

Table 21.	TEXAS					Cotton insect losses - 1996	
PEST	Acres Infested	Acres Treated	# Insect Applications	Cost of 1 Application	Cost /acre	% Yield Loss	Bales Lost
Bo Weevils	3736501	1506504	1.260	\$6.85	\$8.64	2.973	192881
Bo /budworms	3815234	1575534	0.655	\$10.52	\$6.89	2.704	175429
Cotton Fleahoppers	1204293	468897	0.121	\$4.99	\$0.61	0.272	17617
Lygus	397600	50100	0.011	\$5.80	\$0.07	0.053	3441
Cotton Leaf perforators	188253	0	0.000	\$0.00	\$0.00	0.000	0
Pink Bollworms	144766	50959	0.029	\$7.00	\$0.20	0.251	16253
Spider Mites	213282	27700	0.006	\$10.18	\$0.07	0.036	2354
Thrips, early season	2365833	487529	0.128	\$4.65	\$0.60	0.347	22489
Beet Armyworms	997816	74958	0.018	\$14.26	\$0.26	0.141	9167
Fa Armyworms	330000	3000	0.001	\$7.50	\$0.01	0.000	0
European Cornborers	500	200	0.000	\$11.50	\$0.00	0.000	0
Stink Bugs	303200	10193	0.002	\$6.08	\$0.01	0.001	79
Grasshoppers	202000	22000	0.006	\$5.15	\$0.03	0.029	1883
Saltmarsh Caterpillars	15000	1500	0.000	\$7.95	\$0.00	0.002	132
Aphids	3270028	924642	0.243	\$7.73	\$1.88	0.898	58275
Bandedwinged Whiteflies	11000	0	0.000	\$0.00	\$0.00	0.000	0
Sweet Potato Whiteflies	154000	10000	0.000	\$0.00	\$0.00	0.000	0
Soybean Loopers	60000	0	0.000	\$0.00	\$0.00	0.000	0
Cabbage Loopers	699535	43219	0.010	\$8.66	\$0.08	0.064	4168
Western Flower Thrips	717610	0	0.000	\$0.00	\$0.00	0.000	0
Cutworms	91100	13000	0.003	\$7.68	\$0.02	0.000	0
							Cost /Acre
Percent Lost:	7.77	est. Yield per acre:		473	Foliar insecticide		\$19.36
Tota Acres:	4436593				At planting insecticides		\$2.72
Tota Acres Harvested:	4306859	Tota cost and loss insect related:		\$29,253,951	Bt use license fees		\$0.98
Tota Bales Lost:	504167	Tota cost + Loss/acre:		\$65.65	eradication		\$4.40
Bales lost n \$\$\$:	\$169,400,167				TOTAL		\$27.47

Table 21a.	TEXAS - COASTAL BEND					Cotton insect losses - 1996	
PEST	Acres Infested	Acres Treated	# Insect Applications	Cost of 1 Application	Cost /acre	% Yield Loss	Bales Lost
Bo Weevils	392193	352974	5.400	\$6.50	\$35.10	4.000	29414
Bo /budworms	313754	156877	0.400	\$9.82	\$3.93	0.800	5883
Cotton Fleahoppers	392193	196097	0.500	\$4.95	\$2.48	1.000	7354
Lygus	100000	4500	0.011	\$7.15	\$0.08	0.255	1875
Cotton Leaf perforators	188253	0	0.000	\$0.00	\$0.00	0.000	0
Pink Bollworms	0	0	0.000	\$0.00	\$0.00	0.000	0
Spider Mites	86282	1000	0.003	\$8.00	\$0.02	0.220	1618
Thrips, early season	392193	58829	0.150	\$4.40	\$0.66	1.000	7354
Beet Armyworms	380000	15000	0.038	\$17.50	\$0.67	0.969	7125
Fa Armyworms	275000	0	0.000	\$0.00	\$0.00	0.000	0
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0
Stink Bugs	292000	7843	0.020	\$5.54	\$0.11	0.000	0
Grasshoppers	100000	0	0.000	\$0.00	\$0.00	0.000	0
Saltmarsh Caterpillars	0	0	0.000	\$0.00	\$0.00	0.000	0
Aphids	392193	137268	0.350	\$6.68	\$2.34	4.000	29414
Bandedwinged Whiteflies	4000	0	0.000	\$0.00	\$0.00	0.000	0
Sweet Potato Whiteflies	4000	0	0.000	\$0.00	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0
Cabbage Loopers	274535	39219	0.100	\$8.40	\$0.84	0.700	5148
Western Flower Thrips	517610	0	0.000	\$0.00	\$0.00	0.000	0

Cutworms	70600	7000	0.018	\$6.34	\$0.11	0.000	0
							Cost /Acre
Percent Lost:	12.94	est. Yield per acre:		380	Foliar insecticide		\$46.34
Tota Acres:	392193				At planting insecticides		\$1.57
Tota Acres Harvested:	392193	Tota cost and loss insect related:		\$55,280,388	Bt use license fees		\$0.00
Tota Ba es Lost:	95184	Tota cost + Loss/acre:		\$140.95	eradication		\$11.50
Ba es ost n \$\$\$:	\$31,981,956				TOTAL		\$59.41

Table 21b.	TEXAS - NORTH CENTRAL						Cotton insect losses - 1996	
PEST	Acres Infested	Acres Treated	# Insect Applic	Cost of 1 App	Cost /acre	% Yield Loss	Ba es Lost	
Bo Weev s	85000	50000	1.111	\$6.00	\$6.67	4.722	4604	
Bo /budworms	90000	85000	1.417	\$6.00	\$8.50	2.500	2438	
Cotton Fleahoppers	100000	70000	1.556	\$4.00	\$6.22	1.667	1625	
Lygus	500	250	0.003	\$5.00	\$0.01	0.001	1	
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0	
P nk Bo worms	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sp der M tes	1000	500	0.006	\$8.00	\$0.04	0.002	2	
Thrips, early season	90000	80000	1.778	\$3.50	\$6.22	0.100	98	
Beet Armyworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
Fa Armyworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0	
St nk Bugs	0	0	0.000	\$0.00	\$0.00	0.000	0	
Grasshoppers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sa marsh Caterp ers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Aph ds	60000	38000	0.422	\$7.00	\$2.96	1.000	975	
Bandedw ng Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sweet Potato Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0	
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cabbage Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Western Flower Thrips	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cutworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
							Cost /Acre	
Percent Lost:	9.99	est. Yield per acre:		403	Foliar insecticide		\$30.63	
Tota Acres:	90000				At planting insecticides		\$1.56	
Tota Acres Harvested:	90000	Tota cost and loss insect related:		\$6,372,020	Bt use license fees		\$2.25	
Tota Ba es Lost:	9742	Tota cost + Loss/acre:		\$70.80	eradication		\$0.00	
Ba es ost n \$\$\$:	85000				TOTAL		\$34.43	

Table 21c.	TEXAS - ROLLING PLAINS						Cotton insect losses - 1996	
PEST	Acres Infested	Acres Treated	# Insect Applic	Cost of 1 App	Cost /acre	% Yield Loss	Ba es Lost	
Bo Weev s	510000	200000	0.847	\$5.82	\$4.93	4.495	33150	
Bo /budworms	320000	150000	0.458	\$11.02	\$5.04	4.231	31200	
Cotton Fleahoppers	150000	90000	0.153	\$5.10	\$0.78	0.203	1500	
Lygus	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0	
P nk Bo worms	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sp der M tes	35000	10000	0.019	\$12.90	\$0.24	0.101	744	
Thrips, early season	40000	8000	0.014	\$4.50	\$0.06	0.028	210	
Beet Armyworms	95000	32000	0.054	\$14.20	\$0.77	0.274	2019	
Fa Armyworms	15000	0	0.000	\$0.00	\$0.00	0.011	79	
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0	

St nk Bugs	10000	1500	0.003	\$8.35	\$0.02	0.007	53
Grasshoppers	92000	22000	0.045	\$5.15	\$0.23	0.218	1610
Sa tmarsh Catep ers	15000	1500	0.003	\$7.95	\$0.02	0.015	113
Aph ds	190000	95000	0.193	\$10.25	\$1.98	0.547	4038
Bandedw ng Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0
Sweet Potato Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0
Cabbage Loopers	25000	3000	0.005	\$12.00	\$0.06	0.018	131
Western F ower Thr ps	0	0	0.000	\$0.00	\$0.00	0.000	0
Cutworms	0	0	0.000	\$0.00	\$0.00	0.000	0
							Cost /Acre
Percent Lost:	10.15	est. Y e d per acre:		210	Foliar insecticide		\$14.14
Tota Acres:	590000				At planting insecticides		\$0.15
Tota Acres Harvested:	516000	Tota cost and oss nsect re ated:		\$34,86 8,930	Bt use license fees		\$0.01
Tota Ba es Lost:	74845	Tota cost + Loss/acre:		\$59.10	eradication		\$2.18
Ba es ost n \$\$\$:	\$25,147,920				TOTAL		\$16.48

Table 21d.	TEXAS - HIGH PLAINS						Cotton nsect osses - 1996	
PEST	Acres Infested	Acres Treated	# Insect App c	Cost of 1 App	Cost /acre	% Y e d Loss	Ba es Lost	
Bo Weev s	1887600	552520	0.685	\$7.75	\$5.31	2.496	91863	
Bo / budworms	2150000	744277	0.584	\$11.50	\$6.72	2.266	83380	
Cotton F eahoppers	70000	2500	0.001	\$4.80	\$0.00	0.000	0	
Lygus	1500	350	0.000	\$5.80	\$0.00	0.000	0	
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0	
P nk Bo worms	400	0	0.000	\$0.00	\$0.00	0.000	0	
Sp der M tes	10000	1200	0.000	\$15.50	\$0.01	0.000	0	
Thr ps, eary season	1492640	300000	0.124	\$4.85	\$0.60	0.432	15890	
Beet Armyworms	369170	18458	0.008	\$12.85	\$0.10	0.015	561	
Fa Armyworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
Eu opean Cornborers	500	200	0.000	\$11.50	\$0.00	0.000	0	
St nk Bugs	0	0	0.000	\$0.00	\$0.00	0.000	0	
Grasshoppers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sa tmarsh Catep ers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Aph ds	2100000	558207	0.277	\$7.85	\$2.17	0.694	25550	
Bandedw ng Wh tef es	7000	0	0.000	\$0.00	\$0.00	0.000	0	
Sweet Potato Wh tef e s	0	0	0.000	\$0.00	\$0.00	0.000	0	
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cabbage Loopers	250000	1000	0.000	\$8.80	\$0.00	0.000	0	
Western F ower Thr ps	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cutworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
							Cost /Acre	
Percent Lost:	5.90	est. Y e d per acre:		575	Foliar insecticide		\$14.92	
Tota Acres:	2420000				At planting insecticides		\$4.18	
Tota Acres Harvested:	2420000	Tota cost and oss nsect re ated:		\$130,41 0,736	Bt use license fees		\$0.00	
Tota Ba es Lost:	217245	Tota cost + Loss/acre:		\$53.89	eradication		\$4.62	
Ba es ost n \$\$\$:	\$72,994,288				TOTAL		\$23.73	

Table 21e.	TEXAS - SOUTHERN ROLLING PLAINS						Cotton nsect osses - 1996	
PEST	Acres Infested	Acres Treated	# Insect App c	Cost of 1 App	Cost /acre	% Y e d Loss	Ba es Lost	
Bo Weev s	320000	0	0.000	\$0.00	\$0.00	1.032	2167	

Bo /budworms	320000	200000	0.645	\$11.00	\$7.10	5.161	10833
Cotton F eahoppers	20000	0	0.000	\$0.00	\$0.00	0.000	0
Lygus	0	0	0.000	\$0.00	\$0.00	0.000	0
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0
P nk Bo worms	0	0	0.000	\$0.00	\$0.00	0.000	0
Sp der M tes	1000	0	0.000	\$0.00	\$0.00	0.000	0
Thr ps, ear y season	1000	700	0.002	\$4.00	\$0.01	0.001	2
Beet Armyworms	50000	1000	0.003	\$11.00	\$0.04	0.000	0
Fa Armyworms	0	0	0.000	\$0.00	\$0.00	0.000	0
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0
St nk Bugs	0	0	0.000	\$0.00	\$0.00	0.000	0
Grasshoppers	0	0	0.000	\$0.00	\$0.00	0.000	0
Sa tmarsh Catep ers	0	0	0.000	\$0.00	\$0.00	0.000	0
Aph ds	136000	19000	0.123	\$7.00	\$0.86	0.329	691
Bandedw ng Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0
Sweet Potato Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0
Western F ower Thr ps	0	0	0.000	\$0.00	\$0.00	0.000	0
Cutworms	500	0	0.000	\$0.00	\$0.00	0.000	0
							Cost /Acre
Percent Lost:	6.52	est. Ye d per acre:		240	Foliar insecticide		\$8.00
Tota Acres:	310000				At planting insecticides		\$0.27
Tota Acres Harvested:	310000	Tota cost and oss nsect related:		\$10,64 9,419	Bt use license fees		\$2.98
Tota Ba es Lost:	13692	Tota cost + Loss/acre:		\$34.35	eradication		\$8.26
Ba es ost n \$\$\$:	\$4,600,619				TOTAL		\$19.51

Tab e 21f.	TEXAS - LOWER RIO GRANDE VALLEY						Cotton nsect osses - 1996	
PEST	Acres Infested	Acres Treated	# Insect App c	Cost of 1 App	Cost /acre	% Ye d Loss	Ba es Lost	
Bo Weev s	200000	150000	4.500	\$7.50	\$33.75	1.000	2417	
Bo /budworms	200000	10000	0.050	\$9.00	\$0.45	0.000	0	
Cotton F eahoppers	200000	10000	0.050	\$6.50	\$0.33	0.000	0	
Lygus	25000	5000	0.025	\$7.00	\$0.18	0.000	0	
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0	
P nk Bo worms	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sp der M tes	50000	5000	0.025	\$8.50	\$0.21	0.000	0	
Thr ps, ear y season	200000	10000	0.050	\$7.00	\$0.35	0.000	0	
Beet Armyworms	10000	1000	0.005	\$11.00	\$0.06	0.000	0	
Fa Armyworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0	
St nk Bugs	0	0	0.000	\$0.00	\$0.00	0.000	0	
Grasshoppers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sa tmarsh Catep ers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Aph ds	200000	20000	0.100	\$6.00	\$0.60	0.000	0	
Bandedw ng Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sweet Potato Wh tef es	75000	0	0.000	\$0.00	\$0.00	0.000	0	
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cabbage Loopers	150000	0	0.000	\$0.00	\$0.00	0.000	0	
Western F ower Thr ps	200000	0	0.000	\$0.00	\$0.00	0.000	0	
Cutworms	10000	5000	0.025	\$10.00	\$0.25	0.000	0	
							Cost /Acre	
Percent Lost:	1.00	est. Ye d per acre:		413	Foliar insecticide		\$36.17	
Tota Acres:	200000				At planting insecticides		\$0.70	

Tota Acres Harvested:	175000	Tota cost and oss nsect re ated:	\$8,505, 500	Bt use license fees	\$1.60
Tota Ba es Lost:	2417	Tota cost + Loss/acre:	\$42.53	eradication	\$0.00
Ba es ost n \$\$\$:	\$812,000			TOTAL	\$38.47

Table 21g.	TEXAS - FAR WEST						Cotton nsect osses - 1996	
PEST	Acres Infested	Acres Treated	# Insect App c	Cost of 1 App	Cost /acre	% Y e d Loss	Ba es Lost	
Bo Weev s	71108	42995	0.525	\$7.00	\$3.67	3.864	8174	
Bo /budworms	150880	49380	0.603	\$10.00	\$6.03	3.224	6821	
Cotton F eahoppe rs	1500	300	0.002	\$8.00	\$0.01	0.009	19	
Lygus	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0	
P nk Bo worms	144366	50959	0.778	\$7.00	\$5.44	6.786	14358	
Sp der M tes	0	0	0.000	\$0.00	\$0.00	0.000	0	
Thr ps, ear y season	0	0	0.000	\$0.00	\$0.00	0.000	0	
Beet Armyworms	13646	2500	0.015	\$20.00	\$0.31	0.150	317	
Fa Armyworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0	
St nk Bugs	1200	850	0.005	\$7.00	\$0.04	0.007	16	
Grasshoppers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sa tmarsh Catep ers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Aph ds	11835	7167	0.070	\$7.50	\$0.53	0.036	76	
Bandedw ng Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sweet Potato Wh tef es	0	0	0.000	\$0.00	\$0.00	0.000	0	
Soybean Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cabbage Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Western F ower Thr ps	0	0	0.000	\$0.00	\$0.00	0.000	0	
Cutworms	0	0	0.000	\$0.00	\$0.00	0.000	0	
							Cost /Acre	
Percent Lost:	14.08		est. Y e d per acre:	432		Foliar insecticide	\$16.03	
Tota Acres:	163800					At planting insecticides	\$0.01	
Tota Acres Harvested:	163066	Tota cost and oss nsect re ated:	\$12,86 1,777			Bt use license fees	\$1.39	
Tota Ba es Lost:	29782	Tota cost + Loss/acre:	\$78.52			eradication	\$0.00	
Ba es ost n \$\$\$:	\$10,006,910					TOTAL	\$17.43	

Table 21h.	TEXAS - SOUTH CENTRAL						Cotton nsect osses - 1996	
PEST	Acres Infested	Acres Treated	# Insect App c	Cost of 1 App	Cost /acre	% Y e d Loss	Ba es Lost	
Bo Weev s	270600	240000	2.217	\$6.00	\$13.30	5.000	22550	
Bo /budworms	270600	180000	2.328	\$8.50	\$19.79	5.000	22550	
Cotton F eahoppers	270600	100000	0.370	\$5.50	\$2.03	2.000	9020	
Lygus	270600	40000	0.148	\$5.50	\$0.81	0.500	2255	
Cotton Leaf perforators	0	0	0.000	\$0.00	\$0.00	0.000	0	
P nk Bo worms	0	0	0.000	\$0.00	\$0.00	0.000	0	
Sp der M tes	30000	10000	0.037	\$8.00	\$0.30	0.055	250	
Thr ps, ear y season	150000	30000	0.111	\$5.50	\$0.61	0.277	1250	
Beet Armyworms	80000	5000	0.037	\$8.50	\$0.31	0.089	400	
Fa Armyworms	40000	3000	0.011	\$7.50	\$0.08	0.000	0	
European Cornborers	0	0	0.000	\$0.00	\$0.00	0.000	0	
St nk Bugs	0	0	0.000	\$0.00	\$0.00	0.000	0	
Grasshoppers	10000	0	0.000	\$0.00	\$0.00	0.000	0	
Sa tmarsh Catep ers	0	0	0.000	\$0.00	\$0.00	0.000	0	
Aph ds	180000	50000	0.185	\$6.00	\$1.11	0.798	3600	

Bandedwing Whiteflies	0	0	0.000	\$0.00	\$0.00	0.000	0
Sweet Potato Whiteflies	75000	10000	0.000	\$0.00	\$0.00	0.000	0
Soybean Loopers	60000	0	0.000	\$0.00	\$0.00	0.000	0
Cabbage Loopers	0	0	0.000	\$0.00	\$0.00	0.000	0
Western Flower Thrips	0	0	0.000	\$0.00	\$0.00	0.000	0
Cutworms	10000	1000	0.004	\$5.50	\$0.02	0.000	0
							Cost /Acre
Percent Lost:	13.72	est. Yield per acre:		630	Foliar insecticide		\$38.37
Tota Acres:	270600				At planting insecticides		\$3.30
Tota Acres Harvested:	240600	Tota cost and loss insect related:		\$33,921,500	Bt use license fees		\$6.86
Tota Bases Lost:	61875	Tota cost + Loss/acre:		\$125.36	eradication		\$0.00
Bases lost n \$\$\$:	\$20,790,000				TOTAL		\$48.53