

Table 1 USDA 1990 US CROP PRODUCTION: ALL COTTON

Acres in thousands, yield in pounds per acre, production in thousand 480-pound bales, selected states.

UPLAND	ACRES HVSTD	INDIC YIELD	PRODUCTION DEC 1 NOV 1 1989		
Alabama	398	482	400	380	383
Arizona	344	1,116	800	830	649
Arkansas	740	714	1,100	1,050	851
California	1,040	1,292	2,800	2,650	2,661
Georgia	345	529	380	350	342
Louisiana	790	729	1,200	1,200	868
Mississippi	1,180	753	1,850	1,800	1,555
Missouri	235	623	305	280	269
New Mexico	50	768	80	80	80
North Carolina	200	624	260	260	141
Oklahoma	360	467	350	340	173
South Carolina	154	452	145	145	154
Tennessee	525	448	490	490	476
Texas	4,900	470	4,800	4,680	2,870
US	11,297	638	15,013	14,508	11,504
--PIMA--					
Arizona	124	816	210	210	477
California	26	1,050	56	56	40
New Mexico	20	696	29	30	45
Texas	58	745	90	100	129
US	228	812	386	397	692
---ALL COTTON---					
US	11,525	641	15,399	14,905	12,196

Table 2 All States Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	4887400	2413058	0.6	4.99	0.60	88293
Boll/Bud worms	9532942	6063315	1.6	7.43	1.73	255423
Fleahopper	4256045	1006502	0.1	3.38	0.10	14736
Lygus bugs	4584872	2228908	0.3	6.32	0.91	135097
Leaf perforator	217750	110550	0.0	9.00	0.00	255
Pink bollworm	573280	436280	0.3	9.90	0.33	48878
Spider mites	2792391	1420521	0.2	15.40	1.24	183143
Thrips	8176557	3870154	0.4	4.83	0.34	50010
Beet armyworm	1630700	803975	0.2	10.44	0.29	43318
Fall armyworm	847630	319195	0.0	9.72	0.07	9701
Minor pests	1660400	779875	0.1	8.55	0.07	10424
Aphids	7577912	3758969	0.4	5.66	0.64	95286
New pests	158000	80000	0.0	9.26	0.01	1642
W Flower Thrips	3622692	367478	0.0	7.99	0.08	11354
Acreage harvested: 11526338 Yield per acre: 1.28 Bales						
Percent Lost: 6.41 Dollars Lost: 272,897,105 Cost per Acre: 30.66						

Table 3 North Alabama Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	240000	180000	1.1	2.00	1.50	3150
Boll/Bud worms	240000	200000	1.7	4.90	1.67	3500
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	240000	170000	0.8	2.00	1.42	2975
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	60000	0.5	5.50	0.50	1050
Thrips	240000	20000	0.0	0.90	0.00	0
Beet armyworm	130000	10000	0.0	8.75	0.02	44
Fall armyworm	60000	15000	0.0	0.00	0.06	131
Minor Pests	180000	3000	0.0	6.00	0.00	0
Aphids	240000	100000	0.2	3.10	0.42	875
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	240000	140000	0.0	0.00	1.75	3675
Acreage harvested: 240000 Yield per acre: 0.88 Bales						
Percent Lost: 7.33 Dollars Lost: 4,435,200 Cost per Acre: 15.43						

Table 4 Alabama (North) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	95000	95000	3.0	2.50	1.00	891
Boll/Bud worms	95000	95000	3.0	5.25	1.00	891
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus Bug	95000	2000	0.0	0.00	0.00	2
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	5000	0.0	0.00	0.00	0
Thrips	95000	95000	0.1	2.30	0.00	0
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	95000	70000	1.1	9.00	2.95	2625
Minor Pests	40000	5000	0.1	6.00	0.03	23
Aphids	95000	95000	1.0	3.75	1.50	1336
New Pests*	10000	4000	0.0	9.50	0.00	0
W Flower Thrips	95000	10000	0.0	0.00	0.02	19
Acreage harvested: 95000 Yield per acre: 0.94 Bales						
Percent Lost: 6.50 Dollars Lost: 1,666,440 Cost per Acre: 37.89						
* Soybean Looper						

Table 5 Alabama (South) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils*	0	0	0.0	0.00	0.00	0
Boll/Bud worms	85000	85000	4.6	5.25	1.01	992

Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	85000	1700	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworms	0	0	0.0	0.00	0.00	0
Spider mites	20000	10000	0.0	0.00	0.00	0
Thrips	85000	15000	0.0	2.30	0.00	0
Beet armyworm	30000	30000	1.3	9.00	2.14	2100
Fall armyworm	85000	40000	0.5	9.00	1.90	1867
Minor Pests@	23000	23000	0.3	6.00	0.08	81
Aphids	85000	85000	1.0	3.75	1.52	1488
New Pests#	8000	8000	0.1	9.50	0.05	47
W Flower Thrips	85000	10000	0.0	0.00	0.02	23

Acreage harvested: 84000 Yield per Acre: 1.17 Bales

Percent Lost: 6.73 Dollars Lost: 1,899,744 Cost per Acre: 45.83

* Boll Weevil eradication area

@ Whiteflies = 18000 acres Stinkbugs = 5000 acres

Soybean looper

Table 6 Alabama (Summary) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	335000	275000	1.3	2.26	1.02	4041
Boll/Bud worms	420000	380000	2.5	5.12	1.36	5382
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bug	420000	173700	0.4	2.00	0.75	2977
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	265000	75000	0.3	5.50	0.26	1050
Thrips	420000	130000	0.0	1.93	0.00	0
Beet armyworm	160000	40000	0.3	9.00	0.54	2144
Fall armyworm	240000	125000	0.3	9.00	1.16	4623
Minor Pests	243000	31000	0.1	6.00	0.03	104
Aphids	420000	280000	0.5	3.61	0.93	3698
New Pests	18000	12000	0.0	9.50	0.01	47
W Flower Thrips	420000	160000	0.0	0.00	0.94	3717

Acreage harvested: 419000 Yield per acre: 0.95 Bales

Percent Lost: 7.00 Dollars Lost: 8,001,384 Cost per Acre: 26.62

Table 7 Northeast Arkansas Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	221000	108000	0.3	5.20	0.14	610
Boll/Bud worms	340000	298000	1.8	7.40	1.02	4485
Fleahopper	10000	2000	0.0	4.30	0.00	3
Lygus bugs	345000	120000	0.3	4.30	0.24	1054

Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	150000	20000	0.1	7.50	0.02	100
Thrips	350000	290000	0.8	4.75	0.04	182
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	350000	280000	1.2	5.50	0.80	3512
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 350000 Yield per Acre: 1.25 Bales						
Percent Lost: 2.27 Dollars Lost: 2,863,955 Cost per Acre: 27.64						

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	350000	5000	0.0	5.60	0.01	45
Boll/Bud worms	400000	390000	2.9	8.00	1.46	9640
Fleahopper	100000	2500	0.0	4.30	0.00	4
Lygus bug	400000	45000	0.1	4.30	0.06	371
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	60000	2500	0.0	7.60	0.00	21
Thrips	400000	400000	1.0	6.50	0.60	3955
Beet armyworm	20000	0	0.0	0.00	0.00	0
Fall armyworm	20000	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	400000	300000	0.8	6.25	1.50	9888
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	125000	12500	0.0	0.00	0.00	0
Acreage harvested: 400000 Yield per acre: 1.65 Bales						
Percent Lost: 3.63 Dollars Lost: 6,890,006 Cost per Acre: 35.29						

Table 9 Arkansas (Summary Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	571000	113000	0.2	5.23	0.06	655
Boll/Bud worms	740000	6888000	2.4	7.79	1.29	14125
Fleahopper	110000	4500	0.0	4.30	0.00	7
Lygus bugs	745000	165000	0.2	4.30	0.13	1424
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworms	0	0	0.0	0.00	0.00	0
Spider mites	210000	22500	0.1	7.51	0.01	121
Thrips	750000	690000	0.9	5.76	0.38	4137
Beet armyworm	20000	0	0.0	0.00	0.00	0
Fall armyworm	20000	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	750000	580000	1.0	5.81	1.22	13399
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	125000	12500	0.0	0.00	0.00	0

Acres harvested: 750000 Yield per acre: 1.46 Bales

Percent Lost: 3.08 Dollars Lost: 9,753,960 Cost per Acre: 31.72

Table 10 Arizona Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	40000	10000	0.0	5.00	0.00	2
Boll/Bud worms	280000	140000	0.6	10.00	0.15	1604
Fleahopper	90000	20000	0.0	9.00	0.00	9
Lygus bugs	400000	290000	1.9	9.00	0.95	9969
Leaf perforator	200000	110000	0.5	9.00	0.02	252
Pink bollworm	420000	390000	6.8	10.00	4.49	47369
Spider mites	60000	30000	0.1	12.00	0.01	55
Thrips	360000	35000	0.1	7.00	0.00	8
Beet armyworm	100000	80000	0.3	10.00	0.07	733
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	280000	230000	1.0	12.00	0.30	3163
Aphids	80000	30000	0.1	9.00	0.01	55
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	360000	35000	0.1	7.00	0.00	8

Acres harvested: 460000 Yield per Acre: 2.29 Bales

Percent Lost: 6.00 Dollars Lost: 18,209,400 Cost per Acre: 113.76

Table 11 California, San Joaquin Valley Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Applicat	Bales Lost
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud worms	241200	80400	0.1	14.00	0.40	9631
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	713000	422000	0.6	13.70	3.82	92005
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	280	280	0.0	10.00	0.00	7
Spider mites	884400	753750	1.1	20.41	7.20	173363

Thrips	0	0	0.0	0.00	0.00	0
Beet armyworm	351750	180900	0.2	12.50	0.86	20804
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests*	5500	1000	0.0	14.50	0.00	0
Aphids	391950	130650	0.2	10.67	1.11	26606
New Pests	5000	5000	0.0	14.50	0.00	0
W Flower Pests	502500	60300	0.1	9.77	0.30	7223

Acreage harvested: 1005000 Yield per Acre: 2.40 Bales

Percent Lost: 13.69 Dollars Lost: 94,935,893 Cost per Acre: 38.27

* Yellow striped armyworm = 5500 acres, 1000 treated

Stinkbug = 10000 acres, none treated

Whiteflies = 600 acres, none treated

Table 12 Florida Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	7500	7000	0.2	35.00	0.00	0
Boll/Bud worms	36500	36500	7.2	8.90	9.10	4325
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
Spider mites	32500	7200	0.3	8.50	0.08	38
Thrips	36500	27000	0.7	8.80	0.37	176
Beet armyworm	30000	12000	0.6	10.50	1.35	641
Fall armyworm	15000	10000	0.3	8.90	0.33	156
Minor Pests	25500	3250	0.1	13.20	0.04	21
Aphids	36500	8000	0.1	7.50	0.09	42
New Pests	10000	5500	0.0	7.20	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 36500 Yield per acre: 1.30 Bales

Percent Lost: 11.36 Dollars Lost: 1,554,581 Cost per Acre: 89.89

*Grower assessment for boll weevil eradication program

@Soybean Looper

Table 13 Georgia Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	320000	112000	1.3	26.67*	0.00	0
Boll/Bud worms	320000	320000	5.0	7.00	5.00	16000
Fleahopper	2500	1250	0.0	4.00	0.00	0

Lygus bugs	10000	10000	0.0	4.00	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	75000	37500	0.2	7.50	0.00	0
Thrips	310000	287500	1.3	7.00	0.00	0
Beet armyworm	265000	240000	3.8	10.00	5.25	16800
Fall armyworm	30000	10000	0.0	11.00	0.16	500
Minor Pests	225000	150000	0.5	5.50	0.00	0
Aphids	287500	250000	1.6	3.88	1.56	5000
New Pests@	75000	37500	0.2	9.50	0.12	375
W Flower Thrips	50000	10000	0.0	3.13	0.00	0

Acreeage harvested: 320000 Yield per Acre: 1.00 Bales

Percent Lost: 12.09 Dollars Lost: 11,138,400 Cost per Acre: 128.68

* Cost to grower for boll weevil eradication

@ Soybean looper

Table 14 Louisiana Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	760000	608140	3.2	3.50	2.37	28431
Boll/Bud worms	770000	762781	5.0	8.00	3.96	47547
Fleahopper	377110	242522	0.3	3.50	0.09	1134
Lygus bugs	731270	478914	0.6	3.50	0.25	2985
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	114710	91740	0.1	11.00	0.01	143
Thrips	745800	410290	0.5	3.00	0.11	1279
Beet armyworm	129000	60000	0.1	11.00	0.02	187
Fall armyworm	105000	4000	0.0	9.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	522600	340200	0.7	4.50	0.04	530
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	610400	11578	0.0	6.00	0.00	0

Acreeage harvested: 770000 Yield per acre: 1.56 Bales

Percent Lost: 6.85 Dollars Lost:23,683,706 Cost per Acre:61.05

Table 15 Mississippi Delta Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	510074	384664	1.2	3.89	1.18	16661
Boll/Bud worms	830114	814614	3.6	6.71	4.67	66253
Fleahopper	147180	55180	0.1	4.92	0.03	478
Lygus bugs	668094	529894	1.1	2.93	1.46	20745
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	202513	87031	0.1	7.10	0.06	814
Thrips	737079	635079	1.2	2.31	1.51	21425
Beet armyworm	100000	61500	0.1	9.86	0.08	1201
Fall armyworm	80880	41345	0.1	8.88	0.02	221

Minor Pests	279700	155200	0.2	6.84	0.11	1525
Aphids	665854	476015	1.0	7.65	1.80	25527
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	289592	66100	0.0	8.65	0.01	175
Acreage harvested: 909204 Yield per acre: 1.56 Bales						
Percent Lost: 10.94 Dollars Lost: 44,647,158 Cost per Acre:47.48						

Table 16 Mississippi Hills Cotton Insect Losses for 1990						
Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	270356	230906	3.7	1.95	5.87	18830
Boll/Bud worms	265978	228685	2.7	5.77	3.59	11531
Fleahopper	41105	5500	0.0	3.30	0.01	44
Lygus bugs	226108	133550	0.9	2.81	1.33	4278
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	38000	5900	0.0	7.34	0.01	24
Thrips	241628	199425	1.3	3.12	0.96	3086
Beet armyworm	49100	9950	0.1	7.34	0.10	312
Fall armyworm	85250	38350	0.2	7.39	0.28	897
Minor Pests	118290	42290	0.2	5.71	0.33	1050
Aphids	237808	154050	0.7	4.43	0.82	2639
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	97200	0	0.0	0.00	0.00	0
Acreage harvested: 273354 Yield per acre: 1.17 Bales						
Percent Lost: 13.30 Dollars Lost: 12,295,124 Cost per Acre:35.83						

Table 17 Mississippi(Summary) Cotton Insect Losses for 1990						
Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	780430	615570	1.8	2.95	2.04	18830
Boll/Bud worms	1096092	1043299	3.4	6.54	4.47	11531
Fleahopper	188285	60680	0.1	4.73	0.03	44
Lygus bugs	894202	663444	1.0	2.90	1.44	4278
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	240531	92931	0.1	7.12	0.05	24
Thrips	978707	834504	1.2	2.50	1.41	3086
Beet armyworm	149100	71450	0.1	9.42	0.09	312
Fall armyworm	166130	79695	0.1	8.23	0.06	897
Minor Pests	397990	197490	0.2	6.56	0.15	1050
Aphids	903662	630065	1.0	7.09	1.62	2639
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	386792	66100	0.0	8.65	0.01	0
Acreage harvested: 1182558 Yield per acre: 1.47 Bales						
Percent Lost: 11.37 Dollars Lost: 3,479,312 Cost per Acre: 44.79						

Table 18 Missouri Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud worms	50000	25000	0.1	8.00	1.05	3234
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
Spider mites	130000	90000	0.6	18.00	1.52	4658
Thrips	237000	230000	1.0	11.00	1.94	5951
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
Aphids	200000	40000	0.2	12.00	0.84	2588
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 237000 Yield per acre: 1.29 Bales						
Percent Lost: 5.36 Dollars Lost: 4,732,020 Cost per Acre: 23.80						

Table 19 North Carolina Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud worms	200000	200000	2.8	8.90	3.64	8925
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	200000	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	500	10	0.0	7.80	0.00	0
Thrips	200000	180000	0.9	15.00	0.45	1116
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	180000	80000	0.3	13.50	1.27	3124
Minor Pests	200000	50000	0.1	9.80	0.35	868
Aphids	133000	2000	0.0	8.00	0.00	6
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 198000 Yield per acre: 1.24 Bales						
Percent Lost: 5.72 Dollars Lost: 4,043,025 Cost per Acre: 44.49						

Table 20 New Mexico Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevil	370	0	0.0	0.00	0.00	0
Boll/Bud worms	55500	29000	0.9	10.00	4.52	4305
Fleahopper	26600	10650	0.1	7.50	0.61	582
Lygus bugs	25800	7000	0.2	7.40	0.52	492
Leaf perforator	7750	50	0.0	7.25	0.00	1
Pink bollworm	18000	6000	0.2	9.00	0.49	469

Spider mites	7300	1700	0.0	10.20	0.18	173
Thrips	54750	37860	0.7	8.70	5.28	5028
Beet armyworm	5850	1925	0.0	8.40	0.13	128
Fall armyworm	1000	500	0.0	8.40	0.04	39
Stinkbugs*	1275	10000	0.0	0.00	0.66	625
Aphids	24200	15300	0.3	7.15	0.88	837
Whiteflies	25000	10000	0.2	8.00	1.23	1172
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 61000 Yield per Acre: 1.56 Bales

Percent Lost: 14.53 Dollars Lost: 3,988,873 Cost per Acre: 23.18

* Corn root aphid*30 acres treated once at \$6.50/acre with 10% yield loss

Table 21 Oklahoma Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevil	125000	100000	0.7	5.25	0.65	2349
Boll/Bud worms	425000	200000	0.9	8.50	1.18	4271
Fleahopper	425000	50000	0.1	4.00	0.09	320
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	75000	42000	0.1	10.25	0.10	359
Thrips	275000	35000	0.1	4.00	0.04	149
Beet armyworm	75000	500	0.0	10.25	0.00	1
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	200000	80000	0.2	4.00	0.14	513
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 425000 Yield per acre: 0.85 Bales

Percent Lost: 2.19 Dollars Lost: 2,293,028 Cost per Acre: 14.28

Table 22 South Carolina Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	16000	9600	0.6	3.85	0.00	0
Boll/Bud worms	154000	145000	3.8	6.75	2.35	3414
Fleahopper	10000	500	0.0	4.00	0.01	9
Lygus bugs	15000	750	0.0	4.00	0.01	14
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	50000	10000	0.1	8.50	0.13	188
Thrips	145000	125000	1.2	6.50	1.62	2354
Beet armyworm	40000	20000	0.4	12.00	0.13	188
Fall armyworm	80000	10000	0.1	11.00	0.10	141
Minor* pests	100000	30000	0.4	4.87	1.27	1836
Aphids	50000	5000	0.1	4.00	0.01	9
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	50000	0	0.0	0.00	0.00	0

Acreage harvested: 154000 Yield per acre: 0.94 Bales

Percent Lost: 5.62 Dollars Lost: 2,348,592 Cost per Acre: 44.92

* European corn borer * 40000 acres, 20000 treated

Stink bugs 8 60000 acres, 10000 treated

Table 23 Tennessee Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	276000	25000	0.1	3.00	0.00	0
Boll/Bud worms	205650	68550	0.3	5.50	0.26	1280
Fleahopper	0	0	0.0	0.00	0.00	0
Lygus bugs	256000	2600	0.0	3.00	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	85000	8750	0.0	4.50	0.00	0
Thrips	510000	260000	0.5	2.50	0.25	1213
Beet armyworm	15000	1200	0.0	7.50	0.00	0
Fall armyworm	10500	0	0.0	0.00	0.00	0
Minor Pests	35000	0	0.0	0.00	0.00	0
Aphids	420000	3900	0.0	5.50	0.00	18
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 525000 Yield per acre: 0.93 Bales

Percent Lost: 0.51 Dollars Lost:723,206 Cost per Acre: 3.11

Table 24 Texas (District 1) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	20000	10000	0.2	6.00	0.89	496
Boll/Bud worms	55000	28000	0.5	9.85	4.25	2380
Fleahopper	38000	15000	0.2	4.00	0.76	425
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	48000	21000	0.3	4.50	0.53	298
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	29000	11000	0.1	4.00	0.28	156
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 79000 Yield per acre: 0.71 Bales

Percent Lost: 6.71 Dollars lost: 1,081,200 Cost per Acre: 8.89

Table 25 Texas (District 2) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	38000	350	0.0	5.50	0.00	0
Boll/Bud worms	2210000	950000	0.7	9.65	0.73	19000
Fleahopper	850000	20000	0.0	3.50	0.00	12
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	6000	0.0	13.00	0.00	4
Thrips	1400000	350000	0.1	4.50	0.04	1050
Beet armyworm	60000	15000	0.0	11.50	0.00	8
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	1100000	750000	0.3	5.50	0.29	7500
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acres harvested: 2600000 Yield per acre: 1.00 Bales

Percent Lost: 1.06 Dollars Lost: 7,941,246 Cost per Acre: 8.92

Table 26 Texas (District 6) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	562500	101000	0.2	5.60	0.07	395
Boll/Bud worms	750000	160000	0.2	9.00	0.19	1125
Fleahopper	750000	10000	0.0	1.50	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	80000	50000	0.1	10.00	0.00	0
Thrips	750000	40000	0.1	0.80	0.00	0
Beet armyworm	150000	75000	0.1	12.00	0.01	59
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	60000	30000	0.0	4.80	0.00	23
Aphids	750000	150000	0.2	3.20	0.02	117
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acres harvested: 750000 Yield per acre: 0.78 Bales

Percent Lost: 0.29 Dollars Lost: 495,000 Cost per Acre: 6.27

Table 27 Texas (District 4) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	42000	7000	0.3	4.75	0.75	853
Boll/Bud worms	73000	22000	0.5	3.60	1.57	1788
Fleahopper	77000	72000	1.7	3.00	6.00	6825
Lygus bugs	25000	5000	0.1	5.00	0.18	203
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	6000	0.1	8.00	0.36	406

Thrips	67000	59000	1.1	4.50	1.40	1598
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	5000	300	0.0	5.00	0.00	2
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 84000 Yield per acre: 1.35 Bales						
Percent Lost: 10.26 Dollars Lost: 3,362,385 Cost per Acre: 13.84						

Table 28 Texas (District 5&9) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	12000	10000	3.0	8.25	4.00	375
Boll/Bud worms	12000	6000	1.2	10.50	1.20	113
Fleahopper	12000	3000	0.3	6.00	0.30	28
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	1000		0.1	10.00	0.10	9
Thrips	12000	1000	0.6	6.00	0.60	56
Beet armyworm	0	6000	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	0	0	0.0	0.00	0.00	0
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested: 10000 Yield per acre:.094 Bales						
Percent Lost: 6.20 Dollars Lost: 167,400 Cost per Acre: 43.75						

Table 29 Texas (District 6) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	10000	0	0.0	0.00	0.00	0
Boll/Bud worms	400000	300000	1.0	7.50	1.97	9688
Fleahopper	340000	2000	0.0	4.00	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	135000	40000	0.2	6.00	0.21	1033
Spider mites	1500	1500	0.0	18.00	0.04	194
Thrips	400000	4000	0.0	5.50	0.00	13
Beet armyworm	10000	4000	0.0	9.00	0.02	103
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	400000	250000	0.7	6.00	0.99	4844
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	400000	4000	0.0	5.50	0.00	13
Acreage harvested: 380000 Yield per acre: 1.29 Bales						
Percent Lost: 3.24 Dollars Lost: 4,575,600 Cost per Acre: 13.28						

Table 30 Texas (District 7) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	250000	5000	0.0	2.50	0.04	78
Boll/Bud worms	250000	200000	1.6	5.50	5.60	10938
Fleahopper	250000	25000	0.1	1.50	0.20	391
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	50000	25000	0.3	10.00	0.50	977
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
Minor Pests	25000	10000	0.1	4.00	0.04	78
Aphids	250000	75000	0.6	1.75	0.30	586
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	200000	3000	0.0	5.00	0.00	0

Acreage harvested:250000 Yield per acre:0.78 Bales

Percent Lost:6.68 Dollars Lost:3,757,500 Cost per Acre:13.14

Table 31 Texas (District 8) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	40000	40000	2.0	4.00	5.00	1667
Boll/Bud worms	40000	10000	0.3	10.00	1.25	417
Fleahopper	40000	40000	2.0	5.00	5.00	1667
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	10000	5000	0.0	0.00	0.00	0
Thrips	40000	40000	1.0	1.00	2.00	667
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	0	0	0.0	0.00	0.00	0
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 40000 Yield per acre:0.83 Bales

Percent Lost:13.25 Dollars Lost: 1,272,000 Cost per Acre:21.50

Table 32 Texas (District 10) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll	60000	38000	0.5	0.00	0.53	973
Weevils						
Boll/Bud worms	130000	125000	2.6	0.00	1.31	2398

Fleahopper	122000	82000	0.9	0.00	0.57	1049
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	38000	32000	0.7	0.00	0.11	209
Thrips	110000	20000	0.1	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
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	0	0	0.0	0.00	0.00	0
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	40000	0	0.0	0.00	0.00	0
Acreage harvested:143000 Yield per acre:1.28 Bales						
Percent Lost:2.53 Dollars Lost: 1,331,766 Cost per Acre:0.00						

Table 33 Texas (District 11) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	50900	44150	2.3	2.84	0.78	598
Boll/Bud worms	45300	28500	0.5	4.96	0.50	386
Fleahopper	53800	46800	1.2	1.70	0.83	634
Lygus bugs	39600	9100	0.2	3.75	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	53800	30000	0.5	0.93	0.53	406
Beet armyworm	0	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	53800	43500	0.8	0.93	0.77	589
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0
Acreage harvested:56580 Yield per acre:1.35 Bales						
Percent Lost:3.41 Dollars Lost:752,505 Cost per Acre:13.07						

Table 34 Texas (District 12) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	300000	100000	1.0	7.25	1.32	4359
Boll/Bud worms	300000	75000	0.4	8.50	0.33	1090
Fleahopper	300000	175000	0.5	3.90	0.26	848
Lygus bugs	10000	1000	0.0	5.25	0.00	5
Leaf perforator	10000	500	0.0	8.50	0.00	2

Pink bollworm	0	0	0.0	0.00	0.00	0
Spider mites	200000	25000	0.1	19.00	0.11	363
Thrips	0	0	0.0	0.00	0.00	0
Beet armyworm	50000	2000	0.0	12.00	0.00	10
Fall armyworm	0	0	0.0	0.00	0.00	0
White flies	50000	25000	0.2	8.00	0.33	1090
Aphids	300000	5000	0.0	7.00	0.01	24
Salt marsh cat.*	25000	10000	0.0	6.50	0.01	48
W Flower Thrips	300000	5000	0.0	0.00	0.07	218

Acreage harvested: 340000 Yield per acre: 0.97 Bales

Percent Lost: 2.45 Dollars Lost:2,320,583 Cost per Acre:18.18

* Both salt marsh caterpillars & sweet potato whiteflies were new pests.

Table 35 Texas(District 13) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	25000	25000	5.7	5.25	9.66	4870
Boll/Bud worms	25000	25000	8.5	12.00	7.39	3724
Fleahopper	10000	8000	0.4	5.00	0.55	275
Lygus bugs	0	0	0.0	0.00	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworms	0	0	0.0	0.00	0.00	0
Spider mites	15000	5000	0.2	8.00	0.00	0
Thrips	25000	15000	1.0	7.00	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
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	25000	25000	4.0	9.00	0.00	0
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	25000	0	0.0	0.00	0.00	0

Acreage harvested: 22000 Yield per acre: 2.29 Bales

Percent Lost: 17.59 Dollars Lost: 2,554,200 Cost per Acre: 178.69

Table 36 Texas(District 14) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	245700	157248	1.4	4.96	1.74	2662
Boll/Bud worms	245700	12285	0.1	5.86	0.05	83
Fleahopper	183750	117600	0.5	3.95	0.00	0
Lygus bugs	100000	400	0.0	4.70	0.00	0
Leaf perforator	0	0	0.0	0.00	0.00	0
Pink bollworms	0	0	0.0	0.00	0.00	0
Spider mites	75950	940	0.0	5.40	0.00	0
Thrips	245000	3000	0.0	3.90	0.00	0
Beet armyworm	20000	0	0.0	0.00	0.00	0
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests *	12135	12135	0.1	4.90	0.03	41
Aphids	245700	54054	0.2	4.60	0.000	0
New Pests	0	0	0.0	0.00	0.00	0

W Flower Thrips	153000	0	0.0	0.00	0.00	0
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Acreage harvested: 225700 Yield per acre: 0.68 Bales

Percent Lost: 1.82 Dollars Lost: 802,371 Cost per Acre: 10.90

* Soybean loopers = 12000 acres, 12000 treated

Salt marsh caterpillars = 135 acres, 135 acres treated

Table 37 Texas(Summary) Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	1656100	537748	0.3	5.22	0.36	17324
Boll/Bud worms	4536000	1941785	0.7	7.84	1.09	53128
Fleahopper	3026550	616400	0.2	2.96	0.25	12153
Lygus bugs	174600	15500	0.0	4.27	0.00	208
Leaf perforator	10000	500	0.0	8.50	0.00	2
Pink bollworms	135000	40000	0.0	6.00	0.02	1033
Spider mites	561450	157440	0.1	8.32	0.04	2158
Thrips	3150800	588000	0.1	3.87	0.08	4088
Beet armyworm	290000	96000	0.0	11.80	0.00	179
Fall armyworm	0	0	0.0	0.00	0.00	0
Minor Pests	147135	77135	0.0	6.22	0.03	1232
Aphids	3158500	1363854	0.3	5.04	0.28	13818
New Pests	25000	10000	0.0	6.50	0.00	48
W Flower Thrips	1118000	12000	0.0	5.29	0.00	231

Acreage harvested: 4980280 Yield per acre: 0.98 Bales

Percent Lost: 2.17 Dollars Lost: 30,413,756 Cost per Acre: 10.58

Table 38 Virginia Cotton Insect Losses for 1990

Pest	Acres Infested	Above Treat Thresholds	# Insect Applicat	Cost of 1 Applicat	% Yield Reduction	Bales Lost
Boll Weevils	0	0	0.0	0.00	0.00	0
Boll/Bud worms	3000	3000	1.5	15.00	12.50	469
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 bollworms	0	0	0.0	0.00	0.00	0
Spider mites	1000	0	0.0	0.00	0.00	0
Thrips	3000	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
Minor Pests	0	0	0.0	0.00	0.00	0
Aphids	0	0	0.0	0.00	0.00	0
New Pests	0	0	0.0	0.00	0.00	0
W Flower Thrips	0	0	0.0	0.00	0.00	0

Acreage harvested: 3000 Yield per acre: 1.25 Bales

Percent Lost: 12.50 Dollars Lost:135,000 Cost per Acre: 22.50