

Table 18. Response to tarnished plant bug and bacterial blight for entries in the 14RBTN at Keiser, AR¹ (Cooperator: Fred Bourland).

Cultivar	Tarnished Plant Bug ²				Bacterial Blight ³	
	Damage ³		Flowers		Susceptible	Response
	%	r	no./plot	r	no./plot	
Ark 0614-49	59	12	21	11	1.0	Res
Ark 0615-38	57	10	18	21	1.5	Res
Ark 0614-34	62	22	19	15	1.0	Res
PD 07066	60	14	19	18	5.8	Int
PD 07116	60	15	9	30	2.8	Res
PD 08039	60	16	6	31	1.0	Res
GA 2009100	64	25	17	23	9.0	Sus
GA 2009037	55	8	15	26	7.8	Sus
GA 2010074	64	26	18	20	7.8	Sus
MD10-6	67	29	21	10	2.3	Res
LA11309062	50	1	20	13	7.3	Sus
LA11309040	60	17	20	14	9.0	Sus
LA11309005	53	3	15	25	3.3	Res
OA-185	55	9	19	19	9.0	Sus
OA-173	52	2	23	3	5.0	Int
PX06520-42-2-1	64	27	22	4	4.3	Int
AU51038	57	11	22	5	7.8	Sus
AU91411	63	23	15	26	6.8	Sus
AU52034	67	30	19	16	7.0	Sus
NM12Y1002	60	18	17	24	6.8	Sus
NM12Y1004	53	4	21	9	6.8	Sus
NM12Y1005	53	5	23	1	2.3	Res
MS 0043-28 -1	63	24	21	6	7.5	Sus
MS 0045-14 -5	59	13	20	12	7.3	Sus
MS 0040-19 -4	61	19	19	16	9.0	Sus
DP 393 ck	54	7	21	6	1.5	Res
SG 105 ck	66	28	23	2	5.8	Int
FM 958 ck	61	20	18	22	0.0	Res
UA 222 ck	53	6	21	8	1.5	Res
DP 491 ck	61	21	14	28	9.0	Sus
Frego, sus check	82	31	11	29	2.8	Res
Mean	60.0		19.0		5.1	
LSD0.10	11.0		11.0		3.3	
C.V.(%)	23.1		23.1		55	
R2*100	34.7		34.7		60.5	

1/ Lines were planted in 20 ft x 1 row plots (8 replications) on May 23 in a separate test from the yield test at Keiser. No insecticide treatments for TPB were made.

2/ Response to tarnished plant bug was determined by examining white flowers (up to 6 flowers/plot/day for 6 days) for presence of anther damage. Due to lateness of TPB in plots, number of flowers examined were limited on some lines.

3/ Four of the 8 replications were inoculated with 4 races of *Xanthomonas axonopodis* pv. *malvacearum* on July 8. Number of susceptible plants per plot were subsequently counted. If susceptible plants were found throughout plot, plot was given a score of "9". Less than 4 susceptible plants/plot was classed as "resistant"; 4 to 6 plants classed as "intermediate"; and more than 6 plants classed as "susceptible".