

Cotton Insect Losses for 1994

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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, state, etc. For example, if a unit report represents 100 acres and an 8% loss on 25 of these 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. For example, if the number of insecticide applications fall below 0.1 for a state's total acreage, it is not listed.

Highlights

Anthropod pests reduced overall yield by 6.03% in spite of control measures which cost an average of \$42.74 per acre. The bollworm/budworm complex was still the number one pest in the U.S. with a yield reduction of 1.80%. 78% of the U.S. cotton acreage was infested with bollworm/budworm in 1994, requiring 1.9 applications of insecticide per acre. Weevils are a close second in 1994, reducing yields by 1.75%. These pests infested about 55% of the country's cotton crop and required about 1.7 applications of insecticide per acre. While Lygus were probably the most acclaimed pest in some parts of the cotton growing region, they remained the third most destructive pest at 1.16% reduction in yield. Three new areas are reported this year. (1) Boll weevil eradication now covers 2.8 million acres with an attendant cost of \$17 million. (2) At planting insecticide applications were made on 7.29 million acres at a cost of \$66.6 million. (3) Cutworms were added to the losses estimates for the first time. Total cost of arthropods to the 1994 crop exceeded \$994 million.

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Table 1 USDA 1994 US CROP PRODUCTION: ALL COTTON Acres in thousands, yield in pounds per acre, production in thousand 480 pound bales.

Upland	Acres harvested	Indic Yield	PRODUCTION Dec. 1 Nov.1 1993		
Alabama	460	772	740	720	469
Arizona	312	1,200	780	765	790
Arkansas	970	866	1,750	1,700	1,094
California	1,095	1,205	2,750	2,900	2,918
Florida	68	706	100	100	78
Georgia	875	812	1,480	1,400	733
Kansas	1	480	1	1	1
Louisiana	890	809	1,500	1,500	1,105
Mississippi	1,310	788	2,150	2,200	1,550
Missouri	345	835	600	580	376
New Mexico	52	738	80	80	78
N. Carolina	486	751	760	720	429
Oklahoma	365	309	235	235	270
S. Carolina	216	800	360	340	204
Tennessee	585	722	880	800	545
Texas	5,200	462	5,000	5,000	5,095
Virginia	42	650	57	57	30
Total U.S.	13,371.8	695	19,222.6	19,097.6	15,764.3
Pima Arizona	48	800	80	80	87
Pima Calif.	81	1,188	200	200	215
Pima N. Mex	12	814	20	20	19
Pima Texas	34	706	50	55	49
Total U.S.	174.6	962	350.0	355.0	369.3
All Cotton Total U. S.	13446.4	699	19,572.6	19,452.6	16,133.6

Table 2 Boll Weevil Eradication Costs By State Cotton Insect Losses for 1994

State	# acres in Eradication	Cost/Acre	Total Cost
Alabama, North	240,000	\$ 10.00	\$2,400,000
Alabama, Central	90,000	\$15.00	\$1,350,000
Alabama, South	140,000	\$ 6.50	\$ 910,000
Arizona	360,000	\$ 1.75	\$ 630,000
Arkansas			
California			
Florida	68,000	\$ 6.50	\$ 442,000
Georgia	900,000	\$ 6.50	\$ 5,850,000
Louisiana			
Mississippi	75,000	\$ 10.00	\$ 750,000
Missouri			
New Mexico			
North Carolina	486,000	\$ 2.75	\$ 1,335,500

Oklahoma			
South Carolina	216,000	\$ 2.50	\$ 540,000
Tennessee	11,600	\$ 10.00	\$ 116,000
Texas	200,000	\$ 12 to 13	\$ 2,500,000
Virginia	43,000	\$ 4.50	\$ 193,500
Total United States	2,829,600	\$ 6.01	\$ 17,017,000

Table 3 At planting insecticide applications Cotton Insect Losses for 1994

State	Number Acres	Cost/Acre	Total Cost
Alabama	449,100	\$ 10.00	\$ 4,491,000
Arizona	30,000	\$ 40.00	\$ 1,200,000
Arkansas	851,000	\$ 10.43	\$ 8,872,200
California	300,000	\$ 10.50	\$ 3,150,000
Florida	61,200	\$ 11.84	\$ 724,608
Georgia	800,000	\$ 9.20	\$ 7,360,000
Louisiana	445,000	\$10.00	\$ 4,450,000
Mississippi	1,100,000	\$ 8.00	\$ 8,800,000
Missouri	299,710	\$ 13.00	\$ 3,896,230
New Mexico	6,000	\$ 10.55	\$ 63,300
North Carolina	466,500	\$ 12.00	\$ 5,598,000
Oklahoma	200,000	\$ 4.00	\$ 800,000
South Carolina	200,000	\$ 13.00	\$ 2,600,000
Tennessee	430,000	\$ 11.00	\$ 4,730,000
Texas	1,611,425	\$ 6.10	\$ 9,830,418
Virginia	43,000	\$1.00	\$ 43,000
Total United States	7,292,935	\$ 9.13	\$ 66,608,756

Table 4 Summary of ALL STATES Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	1199776	307080	0.0	5.53	0.01	2395
Boll Weevils	7435111	5247497	1.7	4.97	1.75	346022
Boll/Bud Worms	10475366	7316227	1.9	8.99	1.80	356222
Fleahopper	3156175	797585	0.1	4.53	0.02	3876
Lygus bugs	6930676	3957551	0.6	5.47	1.16	230010
Leaf perforator	199200	75000	0.0	14.00	0.00	918
Pink bollworm	376500	356500	0.1	9.49	0.16	30643
Spider mites	2096859	907700	0.2	26.14	0.29	56635
Thrips	9095686	3091717	0.3	3.93	0.16	31511
Beet armyworm	2109988	391700	0.0	12.02	0.05	8996
Fall armyworm	1088562	187800	0.0	8.57	0.03	5011
Eur corn borer	544698	500500	0.0	5.89	0.12	22773
Stink bug	1677418	728000	0.0	4.54	0.09	17943
Grasshopper	229600	24000	0.0	5.15	0.00	386
SM caterpillar	308864	24500	0.0	9.54	0.00	6
Aphids	9288637	3189408	0.3	13.62	0.30	60140
Bnded w whitefly	1234764	152150	0.0	5.04	0.00	775
Swt pot whitefly	851610	416585	0.0	19.00	0.08	15819
Soybean looper	1410576	333000	0.0	9.63	0.00	975
Cabbage looper	801100	123000	0.0	9.96	0.00	143
W Flower Thrips	2512709	15000	0.0	5.95	0.00	9

Acreage harvested: 3,295,607 Yield per Acre: 1.49 Bales

Percent Lost: 6.03 Dollars Lost: \$ 343,067,693 Cost per Acre: \$ 42.74

Table 5 Central Alabama Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	90000	90000	8.0	9.00	15.00	18281
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	90000	90000	2.5	2.50	5.00	6094
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	90000	90000	1.5	1.25	1.00	1219
Beet armyworm	90000	1000	0.0	9.50	0.00	0
Fall armyworm	30000	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	90000	80000	0.0	0.00	0.00	0
Bnded w whitefly	90000	45000	0.5	4.50	0.50	609
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	5000	3000	0.0	9.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 90000 Yield per acre: 1.35 Bales

Percent Lost: 21.50 Dollars Lost: \$ 7,546,500 Cost per Acre: \$ 82.78

Table 6 North Alabama Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	105000	72000	0.1	5.20	0.03	122
Boll Weevils	210000	210000	2.6	2.10	1.75	7088
Boll/Bud Worms	240000	240000	2.7	5.30	6.00	24300
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	240000	225000	1.9	2.50	7.50	30375
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	215000	30000	0.0	6.90	0.13	506
Thrips	240000	10000	0.0	1.15	0.02	84
Beet armyworm	120000	10000	0.0	4.00	0.00	0
Fall armyworm	90000	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	15000	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	240000	120000	0.0	0.00	0.10	405
Bnded w whitefly	170000	30000	0.0	3.50	0.03	101
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	200000	5000	0.0	0.00	0.00	17
Cabbage looper	0	0	0.0	0.00	0.00	0

W Flower Thrips	240000	0	0.0	0.00	0.00	0
Acreage harvested: 240000 Yield per Acre: 1.69 Bales						
Percent Lost: 15.56 Dollars Lost: \$ 18,143,352 Cost per Acre: \$ 25.13						

Table 7 South Alabama Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	140000	140000	5.0	6.50	2.00	4958
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	140000	140000	2.5	2.50	7.00	17354
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	140000	70000	0.5	1.25	0.00	0
Beet armyworm	70000	1000	0.0	8.00	0.00	0
Fall armyworm	140000	70000	1.0	6.00	0.75	1859
Eur corn borer	10000	8000	0.1	5.50	0.02	43
Stink bug	140000	80000	0.6	2.50	0.29	708
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	140000	120000	0.0	0.00	0.00	0
Bnded w whitefly	140000	30000	0.0	3.50	0.02	53
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	15000	3000	0.0	9.00	0.00	5
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 140000 Yield per Acre: 1.77 Bales						
Percent Lost: 10.08 Dollars Lost: \$ 7,194,570 Cost per Acre: \$ 47.44						

Table 8 Summary: Alabama Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	105000	72000	0.0	5.20	0.02	122
Boll Weevils	210000	210000	1.3	2.10	0.91	7088
Boll/Bud Worms	470000	470000	4.4	6.99	6.14	47540
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	470000	455000	2.2	2.50	6.95	53823
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	215000	30000	0.0	6.90	0.07	506
Thrips	470000	170000	0.4	1.25	0.17	1303
Beet armyworm	280000	12000	0.0	7.17	0.00	0
Fall armyworm	260000	70000	0.3	6.00	0.24	1859
Eur corn borer	10000	8000	0.0	5.50	0.01	43
Stink bug	140000	80000	0.2	2.50	0.09	708
Grasshopper	15000	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	470000	320000	0.0	0.00	0.05	405
Bnded w whitefly	400000	105000	0.1	4.38	0.10	764
Swt pot whitefly	0	0	0.0	0.00	0.00	0

Soybean looper	220000	11000	0.0	9.00	0.00	22
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	240000	0	0.0	0.00	0.00	0
Acreage harvested: 470000 Yield per acre: 1.65 Bales						
Percent Lost: 14.74 Dollars Lost: \$ 32,884,422 Cost per Acre: \$ 42.82						

Table 9 Northeast Arkansas Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	200000	20000	0.0	7.50	0.06	552
Boll Weevils	450000	400000	3.2	5.65	3.60	33150
Boll/Bud Worms	450000	400000	1.6	8.50	1.60	14733
Fleahopper	20000	0	0.0	0.00	0.00	0
Lygus bugs	400000	250000	0.5	3.50	1.00	9208
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	10000	5000	0.0	10.00	0.01	46
Thrips	150000	50000	0.1	5.35	0.10	921
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	200000	1000	0.0	9.00	0.00	2
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	10000	5000	0.0	6.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	400000	50000	0.1	9.95	0.10	921
Bnded w whitefly	100000	1000	0.0	11.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	50000	0	0.0	0.00	0.00	0
Cabbage looper	25000	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 500000 Yield per acre: 1.84 Bales

Percent Lost: 6.47 Dollars Lost: \$ 17,145,710 Cost per Acre: \$ 35.46

Table 10 Southeast Arkansas Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	50000	20000	0.0	7.50	0.06	540
Boll Weevils	470000	470000	5.0	5.65	4.00	33840
Boll/Bud Worms	470000	470000	4.5	11.41	2.00	16920
Fleahopper	270000	40000	0.1	6.00	0.04	360
Lygus bugs	470000	470000	3.0	4.12	2.00	16920
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	52000	5000	0.0	10.00	0.00	0
Thrips	170000	100000	0.2	5.35	0.00	0
Beet armyworm	100000	10000	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	205000	105000	0.2	9.93	0.22	1890

Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	25000	0	0.0	0.00	0.00	0
Cabbage looper	25000	0	0.0	0.00	0.00	0
W Flower Thrips	50000	0	0.0	0.00	0.00	0
Acreage harvested: 470000 Yield per acre: 1.80 Bales						
Percent Lost: 8.33 Dollars Lost: \$ 20,295,360 Cost per Acre: \$ 96.25						

Table 11 Summary: Arkansas Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	250000	40000	0.0	7.50	0.06	1093
Boll Weevils	920000	870000	4.1	5.65	3.79	66990
Boll/ Bud Worms	920000	870000	3.0	10.61	1.79	31653
Fleahopper	290000	40000	0.0	6.00	0.02	360
Lygus bugs	870000	720000	1.7	4.03	1.48	26128
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	62000	10000	0.0	10.00	0.00	46
Thrips	320000	150000	0.2	5.35	0.05	921
Beet armyworm	100000	10000	0.0	0.00	0.00	0
Fall armyworm	200000	1000	0.0	9.00	0.00	2
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	10000	5000	0.0	6.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	605000	155000	0.2	9.94	0.16	2811
Bnded w whitefly	100000	1000	0.0	11.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	75000	0	0.0	0.00	0.00	0
Cabbage looper	50000	0	0.0	0.00	0.00	0
W Flower Thrips	50000	0	0.0	0.00	0.00	0
Acreage harvested: 970000 Yield per Acre: 1.82 Bales						
Percent Lost: 7.36 Dollars Lost: \$ 37,441,070 Cost per Acre: \$ 64.91						

Table 12 Arizona Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	1000	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	60000	5000	0.0	14.00	0.00	31
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	312000	250000	1.2	12.00	4.81	36719
Leaf perforator	150000	75000	0.2	14.00	0.12	918
Pink bollworm	300000	300000	2.9	10.00	3.85	29375
Spider mites	20000	0	0.0	0.00	0.00	0
Thrips	312000	15000	0.0	6.00	0.00	0
Beet armyworm	250000	50000	0.2	15.00	0.04	306
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	40000	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	100000	20000	0.1	10.00	0.00	0

Aphids	25000	5000	0.0	15.00	0.00	0
Bnded w whitefly	100000	0	0.0	0.00	0.00	0
Swt pot whitefly	300000	275000	4.4	20.00	1.76	13464
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	25000	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 312000 Yield per acre: 2.45 Bales						
Percent Lost: 10.58 Dollars Lost: \$ 23,273,813 Cost per Acre: \$138.57						

Table 13 California Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	0	0	0.0	0.00	0.00	0
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	832400	251900	0.2	29.48	0.08	2548
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	1043250	763300	1.5	27.49	1.78	55358
Thrips	0	0	0.0	0.00	0.00	0
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	1099350	669750	1.0	27.86	0.97	30254
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	22050	11025	0.0	40.00	0.00	144
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.0	0.00	0
Acreage harvested: 1197000 Yield per acre: 2.60 Percent Lost: 2.83						
Percent Lost: 2.83 Dollars Lost: \$ 25,431,281 Cost per Acre: \$ 75.55						

Table 14 Florida Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	200	0	0.0	0.00	0.00	0
Boll Weevils	200	0	0.0	0.00	0.00	0
Boll/Bud Worms	66000	66000	5.3	7.17	3.69	3653
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	8000	6000	0.0	2.96	0.13	124
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	150	100	0.0	0.00	0.00	0
Thrips	66000	22000	0.3	9.12	0.29	290
Beet armyworm	7200	1500	0.0	9.16	0.03	29
Fall armyworm	10000	5000	0.1	10.43	0.12	121
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	1200	1000	0.0	6.10	0.02	17
Grasshopper	0	0	0.0	0.00	0.00	0

SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	66000	0	0.0	0.00	0.00	0
Bnded w whitefly	7500	1000	0.0	8.61	0.00	1
Swt pot whitefly	1000	500	0.0	8.61	0.00	0
Soybean looper	900	300	0.0	7.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	250	0	0.0	0.00	0.00	0
Acreage harvested: 66000 Yield per Acre: 1.50 Bales						
Percent Lost: 4.28 Dollars Lost: \$ 1,220,193 Cost per Acre: \$ 42.06						

Table 15 Georgia Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	50000	20000	0.0	6.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	900000	850000	4.3	8.00	1.93	28688
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	750000	200000	0.2	5.50	0.23	3375
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	750000	135000	0.2	5.00	0.00	0
Beet armyworm	100000	10000	0.0	10.00	0.00	0
Fall armyworm	100000	20000	0.0	12.00	0.09	1350
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	400000	100000	0.0	6.00	0.23	3375
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	500000	100000	0.0	6.00	0.00	0
Bnded w whitefly	100000	25000	0.0	6.50	0.00	0
Swt pot whitefly	2500	5000	0.0	12.00	0.01	84
Soybean looper	50000	10000	0.0	12.00	0.01	169
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 880000 Yield per acre: 1.69 Bales						
Percent Lost: 2.49 Dollars Lost: \$ 10,667,700 Cost per Acre: \$ 37.94						

Table 16 Louisiana Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	200000	10000	0.0	4.00	0.00	8
Boll Weevils	865000	835000	5.7	4.25	5.19	77881
Boll/Bud Worms	885000	850000	4.8	10.25	2.88	43244
Fleahopper	150000	10000	0.0	4.35	0.00	3
Lygus bugs	820000	528000	0.9	4.35	0.60	8954
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	200000	10000	0.0	9.75	0.00	7
Thrips	440000	400000	0.5	3.10	0.23	3392
Beet armyworm	295000	15000	0.0	10.75	0.01	127
Fall armyworm	100000	1000	0.0	10.75	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	130000	1000	0.0	6.40	0.00	0

Aphids	825000	300000	0.2	5.25	0.10	1526
Bnded w whitefly	210000	20000	0.0	5.94	0.00	10
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	400000	75000	0.0	8.51	0.01	127
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	600000	0	0.0	0.00	0.00	0
Acreage harvested: 885000 Yield per Acre: 1.70 Bales						
Percent Lost: 9.01 Dollars Lost: \$ 38,960,791 Cost per Acre: \$ 80.15						

Table 17 Mississippi Delta Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	94964	41010	0.1	3.52	0.03	355
Boll Weevils	615641	462574	2.2	2.73	1.45	18329
Boll/Bud Worms	734641	734641	4.8	9.37	4.41	55794
Fleahopper	82000	27000	0.1	0.20	0.00	0
Lygus bugs	686731	655281	3.3	5.01	4.66	58966
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	121364	0	0.0	0.00	0.00	0
Thrips	467241	269899	0.4	2.10	0.20	2566
Beet armyworm	317241	105000	0.3	11.80	0.40	5075
Fall armyworm	40000	2500	0.0	7.00	0.00	4
Eur corn borer	1000	1000	0.0	0.00	0.00	17
Stink bug	68364	0	0.0	0.00	0.00	0
Grasshopper	38000	0	0.0	0.00	0.00	0
SM caterpillar	63364	500	0.0	8.00	1.27	1
Aphids	495741	322500	0.6	5.04	0.00	16024
Bnded w whitefly	63364	150	0.0	6.50	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	242364	101300	0.3	10.00	0.00	8
Cabbage looper	228000	101000	0.3	9.95	0.00	0
W Flower Thrips	61364	0	0.0	0.00	0.00	0
Acreage harvested: 751152 Yield per acre: 1.69 Bales						
Percent Lost: 12.41 Dollars Lost: \$ 45,255,680 Cost per Acre: \$ 79.56						

Table 18 Mississippi Hills Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	121552	44090	0.1	3.13	0.02	137
Boll Weevils	509501	503351	6.2	3.51	5.50	46828
Boll/Bud Worms	489091	471621	3.1	8.63	3.54	30157
Fleahopper	23750	0	0.0	0.00	0.00	0
Lygus bugs	475105	425600	1.9	3.83	2.05	17441
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	30500	3000	0.0	6.00	0.00	0
Thrips	411850	263918	0.7	2.57	0.17	1408
Beet armyworm	199747	78200	0.2	10.46	0.18	1491
Fall armyworm	101662	15500	0.0	10.80	0.03	255
Eur corn borer	2698	500	0.0	10.00	0.00	10
Stink bug	26854	0	0.0	0.00	0.00	0

Grasshopper	46600	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	322217	113058	0.2	5.49	0.05	445
Bnded w whitefly	93900	0	0.0	0.00	0.00	0
Swt pot whitefly	20500	0	0.0	0.00	0.00	0
Soybean looper	207312	60400	0.2	9.08	0.08	649
Cabbage looper	85100	9000	0.0	8.28	0.00	38
W Flower Thrips	115500	0	0.0	0.00	0.00	0
Acreage harvested: 532521 Yield per Acre: 1.60 Bales						
Percent Lost: 11.61 Dollars Lost: \$ 28,471,542 Cost per Acre: \$ 63.74						

Table 19 Summary: Mississippi Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	216516	85100	0.1	3.32	0.02	492
Boll Weevils	1125142	965925	3.9	3.25	3.08	65157
Boll/Bud worms	1223732	1206262	4.1	9.13	4.06	85951
Fleahopper	105750	27000	0.0	0.20	0.00	0
Lygus bugs	1161836	1080881	2.7	4.67	3.61	76406
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	151864	3000	0.0	6.00	0.00	0
Thrips	879091	533817	0.6	2.36	0.19	3974
Beet armyworm	516988	183200	0.2	11.27	0.31	6566
Fall armyworm	141662	18000	0.0	10.39	0.01	259
Eur corn borer	3698	1500	0.0	10.00	0.00	27
Stink bug	95218	0	0.0	0.00	0.00	0
Grasshopper	84600	0	0.0	0.00	0.00	0
SM caterpillar	63364	500	0.0	8.00	0.00	1
Aphids	817958	435558	0.4	5.13	0.78	16469
Bnded w whitefly	157264	150	0.0	6.50	0.00	0
Swt pot whitefly	20500	0	0.0	0.00	0.00	0
Soybean looper	449676	161700	0.2	9.72	0.03	657
Cabbage looper	313100	110000	0.2	9.88	0.00	38
W Flower Thrips	176864	0	0.0	0.00	0.00	0
Acreage harvested: 1283673 Yield per acre: 1.65 Bales						
Percent Lost: 12.09 Dollars Lost: \$ 73,727,222 Cost per Acre: \$ 73.00						

Table 20 Missouri Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	69360	34680	0.1	9.00	0.01	26
Boll Weevils	255000	231200	3.4	7.00	2.04	10549
Boll/Bud Worms	272000	221000	0.8	9.50	0.49	2521
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	175440	160820	0.6	9.00	0.24	1223
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	17000	17000	0.1	12.00	0.00	3
Thrips	224400	27000	0.1	6.00	0.02	82
Beet armyworm	45900	0	0.0	0.00	0.00	0
Fall armyworm	0	23800	0.1	13.00	0.00	18
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0

SM caterpillar	80920	0	0.0	0.00	0.00	0
Aphids	80000	0	0.0	0.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 340000 Yield per Acre: 1.52 Bales						
Percent Lost: 2.79 Dollars Lost: \$ 4,153,353 Cost per Acre: \$ 39.87						

Table 21 New Mexico Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	2600	700	0.0	10.00	0.05	53
Boll Weevils	800	0	0.0	0.00	0.00	0
Boll/Bud Worms	19500	8750	0.2	14.00	0.54	540
Fleahopper	14625	3375	0.1	9.50	0.17	169
Lygus bugs	21800	3950	0.1	9.45	0.23	230
Leaf perforator	2200	0	0.0	0.00	0.00	0
Pink bollworm	19500	8500	0.5	11.00	1.06	1063
Spider mites	8500	3100	0.1	11.50	0.05	52
Thrips	37300	7900	0.2	11.50	0.66	658
Beet armyworm	16900	12000	0.3	9.75	1.20	1200
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	5000	1500	0.0	10.00	0.05	50
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	35775	5100	0.1	10.50	0.51	510
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 60000 Yield per acre: 1.67 Bales						
Percent Lost: 4.52 Dollars Lost: \$ 1,302,840 Cost per Acre: \$ 16.63						

Table 22 North Carolina Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	486000	480000	3.6	8.75	6.37	50880
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	486000	7000	0.0	6.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	486000	60000	0.1	5.00	0.06	497
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	121000	19000	0.0	13.00	0.02	189
Eur corn borer	486000	486000	0.0	000	2.82	22538
Stink bug	486000	486000	0.0	0.00	1.41	11269
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0

Aphids	486000	0	0.0	0.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acres harvested: 482000 Yield per acre: 1.66 Bales

Percent Lost: 10.69 Dollars Lost: \$ 24,587,442 Cost per Acre: \$ 32.34

Table 23 Oklahoma Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	350000	15400	1.2	5.95	3.16	10010
Boll/Bud Worms	380000	140000	0.7	9.90	1.69	5367
Fleahoppers	380000	92000	0.2	5.00	0.18	575
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	20000	10000	0.1	8.75	0.01	32
Thrips	350000	100000	0.3	5.00	0.17	550
Beet armyworm	50000	0	0.0	0.00	.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	10000	2000	0.0	5.75	0.00	4
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	100000	75000	0.4	7.25	0.39	1250
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acres harvested: 380000 Yield per acre: 0.83 Bales

Percent Lost: 5.62 Dollars Lost: \$ 5,122,800 Cost per Acre: \$ 20.41

Table 24 South Carolina Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	215000	210000	4.4	6.50	3.40	12173
Fleahopper	10000	500	0.0	5.00	0.00	17
Lygus bugs	70000	3000	0.0	5.00	0.03	99
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	15000	2000	0.0	14.00	0.05	166
Thrips	205000	50000	0.5	5.50	0.46	1656
Beet armyworm	10000	2000	0.0	14.50	0.02	83
Fall armyworm	25000	10000	0.1	13.00	0.23	828
Eur corn borer	40000	5000	0.0	6.00	0.05	166
Stink bug	40000	28000	0.3	6.00	0.39	1391
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	100000	10000	0.1	6.50	0.05	166

Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	15000	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.0	0.00	0
W Flower Thrips	216000	0	0.0	0.00	0.00	0
Acreage harvested: 216000 Yield per acre: 1.66 Bales						
Percent Lost: 4.68 Dollars Lost: \$ 4,822,470 Cost per acre: \$ 35.05						

Table 25 Tennessee Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	60000	20000	0.0	6.00	0.07	602
Boll Weevils	520000	390000	2.7	5.25	3.33	29331
Boll/Bud Worms	340000	90000	0.3	9.75	0.46	4061
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	450000	220000	0.8	5.00	2.26	19855
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	15000	2000	0.0	9.00	0.00	30
Thrips	480000	180000	0.3	4.00	0.31	2708
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	35000	5000	0.0	12.00	0.04	376
Eur corn borer	5000	0	0.0	0.00	0.00	0
Stink bug	200000	15000	0.0	5.25	0.13	1128
Grasshopper	15000	2000	0.0	5.00	0.00	30
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	190000	15000	0.0	7.00	0.03	226
Bnded w whitefly	80000	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.0	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	75000	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 585000 Yield per Acre: 1.50 Bales						
Percent Lost: 6.63 Dollars Lost: \$ 16,803,828 Cost per Acre: \$ 22.66						

Table 26 Texas, District 1 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	75000	50000	1.0	6.60	1.00	1120
Boll/Bud Worms	100000	45000	0.4	10.10	0.36	403
Fleahopper	40000	10000	0.1	4.55	0.00	0
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	125000	45000	0.4	4.75	0.58	645
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0

Aphids	85000	25000	0.2	7.80	0.04	45
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 125000 Yield per Acre: 0.90 Bales						
Percent Lost: 1.98 Dollars Lost: \$ 637,260 Cost per Acre: \$ 13.87						

Table 27 Texas, District 2 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	1100000	120000	0.1	6.60	0.01	313
Boll/Bud Worms	2000000	850000	0.4	10.10	0.66	20365
Fleahopper	180000	30000	0.0	4.55	0.00	0
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	80000	20000	0.0	15.00	0.00	21
Thrips	2500000	750000	0.3	4.75	0.36	10938
Beet armyworm	150000	50000	0.0	11.80	0.01	260
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bugs	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	2000000	700000	0.3	7.80	0.12	3646
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 2950000 Yield per acre: 1.04 Bales						
Percent Lost: 1.16 Dollars Lost: \$ 10,236,000 Cost per Acre: \$ 9.07						

Table 28 Texas, District 3 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	550000	280000	1.0	5.75	7.07	14770
Boll/Bud Worms	550000	66000	0	12.08	0.83	1741
Fleahopper	550000	60000	0.1	4.75	0.38	791
Lygus bugs	70000	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	45000	18000	0.0	12.58	0.19	396
Thrips	410000	27000	0.1	3.76	0.01	12
Beet armyworm	45000	26000	0.1	14.75	0.16	343
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	10000	1000	0.0	7.86	0.00	4
Grasshopper	80000	20000	0.0	5.11	0.17	352

SM caterpillar	15000	3000	0.0	7.75	0.00	5
Aphids	550000	45000	0.1	7.73	0.38	791
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	10000	8000	0.0	12.00	0.03	70
W Flower Thrips	550000	10000	0.0	4.86	0.00	9

Acreage harvested: 475000 Yield per acre: 0.44 Bales

Percent Lost: 9.24 Dollars Lost: \$ 5,553,815 Cost per Acre: \$ 12.86

Table 29 Texas, District 4 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	38000	30000	1.6	4.50	3.32	1050
Boll/Bud Worms	38000	20000	1.1	3.00	0.74	233
Fleahopper	38000	25000	1.3	2.00	0.79	250
Lygus bug	38000	10000	0.3	4.00	0.26	83
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	38000	38000	1.0	2.00	0.50	158
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	0	0	0.0	0.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 38000 Yield per Acre: 0.83 Bales

Percent Lost: 5.61 Dollars Lost: \$ 511,200 Cost Per Acre: \$ 15.95

Table 30 Texas, District 5 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	4500	4500	3.0	7.50	4.00	300
Boll/Bud Worms	4500	4500	2.0	10.00	4.00	300
Fleahopper	4500	2000	0.9	7.50	0.00	0
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	0	0	0.0	0.00	0.00	0
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0

Aphids	0	0	0.0	0.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 4500 Yield per acre: 1.67 Percent Lost: 8.00						
Percent Lost: 8.00 Dollars Lost: \$ 172,800 Cost Per Acre: \$ 49.17						

Table 31 Texas, District 6 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	276000	130000	1.1	6.50	1.09	3331
Boll/Bud Worms	357739	150000	0.6	11.50	0.50	1538
Fleahopper	300000	5000	0.0	4.20	0.00	0
Lygus bugs	30000	3000	0.0	6.35	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	57000	48000	0.4	6.00	0.07	205
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	100000	5000	0.0	7.70	0.00	0
Beet armyworm	80000	15000	0.1	16.00	0.02	64
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	40000	500	0.0	6.50	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	357739	140000	0.6	6.87	0.31	957
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	60	60	0.0	16.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	100000	5000	0.0	7.70	0.00	0
Acreage harvested: 357739 Yield per acre: 0.85 Bales						
Percent Lost: 1.99 Dollars Lost: \$ 1,755,210 Cost Per Acre: \$ 22.45						

Table 32 Texas, District 7 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	200000	125000	0.7	5.00	5.56	5208
Boll/Bud Worms	200000	55000	0.3	8.00	0.61	573
Fleahopper	200000	10000	0.1	4.00	0.04	34
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	25000	5000	0.1	11.00	0.02	17
Thrips	0	0	0.0	0.00	0.00	0
Beet armyworm	50000	5000	0.0	12.00	0.02	17
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	20000	0	0.0	0.00	0.00	0
Grasshopper	25000	0	0.0	0.00	0.00	0

SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	200000	40000	0.2	6.00	0.44	417
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 180000 Yield per Acre: 0.52 Bales						
Percent Lost: 6.68 Dollars Lost: \$ 1,804,800 Cost Per Acre: \$ 8.42						

Table 33 Texas, District 8 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	1885574	185574	2.4	10.00	7.54	11908
Boll/Bud Worms	175000	175000	3.6	5.00	4.44	7018
Fleahopper	150000	100000	0.4	8.50	1.02	1604
Lygus bugs	65000	55000	0.3	9.00	0.28	441
Leaf perforator	5000	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	0	0	0.0	0.00	0.00	0
Thrips	100000	85000	0.5	8.50	0.86	1364
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	20000	10000	0.0	10.50	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	10000	8000	0.0	10.00	0.02	32
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 197000 Yield per Acre: 0.80 Bales						
Percent Lost: 14.16 Dollars Lost: \$ 6,441,648 Cost per Acre: \$ 51.65						

Table 34 Texas, District 9 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	10000	2500	0.0	2.00	0.00	0
Boll Weevils	120000	60000	0.4	4.40	0.05	137
Boll/Bud Worms	130000	105000	1.4	9.50	0.13	342
Fleahopper	110000	55000	0.1	2.10	0.01	27
Lygus bugs	3500	3000	0.0	2.10	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	17500	12000	0.2	14.00	0.00	2
Thrips	120000	25000	0.1	1.30	0.00	0
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0

Aphids	45000	10000	0.1	8.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 160000 Yield per Acre: 1.63 Bales						
Percent Lost: 0.20 Dollars Lost: \$ 146,390 Cost per Acre: \$ 18.16						

Table 35 Texas, District 10 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	100	100	0.0	8.80	0.00	0
Boll Weevils	16595	16595	7.0	8.80	10.00	2939
Boll/Bud Worms	16595	16595	4.0	10.95	10.00	2939
Fleahopper	10000	500	0.0	6.50	0.00	0
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	16595	200	0.0	12.00	0.00	0
Thrips	16595	4000	0.2	6.50	0.48	141
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	16595	0	0.0	0.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	5000	0	0.0	0.00	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	0	0	0.0	0.00	0.00	0
W Flower Thrips	16595	0	0.0	0.00	0.00	0
Acreage harvested: 16595 Yield per Acre: 1.77 Bales						
Percent Lost: 20.48 Dollars Lost: \$ 1,733,510 Cost per Acre: \$ 107.36						

Table 36 Texas, District 11 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	215000	21000	0.1	5.00	0.00	0
Boll Weevils	360300	349703	5.8	6.00	5.82	29331
Boll/Bud Worms	360300	144120	0.8	9.00	0.80	4029
Fleahopper	360300	252210	0.7	4.06	0.00	0
Lygus bugs	296700	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	95000	2000	0.0	6.00	0.00	0
Thrips	360300	159000	0.4	4.70	0.44	2223
Beet armyworm	158900	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bugs	170000	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	500	0	0.0	0.00	0.00	0
Aphids	360300	910000	0.3	4.70	0.13	636

Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	215000	75000	0.0	0.00	0.42	2097
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage looper	65000	5000	0.0	0.00	0.01	35
W Flower Thrips	300000	0	0.0	0.00	0.00	0
Acreage harvested: 360300 Yield per acre: 1.40 Bales						
Percent Lost: 7.61 Dollars Lost: \$ 11,045,162 Cost per Acre: \$ 48.57						

Table 37 Texas, District 12 Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	20000	1000	0.0	8.50	0.00	0
Boll Weevils	263000	240000	4.1	6.50	2.75	8610
Boll/Bud Worms	263000	175000	1.3	9.50	0.03	105
Fleahopper	263000	75000	0.3	4.50	0.01	45
Lygus bugs	0	0	0.0	0.0	0.00	0
Leaf perforator	10000	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	50000	0	0.0	0.00	0.00	0
Thrips	263000	60000	0.2	6.00	0.00	0
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	50000	15000	0.1	9.50	0.00	9
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	263000	40000	0.2	5.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	263000	50000	0.6	8.50	0.01	30
Soybean looper	200000	75000	0.4	9.50	0.00	0
Cabbage looper	263000	0	0.0	0.00	0.00	0
W Flower Thrips	263000	0	0.0	0.00	0.00	0
Acreage harvested: 262000 Yield per acre: 1.20 Bales						
Percent Lost: 2.81 Dollars Lost: \$ 2,533,923 Cost per Acre: \$ 52.70						

Table 38 Summary: Texas Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	245100	24600	0.0	4.85	0.00	0
Boll Weevils	3188969	1591372	1.0	6.52	1.55	79016
Boll/Bud Worms	4195134	1806215	0.7	8.93	0.78	39585
Fleahopper	2205800	624710	0.1	4.64	0.05	2752
Lygus bugs	503200	71000	0.0	7.80	0.01	525
Leaf perforator	15000	0	0.00.0	0.00	0.00	0
Pink bollworm	57000	48000	0.0	6.00	0.00	205
Spider mites	329095	57200	0.0	13.47	0.01	436
Thrips	4032895	1198000	0.2	5.00	0.30	15480
Beet armyworm	483900	96000	0.0	13.18	0.01	685
Fall armyworm	50000	15000	0.0	9.50	0.00	9
Eur corn borer	0	0	0.0	0.00	0.00	0
Stink bug	260000	11500	0.0	8.64	0.00	4
Grasshopper	105000	20000	0.0	5.11	0.01	352
SM caterpillar	15500	3000	0.0	7.75	0.00	5
Aphids	3887634	1099000	0.3	7.33	0.13	6523
Bnded w whitefly	0	0	0.0	0.00	0.00	0

Swt pot whitefly	483060	125060	0.0	8.50	0.04	2127
Soybean looper	200000	75000	0.0	9.50	0.00	0
Cabbage looper	338000	13000	0.0	12.00	0.00	105
W Flower Thrips	1229595	15000	0.0	5.95	0.00	9
Acreage harvested: 5126134 Yield per acre: 0.99 Bales						
Percent Lost: 2.90 Dollars Lost: \$ 42,571,719 Cost per Acre: \$ 17.78						

Table 39 Virginia Cotton Insect Losses for 1994

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Cutworms	0	0	0.0	0.00	0.00	0
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud Worms	43000	43000	1.7	11.00	0.50	336
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spier mites	0	0	0.0	0.00	0.00	0
Thrips	43000	43000	2.0	1.00	0.00	0
Beet armyworm	0	0	0.0	0.0	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Eur corn borer	0		0.0	0.00	0.00	0
Stink bug	0	0	0.0	0.00	0.00	0
Grasshopper	0	0	0.0	0.00	0.00	0
SM caterpillar	0	0	0.0	0.00	0.00	0
Aphids	0	0	0.0	0.00	0.00	0
Bnded w whitefly	0	0	0.0	0.00	0.00	0
Swt pot whitefly	0	0	0.0	0.0	0.00	0
Soybean looper	0	0	0.0	0.00	0.00	0
Cabbage loope	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 42800 Yield per acre: 1.56 Bales						
Percent Lost: 0.50 Dollars Lost: \$ 96,750 Cost per Acre: \$ 20.80						