## Table 7. Insect loss estimates for Arizona Bt cotton during 2024.

PestInfestedBollworm/Budworm1,384Beet Armyworm737Fall Armyworm7Loopers7,212Cutworms0Cotton Leaf Perforator736Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly510Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	Infested 2.1% 1.1% 0.0% 10.9% 0.0% 1.1% 2.7% 99.7% 48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4% 23.7%	Acres Treated 0 0 0 0 0 0 0 394 49,862 0 319 1,586 0 662 2,424 7,872 904 155	Treated 0.0% 0.0% 0.0% 0.0% 0.0% 0.6% 75.4% 0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	/acres treated 0.0 0.0 0.0 0.0 0.0 1.0 1.5 0.0 0.1 1.0 0.0 1.0 0.0 0.1 0.0 0.0	application \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67 \$19.75	infested 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.02% 4.00% 0.14% 0.14% 0.18% 0.24% 0.00% 0.00%	total acres 0.00 0.00 0.00 0.00 0.00 0.00 0.01 1.12 0.00 0.00 0.00 0.00 0.00 0.02 0.00 0.01 0.04	cost/acre           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.28           \$34.87           \$0.00           \$0.00           \$0.00           \$0.49           \$0.00           \$0.18	reduction 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.07% 0.05% 0.08% 0.08% 0.00%	pest 0 0 0 0 0 0 0 0 0 11,225 194 152 217 0 8	Loss + cost \$0 \$0 \$0 \$0 \$0 \$486 \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	cost/acre           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.00           \$0.01           \$95.84           \$1.06           \$0.83           \$1.34           \$0.00	Loss+Cost 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 78.6% 0.9% 0.7% 1.1% 0.0%
Beet Armyworm737Fall Armyworm7Loopers7,212Cutworms0Cotton Leaf Perforator736Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	1.1% 0.0% 10.9% 0.0% 1.1% 2.7% 99.7% 48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	$ \begin{array}{r} 0\\ 0\\ 0\\ 0\\ 0\\ 394\\ 49,862\\ 0\\ 319\\ 1,586\\ 0\\ 662\\ 2,424\\ 7,872\\ 904\\ \end{array} $	$\begin{array}{c} 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.6\%\\ \hline 75.4\%\\ 0.0\%\\ 0.5\%\\ \hline 2.4\%\\ 0.0\%\\ 0.5\%\\ \hline 2.4\%\\ 0.0\%\\ 1.0\%\\ \hline 3.7\%\\ 11.9\%\\ 1.4\%\\ \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 1.0\\ \hline 1.5\\ 0.0\\ 0.1\\ \hline 1.0\\ 0.0\\ 1.0\\ \hline 1.0\\ 0.7\\ \end{array}$	\$0.00 \$0.00 \$0.00 \$0.00 \$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.00% 0.00% 0.00% 0.00% 0.02% 4.00% 0.14% 0.18% 0.24% 0.00% 0.04%	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.01\\ \hline 1.12\\ 0.00\\ 0.00\\ \hline 0.02\\ 0.00\\ 0.01\\ \end{array}$	\$0.00 \$0.00 \$0.00 \$0.00 \$0.28 \$34.87 \$0.00 \$0.00 \$0.00 \$0.49 \$0.00	0.00% 0.00% 0.00% 0.00% 0.00% 3.99% 0.07% 0.05% 0.05% 0.08% 0.00%	0 0 0 0 11,225 194 152 217 0	\$0 \$0 \$0 \$486 \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$0.00 \$0.00 \$0.00 \$0.00 \$0.01 \$95.84 \$1.06 \$0.83 \$1.34	$\begin{array}{c} 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.0\%\\ \hline 0.0\%\\ \hline 0.0\%\\ \hline 0.9\%\\ 0.9\%\\ 0.7\%\\ \hline 1.1\%\\ \end{array}$
Fall Armyworm7Loopers7,212Cutworms0Cotton Leaf Perforator736Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	0.0% 10.9% 0.0% 1.1% 2.7% 99.7% 48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	$ \begin{array}{r} 0\\ 0\\ 0\\ 0\\ 394\\ 49,862\\ 0\\ 319\\ 1,586\\ 0\\ 662\\ 2,424\\ 7,872\\ 904\\ \end{array} $	$\begin{array}{c} 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.0\%\\ 0.6\%\\ \hline 75.4\%\\ 0.0\%\\ 0.5\%\\ \hline 2.4\%\\ 0.0\%\\ \hline 0.0\%\\ \hline 1.0\%\\ \hline 3.7\%\\ 11.9\%\\ 1.4\%\\ \end{array}$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 1.0\\ \hline 1.5\\ 0.0\\ 0.1\\ \hline 1.0\\ 0.0\\ 1.0\\ \hline 1.0\\ 0.7\\ \end{array}$	\$0.00 \$0.00 \$0.00 \$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.00% 0.00% 0.00% 0.02% 4.00% 0.14% 0.18% 0.24% 0.00% 0.04%	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.01\\ \hline 1.12\\ 0.00\\ 0.00\\ \hline 0.02\\ 0.00\\ 0.01\\ \end{array}$	\$0.00 \$0.00 \$0.00 \$0.28 \$34.87 \$0.00 \$0.00 \$0.00 \$0.49 \$0.00	0.00% 0.00% 0.00% 0.00% 3.99% 0.07% 0.05% 0.05%	0 0 0 11,225 194 152 217 0	\$0 \$0 \$0 \$486 \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$0.00 \$0.00 \$0.00 \$0.01 \$95.84 \$1.06 \$0.83 \$1.34	0.0% 0.0% 0.0% 0.0% 78.6% 0.9% 0.7% 1.1%
Loopers7,212Cutworms0Cotton Leaf Perforator736Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	10.9% 0.0% 1.1% 2.7% 99.7% 48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	$ \begin{array}{r} 0\\ 0\\ 0\\ 394\\ 49,862\\ 0\\ 319\\ 1,586\\ 0\\ 662\\ 2,424\\ 7,872\\ 904\\ \end{array} $	0.0% 0.0% 0.6% 75.4% 0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	0.0 0.0 1.0 1.5 0.0 0.1 1.0 0.0 1.0 1.0 0.7	\$0.00 \$0.00 \$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.00% 0.00% 0.02% 4.00% 0.14% 0.18% 0.24% 0.00% 0.04%	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.01\\ \hline 1.12\\ 0.00\\ 0.00\\ \hline 0.02\\ 0.00\\ 0.01\\ \end{array}$	\$0.00 \$0.00 \$0.28 \$34.87 \$0.00 \$0.00 \$0.00 \$0.49 \$0.00	0.00% 0.00% 0.00% 3.99% 0.07% 0.05% 0.05% 0.08% 0.00%	0 0 0 11,225 194 152 217 0	\$0 \$0 \$486 \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$0.00 \$0.00 \$0.00 \$95.84 \$1.06 \$0.83 \$1.34	0.0% 0.0% 0.0% 78.6% 0.9% 0.7% 1.1%
Cutworms0Cotton Leaf Perforator736Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	0.0% 1.1% 2.7% 99.7% 48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	$ \begin{array}{r} 0\\ 0\\ 394\\ 49,862\\ 0\\ 319\\ 1,586\\ 0\\ 662\\ 2,424\\ 7,872\\ 904\\ \end{array} $	0.0% 0.0% 0.6% 75.4% 0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	0.0 0.0 1.0 1.5 0.0 0.1 1.0 0.0 1.0 1.0 0.7	\$0.00 \$0.00 \$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.00% 0.00% 0.02% 4.00% 0.14% 0.18% 0.24% 0.00% 0.04%	$\begin{array}{c} 0.00\\ 0.00\\ 0.01\\ \hline 1.12\\ 0.00\\ 0.00\\ \hline 0.02\\ 0.00\\ 0.01\\ \end{array}$	\$0.00 \$0.00 \$0.28 \$34.87 \$0.00 \$0.00 \$0.00 \$0.49 \$0.00	0.00% 0.00% 0.00% 3.99% 0.07% 0.05% 0.05% 0.08% 0.00%	0 0 11,225 194 152 217 0	\$0 \$0 \$486 \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$0.00 \$0.00 \$90.01 \$95.84 \$1.06 \$0.83 \$1.34	0.0% 0.0% 0.0% 78.6% 0.9% 0.7% 1.1%
Cotton Leaf Perforator736Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than brown stink bug)19,781Brown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySolopsis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	$\begin{array}{c} 1.1\%\\ \underline{2.7\%}\\ 99.7\%\\ 48.6\%\\ \underline{29.9\%}\\ 32.0\%\\ 3.2\%\\ 7.3\%\\ 15.5\%\\ 100.0\%\\ 9.4\%\end{array}$	$ \begin{array}{r} 0\\ 394\\ 49,862\\ 0\\ 319\\ 1,586\\ 0\\ 662\\ 2,424\\ 7,872\\ 904\\ \end{array} $	0.0% 0.6% 75.4% 0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	0.0 1.0 1.5 0.0 0.1 1.0 0.0 1.0 1.0 1.0 0.7	\$0.00 \$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.00% 0.02% 4.00% 0.14% 0.18% 0.24% 0.00% 0.00% 0.04%	0.00 0.01 1.12 0.00 0.00 0.00 0.02 0.00 0.01	\$0.00 \$0.28 \$34.87 \$0.00 \$0.00 \$0.49 \$0.00	0.00% 0.00% 3.99% 0.07% 0.05% 0.08% 0.08%	0 0 11,225 194 152 217 0	\$0 <u>\$486</u> \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$0.00 \$0.01 \$95.84 \$1.06 \$0.83 \$1.34	0.0% 0.0% 78.6% 0.9% 0.7% 1.1%
Saltmarsh Caterpillar1,766Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	2.7% 99.7% 48.6% 29.9% 3.2% 7.3% 15.5% 100.0% 9.4%	394 49,862 0 319 1,586 0 662 2,424 7,872 904	0.6% 75.4% 0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	1.0           1.5           0.0           0.1           1.0           0.0           1.0           0.0           1.0           0.0           1.0	\$27.50 \$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.02% 4.00% 0.14% 0.18% 0.24% 0.00% 0.04%	0.01 1.12 0.00 0.00 0.02 0.00 0.01	\$0.28 \$34.87 \$0.00 \$0.00 \$0.49 \$0.00	0.00% 3.99% 0.07% 0.05% 0.08% 0.00%	0 11,225 194 152 217 0	\$486 \$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$0.01 \$95.84 \$1.06 \$0.83 \$1.34	0.0% 78.6% 0.9% 0.7% 1.1%
Lygus65,966Cotton Fleahopper32,165Stink Bugs (other than19,781brown stink bug)Brown Stink BugBrown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	99.7% 48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	49,862 0 319 1,586 0 662 2,424 7,872 904	75.4% 0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	1.5 0.0 0.1 1.0 0.0 1.0 1.0 0.7	\$31.13 \$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	4.00% 0.14% 0.18% 0.24% 0.00% 0.04%	1.12 0.00 0.00 0.02 0.00 0.01	\$34.87 \$0.00 \$0.00 \$0.49 \$0.00	3.99% 0.07% 0.05% 0.08% 0.00%	11,225 194 152 217 0	\$6,340,925 \$69,840 \$54,720 \$88,509 \$0	\$95.84 \$1.06 \$0.83 \$1.34	78.6% 0.9% 0.7% 1.1%
Cotton Fleahopper32,165Stink Bugs (other than brown stink Bug)19,781Brown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly5Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	48.6% 29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	0 319 1,586 0 662 2,424 7,872 904	0.0% 0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	0.0 0.1 1.0 0.0 1.0 1.0 0.7	\$0.00 \$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.14% 0.18% 0.24% 0.00% 0.04% 0.00%	0.00 0.00 0.02 0.00 0.01	\$0.00 \$0.00 \$0.49 \$0.00	0.07% 0.05% 0.08% 0.00%	194 152 217 0	\$69,840 \$54,720 \$88,509 \$0	\$1.06 \$0.83 \$1.34	0.9% 0.7% 1.1%
Stink Bugs (other than brown stink bug)19,781Brown Stink Bug Clouded Plant Bug Leaf Footed Bugs21,201 2,134 4,813Spider Mites10,266Thrips66,162Aphids6,212 GrasshoppersGrasshoppers15,687 Banded WingedSilverleaf Whitefly Silverleaf Whitefly48,602 CockroachesCockroaches3,533 Colaspis beetlesColaspis beetles13,896 Cotton stainersCrickets11,768 Darkling BeetlesDarkling Beetles6,872 False Chinch Bug 13 Other Armyworms0	29.9% 32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	319 1,586 0 662 2,424 7,872 904	0.5% 2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	0.1 1.0 0.0 1.0 1.0 0.7	\$12.00 \$24.50 \$0.00 \$17.50 \$17.67	0.18% 0.24% 0.00% 0.04% 0.00%	0.00 0.02 0.00 0.01	\$0.00 \$0.49 \$0.00	0.05% 0.08% 0.00%	152 217 0	\$54,720 \$88,509 \$0	\$0.83 \$1.34	0.7% 1.1%
brown stink bug) Brown Stink Bug 21,201 Clouded Plant Bug 2,134 Leaf Footed Bugs 4,813 Spider Mites 10,266 Thrips 66,162 Aphids 6,212 Grasshoppers 15,687 Banded Winged 8,356 Whitefly Silverleaf Whitefly 48,602 Cockroaches 3,533 Colaspis beetles 13,896 Cotton stainers 280 Crickets 11,768 Darkling Beetles 6,872 False Chinch Bug 9,561 Mealybugs 13 Other Armyworms 0	32.0% 3.2% 7.3% 15.5% 100.0% 9.4%	1,586 0 662 2,424 7,872 904	2.4% 0.0% 1.0% 3.7% 11.9% 1.4%	1.0 0.0 1.0 1.0 0.7	\$24.50 \$0.00 \$17.50 \$17.67	0.24% 0.00% 0.04% 0.00%	0.02 0.00 0.01	\$0.49 \$0.00	0.08% 0.00%	217 0	\$88,509 \$0	\$1.34	1.1%
Brown Stink Bug21,201Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	3.2% 7.3% 15.5% 100.0% 9.4%	0 662 2,424 7,872 904	0.0% 1.0% 3.7% 11.9% 1.4%	0.0 1.0 1.0 0.7	\$0.00 \$17.50 \$17.67	0.00% 0.04% 0.00%	0.00 0.01	\$0.00	0.00%	0	\$0		
Clouded Plant Bug2,134Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly5Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	3.2% 7.3% 15.5% 100.0% 9.4%	0 662 2,424 7,872 904	0.0% 1.0% 3.7% 11.9% 1.4%	0.0 1.0 1.0 0.7	\$0.00 \$17.50 \$17.67	0.00% 0.04% 0.00%	0.00 0.01	\$0.00	0.00%	0	\$0		
Leaf Footed Bugs4,813Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly5Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	7.3% 15.5% 100.0% 9.4%	662 2,424 7,872 904	1.0% 3.7% 11.9% 1.4%	1.0 1.0 0.7	\$17.50 \$17.67	0.04%	0.01					\$0.00	0.0%
Spider Mites10,266Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	15.5% 100.0% 9.4%	2,424 7,872 904	3.7% 11.9% 1.4%	1.0 0.7	\$17.67	0.00%		\$0.18	0.00%	8			
Thrips66,162Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly5Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	100.0% 9.4%	7,872 904	11.9% 1.4%	0.7			0.04		0.00/0	0	\$3,722	\$0.06	0.0%
Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly8Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	9.4%	904	1.4%		\$19.75		0.04	\$0.71	0.00%	0	\$7,254	\$0.11	0.1%
Aphids6,212Grasshoppers15,687Banded Winged8,356Whitefly8Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0				0.8		0.08%	0.09	\$1.78	0.08%	211	\$193,563	\$2.93	2.4%
Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	23 7%	155	0.20/	0.8	\$25.00	0.11%	0.01	\$0.25	0.01%	31	\$12,713	\$0.19	0.2%
Banded Winged8,356WhiteflySilverleaf WhiteflySilverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	20.170		0.2%	1.0	\$25.00	0.06%	0.00	\$0.00	0.02%	42	\$15,120	\$0.23	0.2%
Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	12.6%	353	0.5%	0.5	\$25.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Silverleaf Whitefly48,602Cockroaches3,533Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0													
Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	73.5%	30,665	46.3%	0.9	\$38.40	0.51%	0.41	\$15.74	0.38%	1,058	\$1,146,015	\$17.32	14.2%
Colaspis beetles13,896Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	5.3%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Cotton stainers280Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	21.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Crickets11,768Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	0.4%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
Darkling Beetles6,872False Chinch Bug9,561Mealybugs13Other Armyworms0	17.8%	388	0.6%	1.0	\$30.00	0.30%	0.01	\$0.30	0.05%	149	\$57,170	\$0.86	0.7%
False Chinch Bug9,561Mealybugs13Other Armyworms0	10.4%	1,532	2.3%	1.0	\$20.00	0.00%	0.02	\$0.40	0.00%	0	\$2,749	\$0.04	0.0%
Mealybugs 13 Other Armyworms 0	14.5%	1,876	2.8%	0.7	\$25.00	0.17%	0.02	\$0.50	0.03%	70	\$29,980	\$0.45	0.4%
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%
	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 26,667	40.3%	2,257	3.4%	1.0	\$21.50	0.06%	0.03	\$0.65	0.03%	70	\$42,400	\$0.64	0.5%
Beetle		_,,			+=====						+,	****	
Potato leafhopper 24,036	36.3%	120	0.2%	1.6	\$30.00	0.01%	0.00	\$0.00	0.00%	8	\$2,880	\$0.04	0.0%
Thrips (Bean) 294	0.4%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	Ő	\$0	\$0.00	0.0%
Thrips (Citrus) 336	0.5%	176	0.3%	1.0	\$30.00	0.00%	0.00	\$0.00	0.00%	Ő	\$0 \$0	\$0.00	0.0%
White-marked 662		120	0.2%	0.3	\$30.00	0.00%	0.00	\$0.00	0.00%	Õ	\$0	\$0.00	0.0%
fleahopper	1.0%		0.2/0	0.0	\$20.00	0.007.0	0.00	<b>\$0.00</b>	0.0070	Ŭ	40	40.00	0.070
Boll Weevil 0	1.0%	0	0.0%	0.0	\$0.00	0.00%	0.00	\$0.00	0.00%	0	\$0	\$0.00	0.0%
TOTAL	0.0%						1.79	\$56.13	4.77%	13,435	\$8,068,046	\$121.94	

Table 7. Insect loss estimates for Arizona Bt cotton during 2024, continued.

		_	SUM	MARY DATA				
	Da	ta Input		Yield and Management Results	Econon	Economic Results		
State	Arizona			Total Acres	66,162		Total	Per Acre
Region	West			Total Bales Harvested	207,431	Foliar Insecticide Costs	\$3,713,484	\$56.13
Year	2024			Total Bales Lost to Insects	13,435	Seed Treatment Costs	\$465,110	\$7.03
Total Acres (Upland)	66,162	In-furrow cost/treated acre	\$7.79	Percent Yield Loss	4.8%	In-Furrow Costs	\$46,955	\$0.71
Yield / Acre (Upland)	1,505	% acres in Boll Weevil Eradication	100%	Yield w/o Insects (lb/acre)	1,580	Scouting Costs	\$1,091,673	\$16.50
Price / lb	\$0.75	Cost/acre Boll Weevil Eradication	\$4.01	Av. # Applications	1.79	Eradication Costs	\$530,619	\$8.02
yield potential (lb/acre)	2,042	% acres in Pink Bollworm Eradication	100%	Total Bales lost (all factors)	74,075	Bt Cotton	\$2,768,625	\$41.85
Acres (Pima)	-	Cost/acre Pink Bollworm Eradication	\$4.01	Total % yield Loss	26.3%	Total Costs	\$8,616,466	\$130.23
Yield / Acre (Pima)	-	% Insect apps by air	54%	Transgenic Cotton (arthropods) (# acres)	66,162	Yield Loss to Insects	\$4,836,600	\$73.10
% Acres Scouted	100%	No. apps by air	1.8	Boll Weevil Eradication (# acres)	66,162	Total Losses + Costs	\$13,453,066	\$203.34
Fee / Scouted Acre	\$16.50	Cost/app by air	\$12.30	Pink Bollworm Eradication (# acres)	66,162			
No. times scouted/week	2.0	% insect apps by ground	40%	# Scouted Acres	66,162			
% acres Transgenic (Bt) Cotton	100%	No. apps by ground	1.7	Seed Treatments (arthropods) (# acres)	11,253			
Cost/treated acre (Bt) Cotton	\$41.85	Cost/app by ground	\$13.67	In-Furrow Applications (# acres)	6,031			
% acres with seed treatment	17%	% Loss to weather	16.7%	Applications by Air (acres)	35,978			
Seed trt. cost/ treated acre	\$41.33	% loss to non-arthropods	0.1%	Applications by Ground (acres)	26,599			
% acres with in-furrow	9%	% loss to other (chemical injury,	4.7%	No. acres with no foliar insecticide	27,453			
		weeds, diseases, etc.)		applications				

## Table 7. Insect loss estimates for Arizona Bt cotton during 2024, continued.

					% acres treated	# acres treated	# apps
Upland Cotton	% Acres	# Acres	Total cost/acre	Bt cost/acre	for BW/TBW	for BW/TBW	for BW/TBW
Bollgard II	6.3%	4,171	-	\$41.85	0%	0	0.0
Bollgard III	83.2%	55,034	-	\$41.85	0%	0	0.0
Bollgard III/Thryvon	-	-	-	-	-	-	-
WideStrike	2.5%	1,656	-	\$41.85	0%	0	0.0
WideStrike 3	5.6%	3,680	-	\$41.85	0%	0	0.0
TwinLink	0.0%	0	-	-	-	-	-
TwinLink Plus	2.4%	1,621	-	\$41.85	0%	0	0.0
Total Bt	100.0%	66,162	\$0.00	\$41.85	0.0%	0	0.0
Herbicide Traits Only	0.0%	0	-	-	-	0	
Conventional	0.0%	0	-	-	-	0	
Organic	0.0%	0	-	-	-	0	
Total Upland Cotton	100.0%	66,162	\$0.00	\$41.85	0.0%	0	0.0
Non Upland Cotton							
Pima	0.0%	0	-	-	-	0	
Other	0.0%	0	-	-	-	0	
Organic	0.0%	0	-	-	-	0	
Total (all Cotton)		66,162	\$0.00		0.0%	0	0.0