USDA Cotton Production			Cotton Insect Losses 2005	
State	Area Planted			Area Harvested		
	2003	2004	2005	2003	2004	2005
<u>Upland</u>						
Alabama	525,000	550,000	550,000	510,000	540,000	545,000
Arizona	215,000	240,000	244,000	213,000	238,000	243,000
Arkansas	980,000	910,000	1,050,000	945,000	900,000	1,040,000
California	550,000	560,000	665,000	545,000	557,000	659,000
Florida	94,000	89,000	86,000	92,000	87,000	85,000
Georgia	1,300,000	1,290,000	1,220,000	1,290,000	1,280,000	1,210,000
Kansas	90,000	85,000	75,000	80,000	80,000	70,000
Louisiana	525,000	500,000	610,000	510,000	490,000	600,000
Mississippi	1,110,000	1,100,000	1,200,000	1,090,000	1,100,000	1,180,000
Missouri	400,000	380,000	440,000	390,000	378,000	435,000
New Mexico	56,000	68,000	66,000	42,000	64,000	62,000
North Carolina	810,000	730,000	815,000	770,000	725,000	810,000
Oklahoma	180,000	220,000	240,000	170,000	200,000	220,000
South Carolina	220,000	215,000	265,000	218,000	214,000	263,000
Tennessee	560,000	530,000	640,000	530,000	525,000	635,000
Texas	5,600,000	5,850,000	5,925,000	4,400,000	5,350,000	5,524,000
Virginia	89,000	82,000	93,000	85,000	81,000	92,000
total US	13,304,000	13,409,000	14,184,000	11,880,000	12,809,000	13,673,000
<u>Pima</u>						
Arizona	3,000	3,000	4,000	3,000	3,000	4,000
California	150,000	215,000	230,000	149,000	214,000	226,000
New Mexico	6,100	10,600	11,000	6,000	10,500	11,000
Texas	20,000	21,000	25,000	20,000	20,500	24,000
total US	179,100	249,600	270,000	178,000	248,000	265,000

From USDA/NASS January 2006

Agricultural Statistical Service

Table 2	At Planting Insecticide Applications		Cotton insect Losses - 2005	
States	Acres treated	Weighted Cost/ all acres	Cost/ treated acre	Total Cost
North Alabama	268,000	\$12.41	\$12.50	\$3,350,000
South Alabama	78,000	\$10.73	\$11.00	\$858,000
Central Alabama	260,000	\$10.68	\$11.50	\$2,990,000
Arizona - Bt Cotton	20,000	\$0.79	\$7.00	\$140,000
Arizona - nonBt Cotton	6,000	\$0.77	\$8.00	\$48,000
Southeast Arkansas	398,000	\$9.90	\$11.00	\$4,378,000
Northeast Arkansas	485,000	\$8.66	\$10.50	\$5,092,500
California	350,000	\$2.63	\$5.00	\$1,750,000
Florida	90,000	\$8.80	\$8.80	\$792,000
Georgia - Bt cotton	970,000	\$9.02	\$10.00	\$9,700,000
Georgia - nonBt cotton	120,000	\$8.89	\$10.00	\$1,200,000
Kansas	0	\$0.00	\$5.00	\$0
Louisiana -Bt cotton	520,000	\$8.19	\$8.50	\$4,420,000
Louisiana -nonBt cotton	80,000	\$8.50	\$8.50	\$680,000
Mississippi - Hills Bt cotton	275,500	\$8.55	\$9.00	\$2,479,500
Mississippi - Hills nonBt	66,500	\$8.55	\$9.00	\$598,500
Mississippi - Delta Bt cotton	71,250	\$8.55	\$9.00	\$641,250
Mississippi - Delta nonBt	726,750	\$8.55	\$9.00	\$6,540,750
Missouri	21,500	\$0.32	\$6.50	\$139,750
New Mexico	48,000	\$2.14	\$3.00	\$144,000
North Carolina- Bt cotton	697,000	\$14.21	\$14.80	\$10,315,600
North Carolina - nonBt Cotton	76,800	\$14.21	\$14.80	\$1,136,640
Oklahoma	158,000	\$4.39	\$6.75	\$1,066,500
South Carolina	265,000	\$15.00	\$15.00	\$3,975,000
Tennessee	572,880	\$8.56	\$9.20	\$5,270,496
Texas Lower Rio Grande Valley	37,326	\$1.05	\$5.25	\$195,962
Texas Northern Blacklands	58,000	\$6.77	\$7.00	\$406,000
Texas High Plains	700,000	\$2.02	\$10.00	\$7,000,000
Texas Southern Blacklands	100,000	\$9.44	\$11.00	\$1,100,000
Texas Far West	25,000	\$0.27	\$5.00	\$125,000
Texas Northern Rolling Plains	25,000	\$0.27	\$5.40	\$135,000
Texas Southern Rolling Plains	85,070	\$1.32	\$7.00	\$595,490
Texas Lower Coastal Bend	173,554	\$9.28	\$11.25	\$1,952,483
Texas Upper Coastal Bend	201,427	\$3.77	\$9.85	\$1,984,056
Virginia	93,000	\$12.00	\$12.00	\$1,116,000
Allstates	8,122,557	\$5.77	\$10.13	\$82,316,476

Cotton Insect Losses-2005

State	Number Acres	Cost/ treated Acre	Wt cost/all acres	Total Cost
North Alabama	270,000	\$4.00	\$4.00	\$1,080,000
South Alabama	80,000	\$4.50	\$4.50	\$360,000
Central Alabama	280,000	\$4.50	\$4.50	\$1,260,000
Arizona -Bt Cotton	62,000	\$0.75	\$0.26	\$46,500
Arizona - nonBt Cotton	177,000	\$0.75	\$2.14	\$132,750
Southeast Arkansas	442,000	\$12.00	\$12.00	\$5,304,000
Northeast Arkansas	558,000	\$18.00	\$17.08	\$10,044,000
California	0	\$0.00	\$0.00	\$0
Florida	90,000	\$5.00	\$5.00	\$450,000
Georgia - Bt cotton	1,075,000	\$3.00	\$3.00	\$3,225,000
Georgia - nonBt cotton	135,000	\$3.00	\$3.00	\$405,000
Kansas	0	\$0.00	\$0.00	\$0
Louisiana -Bt cotton	540,000	\$10.00	\$10.00	\$5,400,000
Louisiana -nonBt cotton	80,000	\$10.00	\$10.00	\$800,000
Mississippi - Hills Bt cotton	290,000	\$12.00	\$12.00	\$3,480,000
Mississippi - Hills nonBt cotton	70,000	\$12.00	\$12.00	\$840,000
Mississippi - Delta Bt cotton	765,000	\$8.00	\$8.00	\$6,120,000
Mississippi - Delta nonBt cotton	75,000	\$8.50	\$8.50	\$637,500
Missouri	445,250	\$12.50	\$12.65	\$5,565,625
New Mexico	67,255	\$11.63	\$11.63	\$782,176
North Carolina- Bt cotton	726,000	\$3.50	\$3.50	\$2,541,000
North Carolina - nonBt Cotton	80,000	\$3.50	\$3.50	\$280,000
Oklahoma	230,980	\$15.50	\$14.73	\$3,580,190
South Carolina	265,000	\$5.00	\$5.00	\$1,325,000
Tennessee - Bt cotton	616,000	\$9.80	\$9.80	\$6,036,800
Texas Lower Rio Grande Valley	186,628	\$16.80	\$16.80	\$3,135,350
Texas Northern Blacklands	60,000	\$13.25	\$13.25	\$795,000
Texas High Plains	3,460,000	\$8.00	\$8.00	\$27,680,000
Texas Southern Blacklands	116,510	\$15.00	\$15.00	\$1,747,650
Texas Far West	467,000	\$5.89	\$6.02	\$2,750,630
Texas Northern Rolling Planins	500,000	\$11.00	\$11.00	\$5,500,000
Texas Southern Rolling Plains	451,774	\$5.75	\$5.75	\$2,597,701
Texas Lower Coastal Bend	210,369	\$20.20	\$20.20	\$4,249,454
Texas Upper Coastal Bend	525,920	\$23.14	\$23.14	\$12,169,789
Virginia	93,000	\$4.35	\$4.35	\$404,550
Total US - Boll Weevil	13,490,686	\$8.95	\$8.46	\$120,725,664
Arizona Pink Bollworm	0	\$0.00	\$0.00	\$0
California Pink Bollworm	665,838	\$5.22	\$5.22	\$3,475,674
New Mexico Pink Bollworm	17,286	\$6.98	\$1.79	\$120,656
West Texas Pink Bollworm	47,000	\$10.00	\$1.03	\$470,000
Total US - Pink Bollworm	730,124	\$5.57	\$0.28	\$4,066,331
Total US - Insect Eradication	14,220,810	\$8.78	\$8.75	\$124,791,995

State	Number acres	Bt cost/Acre	Average/ all Acres	Total Cost	% Population Bollworm	Acres Bt cotton sprayed	# bollworm appli. to Bt
Alabama, North	190,000	\$15.00	\$10.56	\$2,850,000	85	230,000	1.00
Alabama, South	56,000	\$27.00	\$18.90	\$1,512,000	80	10,000	1.00
Alabama, Central	224,000	\$25.00	\$20.00	\$5,600,000	60	112,000	1.00
Arizona, BT	177,000	\$34.00	\$25.18	\$6,018,000	90	3,684	0.01
Arizona, nonBt	0	\$0.00	\$0.00	\$0	90	3,684	0.01
Arkansas, Southeast	320,000	\$28.00	\$20.27	\$8,960,000	95	331,500	1.70
Arkansas, Northeast	446,000	\$22.00	\$16.69	\$9,812,000	95	300,000	1.00
California	30,000	\$9.00	\$0.41	\$270,000	100	0	0.00
Florida	76,300	\$24.00	\$20.35	\$1,831,200	80	3,400	1.00
Georgia, Bt	1,075,000	\$19.00	\$16.88	\$20,425,000	100	500,000	1.20
Georgia, non-Bt	0	\$0.00	\$0.00	\$0	50	0	0.00
Kansas	0	\$0.00	\$0.00	\$0	100	0	0.00
Louisiana, Bt	520,000	\$12.50	\$10.48	\$6,500,000	100	175,000	0.80
Louisiana - nonBt	0	\$0.00	\$0.00	\$0	75	0	0.00
Mississippi, Hills Bt	290,000	\$21.00	\$16.92	\$6,090,000	95	0	0.00
Mississippi, Hills nonBt	0	\$0.00	\$0.00	\$0	85	0	0.00
Mississippi, Delta Bt	765,000	\$22.00	\$20.04	\$16,830,000	95	617,737	1.00
Mississippi, Delta nonBt	0	\$0.00	\$0.00	\$0	85	139,200	1.00
Missouri	150,000	\$17.25	\$5.88	\$2,587,500	95	5,000	1.00
New Mexico	14,200	\$22.00	\$4.65	\$312,400	100	2,700	1.00
North Carolina, Bt	726,000	\$20.00	\$18.01	\$14,520,000	95	0	0.00
North Carolina, nonBt	0	\$0.00	\$0.00	\$0	100	72,000	1.40
Oklahoma	90,606	\$17.00	\$6.34	\$1,540,302	89	11,778	1.00
South Carolina	225,250	\$18.50	\$15.73	\$4,167,125	98	225,250	1.00
Tennessee	585,500	\$16.00	\$7.60	\$9,368,000	92	105,000	1.10
Texas Lower Rio Grande Valley	89,581	\$30.00	\$14.40	\$2,687,430	95	0	0.00
Texas Northern Blacklands	50,000	\$21.00	\$17.50	\$1,050,000	85	0	0.00
Texas High Plains	449,800	\$20.00	\$2.60	\$8,996,000	99	32,000	1.00
Texas Southern Blacklands	98,000	\$18.00	\$15.14	\$1,764,000	85	6,000	1.00
Texas Far West	160,195	\$14.00	\$4.91	\$2,242,730	100	5,000	1.00
Texas Northern Rolling Plains	100,000	\$10.00	\$2.00	\$1,000,000	99	5,000	1.00
Texas Southern Rolling Plains	185,887	\$11.00	\$4.53	\$2,044,757	96	5,000	1.00
Texas Lower Coastal Bend	91,153	\$14.00	\$6.07	\$1,276,142	93	56,799	1.00
Texas Upper Coastal Bend	126,221	\$13.80	\$3.31	\$1,741,850	89	75,621	1.00
Virginia	83,700	\$22.00	\$19.80	\$1,841,400	90	16,740	0.90
Total US	7,395,393	\$19.17	\$10.08	\$141,753,211	95	3,050,093	0.54

Table 5

Insecticide Applications: Type and Cost

Cotton Insect Losses – 2005

State	% Acres treated by Air	Acres treated by air	Cost/ Acre by air	Total cost application air	% Acres treated by ground	Acres treated by ground	Cost/ Acre by ground	Total cost application ground
Alabama, North	35	94,500	\$3.50	\$330,750	80	216,000	\$3.45	\$745,200
Alabama, South	15	12,000	\$4.00	\$48,000	75	60,000	\$2.75	\$165,000
Alabama, Central	20	56,000	\$4.00	\$224,000	80	224,000	\$3.00	\$672,000
Arizona, BT	83	147,494	\$6.00	\$884,965	38	23,560	\$7.50	\$176,700
Arizona, nonBt	82	50,927	\$6.00	\$305,561	37	65,490	\$7.50	\$491,175
Arkansas, Southeast	90	397,800	\$4.50	\$1,790,100	80	353,600	\$4.00	\$1,414,400
Arkansas, Northeast	90	529,200	\$4.00	\$2,116,800	90	529,200	\$3.00	\$1,587,600
California	75	499,373	\$6.00	\$2,996,235	80	532,664	\$7.50	\$3,994,980
Florida	30	27,000	\$4.75	\$128,250	65	58,500	\$5.25	\$307,125
Georgia, Bt	45	483,750	\$4.50	\$2,176,875	80	860,000	\$3.50	\$3,010,000
Georgia, non-Bt	45	60,750	\$4.50	\$273,375	80	108,000	\$3.50	\$378,000
Kansas	15	12,750	\$4.50	\$57,375	25	21,250	\$4.25	\$90,313
Louisiana, Bt	90	486,000	\$3.65	\$1,773,900	100	540,000	\$2.25	\$1,215,000
Louisiana - nonBt	100	80,000	\$3.60	\$288,000	100	80,000	\$2.25	\$180,000
Mississippi, Hills Bt	30	87,000	\$4.00	\$348,000	70	535,500	\$3.00	\$1,606,500
Mississippi, Hills nonBt	30	21,000	\$3.50	\$73,500	70	535,500	\$3.00	\$1,606,500
Mississippi, Delta Bt	60	459,000	\$3.50	\$1,606,500	40	306,000	\$3.00	\$918,000
Mississippi, Delta nonBt	60	45,000	\$3.50	\$157,500	40	116,000	\$3.00	\$348,000
Missouri	10	44,000	\$4.00	\$176,000	80	352,000	\$2.50	\$880,000
New Mexico	85	57,167	\$15.30	\$874,651	34	22,867	\$8.00	\$182,934
North Carolina, Bt	15	12,000	\$5.00	\$60,000	90	72,000	\$2.50	\$180,000
North Carolina, nonBt	15	108,900	\$5.00	\$544,500	90	653,400	\$2.50	\$1,633,500
Oklahoma	55	133,640	\$3.50	\$467,740	45	109,342	\$3.50	\$382,697
South Carolina	30	79,500	\$6.00	\$477,000	70	185,500	\$5.00	\$927,500
Tennessee	20	123,200	\$3.75	\$462,000	90	554,400	\$3.25	\$1,801,800
Texas Lower Rio Grande Valley	80	149,302	\$3.50	\$522,558	100	186,628	\$2.50	\$466,570
Texas Northern Blacklands	60	36,000	\$4.25	\$153,000	40	24,000	\$4.00	\$96,000
Texas High Plains	45	1,557,000	\$4.00	\$6,228,000	65	2,249,000	\$3.50	\$7,871,500
Texas Southern Blacklands	25	29,128	\$4.50	\$131,074	91	106,024	\$3.50	\$371,084
Texas Far West	18	82,260	\$4.62	\$380,041	5	22,850	\$3.43	\$78,376
Texas Northern Rolling Plains	5	25,000	\$4.00	\$100,000	50	250,000	\$4.00	\$1,000,000
Texas Southern Rolling Plains	25	112,944	\$4.50	\$508,246	55	248,476	\$4.50	\$1,118,141
Texas Lower Coastal Bend	18	36,815	\$4.00	\$147,258	82	172,503	\$2.00	\$345,005
Texas Upper Coastal Bend	20	105,184	\$3.95	\$415,477	80	420,736	\$2.00	\$841,472
Virginia	7	6,510	\$6.50	\$42,315	93	86,490	\$4.19	\$361,961
Total US	44	6,248,092	\$4.36	\$27,269,546	82	10,881,479	\$3.44	\$37,445,031

2006 Beltwide Cotton Conferences, San Antonio, Texas - January 3 - 6, 2006

2006 Beltwide Cotton Conferences, San Antonio, Texas - January 3 - 6, 2006

State	Cotton Insect Monitoring Costs			Cotton Insect Losses-2005	
	Acres	Times per	wt Avg Cost	Cost per	Total
	Scouted	Scouted	over all acres	scouted acre	Cost
Alabama, North	225,000	1.10	\$4.79	\$5.75	\$1,293,750
Alabama, South	48,000	1.00	\$3.30	\$5.50	\$264,000
Alabama, Central	150,000	1.10	\$4.02	\$7.50	\$1,125,000
Arizona, BT	170,000	1.70	\$9.60	\$10.00	\$1,700,000
Arizona, nonBt	59,000	1.80	\$9.75	\$10.25	\$604,750
Arkansas, Southeast	420,000	1.50	\$8.08	\$8.50	\$3,570,000
Arkansas, Northeast	445,000	1.00	\$5.49	\$7.25	\$3,226,250
California	600,000	1.00	\$7.21	\$8.00	\$4,800,000
Florida	69,300	1.20	\$7.12	\$9.25	\$641,025
Georgia, Bt	750,000	1.10	\$5.58	\$8.00	\$6,000,000
Georgia, non-Bt	90,000	1.50	\$5.67	\$8.50	\$765,000
Kansas	40	2.00	\$0.00	\$8.00	\$320
Louisiana, Bt	510,000	1.80	\$9.21	\$9.75	\$4,972,500
Louisiana - nonBt	78,000	1.80	\$9.51	\$9.75	\$760,500
Mississippi, Hills Bt	203,000	1.00	\$5.60	\$8.00	\$1,624,000
Mississippi, Hills nonBt	49,000	1.00	\$5.25	\$7.50	\$367,500
Mississippi Delta Bt	688,500	1.50	\$6.75	\$7.50	\$5,163,750
Mississippi, Delta nonBt	67,500	1.50	\$6.75	\$7.50	\$506,250
Missouri	396,000	1.00	\$4.59	\$5.10	\$2,019,600
New Mexico	41,500	1.00	\$5.40	\$8.75	\$363,125
North Carolina, Bt	545,000	1.00	\$5.63	\$7.50	\$4,087,500
North Carolina, nonBt	60,000	1.20	\$5.63	\$7.50	\$450,000
Oklahoma	145,000	1.00	\$2.57	\$4.30	\$623,500
South Carolina	259,000	1.50	\$8.31	\$8.50	\$2,201,500
Tennessee	431,000	1.20	\$5.25	\$7.50	\$3,232,500
Texas Lower Rio Grande Valley	167,965	1.00	\$4.95	\$5.50	\$923,808
Texas Northern Blacklands	57,000	1.00	\$4.75	\$5.00	\$285,000
Texas High Plains	650,000	1.00	\$1.32	\$7.00	\$4,550,000
Texas Southern Blacklands	100,000	1.00	\$4.72	\$5.50	\$550,000
Texas Far West	15,000	1.00	\$0.24	\$7.40	\$111,000
Texas Northern Rolling Plains	20,000	1.00	\$0.24	\$6.00	\$120,000
Texas Southern Rolling Plains	95,000	1.00	\$1.16	\$5.50	\$522,500
Texas Lower Coastal Bend	178,814	1.70	\$6.80	\$8.00	\$1,430,512
Texas Upper Coastal Bend	416,735	1.20	\$4.68	\$5.90	\$2,458,737
Virginia	5,000	1.50	\$0.46	\$8.50	\$42,500
Total US	8,205,354	1.70	\$4.30	\$7.48	\$61,356,376

Table 7

Summary of all States

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	1,827,734	745,828	0.064	\$7.12	\$0.45	0.049	17,160
Bollworm/Budworm	11,755,012	6,100,075	0.541	\$8.08	\$4.37	1.498	520,778
Pink Bollworm	697,210	93,523	0.020	\$11.34	\$0.22	0.045	15,798
Cotton Fleahopper	4,898,395	1,215,586	0.120	\$5.60	\$0.67	0.180	62,519
Lygus	7,606,972	4,350,090	0.817	\$9.03	\$7.38	0.901	313,194
Cotton Leaf Perforator	337,634	523	0.000	\$17.60	\$0.00	0.000	21
Spider Mites	5,151,075	1,823,141	0.212	\$21.09	\$4.47	0.350	121,871
Thrips	13,038,538	4,463,303	0.355	\$6.30	\$2.24	0.429	149,090
Beet Armyworm	1,694,577	208,083	0.014	\$11.10	\$0.16	0.019	6,599
Fall Armyworm	3,271,879	1,215,116	0.128	\$10.43	\$1.34	0.112	38,980
European Cornborer	213,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	6,628,712	3,704,033	0.394	\$7.88	\$3.10	0.639	222,132
Grasshoppers	886,738	11,325	0.001	\$7.56	\$0.01	0.003	1,066
Saltmarsh Caterpillars	896,735	40,502	0.003	\$7.14	\$0.02	0.001	406
Aphids	10,364,069	2,147,927	0.147	\$9.87	\$1.45	0.127	44,112
Banded Winged Whitefly	948,642	13,000	0.001	\$9.23	\$0.01	0.000	0
Silverleaf Whitefly (Bemisia)	821,497	228,047	0.037	\$27.99	\$1.03	0.082	28,601
Loopers	2,968,962	427,297	0.026	\$10.32	\$0.27	0.008	2,636
Southern Armyworms	279,088	12,130	0.001	\$8.08	\$0.01	0.000	1
Other Insects	656,249	383,738	0.032	\$8.25	\$0.26	0.028	9,857
Cutworms	1,333,455	1,559,196	0.109	\$2.62	\$0.29	0.001	251

Percent Lost	4.47
Total Acres	14,268,268
Total Bales lost	1,555,072
Bales lost in dollars	\$447,860,728

Est. yield/acre	828
Spray applications	3.019
Cost + loss	\$1,255,787,271
Cost + loss/acre	\$88.01

	Cost/ Acre
Foliar insecticide	\$27.73
At planting	\$5.77
Bt use fees	\$10.08
Eradication	\$8.75
Scouting	\$4.30
Total	\$56.62

Table 8		Summary Alabama			Cotton Insect Losses – 2005		
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	0.00	0
Bollworm/Budworm	630,000	325,000	0.542	\$7.00	\$3.79	2.39	35,892
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	10,000	0	0.000	N/A	0.00	0.00	0
Lygus	610,000	250,000	0.697	\$6.35	\$4.42	1.02	15,396
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	225,000	95,000	0.181	\$12.00	\$2.17	0.34	5,146
Thrips	630,000	162,000	0.302	\$4.17	\$1.26	0.78	11,760
Beet Armyworm	5,000	1,000	0.002	\$15.00	\$0.02	0.00	0
Fall Armyworm	220,000	5,000	0.008	\$15.00	\$0.12	0.15	2,302
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	560,000	332,000	1.127	\$6.98	\$7.87	2.39	35,917
Grasshoppers	35,000	5,000	0.008	\$6.75	\$0.05	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	560,000	18,000	0.029	\$10.19	\$0.29	0.04	542
Banded Winged Whitefly	4,000	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemisia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	70,000	5,000	0.008	\$14.00	\$0.11	0.00	0
Southern Armyworms	168,000	10,000	0.016	\$8.00	\$0.13	0.00	0
Leaf Footed Bug	127,000	20,000	0.032	\$7.00	\$0.22	0.08	1,225
Cutworms	67,000	66,000	0.105	\$2.24	\$0.23	0.00	0
Percent Lost		7.20		Est. yield/acre		777	
Total Acres		630,000		Spray applications		3.055	
Total Bales lost		108,179		Cost + loss		\$66,736,900	
Bales lost in dollars		\$31,155,600		Cost + loss/acre		\$105.93	
						Cost/ Acre	
						Foliar insecticide	
						At planting	
						Bt use fees	
						Eradication	
						Scouting	
						Total	

Table 8a

Alabama North

Cotton Insect Losses – 2005

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	270,000	165,000	0.672	\$5.40	\$3.63	2.800	20,475
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	270,000	210,000	1.478	\$6.30	\$9.31	1.500	10,969
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	190,000	95,000	0.422	\$12.00	\$5.07	0.704	5,146
Thrips	270,000	140,000	0.622	\$4.00	\$2.49	1.500	10,969
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.000	0
Fall Armyworm	170,000	0	0.000	N/A	\$0.00	0.315	2,302
European Cornborer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	200,000	20,000	0.074	\$6.30	\$0.47	0.074	542
Grasshoppers	0	0	0.000	N/A	\$0.00	0.000	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	200,000	10,000	0.037	\$10.50	\$0.39	0.074	542
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemisia)	0	0	0.000	N/A	\$0.00	0.000	0
Loopers	40,000	0	0.000	N/A	\$0.00	0.000	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.000	0
Other Insects	0	0	0.000	N/A	\$0.00	0.000	0
Cutworms	60,000	50,000	0.185	\$2.00	\$0.37	0.000	0

Percent Lost	6.97
Total Acres	270,000
Total Bales lost	50,944
Bales lost in dollars	\$14,671,800

Est. yield/acre	805
Spray applications	3.491
Cost + loss	\$29,110,350
Cost + loss/acre	\$107.82

	Cost/ Acre
Foliar insecticide	\$21.72
At planting	\$12.41
Bt use fees	\$10.56
Eradication	\$4.00
Scouting	\$4.79
Total	\$53.48

Table 8b **Alabama Central** **Cotton Insect Losses – 2005**

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	20,000	0.250	\$7.50	\$1.88	2.000	3,167
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	5,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	80,000	10,000	0.125	\$7.00	\$0.88	1.000	1,583
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	5,000	0	0.000	N/A	\$0.00	0.000	0
Thrips	80,000	12,000	0.150	\$5.50	\$0.83	0.500	792
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 Cornborer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	80,000	60,000	0.750	\$7.00	\$5.25	3.000	4,750
Grasshoppers	30,000	5,000	0.063	\$6.75	\$0.42	0.000	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	80,000	3,000	0.038	\$9.50	\$0.36	0.000	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemisia)	0	0	0.000	N/A	\$0.00	0.000	0
Loopers	0	0	0.000	N/A	\$0.00	0.000	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.000	0
Other Insects	15,000	0	0.000	N/A	\$0.00	0.000	0
Cutworms	2,000	8,000	0.100	\$2.00	\$0.20	0.000	0

Percent Lost	6.50
Total Acres	80,000
Harvested acres	
Total Bales lost	10,292
Bales lost in dollars	\$2,964,000

Est. yield/acre	740
Spray applications	1,475
Cost + loss	\$6,742,250
Cost + loss/acre	\$84.28

	Cost/ Acre
Foliar insecticide	\$9.80
At planting	\$10.73
Bt use fees	\$18.90
Eradication	\$4.50
Scouting	\$3.30
Total	\$47.23

Table 8c **Alabama South** **Cotton Insect Losses – 2005**

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	280,000	140,000	0.500	\$9.00	\$4.50	2.000	12,250
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	5,000	0	0.000	N/A	\$0.00	0.000	0
Lygus	260,000	30,000	0.107	\$6.75	\$0.72	0.464	2,844
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	30,000	0	0.000	N/A	\$0.00	0.000	0
Thrips	280,000	10,000	0.036	\$5.50	\$0.20	0.000	0
Beet Armyworm	5,000	1,000	0.004	\$15.00	\$0.05	0.000	0
Fall Armyworm	50,000	5,000	0.018	\$15.00	\$0.27	0.000	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	280,000	252,000	2.250	\$7.00	\$15.75	5.000	30,625
Grasshoppers	5,000	0	0.000	N/A	\$0.00	0.000	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.000	0
Aphids	280,000	5,000	0.018	\$10.00	\$0.18	0.000	0
Banded Winged Whitefly	4,000	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemisia)	0	0	0.000	N/A	\$0.00	0.000	0
Loopers	30,000	5,000	0.018	\$14.00	\$0.25	0.000	0
Southern Armyworms	168,000	10,000	0.036	\$8.00	\$0.29	0.000	0
Leaf Footed Bug	112,000	20,000	0.071	\$7.00	\$0.50	0.200	1,225
Cutworms	5,000	8,000	0.029	\$4.00	\$0.11	0.000	0

Percent Lost	7.66
Total Acres	280,000
Total Bales lost	46,944
Bales lost in dollars	\$13,519,800

Est. yield/acre	760
Spray applications	3.086
Cost + loss	\$30,884,300
Cost + loss/acre	\$110.30

	Cost/ Acre
Foliar insecticide	\$22.82
At planting	\$10.68
Bt use fees	\$20.00
Eradication	\$4.50
Scouting	\$4.02
Total	\$62.02

Table 9 **Arizona Summary** **Cotton Insect Losses – 2005**

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	78,675	17,555	0.058	\$15.68	\$0.91	0.091	817
Pink Bollworm	102,729	43,683	0.670	\$14.59	\$9.77	0.645	5,777
Cotton Fleahopper	113,543	31,571	0.051	\$6.85	0.35	0.070	627
Lygus	222,602	199,176	1.583	\$17.05	\$27.00	4.191	37,564
Cotton Leaf Perforator	25,821	523	0.001	\$17.60	\$0.02	0.002	21
Spider Mites	59,750	33,742	0.141	\$25.74	\$3.63	0.168	1,508
Thrips	191,200	33,460	0.129	\$12.25	\$1.57	0.171	1,536
Beet Armyworm	53,256	10,527	0.031	\$17.31	\$0.54	0.016	141
Fall Armyworm	9,219	439	0.002	\$17.00	\$0.03	0.001	10
European Cornborer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	104,824	43,502	0.179	\$14.19	\$2.54	0.110	983
Grasshoppers	18,237	325	0.001	\$18.00	\$0.02	0.014	126
Saltmarsh Caterpillars	30,132	5,502	0.006	\$6.38	\$0.04	0.016	140
Aphids	15,887	3,088	0.016	\$14.00	\$0.22	0.023	204
Banded Winged Whitefly	46,555	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemisia)	224,909	198,047	2.072	\$28.10	\$58.21	3.172	28,427
Loopers	15,499	885	0.004	\$12.00	\$0.04	0.001	5
Yellowstriped Armyworms	1,262	0	0.000	N/A	\$0.00	0.000	0
Pale-sided Flea Beetles	12,249	388	0.002	\$15.00	\$0.02	0.000	0
Cutworms	1,975	179	0.001	\$11.73	\$0.01	0.001	5
Percent Lost	8.69		Est. yield/acre	1,302			Cost/ Acre
Total Acres	239,000		Spray applications	4.945			Foliar insecticide \$104.93
			Cost + loss	\$56,215,381			At planting \$0.85
Total Bales lost	77,890		Cost + loss/acre	\$235.21			Bt use fees \$25.18
Bales lost in dollars	\$22,432,436						Eradication \$0.75
							Scouting \$9.64
							Total \$141.35

Official Arizona Cotton Losses may be seen on the Arizona WEB <http://cals.arizona.edu/crops/cotton/insects/cil/cil.html>

Table 9a		Arizona Bt		Cotton Insect Losses – 2005			
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	48,700	3,684	0.000	\$16.00	\$0.00	0.021	142
Pink Bollworm	48,469	3,540	0.020	\$14.00	\$0.28	0.012	80
Cotton Fleahopper	90,064	23,625	0.051	\$6.24	0.32	0.076	503
Lygus	164,515	152,405	1.636	\$17.14	\$28.04	4.183	27,762
Cotton Leaf Perforator	18,290	0	0.000	N/A	\$0.00	0.001	7
Spider Mites	44,250	26,486	0.150	\$25.52	\$3.82	0.156	1,034
Thrips	141,600	24,780	0.125	\$12.34	\$1.54	0.172	1,142
Beet Armyworm	39,810	5,555	0.016	\$16.83	\$0.26	0.009	60
Fall Armyworm	5,923	0	0.000	N/A	\$0.00	0.000	2
European Cornborer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	80,891	35,739	0.202	\$13.84	\$2.79	0.114	758
Grasshoppers	11,665	325	0.002	\$18.00	\$0.03	0.014	96
Saltmarsh Caterpillars	18,655	3,540	0.003	\$6.00	\$0.02	0.011	70
Aphids	11,378	2,774	0.019	\$14.00	\$0.26	0.023	154
Banded Winged Whitefly	38,300	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemisia)	166,629	148,301	2.095	\$28.63	\$59.97	3.295	21,870
Loopers	7,776	885	0.005	\$12.00	\$0.06	0.000	3
Yellowstriped Armyworms	634	0	0.000	N/A	\$0.00	0.000	0
Pale-sided Flea Beetles	9,822	250	0.001	\$15.00	\$0.02	0.000	0
Cutworms	1,138	179	0.001	\$11.73	\$0.01	0.001	5
Percent Lost	8.09		Est. yield/acre	1,320			Cost/ Acre
Total Acres	177,000		Spray applications	4.324			Foliar insecticide \$97.43
			Cost + loss	\$40,717,655			At planting \$0.90
Total Bales lost	53,687						Bt use fees \$34.00
Bales lost in dollars	\$15,461,889		Cost + loss/acre	\$230.04			Eradication \$0.75
							Scouting \$9.60
							Total \$142.69

Official Arizona Cotton Losses may be seen on the Arizona WEB <http://cals.arizona.edu/crops/cotton/insects/cil/cil.html>

Table 9b		Arizona nonBt			Cotton Insect Losses – 2005		
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	29,975	13,871	0.224	\$15.68	\$3.51	0.290	674
Pink Bollworm	54,260	40,143	2.525	\$14.60	\$36.87	2.450	5,697
Cotton Fleahopper	23,479	7,946	0.051	\$8.56	0.44	0.053	124
Lygus	58,087	46,771	1.433	\$16.77	\$24.04	4.216	9,802
Cotton Leaf Perforator	7,531	523	0.003	\$17.60	\$0.06	0.006	14
Spider Mites	15,500	7,256	0.117	\$26.55	\$3.11	0.204	474
Thrips	49,600	8,680	0.140	\$12.01	\$1.68	0.170	394
Beet Armyworm	13,446	4,972	0.076	\$17.60	\$1.34	0.035	82
Fall Armyworm	3,296	439	0.007	\$17.00	\$0.12	0.003	8
European Cornborer	0	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	23,933	7,763	0.113	\$16.01	\$1.80	0.097	224
Grasshoppers	6,572	0	0.000	N/A	\$0.00	0.013	30
Saltmarsh Caterpillars	11,477	1,962	0.015	\$6.57	\$0.10	0.030	70
Aphids	4,509	314	0.006	\$14.00	\$0.09	0.022	50
Banded Winged Whitefly	8,255	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemisia)	58,280	49,746	2.006	\$26.51	\$53.18	2.820	6,557
Loopers	7,723	0	0.000	N/A	\$0.00	0.001	2
Yellowstriped Armyworms	628	0	0.000	N/A	\$0.00	0.000	0
Pale-sided Flea Beetles	2,427	138	0.002	\$15.00	\$0.03	0.000	0
Cutworms	837	0	0.000	N/A	\$0.00	0.000	0
Percent Lost	10.41	Est. yield/acre		1,250	Cost/ Acre		
Total Acres	62,000	Spray applications		6.719	Foliar insecticide		
		Cost + loss		\$15,497,726	At planting		
Total Bales lost	24,203	Cost + loss/acre		\$249.96	Bt use fees		
Bales lost in dollars	\$6,970,547				Eradication		
					Scouting		
					Total		

Official Arizona Cotton Losses may be seen on the Arizona WEB <http://cals.arizona.edu/crops/cotton/insects/cil/cil.html>

Table 10

Pest	Arkansas Summary				Cotton Insect Losses – 2005		
	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	700,000	500,000	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	1,000,000	776,000	1.495	\$7.61	\$11.38	0.97	32,171
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	800,000	0	0.000	N/A	0.00	0.00	0
Lygus	1,000,000	991,000	2.555	\$7.79	\$19.90	1.66	54,947
Cotton Leaf Perforator	33,150	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	785,000	343,000	0.757	\$18.00	\$13.62	0.64	21,138
Thrips	1,000,000	956,000	1.578	\$7.21	\$11.37	0.15	5,096
Beet Armyworm	388,000	108,000	0.105	\$10.00	\$1.05	0.06	1,875
Fall Armyworm	801,000	550,000	1.068	\$10.00	\$10.68	0.37	12,281
European Cornborer	10,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	1,000,000	430,000	0.417	\$8.00	\$3.34	0.13	4,359
Grasshoppers	150,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	630,000	25,000	0.024	\$7.50	\$0.18	0.01	266
Aphids	820,000	218,000	0.212	\$9.00	\$1.90	0.00	0
Banded Winged Whitefly	550,000	10,000	0.010	\$9.00	\$0.09	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	550,000	10,000	0.000	N/A	\$0.01	0.00	125
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	496,000	250,000	0.243	\$3.50	\$0.85	0.01	172

Percent Lost	4.00
Total Acres	1,030,000
Total Bales lost	132,429
Bales lost in dollars	\$38,139,630

Est. yield/acre	983
Spray applications	8.463
Cost + loss	\$165,130,580
Cost + loss/acre	\$160.32

	Cost/ Acre
Foliar insecticide	\$74.37
At planting	\$9.19
Bt use fees	\$18.23
Eradication	\$14.90
Scouting	\$6.60
Total	\$123.29

Table 10a		Arkansas Northeast				Cotton Insect Losses – 2005	
Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	500,000	500,000	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	558,000	400,000	1.020	\$7.00	\$7.14	0.95	17,438
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	500,000	0	0.000	N/A	0.00	0.00	0
Lygus	558,000	558,000	1.898	\$7.50	\$14.23	1.19	21,797
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	475,000	265,000	1.127	\$18.00	\$20.28	1.01	18,555
Thrips	558,000	558,000	1.613	\$7.00	\$11.29	0.24	4,359
Beet Armyworm	300,000	100,000	0.170	\$10.00	\$1.70	0.10	1,875
Fall Armyworm	425,000	350,000	1.190	\$10.00	\$11.90	0.36	6,641
European Cornborer	5,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	558,000	200,000	0.340	\$8.00	\$2.72	0.24	4,359
Grasshoppers	50,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	425,000	25,000	0.043	\$7.50	\$0.32	0.01	266
Aphids	400,000	50,000	0.085	\$9.00	\$0.77	0.00	0
Banded Winged Whitefly	300,000	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	400,000	10,000	0.000	N/A	\$0.02	0.01	125
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	275,000	150,000	0.255	\$3.50	\$0.89	0.01	172

Percent Lost	4.11
Total Acres	588,000
Total Bales lost	75,586
Bales lost in dollars	\$21,768,750

Est. yield/acre	880
Spray applications	7.742
Cost + loss	\$91,851,200
Cost + loss/acre	\$156.21

	Cost/ Acre
Foliar insecticide	\$71.27
At planting	\$8.66
Bt use fees	\$16.69
Eradication	\$17.08
Scouting	\$5.49
Total	\$119.19

Table 10b

Pest	Arkansas Southeast				Cotton Insect Losses – 2005		
	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	200,000	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	442,000	376,000	2.127	\$8.00	\$17.01	1.00	14,733
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	300,000	0	0.000	N/A	0.00	0.00	0
Lygus	442,000	433,000	3.429	\$8.00	\$27.43	2.25	33,150
Cotton Leaf Perforator	33,150	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	310,000	78,000	0.265	\$18.00	\$4.76	0.18	2,583
Thrips	442,000	398,000	1.531	\$7.50	\$11.48	0.05	737
Beet Armyworm	88,000	8,000	0.018	\$10.00	\$0.18	0.00	0
Fall Armyworm	376,000	200,000	0.905	\$10.00	\$9.05	0.38	5,640
European Cornborer	5,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	442,000	230,000	0.520	\$8.00	\$4.16	0.00	0
Grasshoppers	100,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	205,000	0	0.000	N/A	\$0.00	0.00	0
Aphids	420,000	168,000	0.380	\$9.00	\$3.42	0.00	0
Banded Winged Whitefly	250,000	10,000	0.023	\$9.00	\$0.20	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	150,000	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	221,000	100,000	0.226	\$3.50	\$0.79	0.00	0

Percent Lost	3.86
Total Acres	442,000
Total Bales lost	56,843
Bales lost in dollars	\$16,370,880

Est. yield/acre	1,120
Spray applications	9.423
Cost + loss	\$73,279,380
Cost + loss/acre	\$165.79

	Cost/ Acre
Foliar insecticide	\$78.50
At planting	\$9.90
Bt use fees	\$20.27
Eradication	\$12.00
Scouting	\$8.08
Total	\$128.75

Table 11

Pest	California			Cotton Insect Losses – 2005			
	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	0.00	0
Bollworm/Budworm	3,183	0	0.000	N/A	\$0.00	0.00	0
Pink Bollworm	25,000	1,500	0.002	\$9.00	\$0.02	0.019	456
Cotton Fleahopper	0	0	0.000	N/A	0.00	0.00	0
Lygus	509,284	254,642	0.459	\$27.00	\$12.39	3.82	92,838
Cotton Leaf Perforator	15,000	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	623,873	572,945	1.463	\$30.00	\$43.89	1.87	45,491
Thrips	630,239	1	0.000	\$15.00	\$0.00	0.00	0
Beet Armyworm	318,303	3,056	0.003	\$18.00	\$0.05	0.02	580
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	572,945	318,303	0.397	\$18.00	\$7.14	0.86	20,889
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	381,963	20,000	0.030	\$33.00	\$0.99	0.01	139
Loopers	63,661	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	6.61
Total Acres	665,830
Total Bales lost	160,393
Bales lost in dollars	\$46,193,131

Est. yield/acre	1,252
Spray applications	2.354
Cost + loss	\$99,420,804
Cost + loss/acre	\$149.32

	Cost/ Acre
Foliar insecticide	\$64.48
At planting	\$2.63
Bt use fees	\$0.41
Eradication	\$5.22
Scouting	\$7.21
Total	\$79.94

Table 12		Florida				Cotton Insect Losses – 2005	
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	0.00	0
Bollworm/Budworm	13,500	9,000	0.120	\$14.10	\$1.69	0.45	1,013
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	900	0	0.000	N/A	0.00	0.00	0
Lygus	18,000	3,100	0.034	\$7.00	\$0.24	0.20	450
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.00	0
Thrips	32,400	3,150	0.035	\$7.30	\$0.26	0.18	405
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	11,250	1,800	0.020	\$17.00	\$0.34	0.06	141
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	78,300	76,500	1.275	\$10.75	\$13.71	2.61	5,873
Grasshoppers	300	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	90,000	1,350	0.015	\$9.50	\$0.14	0.10	225
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	2,200	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	33,500	680	0.008	\$11.25	\$0.09	0.00	0
Yellowstriped Armyworms	3,000	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0
Percent Lost		3.60	Est. yield/acre		675	Cost/ Acre	
Total Acres		90,000	Spray applications		1.507	Foliar insecticide	
Total Bales lost		8,106	Cost + loss		\$7,530,258	At planting	
Bales lost in dollars		\$2,334,420	Cost + loss/acre		\$83.67	Bt use fees	
						Eradication	
						Scouting	
						Total	

Table 13		Georgia Summary				Cotton Insect Losses – 2005	
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	0.00	0
Bollworm/Budworm	1,070,000	560,000	0.645	\$8.46	\$5.45	1.97	49,688
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	0	0	0.000	N/A	0.00	0.00	0
Lygus	670,000	165,000	0.136	\$6.50	\$0.89	0.28	6,979
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	11,000	500	0.000	\$10.00	\$0.00	0.00	0
Thrips	1,010,000	135,000	0.112	\$6.00	\$0.67	0.08	2,104
Beet Armyworm	40,000	20,000	0.017	\$9.00	\$0.15	0.00	0
Fall Armyworm	165,000	40,000	0.033	\$9.00	\$0.30	0.03	688
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	1,050,000	980,000	1.992	\$7.50	\$14.94	1.74	43,750
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	830,000	115,000	0.095	\$8.00	\$0.76	0.07	1,729
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	28,000	0	0.000	N/A	\$0.00	0.00	0
Loopers	560,000	140,000	0.116	\$10.00	\$1.16	0.05	1,167
Southern Armyworms	16,000	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	11,000	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	4.21
Total Acres	1,210,000
Total Bales lost	106,104
Bales lost in dollars	\$30,558,000

Est. yield/acre	850
Spray applications	3.145
Cost + loss	\$101,700,500
Cost + loss/acre	\$84.05

	Cost/ Acre
Foliar insecticide	\$24.32
At planting	\$9.01
Bt use fees	\$16.88
Eradication	\$3.00
Scouting	\$5.59
Total	\$58.80

Table 13a

Georgia Bt

Cotton Insect Losses – 2005

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	0.00	0
Bollworm/Budworm	950,000	500,000	0.558	\$8.00	\$4.47	1.33	29,688
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	0	0	0.000	N/A	0.00	0.00	0
Lygus	600,000	150,000	0.140	\$6.50	\$0.91	0.28	6,250
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	10,000	500	0.000	\$10.00	\$0.00	0.00	0
Thrips	900,000	120,000	0.112	\$6.00	\$0.67	0.08	1,875
Beet Armyworm	25,000	10,000	0.009	\$9.00	\$0.08	0.00	0
Fall Armyworm	150,000	30,000	0.028	\$9.00	\$0.25	0.03	625
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	950,000	900,000	2.093	\$7.50	\$15.70	1.77	39,583
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	750,000	100,000	0.093	\$8.00	\$0.74	0.07	1,563
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	25,000	0	0.000	N/A	\$0.00	0.00	0
Loopers	500,000	125,000	0.116	\$10.00	\$1.16	0.05	1,042
Southern Armyworms	15,000	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	10,000	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	3.60
Total Acres	1,075,000
Total Bales lost	80,625
Bales lost in dollars	\$23,220,000

Est. yield/acre	850
Spray applications	3.149
Cost + loss	\$88,355,000
Cost + loss/acre	\$82.19

	Cost/ Acre
Foliar insecticide	\$23.99
At planting	\$9.02
Bt use fees	\$19.00
Eradication	\$3.00
Scouting	\$5.58
Total	\$60.59

Table 13b

Pest	Georgia non-Bt			Cotton Insect Losses – 2005			
	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	0.00	0
Bollworm/Budworm	120,000	60,000	1.333	\$10.00	\$13.33	7.11	20,000
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	0	0	0.000	N/A	0.00	0.00	0
Lygus	70,000	15,000	0.111	\$6.50	\$0.72	0.26	729
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	1,000	0	0.000	N/A	\$0.00	0.00	0
Thrips	110,000	15,000	0.111	\$6.00	\$0.67	0.08	229
Beet Armyworm	15,000	10,000	0.074	\$9.00	\$0.67	0.00	0
Fall Armyworm	15,000	10,000	0.074	\$9.00	\$0.67	0.02	63
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	100,000	80,000	1.185	\$7.50	\$8.89	1.48	4,167
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	80,000	15,000	0.111	\$8.00	\$0.89	0.06	167
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	3,000	0	0.000	N/A	\$0.00	0.00	0
Loopers	60,000	15,000	0.111	\$10.00	\$1.11	0.04	125
Southern Armyworms	1,000	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	1,000	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	9.06
Total Acres	135,000
Total Bales lost	25,479
Bales lost in dollars	\$7,338,000

Est. yield/acre	850
Spray applications	3.111
Cost + loss	\$13,345,500
Cost + loss/acre	\$98.86

	Cost/ Acre
Foliar insecticide	\$26.94
At planting	\$8.89
Bt use fees	\$0.00
Eradication	\$3.00
Scouting	\$5.67
Total	\$44.50

Table 14

Pest	Kansas				Cotton Insect Losses – 2005		
	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	0.00	0
Bollworm/Budworm	25,000	5,000	0.059	\$10.00	\$0.59	0.00	0
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	10,000	3,000	0.035	\$8.00	0.28	0.12	125
Lygus	10,000	1,000	0.024	\$8.00	\$0.19	0.06	63
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.00	0
Thrips	40,000	25,000	0.000	N/A	\$0.00	0.24	250
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	0	0	0.000	N/A	\$0.00	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	0.41
Total Acres	85,000
Total Bales lost	438
Bales lost in dollars	\$126,000

Est. yield/acre	560
Spray applications	0.118
Cost + loss	\$216,320
Cost + loss/acre	\$2.54

	Cost/ Acre
Foliar insecticide	\$1.06
At planting	\$0.00
Bt use fees	\$0.00
Eradication	\$0.00
Scouting	\$0.00
Total	\$1.06

Table 15

Louisiana Summary

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	311456	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	320,687	202,427	0.274	\$8.42	\$2.30	0.10	1,871
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	35,579	0	0.000	N/A	0.00	0.00	0
Lygus	600,000	501,537	3.236	\$9.25	\$29.93	1.14	20,533
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	465,174	262,986	0.811	\$21.56	\$17.48	0.75	13,568
Thrips	600,000	470,001	0.630	\$3.61	\$2.27	0.19	3,500
Beet Armyworm	45,481	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	379,792	181,474	0.351	\$11.25	\$3.95	0.49	8,862
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	330,266	83,831	0.110	\$7.42	\$0.82	0.16	2,890
Grasshoppers	325,976	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	151,003	0	0.000	N/A	\$0.00	0.00	0
Aphids	600,000	424,987	0.685	\$9.36	\$6.42	0.10	1,750
Banded Winged Whitefly	153,892	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	501,001	153,575	0.150	\$12.35	\$1.85	0.07	1,282
Southern Armyworms	45,126	0	0.000	N/A	\$0.00	0.00	0
Slugs	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	488,380	0.788	\$3.33	\$2.62	0.00	0

Percent Lost	3.00
Total Acres	620,000
Total Bales lost	54,256
Bales lost in dollars	\$15,625,609

Est. yield/acre	925
Spray applications	7.034
Cost + loss	\$81,096,011
Cost + loss/acre	\$130.80

	Cost/ Acre
Foliar insecticide	\$67.64
At planting	\$8.23
Bt use fees	\$10.48
Eradication	\$10.00
Scouting	\$9.25
Total	\$105.60

Table 15a

		Louisiana Bt			Cotton Insect Losses – 2005		
Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	251456	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	260,862	163,451	0.242	\$7.35	\$1.78	0.10	1,522
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	13,190	0	0.000	N/A	0.00	0.00	0
Lygus	520,000	425,198	3.150	\$9.25	\$29.13	1.16	18,200
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	396,780	221,099	0.737	\$21.56	\$15.89	0.73	11,573
Thrips	520,000	398,118	0.590	\$3.61	\$2.13	0.19	3,033
Beet Armyworm	42,984	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	338,125	158,910	0.353	\$11.25	\$3.97	0.50	7,890
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	293,045	78,334	0.116	\$7.42	\$0.86	0.16	2,564
Grasshoppers	285,112	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	136,335	0	0.000	N/A	\$0.00	0.00	0
Aphids	520,000	376,335	0.697	\$9.36	\$6.52	0.10	1,517
Banded Winged Whitefly	142,335	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	439,667	121,456	0.112	\$12.35	\$1.39	0.08	1,282
Southern Armyworms	43,227	0	0.000	N/A	\$0.00	0.00	0
Slugs	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	425,991	0.789	\$3.30	\$2.60	0.00	0

Percent Lost	3.02
Total Acres	540,000
Total Bales lost	47,581
Bales lost in dollars	\$13,703,194

Est. yield/acre	925
Spray applications	6.786
Cost + loss	\$69,707,819
Cost + loss/acre	\$129.09

	Cost/ Acre
Foliar insecticide	\$64.28
At planting	\$8.19
Bt use fees	\$12.04
Eradication	\$10.00
Scouting	\$9.21
Total	\$103.71

Table 15b

		Louisiana nonBt			Cotton Insect Losses – 2005		
Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	60000	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	59,825	38,976	0.487	\$12.00	\$5.85	0.15	349
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	22,389	0	0.000	N/A	0.00	0.00	0
Lygus	80,000	76,339	3.817	\$9.25	\$35.31	1.00	2,333
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	68,394	41,887	1.309	\$21.56	\$28.22	0.85	1,995
Thrips	80,000	71,883	0.899	\$3.61	\$3.24	0.20	467
Beet Armyworm	2,497	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	41,667	22,564	0.338	\$11.25	\$3.81	0.42	972
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	37,221	5,497	0.069	\$7.42	\$0.51	0.14	326
Grasshoppers	40,864	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	14,668	0	0.000	N/A	\$0.00	0.00	0
Aphids	80,000	48,652	0.608	\$9.36	\$5.69	0.10	233
Banded Winged Whitefly	11,557	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	61,334	32,119	0.401	\$12.35	\$4.96	0.00	0
Southern Armyworms	1,899	0	0.000	N/A	\$0.00	0.00	0
Slugs	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	62,389	0.780	\$3.50	\$2.73	0.00	0

Percent Lost	2.86
Total Acres	80,000
Total Bales lost	6,675
Bales lost in dollars	\$1,922,415

Est. yield/acre	925
Spray applications	8.708
Cost + loss	\$11,388,192
Cost + loss/acre	\$142.35

	Cost/ Acre
Foliar insecticide	\$90.32
At planting	\$8.50
Bt use fees	\$0.00
Eradication	\$10.00
Scouting	\$9.51
Total	\$118.32

Table 16

Mississippi Summary

Cotton Insect Losses – 2005

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	1,093,750	864,437	0.760	\$8.08	\$6.14	1.313	49,579
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.000	0
Cotton Fleahopper	7,200	0	0.000	N/A	0.00	0.000	0
Lygus	1,200,000	1,096,625	3.830	\$8.55	\$32.73	1.824	68,871
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.000	0
Spider Mites	925,000	278,000	0.321	\$12.60	\$4.05	0.640	24,153
Thrips	1,200,000	586,600	0.520	\$5.36	\$2.79	0.211	7,975
Beet Armyworm	59,250	16,700	0.014	\$9.50	\$0.13	0.003	102
Fall Armyworm	506,000	76,407	0.071	\$11.22	\$0.80	0.111	4,206
European Cornborer	2,000	0	0.000	N/A	\$0.00	0.000	0
Stink Bugs	924,750	238,000	0.232	\$7.00	\$1.63	0.274	10,360
Grasshoppers	88,775	0	0.000	N/A	\$0.00	0.000	0
Saltmarsh Caterpillars	36,200	0	0.000	N/A	\$0.00	0.000	0
Aphids	1,112,520	399,550	0.335	\$9.19	\$3.08	0.093	3,493
Banded Winged Whitefly	90,500	0	0.000	N/A	\$0.00	0.000	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.000	0
Loopers	176,500	5,300	0.004	\$8.50	\$0.04	0.001	57
Southern Armyworms	4,200	1,350	0.001	\$7.00	\$0.01	0.000	1
Clouded Plant Bugs	54,000	3,350	0.003	\$8.00	\$0.02	0.000	7
Cutworms	195,000	286,000	0.238	\$2.00	\$0.48	0.002	63

Percent Lost	4.47
Total Acres	1,200,000
Total Bales lost	168,868
Bales lost in dollars	\$48,633,963

Est. yield/acre	855
Spray applications	6.330
Cost + loss	\$162,811,300
Cost + loss/acre	\$135.68

	Cost/ Acre
Foliar insecticide	\$51.88
At planting	\$8.55
Bt use fees	\$19.10
Eradication	\$9.23
Scouting	\$6.38
Total	\$95.15

Table 16a

Mississippi Delta Bt

Cotton Insect Losses – 2005

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	0.00	0
Bollworm/Budworm	726,750	617,737	0.807	\$8.00	\$6.46	1.43	36,338
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	5,000	0	0.000	N/A	0.00	0.00	0
Lygus	765,000	750,000	4.902	\$8.50	\$41.67	2.30	58,650
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	600,000	200,000	0.392	\$12.75	\$5.00	0.78	20,000
Thrips	765,000	375,000	0.539	\$5.50	\$2.97	0.25	6,375
Beet Armyworm	26,750	12,000	0.016	\$9.50	\$0.15	0.00	22
Fall Armyworm	425,000	49,500	0.065	\$11.25	\$0.73	0.14	3,542
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	625,000	135,500	0.230	\$7.00	\$1.61	0.29	7,292
Grasshoppers	73,525	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	24,500	0	0.000	N/A	\$0.00	0.00	0
Aphids	695,000	255,000	0.333	\$9.25	\$3.08	0.09	2,317
Banded Winged Whitefly	65,000	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	125,000	2,500	0.003	\$8.50	\$0.03	0.00	42
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Clouded Plant Bugs	11,000	400	0.001	\$8.00	\$0.00	0.00	0
Cutworms	145,500	225,000	0.294	\$2.00	\$0.59	0.00	49

Percent Lost	5.28
Total Acres	765,000
Total Bales lost	134,627
Bales lost in dollars	\$38,772,432

Est. yield/acre	910
Spray applications	7.583
Cost + loss	\$121,074,703
Cost + loss/acre	\$158.27

	Cost/ Acre
Foliar insecticide	\$62.28
At planting	\$8.55
Bt use fees	\$22.00
Eradication	\$8.00
Scouting	\$6.75
Total	\$107.58

Table 16b

		Mississippi Delta nonBt			Cotton Insect Losses – 2005		
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	0.00	0
Bollworm/Budworm	75,000	67,500	1.350	\$8.50	\$11.48	3.00	7,500
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	1,000	0	0.000	N/A	0.00	0.00	0
Lygus	75,000	73,625	4.418	\$8.50	\$37.55	1.90	4,750
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	60,000	15,000	0.300	\$12.75	\$3.83	0.80	2,000
Thrips	75,000	35,550	0.474	\$5.50	\$2.61	0.25	625
Beet Armyworm	7,500	1,800	0.026	\$9.50	\$0.25	0.01	25
Fall Armyworm	35,000	16,500	0.330	\$11.25	\$3.71	0.23	583
European Cornborer	2,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	65,500	21,500	0.287	\$7.00	\$2.01	0.26	655
Grasshoppers	4,150	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	7,850	0	0.000	N/A	\$0.00	0.00	0
Aphids	73,520	23,550	0.314	\$9.25	\$2.90	0.10	245
Banded Winged Whitefly	12,500	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	15,500	900	0.012	\$8.50	\$0.10	0.00	5
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Clouded Plant Bugs	6,000	250	0.003	\$8.00	\$0.03	0.00	0
Cutworms	19,500	29,000	0.387	\$2.00	\$0.77	0.00	7

Percent Lost	6.56
Total Acres	75,000
Total Bales lost	16,395
Bales lost in dollars	\$4,721,616

Est. yield/acre	910
Spray applications	7.901
Cost + loss	\$11,399,032
Cost + loss/acre	\$151.99

	Cost/ Acre
Foliar insecticide	\$65.23
At planting	\$8.55
Bt use fees	\$0.00
Eradication	\$8.50
Scouting	\$6.75
Total	\$89.03

Table 16c

Mississippi Hills Bt

Cotton Insect Losses – 2005

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	0.00	0
Bollworm/Budworm	232,000	139,200	0.528	\$8.00	\$4.22	0.40	3,142
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	1,000	0	0.000	N/A	0.00	0.00	0
Lygus	290,000	210,000	1.448	\$9.00	\$13.03	0.60	4,713
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	225,000	45,000	0.155	\$12.00	\$1.86	0.23	1,828
Thrips	290,000	146,550	0.505	\$5.00	\$2.53	0.10	785
Beet Armyworm	19,500	2,000	0.007	\$9.50	\$0.07	0.01	53
Fall Armyworm	31,000	6,157	0.021	\$11.00	\$0.23	0.02	126
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	188,500	67,500	0.233	\$7.00	\$1.63	0.23	1,787
Grasshoppers	9,250	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	3,100	0	0.000	N/A	\$0.00	0.00	0
Aphids	276,500	96,500	0.333	\$9.00	\$2.99	0.10	749
Banded Winged Whitefly	8,500	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	22,500	1,250	0.004	\$8.50	\$0.04	0.00	6
Southern Armyworms	3,200	950	0.003	\$7.00	\$0.02	0.00	1
Clouded Plant Bugs	24,000	2,500	0.009	\$8.00	\$0.07	0.00	7
Cutworms	21,500	21,000	0.072	\$2.00	\$0.14	0.00	6

Percent Lost	1.68
Total Acres	290,000
Total Bales lost	13,203
Bales lost in dollars	\$3,802,449

Est. yield/acre	725
Spray applications	3.319
Cost + loss	\$25,260,661
Cost + loss/acre	\$87.11

	Cost/ Acre
Foliar insecticide	\$26.84
At planting	\$8.55
Bt use fees	\$21.00
Eradication	\$12.00
Scouting	\$5.60
Total	\$73.99

Table 16d

		Mississippi Hills nonBt				Cotton Insect Losses – 2005	
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	0.00	0
Bollworm/Budworm	60,000	40,000	0.571	\$8.50	\$4.86	1.37	2,600
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	200	0	0.000	N/A	0.00	0.00	0
Lygus	70,000	63,000	1.350	\$8.50	\$11.48	0.40	758
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	40,000	18,000	0.257	\$11.50	\$2.96	0.17	325
Thrips	70,000	29,500	0.421	\$5.00	\$2.11	0.10	190
Beet Armyworm	5,500	900	0.013	\$9.50	\$0.12	0.00	2
Fall Armyworm	15,000	4,250	0.067	\$11.00	\$0.73	0.04	81
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	45,750	13,500	0.193	\$7.00	\$1.35	0.20	372
Grasshoppers	1,850	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	750	0	0.000	N/A	\$0.00	0.00	0
Aphids	67,500	24,500	0.385	\$9.25	\$3.56	0.10	183
Banded Winged Whitefly	4,500	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	13,500	650	0.009	\$8.50	\$0.08	0.00	4
Southern Armyworms	1,000	400	0.006	\$7.00	\$0.04	0.00	0
Clouded Plant Bugs	13,000	200	0.003	\$8.00	\$0.02	0.00	0
Cutworms	8,500	11,000	0.157	\$2.00	\$0.31	0.00	2

Percent Lost	2.38
Total Acres	70,000
Total Bales lost	4,517
Bales lost in dollars	\$1,300,983

Est. yield/acre	725
Spray applications	3.433
Cost + loss	\$5,040,421
Cost + loss/acre	\$72.01

	Cost/ Acre
Foliar insecticide	\$27.62
At planting	\$8.55
Bt use fees	\$0.00
Eradication	\$12.00
Scouting	\$5.25
Total	\$53.42

Table 17

Pest	Missouri		Cotton Insect Losses – 2005				
	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	0.00	0
Bollworm/Budworm	240,500	80,560	0.051	\$12.13	\$0.62	0.27	3,758
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	40,000	0	0.000	N/A	\$0.00	0.00	0
Lygus	400,000	285,000	0.648	\$7.20	\$4.66	0.23	3,125
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	225,100	50,050	0.046	\$13.00	\$0.59	0.13	1,759
Thrips	415,000	385,000	0.350	\$4.00	\$1.40	0.24	3,242
Beet Armyworm	5,000	4,000	0.003	\$10.00	\$0.03	0.00	0
Fall Armyworm	5,000	2,000	0.001	\$10.00	\$0.01	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	150,000	25,000	0.011	\$7.50	\$0.09	0.00	0
Grasshoppers	1,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	5,000	0	0.000	N/A	\$0.00	0.00	0
Aphids	50,000	5,000	0.000	\$7.50	\$0.00	0.00	0
Banded Winged Whitefly	15,000	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	30,000	10,000	0.007	\$3.33	\$0.02	0.00	0

Percent Lost	0.86
Total Acres	440,000
Total Bales lost	11,884
Bales lost in dollars	\$3,422,475

Est. yield/acre	988
Spray applications	1.117
Cost + loss	\$17,001,064
Cost + loss/acre	\$38.64

	Cost/ Acre
Foliar insecticide	\$7.42
At planting	\$0.32
Bt use fees	\$5.88
Eradication	\$12.65
Scouting	\$4.59
Total	\$30.86

Table 18

New Mexico

Cotton Insect Losses – 2005

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	0.00	0
Bollworm/Budworm	63,700	56,100	0.834	\$18.50	\$15.43	2.94	4,739
Pink Bollworm	900	340	0.006	\$24.00	\$0.15	0.00	1
Cotton Fleahopper	0	0	0.000	N/A	0.00	0.00	0
Lygus	7,200	2,600	0.039	\$8.25	\$0.32	0.04	69
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.00	0
Thrips	3,800	0	0.000	N/A	\$0.00	0.14	219
Beet Armyworm	650	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	2,500	0	0.000	N/A	\$0.00	0.01	18
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	1,800	0	0.000	N/A	\$0.00	0.00	6
Grasshoppers	1,150	0	0.000	N/A	\$0.00	0.00	1
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	9,000	2,800	0.042	\$22.50	\$0.94	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0
Percent Lost	3.13		Est. yield/acre	864			Cost/
Total Acres	67,255		Spray	0.920			Foliar insecticide
							At planting
			Cost + loss	\$4,189,408			Bt use fees
Total Bales lost	5,054						Eradication *
Bales lost in dollars	\$1,455,615		Cost + loss/acre	\$62.29			Scouting
							Total

*Eradication includes both Pink Bollworm and Boll Weevil costs

Table 19

North Carolina Summary
Cost of 1

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	applic	cost/ acre	%red	Bales lost
Boll Weevil	0	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	806,000	736,100	0.795	\$7.58	\$6.02	2.53	42,367
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	806,000	0	0.000	N/A	0.00	0.00	0
Lygus	806,000	46,760	0.058	\$6.50	\$0.38	0.10	1,673
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	264,000	20,000	0.025	\$13.00	\$0.32	0.00	0
Thrips	806,000	575,000	0.927	\$5.00	\$4.64	0.80	13,385
Beet Armyworm	5,400	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	80,000	1,080	0.000	\$7.00	\$0.00	0.00	0
European Cornborer	200,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	806,000	736,100	0.639	\$8.00	\$5.11	3.36	56,151
Grasshoppers	80,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	806,000	59,800	0.074	\$10.00	\$0.74	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	56,000	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	335,000	35,000	0.043	\$4.00	\$0.17	0.00	0

Percent Lost	6.79
Total Acres	806,000
Total Bales lost	113,576
Bales lost in dollars	\$32,709,840

Est. yield/acre	827
Spray applications	2.562
Cost + loss	\$80,057,940
Cost + loss/acre	\$99.33

	Cost/ Acre
Foliar insecticide	\$17.39
At planting	\$14.21
Bt use fees	\$18.01
Eradication	\$3.50
Scouting	\$5.63
Total	\$58.74

Table 19a

		North Carolina Bt			Cotton Insect Losses – 2005		
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	0.00	0
Bollworm/Budworm	726,000	657,700	0.634	\$8.00	\$5.07	2.10	31,763
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	726,000	0	0.000	N/A	0.00	0.00	0
Lygus	726,000	40,600	0.056	\$6.50	\$0.36	0.10	1,513
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	240,000	18,000	0.025	\$13.00	\$0.32	0.00	0
Thrips	726,000	518,000	0.928	\$5.00	\$4.64	0.80	12,100
Beet Armyworm	5,000	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	72,000	1,000	0.000	N/A	\$0.00	0.00	0
European Cornborer	180,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	726,000	657,700	0.634	\$8.00	\$5.07	3.50	52,938
Grasshoppers	72,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	726,000	54,000	0.074	\$10.00	\$0.74	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	50,000	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	300,000	30,000	0.041	\$4.00	\$0.17	0.00	0

Percent Lost	6.50
Total Acres	726,000
Total Bales lost	98,313
Bales lost in dollars	\$28,314,000

Est. yield/acre	830
Spray applications	2.392
Cost + loss	\$71,669,240
Cost + loss/acre	\$98.72

	Cost/ Acre
Foliar insecticide	\$16.38
At planting	\$14.21
Bt use fees	\$20.00
Eradication	\$3.50
Scouting	\$5.63
Total	\$59.72

Table 19b

North Carolina non Bt

Cotton Insect Losses – 2005

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	0.00	0
Bollworm/Budworm	80,000	78,400	2.254	\$6.50	\$14.65	6.60	10,604
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	80,000	0	0.000	N/A	0.00	0.00	0
Lygus	80,000	6,160	0.077	\$6.50	\$0.50	0.10	161
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	24,000	2,000	0.025	\$13.00	\$0.33	0.00	0
Thrips	80,000	57,000	0.926	\$5.00	\$4.63	0.80	1,285
Beet Armyworm	400	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	8,000	80	0.001	\$7.00	\$0.01	0.00	0
European Cornborer	20,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	80,000	78,400	0.686	\$8.00	\$5.49	2.00	3,213
Grasshoppers	8,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	80,000	5,800	0.073	\$10.00	\$0.73	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	6,000	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	35,000	5,000	0.063	\$4.00	\$0.25	0.00	0

Percent Lost	9.50
Total Acres	80,000
Total Bales lost	15,263
Bales lost in dollars	\$4,395,840

Est. yield/acre	800
Spray applications	4.104
Cost + loss	\$8,388,700
Cost + loss/acre	\$104.86

	Cost/ Acre
Foliar insecticide	\$26.58
At planting	\$14.21
Bt use fees	\$0.00
Eradication	\$3.50
Scouting	\$5.63
Total	\$49.91

Table 20 **Oklahoma** **Cotton Insect Losses – 2005**

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	0.01	48
Bollworm/Budworm	238,100	91,587	0.565	\$10.00	\$5.65	3.33	16,022
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	242,982	200,000	1.646	\$6.00	\$9.88	6.00	28,854
Lygus	15,000	5,000	0.021	\$6.00	\$0.12	0.06	297
Cotton Leaf Perforator	185,000	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	2,500	1,000	0.004	\$12.00	\$0.05	0.01	25
Thrips	242,982	156,500	0.773	\$6.00	\$4.64	3.00	14,427
Beet Armyworm	56,000	18,000	0.074	\$14.00	\$1.04	0.29	1,385
Fall Armyworm	27,000	2,500	0.010	\$14.00	\$0.14	0.06	267
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	125,000	2,500	0.010	\$9.50	\$0.10	0.26	1,237
Grasshoppers	86,000	1,000	0.004	\$6.75	\$0.03	0.18	851
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	50,000	5,000	0.021	\$7.50	\$0.15	0.10	495
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	13.29
Total Acres	242,982
Total Bales lost	63,908
Bales lost in dollars	\$18,405,460

Est. yield/acre	800
Spray applications	3.129
Cost + loss	\$30,513,557
Cost + loss/acre	\$125.58

	Cost/ Acre
Foliar insecticide	\$21.80
At planting	\$4.39
Bt use fees	\$6.34
Eradication	\$14.73
Scouting	\$2.57
Total	\$49.83

Table 21

South Carolina

Cotton Insect Losses – 2005

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	0.00	0
Bollworm/Budworm	265,000	265,000	1.000	\$10.50	\$10.50	1.00	5,521
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	10,000	0	0.000	N/A	0.00	0.00	0
Lygus	265,000	13,250	0.050	\$10.00	\$0.50	0.00	0
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	26,250	0	0.000	N/A	\$0.00	0.00	0
Thrips	265,000	265,000	1.000	\$15.00	\$15.00	0.00	0
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	265,000	265,000	2.000	\$10.50	\$21.00	7.00	38,646
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	26,500	0	0.000	N/A	\$0.00	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	2,650	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	8.00
Total Acres	265,000
Total Bales lost	44,167
Bales lost in dollars	\$12,720,000

Est. yield/acre	840
Spray applications	4.050
Cost + loss	\$36,843,625
Cost + loss/acre	\$139.03

	Cost/ Acre
Foliar insecticide	\$47.00
At planting	\$15.00
Bt use fees	\$15.73
Eradication	\$5.00
Scouting	\$8.31
Total	\$91.03

Table 22

		Tennessee		Cotton Insect Losses – 2005			
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	0.00	0
Bollworm/Budworm	616,000	135,000	0.241	\$7.50	\$1.81	0.90	11,550
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	5,000	0	0.000	N/A	0.00	0.00	0
Lygus	616,000	492,800	1.200	\$7.50	\$9.00	0.40	5,133
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	369,600	61,600	0.140	\$10.25	\$1.44	0.18	2,310
Thrips	616,000	154,000	0.250	\$5.25	\$1.31	0.20	2,567
Beet Armyworm	24,000	800	0.001	\$9.50	\$0.01	0.00	0
Fall Armyworm	210,000	25,000	0.041	\$8.70	\$0.35	0.07	875
European Cornborer	1,000	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	492,000	246,400	0.440	\$7.75	\$3.41	0.72	9,225
Grasshoppers	60,000	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	1,000	0	0.000	N/A	\$0.00	0.00	0
Aphids	616,000	3,300	0.005	\$7.70	\$0.04	0.02	257
Banded Winged Whitefly	8,000	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	200,000	1,000	0.002	\$9.50	\$0.02	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Clouded Plant Bug	460,000	360,000	0.701	\$8.30	\$5.82	0.67	8,625
Cutworms	55,000	394,000	0.640	\$1.40	\$0.90	0.00	11

Percent Lost	3.16
Total Acres	616,000
Total Bales lost	40,553
Bales lost in dollars	\$11,679,300

Est. yield/acre	800
Spray applications	3.661
Cost + loss	\$50,435,076
Cost + loss/acre	\$81.88

	Cost/ Acre
Foliar insecticide	\$24.10
At planting	\$8.56
Bt use fees	\$15.21
Eradication	\$9.80
Scouting	\$5.25
Total	\$62.92

Table 23

		Texas Summary			Cotton Insect Losses – 2005		
Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	815,078	244,628	0.152	\$7.12	\$1.08	0.14	17,113
Bollworm/Budworm	5,197,917	1,950,269	0.446	\$7.86	\$3.51	2.13	265,793
Pink Bollworm	568,581	48,000	0.020	\$7.00	\$0.14	0.08	9,564
Cotton Fleahopper	2,817,191	981,015	0.217	\$5.46	\$1.18	0.26	32,913
Lygus	647,886	42,600	0.007	\$7.55	\$0.05	0.00	122
Cotton Leaf Perforator	78,663	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	1,150,228	103,318	0.017	\$10.68	\$0.19	0.05	6,775
Thrips	5,262,917	463,591	0.078	\$5.49	\$0.43	0.61	75,939
Beet Armyworm	694,237	26,000	0.005	\$13.85	\$0.06	0.02	2,515
Fall Armyworm	855,118	329,416	0.058	\$11.25	\$0.66	0.07	9,331
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	650,772	203,350	0.037	\$7.13	\$0.27	0.07	9,240
Grasshoppers	40,300	5,000	0.001	\$7.85	\$0.01	0.00	88
Saltmarsh Caterpillars	43,400	10,000	0.002	\$6.35	\$0.01	0.00	0
Aphids	4,131,217	573,749	0.096	\$7.62	\$0.73	0.12	14,529
Banded Winged Whitefly	80,695	3,000	0.001	\$10.00	\$0.01	0.00	0
Silverleaf Whitefly (Bemesia)	186,625	10,000	0.002	\$12.75	\$0.02	0.00	35
Loopers	771,451	111,537	0.019	\$9.21	\$0.17	0.00	0
Southern Armyworms	11,000	100	0.000	\$9.00	\$0.00	0.00	0
Darkling Beetle	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	142,480	29,637	0.005	\$5.07	\$0.03	0.00	0

Percent Lost	3.55
Total Acres	5,968,201
Total Bales lost	443,956
Bales lost in dollars	\$127,859,212

Est. yield/acre	717
Spray applications	1.163
Cost + loss	\$286,716,023
Cost + loss/acre	\$48.04

	Cost/ Acre
Foliar insecticide	\$8.54
At planting	\$2.26
Bt use fees	\$3.82
Eradication	\$10.16
Scouting	\$1.83
Total	\$26.62

Table 23a

Texas Upper Coastal Bend

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	163,680	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	210,369	168,295	1.200	\$10.36	\$12.43	1.00	5,259
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	210,369	173,554	0.990	\$4.65	\$4.60	0.00	0
Lygus	189,332	28,000	0.133	\$6.80	\$0.91	0.00	0
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	157,777	10,518	0.050	\$7.90	\$0.39	0.75	3,944
Thrips	210,369	84,148	0.400	\$5.90	\$2.36	1.00	5,259
Beet Armyworm	63,111	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	168,000	94,666	0.540	\$10.35	\$5.59	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	210,369	99,925	0.570	\$7.10	\$4.05	1.00	5,259
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	40,000	10,000	0.048	\$6.35	\$0.30	0.00	0
Aphids	210,369	31,555	0.150	\$7.15	\$1.07	0.00	0
Banded Winged Whitefly	54,695	3,000	0.014	\$10.00	\$0.14	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	164,087	21,037	0.100	\$11.00	\$1.10	0.00	0
Southern Armyworms	3,000	100	0.000	\$9.00	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	11,000	600	0.003	\$7.60	\$0.02	0.00	0

Percent Lost	3.75
Total Acres	210,369
Total Bales lost	19,722
Bales lost in dollars	\$5,679,965

Est. yield/acre	565
Spray ..	4.198
Cost + loss	\$21,525,354
Cost + loss/acre	\$102.32

	Cost/ Acre
Foliar insecticide	\$32.97
At planting	\$9.28
Bt use fees	\$6.07
Eradication	\$20.20
Scouting	\$6.80
Total	\$75.32

Table 23b

Texas Lower Coastal Bend

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	68,370	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	525,920	420,736	1.200	\$9.95	\$11.94	2.00	21,913
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	525,920	462,810	1.320	\$4.65	\$6.14	0.50	5,478
Lygus	173,554	5,600	0.011	\$8.90	\$0.09	0.00	0
Cotton Leaf Perforator	60,000	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	515,800	32,000	0.061	\$9.40	\$0.57	0.00	0
Thrips	525,920	110,443	0.210	\$5.90	\$1.24	0.00	0
Beet Armyworm	141,998	1,500	0.003	\$11.00	\$0.03	0.00	0
Fall Armyworm	210,368	100,000	0.190	\$12.40	\$2.36	0.01	131
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	373,403	99,925	0.190	\$7.10	\$1.35	0.35	3,890
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	3,400	0	0.000	N/A	\$0.00	0.00	0
Aphids	525,920	289,256	0.550	\$7.19	\$3.95	0.00	0
Banded Winged Whitefly	26,000	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	420,736	90,500	0.172	\$8.80	\$1.51	0.00	0
Southern Armyworms	8,000	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	131,480	29,037	0.055	\$5.02	\$0.28	0.00	0

Percent Lost	2.87
Total Acres	525,920
Total Bales lost	31,413
Bales lost in dollars	\$9,046,875

Est. yield/acre	673
Spray applications	3.962
Cost + loss	\$42,899,028
Cost + loss/acre	\$81.57

	Cost/ Acre
Foliar insecticide	\$29.47
At planting	\$3.77
Bt use fees	\$3.31
Eradication	\$23.14
Scouting	\$4.68
Total	\$64.37

Table 23c

Texas North Rolling Plains

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	30,000	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	500,000	25,000	0.050	\$8.00	\$0.40	4.00	35,417
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	500,000	100,000	0.200	\$7.50	\$1.50	1.00	8,854
Lygus	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.00	0
Thrips	500,000	0	0.000	N/A	\$0.00	0.00	0
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	5,000	5,000	0.010	\$10.50	\$0.11	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	0	0	0.000	N/A	\$0.00	0.00	0
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	5.00
Total Acres	500,000
Total Bales lost	44,271
Bales lost in dollars	\$12,750,000

Est. yield/acre	500
Spray applications	0.260
Cost + loss	\$20,507,500
Cost + loss/acre	\$41.02

	Cost/ Acre
Foliar insecticide	\$2.01
At planting	\$0.27
Bt use fees	\$2.00
Eradication	\$11.00
Scouting	\$0.24
Total	\$15.52

Table 23d

Texas High Plains

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	85,000	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	3,114,000	1,124,500	0.423	\$6.00	\$2.54	1.98	149,861
Pink Bollworm	500,000	48,000	0.035	\$7.00	\$0.24	0.12	8,750
Cotton Fleahopper	331,000	10,000	0.003	\$6.00	\$0.02	0.00	0
Lygus	257,000	5,000	0.001	\$7.50	\$0.01	0.00	0
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	350,000	38,000	0.011	\$10.50	\$0.12	0.02	1,531
Thrips	3,100,000	150,000	0.043	\$5.50	\$0.24	0.90	67,813
Beet Armyworm	200,000	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	175,000	80,000	0.023	\$8.50	\$0.20	0.01	766
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	15,000	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	40,000	5,000	0.001	\$7.85	\$0.01	0.00	88
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	2,850,000	120,000	0.035	\$9.50	\$0.33	0.16	12,469
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Darkling Beetle	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	3.19
Total Acres	3,460,000
Total Bales lost	241,277
Bales lost in dollars	\$69,487,740

Est. yield/acre	777
Spray applications	0.575
Cost + loss	\$130,505,590
Cost + loss/acre	\$37.72

	Cost/ Acre
Foliar insecticide	\$3.70
At planting	\$2.02
Bt use fees	\$2.60
Eradication	\$8.00
Scouting	\$1.32
Total	\$17.64

Table 23e

		Texas Far West			Cotton Insect Losses – 2005		
Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	105,400	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	270,000	55,000	0.217	\$10.27	\$2.22	2.72	22,434
Pink Bollworm	68,581	0	0.000	N/A	\$0.00	0.10	814
Cotton Fleahopper	435,000	14,000	0.031	\$5.00	\$0.15	0.23	1,886
Lygus	5,000	1,500	0.003	\$13.50	\$0.04	0.00	18
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	0	0	0.000	N/A	\$0.00	0.00	0
Thrips	315,000	0	0.000	N/A	\$0.00	0.00	0
Beet Armyworm	80,000	13,000	0.028	\$14.00	\$0.40	0.18	1,445
Fall Armyworm	120,000	16,000	0.035	\$16.63	\$0.58	0.45	3,685
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	52,500	20,200	0.044	\$9.01	\$0.40	0.03	275
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	3.70
Total Acres	457,000
Total Bales lost	30,556
Bales lost in dollars	\$8,800,133

Est. yield/acre	742
Spray applications	0.358
Cost + loss	\$15,766,555
Cost + loss/acre	\$34.50

	Cost/ Acre
Foliar insecticide	\$3.80
At planting	\$0.27
Bt use fees	\$4.91
Eradication	\$6.02
Scouting	\$0.24
Total	\$15.24

Table 23f

Texas Lower Rio Grande Valley

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	186,628	186,628	3.000	\$8.75	\$26.25	2.94	10,288
Bollworm/Budworm	186,628	55,988	0.240	\$10.25	\$2.46	0.30	1,050
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	186,628	74,651	0.400	\$7.25	\$2.90	0.20	700
Lygus	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Leaf Perforator	18,663	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	74,651	10,000	0.054	\$11.75	\$0.63	0.04	140
Thrips	186,628	10,000	0.064	\$7.25	\$0.47	0.10	350
Beet Armyworm	186,628	10,000	0.053583	\$13.75	\$0.736760	0.30	1,050
Fall Armyworm	5,000	0	0.000	N/A	\$0.00	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	186,628	55,988	0.300	\$6.75	\$2.02	0.05	175
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	186,625	10,000	0.054	\$12.75	\$0.68	0.01	35
Loopers	186,628	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	3.94
Total Acres	186,628
Total Bales lost	13,787
Bales lost in dollars	\$3,970,697

Est. yield/acre	414
Spray applications	4.165
Cost + loss	\$17,659,972
Cost + loss/acre	\$94.63

	Cost/ Acre
Foliar insecticide	\$36.15
At planting	\$1.05
Bt use fees	\$14.40
Eradication	\$16.80
Scouting	\$4.95
Total	\$73.35

Table 23g

Texas Southern Rolling Plains

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	37,000	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	343,000	78,750	0.261	\$10.00	\$2.61	3.04	27,583
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	451,774	5,000	0.011	\$6.50	\$0.07	0.25	2,271
Lygus	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	21,000	800	0.004	\$20.00	\$0.07	0.02	211
Thrips	266,000	0	0.000	N/A	\$0.00	0.00	0
Beet Armyworm	10,000	1,500	0.007	\$15.00	\$0.10	0.00	20
Fall Armyworm	168,750	33,750	0.075	\$15.00	\$1.12	0.52	4,750
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	0	0	0.000	N/A	\$0.00	0.00	0
Grasshoppers	300	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	250,800	42,750	0.095	\$6.50	\$0.62	0.14	1,261
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Darkling Beetles	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	3.97
Total Acres	451,774
Total Bales lost	36,095
Bales lost in dollars	\$10,395,328

Est. yield/acre	789
Spray applications	0.452
Cost + loss	\$18,230,651
Cost + loss/acre	\$40.35

	Cost/ Acre
Foliar insecticide	\$4.59
At planting	\$1.32
Bt use fees	\$4.53
Eradication	\$5.75
Scouting	\$1.16
Total	\$17.34

Table 23h

Texas Northern Blacklands

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	58,000	58,000	5.800	\$4.50	\$26.10	7.73	6,825
Bollworm/Budworm	6,000	2,000	0.033	\$9.50	\$0.32	0.10	88
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	60,000	51,000	0.850	\$5.00	\$4.25	1.80	1,589
Lygus	13,000	0	0.000	N/A	\$0.00	0.00	0
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	10,000	5,000	0.083	\$15.00	\$1.25	0.08	74
Thrips	59,000	59,000	0.983	\$5.00	\$4.92	0.49	434
Beet Armyworm	11,000	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	48,000	1,000	0.017	\$6.00	\$0.10	0.08	71
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	25,000	10,000	0.167	\$6.00	\$1.00	0.04	37
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	10.33
Total Acres	60,000
Total Bales lost	9,116
Bales lost in dollars	\$2,625,473

Est. yield/acre	600
Spray applications	7.933
Cost + loss	\$7,437,473
Cost + loss/acre	\$123.96

	Cost/ Acre
Foliar insecticide	\$37.93
At planting	\$6.77
Bt use fees	\$17.50
Eradication	\$13.25
Scouting	\$4.75
Total	\$80.20

Table 23i

Texas Southern Blacklands

Cotton Insect Losses – 2005

Pest	acres infested	acres treated	# insect appls	Cost of 1 applic	cost/ acre	%red	Bales lost
Boll Weevil	81,000	0	0.000	N/A	\$0.00	0.00	0
Bollworm/Budworm	42,000	20,000	0.257	\$13.00	\$3.35	0.90	2,188
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0
Cotton Fleahopper	116,500	90,000	1.159	\$8.50	\$9.85	5.00	12,135
Lygus	10,000	2,500	0.021	\$9.50	\$0.20	0.04	104
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0
Spider Mites	21,000	7,000	0.060	\$15.00	\$0.90	0.36	875
Thrips	100,000	50,000	0.429	\$4.00	\$1.72	0.86	2,083
Beet Armyworm	1,500	0	0.000	N/A	\$0.00	0.00	0
Fall Armyworm	3,000	0	0.000	N/A	\$0.00	0.00	0
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0
Stink Bugs	4,000	2,500	0.021	\$10.00	\$0.21	0.01	21
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0
Aphids	30,000	4,000	0.034	\$7.00	\$0.24	0.13	313
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0
Loopers	0	0	0.000	N/A	\$0.00	0.00	0
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0

Percent Lost	7.30
Total Acres	116,510
Total Bales lost	17,719
Bales lost in dollars	\$5,103,000

Est. yield/acre	500
Spray applications	1.983
Cost + loss	\$12,183,900
Cost + loss/acre	\$104.57

	Cost/ Acre
Foliar insecticide	\$16.47
At planting	\$9.44
Bt use fees	\$15.14
Eradication	\$15.00
Scouting	\$4.72
Total	\$60.78

Table 24

Table 24		Virginia			Cotton Insect Losses – 2005			
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	0.00	0	
Bollworm/Budworm	93,000	26,040	0.380	\$8.00	\$3.04	0.00	0	
Pink Bollworm	0	0	0.000	N/A	\$0.00	0.00	0	
Cotton Fleahopper	0	0	0.000	N/A	0.00	0.00	0	
Lygus	10,000	0	0.000	N/A	\$0.00	0.00	0	
Cotton Leaf Perforator	0	0	0.000	N/A	\$0.00	0.00	0	
Spider Mites	18,600	1,000	0.011	\$10.00	\$0.11	0.00	0	
Thrips	93,000	93,000	1.000	\$6.50	\$6.50	3.66	6,684	
Beet Armyworm	0	0	0.000	N/A	\$0.00	0.00	0	
Fall Armyworm	0	0	0.000	N/A	\$0.00	0.00	0	
European Cornborer	0	0	0.000	N/A	\$0.00	0.00	0	
Stink Bugs	90,000	41,850	0.450	\$8.00	\$3.60	1.91	3,495	
Grasshoppers	0	0	0.000	N/A	\$0.00	0.00	0	
Saltmarsh Caterpillars	0	0	0.000	N/A	\$0.00	0.00	0	
Aphids	74,000	0	0.000	N/A	\$0.00	0.00	0	
Banded Winged Whitefly	0	0	0.000	N/A	\$0.00	0.00	0	
Silverleaf Whitefly (Bemesia)	0	0	0.000	N/A	\$0.00	0.00	0	
Loopers	0	0	0.000	N/A	\$0.00	0.00	0	
Southern Armyworms	0	0	0.000	N/A	\$0.00	0.00	0	
Other Insects	0	0	0.000	N/A	\$0.00	0.00	0	
Cutworms	0	0	0.000	N/A	\$0.00	0.00	0	
Percent Lost	5.58		Est. yield/acre	940			Cost/ Acre	
Total Acres	93,000		Spray applications	1.841			Foliar insecticide	\$13.25
							At planting	\$12.00
			Cost + loss	\$7,568,108			Bt use fees	\$19.80
Total Bales lost	10,179						Eradication	\$4.35
							Scouting	\$0.46
Bales lost in dollars	\$2,931,638		Cost + loss/acre	\$81.38			Total	\$49.85

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Virginia	---	Dr. Ames Herbert

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