Table 8. Insect loss estimates for Arizona Thryvon upland cotton during 2024.

	Acres	% Acres		% Acres	# of apps	Cost of 1	% loss /acre	# of apps/		overall %	Bales lost /		Loss +	% Total
Pest	Infested	Infested	Acres Treated	Treated	/acres treated	application	infested	total acres	cost/acre	reduction	pest	Loss + cost	cost/acre	Loss+Cost
Bollworm/Budworm	913	3.1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Beet Armyworm	74	0.3%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Fall Armyworm	7	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Loopers	5,299	18.2%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cutworms	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton Leaf Perforator	736	2.5%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Saltmarsh Caterpillar	7	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Lygus	29,181	100.0%	14,970	51.3%	1.2	\$32.32	2.96%	0.59	\$19.07	2.96%	3,568	\$1,840,895	\$63.09	79.6%
Cotton Fleahopper	19,842	68.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Stink Bugs (other than	9,038	31.0%	0	0.0%	0.0	\$0.00	0.03%	0.00	\$0.00	0.01%	13	\$4,680	\$0.16	0.2%
brown stink bug)														
Brown Stink Bug	7,536	25.8%	0	0.0%	0.0	\$0.00	0.01%	0.00	\$0.00	0.00%	5	\$1,800	\$0.06	0.1%
Clouded Plant Bug	221	0.8%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Leaf Footed Bugs	2,112	7.2%	184	0.6%	1.0	\$28.50	0.05%	0.01	\$0.29	0.00%	5	\$2,402	\$0.08	0.1%
Spider Mites	5,888	20.2%	515	1.8%	1.0	\$18.00	0.00%	0.02	\$0.36	0.00%	0	\$2,120	\$0.07	0.1%
Thrips	24,456	83.8%	589	2.0%	1.0	\$24.00	0.09%	0.02	\$0.48	0.07%	86	\$42,699	\$1.46	1.8%
Aphids	1,766	6.1%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Grasshoppers	9,214	31.6%	37	0.1%	0.2	\$12.00	0.08%	0.00	\$0.00	0.03%	31	\$11,160	\$0.38	0.5%
Banded Winged	3,753	12.9%	0	0.0%	0.0	\$0.00	0.02%	0.00	\$0.00	0.00%	2	\$720	\$0.02	0.0%
Whitefly	ŕ													
Silverleaf Whitefly	19,533	66.9%	6,175	21.2%	0.8	\$44.29	0.76%	0.17	\$7.53	0.51%	617	\$369,172	\$12.65	16.0%
Cockroaches	515	1.8%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Colaspis beetles	7,124	24.4%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton stainers	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Crickets	6,167	21.1%	37	0.1%	0.8	\$12.00	0.08%	0.00	\$0.00	0.02%	19	\$6,840	\$0.23	0.3%
Darkling Beetles	3,781	13.0%	368	1.3%	1.0	\$20.00	0.00%	0.01	\$0.20	0.00%	0	\$756	\$0.03	0.0%
False Chinch Bug	971	3.3%	368	1.3%	1.0	\$20.00	1.06%	0.01	\$0.20	0.04%	42	\$15,314	\$0.52	0.7%
Mealybugs	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Other Armyworms	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Pale-Striped Flea	14,763	50.6%	59	0.2%	1.0	\$20.00	0.01%	0.00	\$0.00	0.00%	4	\$1,440	\$0.05	0.1%
Beetle														
Potato leafhopper	16,846	57.7%	294	1.0%	1.6	\$30.00	0.01%	0.02	\$0.60	0.01%	7	\$12,628	\$0.43	0.5%
Thrips (Bean)	155	0.5%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Thrips (Citrus)	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
White-marked	294	1.0%	294	1.0%	0.3	\$30.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
fleahopper														
Boll Weevil	0	0.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL								0.85	\$28.72	3.65%	4,399	\$2,312,626	\$79.25	

Table 8. Insect loss estimates for Arizona Thryvon upland cotton during 2024, continued.

SUMMARY DATA

	Do	to Innut	SUM	WART DATA Viold and Management I	Dagulta	Faanam	ia Damlta		
G		ta Input		Yield and Management I	Econom	Economic Results			
State		Arizona		Total Acres		<u>-</u>	Total	Per Acre	
Region	West			Total Bales Harvested	29,181	Foliar Insecticide Costs	\$838,116	\$28.72	
Year	2024			Total Bales Lost to Insects	95,704	Seed Treatment Costs	\$209,137	\$7.1	
Total Acres (Upland)	29,181	In-furrow cost/treated acre	\$8.50	Percent Yield Loss	4,399	In-Furrow Costs	\$8,132	\$0.28	
Yield / Acre (Upland)	1,574	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	3.7%	Scouting Costs	\$486,046	\$16.6	
Price / lb	\$0.75	Cost/acre Boll Weevil Eradication	\$4.01	Av. # Applications	1,634	Eradication Costs	\$234,122	\$8.0	
yield potential (lb/acre)	1,981	% acres in Pink Bollworm Eradicat	tion 100%	Total Bales lost (all factors)	0.85	Bt Cotton	\$1,804,845	\$61.83	
Acres (Pima)	0	Cost/acre Pink Bollworm Eradicati	on \$4.01	Total % yield Loss	24,708	Total Costs	\$3,580,398	\$122.70	
Yield / Acre (Pima)	0	% Insect apps by air	31%	Transgenic Cotton (arthropods) (# ac	cres) 20.5%	Yield Loss to Insects	\$1,583,640	\$54.2	
% Acres Scouted	100%			Boll Weevil Eradication (# acres)	29,181	Total Losses + Costs	\$5,164,038	\$176.9	
Fee / Scouted Acre			\$12.45						
No. times scouted/week	. times scouted/week 2.0 % insect apps by §		33%	# Scouted Acres	29,181				
% acres Transgenic (Bt) Cotton 100% N		No. apps by ground	1.4	Seed Treatments (arthropods) (# acr	es) 10,120				
Cost/treated acre (Bt) Cotton	d acre (Bt) Cotton \$61.85 Cost/app by ground		\$13.83	In-Furrow Applications (# acres)	957				
% acres with seed treatment	with seed treatment 35% % Loss to weather		11.2%	Applications by Air (acres)	9,029				
Seed trt. cost/ treated acre \$20.67 %		% loss to non-arthropods	0.1%	Applications by Ground (acres)	9,659				
% acres with in-furrow	3%	% loss to other (chemical injury,		No. acres with no foliar insecticide	13,380				
		weeds, diseases, etc.)		applications					
					% acres treated	# acres treated	# ap	ps	
Upland Cotton	% Acres	# Acres	Total cost/acre	Bt cost/acre for BW/		for BW/TBW	for BW/	TBW	
Bollgard III/Thryvon	100%	29,181	-	\$41.85	0%	0	0.0)	
	Thryvon	% acres treated # acres treated		# apps	% acres treated	# acres treated	# apps		
Upland Cotton	Bt cost/acre	for Thrips	for Thrips	for Thrips	for Lygus	for Lygus	for Lygus		
Bollgard III/Thryvon	\$20.00	2.0%	584	1.0	51.3%	14.970	1.2		