

252
 1055
 Annual
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 Same

Fund No. 367377 (APPA-RIA03-AGRPNOMIC MGT)

Report of Progress: Research plots were established for the 2011 crop season at the Wiregrass Research and Extension Center in Headland, Al. as part of this multi-state project. The purpose of this research is to determine if there are any differences in yield from multiple row patterns with different varieties and various types of tillage practices. Plots were planted the end of May and were harvested for yield and grade. Data was then analyzed for statistical differences.

Figure 1 shows the yields from all varieties in twin and single rows. Only GaO7W, GaGreener, and GaO9B showed a significant difference in yield between twin and single rows. Figure 2 shows the leaf spot ratings between varieties. FLO7 had significantly less leaf spot than the other varieties did from the same location and fungicide treatment program. Figure 3 shows the white mold ratings. FLO7 and Ga10T had significantly fewer white mold hits than the other varieties. This is not uncommon with the longer season varieties. Figure 4 shows a significant difference in grade between Ga 10T and GaGreener compared to FLO7. The grade is one of biggest drawbacks with FLO7 as well as its larger seed size. Figure 5 shows a slight statistical benefit to grade with twin rows over single.

Figure 1.

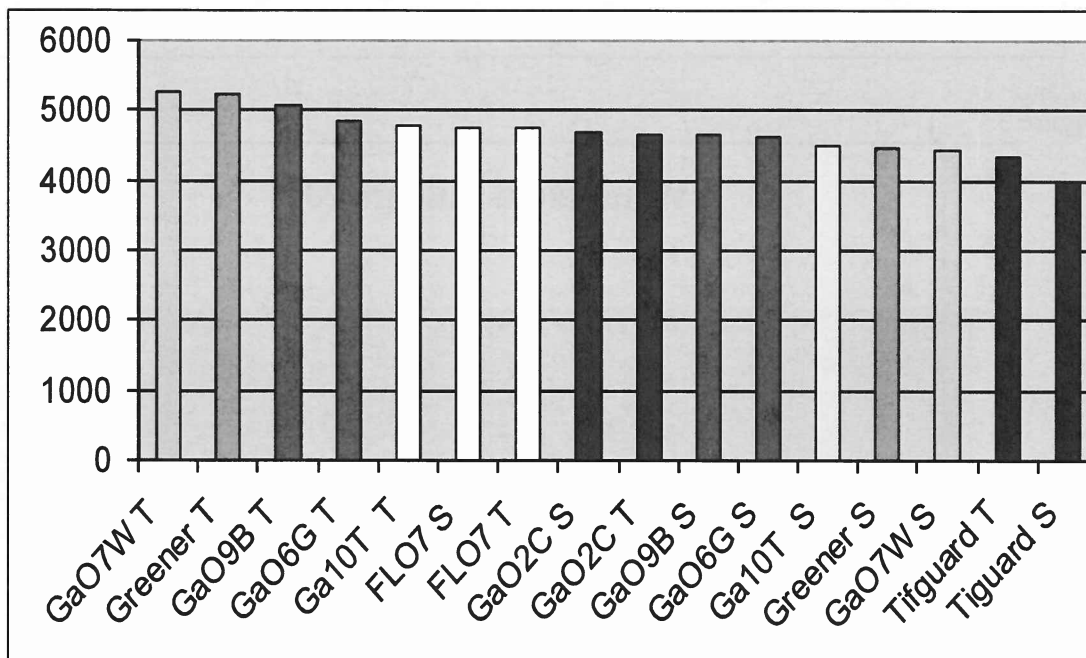


Figure 2.

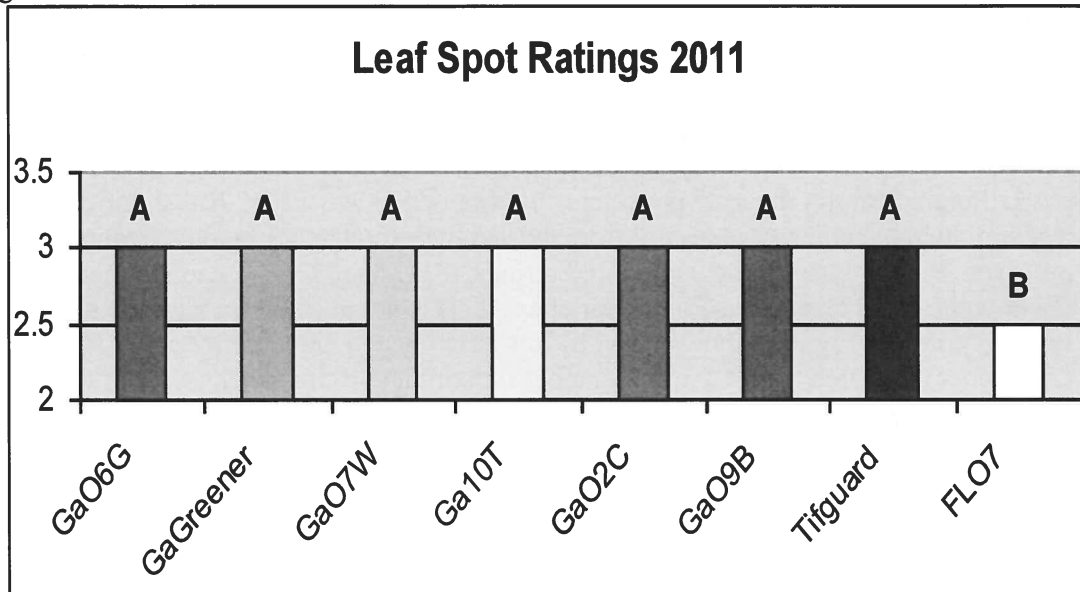


Figure 3.

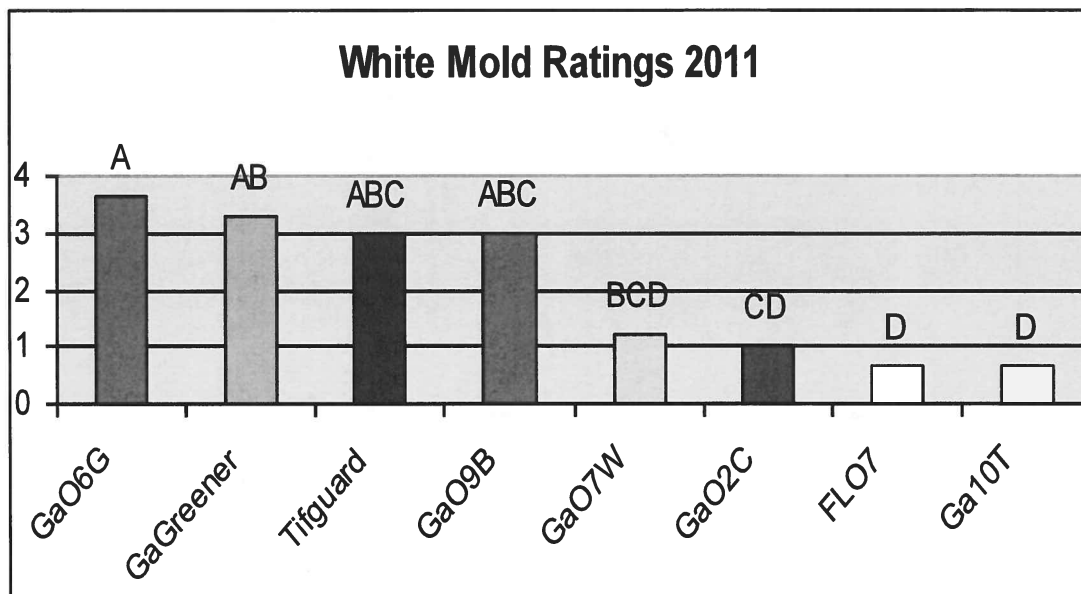


Figure 4.

Means with the same letter are not significantly different.				
t	Grouping	Mean	N	Variety
	A	77.1667	6	Ga10T
	A			
B	A	76.5000	6	GaGreenr
B	A			
B	A C	76.0000	6	GaO2C
B	A C			
B	A C	75.6667	6	GaO7W
B	A C			
B	A C	75.3333	6	GaO6G
B	C			
B	C	75.0000	6	Tifguard
B	C			
B	C	74.6667	6	GaO9B
	C			
	C	74.1667	6	FLO7

Figure 5.

Means with the same letter are not significantly different.				
t	Grouping	Mean	N	RowSpac
A		76.1667	24	Twin
B		74.9583	24	Single