

Cotton Insect Losses 1983

Compiled for National Cotton Council

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State coordinators were assisted in developing losses data by research, extension, private agricultural consultants and other personnel associated with cotton production. The Cotton Foundation provided funds to help defray expenses of developing data. State coordinators are responsible for data from their respective areas.

Loss attributable to:	Percent	Bales
Boll Weevil	8.2	14.8
Boll/Bud Worm	3.0	5.4
Fleahopper	0.0	0.0
Lygus bugs	0.2	0.4
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	2.0	3.6
Thrips	0.1	0.2

Others	0.1	0.2
Total Percent Loss: 13.6		
Total Bale Loss: 24.6		
Control Cost/Acre(\$): 60.0		
Yield in Bales: 180.0		
Acres harvested (x1000): 215.0		

Table 2 Arizona Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	0.8	5.3
Boll/Bud Worm	1.0	7.0
Fleahopper	0.1	0.1
Lygus bugs	1.2	8.5
Leaf perforator	0.1	0.4
Pink bollworm	3.5	24.6
Spider mites	0.1	0.7
Thrips	0.0	0.0
Others	0.6	3.9
Total Percent Loss: 7.4		
Total Bale Loss: 50.5		
Control Cost/Acre(\$): 74.0		
Yield in Bales: 704.0		
Acres harvested (x1000): 317.5		

Table 3 Arkansas Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	2.9	9.3
Boll/Bud Worm	1.1	3.5
Fleahopper	0.0	0.0
Lygus bugs	0.8	2.6
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.2	0.6
Thrips	0.3	1.0
Others	0.0	0.0
Total percent loss: 5.3		
Total bale loss: 17.0		
Control cost/acre(\$): 24.3		
Yield in Bales: 320.0		
Acres harvested (x1000): 310.0		

Table 4 California Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	0.0	0.0

Boll/Bud Worm	0.1	2.0
Fleahopper	0.0	0.0
Lygus bugs	1.2	23.8
Leaf perforator	0.0	0.0
Pink bollworm	0.2	4.0
Spider mites	1.8	35.6
Thrips	0.0	0.0
Others	0.0	0.0
Total percent loss: 3.3		
Total bale loss: 65.4		
Control cost/acre (\$): 18.8		
Yield in bales: 1980.0		
Acres harvested (x1000): 965.0		

Table 5 Florida Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	7.6	0.9
Boll/Bud Worm	6.8	0.8
Fleahopper	0.0	0.0
Lygus bugs	0.2	0.5
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.3	0.1
Thrips	0.2	0.1
Others	0.6	0.1
Total percent loss: 15.7		
Total bale loss: 2.3		
Control cost/acre (\$): 135.9		
Yield in bales: 12.3		
Acres harvested (x1000): 9.5		

Table 6 Georgia Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	4.0	4.8
Boll/Bud Worm	3.0	3.6
Fleahopper	0.0	0.0
Lygus bugs	1.0	1.2
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.5	0.6
Thrips	0.0	0.0
Others	0.6	0.7
Total percent loss: 9.1		
Total bale loss: 10.9		
Control cost/acre (\$): 52.0		
Yield in bales: 120.0		
Acres harvested (x1000): 115.0		

Table 7 Louisiana Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	4.6	28.8
Boll/Bud Worm	3.2	17.3
Fleahopper	0.2	1.2
Lygus bugs	0.3	1.4
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.6	3.2
Thrips	0.3	1.6
Others	0.2	1.1
Total Percent Loss: 9.4		
Total Bale Loss: 54.6		
Control cost/acre (\$): 57.8		
Yield in bales: 540.0		
Acres harvested (x1000): 410.0		

Table 8 Mississippi Cotton Insect Losses for 1983		
Loss attributable to:	Percent	Bales
Boll Weevil	4.0	36.0
Boll/Bud Worm	2.0	18.0
Fleahopper	0.1	0.1
Lygus bugs	0.1	0.1
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.1	0.1
Thrips	0.1	0.1
Others	0.1	0.0
Total percent loss: 6.5		
Total bale loss: 54.1		
Control cost/acre (\$): 45.9		
Yield in bales: 900.0		
Acres harvested (x1000): 675.0		

Table 9 Missouri Cotton Insect Losses for 1983		
Loss attributable to:	Percent	Bales
Boll Weevil	0.0	0.0
Boll/Bud Worm	1.0	0.7
Fleahopper	0.0	0.0
Lygus bugs	1.0	0.7
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.1	0.1
Thrips	0.1	0.1
Others	0.1	0.1
Total percent loss: 2.3		
Total bale loss: 1.4		
Control cost/acre (\$): 7.0		
Yield in bales: 73.0		
Acres harvested (x1000): 93.0		

Table 10 New Mexico Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	0.0	0.0
Boll/Bud Worm	2.0	1.5
Fleahopper	5.0	3.7
Lygus bugs	7.0	5.1
Leaf perforator	0.0	0.0
Pink bollworm	1.0	0.7
Spider mites	1.0	0.7
Thrips	4.0	2.9
Others	0.0	0.0
Total percent loss: 20.0		
Total bale loss: 14.6		
Control cost/acre (\$): 15.0		
Yield in bales: 73.0		
Acres harvested (x1000): 60.0		

Table 11 North Carolina Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	3.0	1.4
Boll/Bud Worm	6.5	2.9
Fleahopper	0.0	0.0
Lygus bugs	0.5	0.2
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.0	0.0
Thrips	0.5	0.2
Others	1.0	0.5
Total percent loss: 11.5		
Total bale loss: 5.2		
Control cost/acre (\$): 57.0		
Yield in bales: 45.0		
Acres harvested (x1000): 59.0		

Table 12 Oklahoma Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	9.0	12.6
Boll/Bud Worm	6.0	8.4
Fleahopper	1.0	1.4
Lygus bugs	0.0	0.0
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.5	0.7
Thrips	0.3	0.4

Others	0.3	0.3
Total percent loss: 17.1		
Total bale loss: 23.8		
Control cost/acre (\$): 38.0		
Yield in bales: 140.0		
Acres harvested (x1000): 300.0		

Table 13 South Carolina Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	6.0	3.3
Boll/Bud Worm	4.9	2.7
Fleahopper	0.0	0.0
Lygus bugs	0.8	0.4
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.5	0.3
Thrips	0.6	0.3
Others	0.1	0.1
Total Percent Loss: 12.9		
Total Bale loss: 7.0		
Control cost/acre (\$): 80.0		
Yield in bales: 55.0		
Acres harvested (x1000): 69.0		

Table 14 Tennessee Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	3.0	4.5
Boll/Bud Worm	2.0	3.0
Fleahopper	0.0	0.0
Lygus bugs	0.4	0.6
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	0.1	0.2
Thrips	0.1	0.2
Others	0.0	0.0
Total Percent Loss: 5.6		
Total bale loss: 8.5		
Control cost/acre (\$): 8.5		
Yield in bales: 150.0		
Acres harvested (x1000): 215.0		

Table 15 Texas Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	2.9	67.0
Boll/Bud Worm	2.2	50.7
Fleahopper	1.0	24.2
Lygus bugs	0.4	9.3
Leaf perforator	0.0	0.0

Pink bollworm	0.1	2.6
Spider mites	0.1	2.1
Thrips	1.0	22.3
Others	0.1	3.3
Total Percent Loss: 7.8		
Total Bale Loss: 181.5		
Control cost/acre (\$): 9.7		
Yield in bales: 2326.0		
Acres harvested (x1000): 3322.8		

Table 15 Virginia Cotton Insect Losses for 1983

Loss attributable to:	Percent	Bales
Boll Weevil	0.0	0.0
Boll/Bud Worm	4.0	0.1
Fleahopper	0.0	0.0
Lygus bugs	0.0	0.0
Leaf perforator	0.0	0.0
Pink bollworm	0.0	0.0
Spider mites	3.0	0.1
Thrips	2.0	0.1
Others	0.0	0.0
Total Percent Loss: 9.0		
Total Bale Loss: 0.1		
Control cost/acre (\$): 25.0		
Yield in bales: 0.2		
Acres harvested: 0.3		

1. All bale figures in table x1000. Estimated by research, extension, and others based on Statistical Reporting Service December Report. I=Insignificant.

2. Losses indicated were those incurred even with recommended control programs.

3. Fall armyworm (*Spodoptera frugiperda* (J.E. Smith)). 4. Beet armyworm (*Spodoptera exigua* (Hubner)).

5. Stink bugs (*Euschistus* spp.).

6. European corn borer (*Ostrinja nubilalis* (Hubner)).

7. Yellowstriped armyworm (*Spodoptera aornithogalli* (Guenee))

8. Grasshoppers (*Schistocerca americana* (Drury)).

9. Cotton aphid (*Aphis gossypii* Glover).

10. Cutworms (*Agrotis* spp.); (*Feltia subterranea* (F.)).

11. Whitefly (*Trialeurodes abutilonea* (Haldeman)).

12. Western flower thrips (*Frankliniella occidentalis* (Pergande)).

13. Average control cost for all states-\$44.30/acre.

14. Total yield for all states-7618.5 bales; total acres harvested-7,136,100.