

Table 16. Leaf pubescence, bract trichomes, tarnished plant bug flower damage, and susceptibility to bacterial blight for entries in the 2020 RBTN at Keiser, Arkansas (Cooperator: Fred Bourland)¹.

Entry	Leaf pubescence ²	Stem pubescence ²	Bract trichomes ³	Damaged flowers ⁴	Bacterial blight ⁵
	rate	rate	no.	%	%sus
Ark 1207-11	4.2	5.9	35.4	60	0
Ark 1207-32	2.8	6.1	34.2	71	0
Ark 1208-21	3.6	5.5	38.0	62	7
Ark 1208-39	2.8	4.7	39.5	64	4
Ark 1214-42	1.9	4.7	35.5	79	4
DP 393 CK	1.8	5.1	39.3	68	7
DP 493 CK	1.8	5.6	39.0	70	0
FM 958 CK	3.2	5.5	37.1	74	10
PD 2012011	3.3	6.3	35.5	79	82
PD 2012037	2.1	3.9	42.2	79	7
PD 2012066	2.3	6.1	35.9	69	42
PD 2013016	2.8	5.3	32.3	79	49
PD 2013041	1.4	5.8	35.8	73	95
TAM 14 B-72	3.6	5.0	34.1	71	0
TAM 14 E-12	2.8	6.3	45.1	72	90
UA 222 CK	4.0	6.6	37.1	64	3
Frego (TPB Susceptible) ⁶				94	
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Mean	2.8	5.5	37.3	71	25
LSD (0.10)	1.4	1.2	4.8	7	16
C.V.(%)	41.6	18.6	10.8	12.3	45.1
R-Square	51.1	46.9	53.6	62.8	93.1

Values in bold not significantly different from highest value according to LSD(0.05).

¹ Planted May 20, harvested Oct 9, 2020 on a Sharkey clay soil in northeast Arkansas.

² Leaf and stem pubescence rated at Keiser irrigated test (6 plants per plots, 6 reps) using scale of 1 (smooth leaf) to 9 (pilose, very hairy).

³ Marginal trichome density of bracts determined on 6 bracts/plot (4 reps) at Keiser irrigated test.

⁴ Response to tarnished plant bug populations was evaluated in separate test (managed for high TPB populations) at Keiser by examining white flowers (6 flowers/plot/day for 6 days) for presence of anther damage. Plots were 1-row, replicated 8 times and planted May 29.

⁵ Varieties/breeding lines were planted in flats (3 replications, 10 seed/plot) in greenhouse, and scratch inoculated with *Xanthomonas citri* pv. *malvacearum*. The inoculum was obtained from naturally infected leaves collected at the 2019 Keiser location. Scatches were examined for water-soaking, and % of susceptible plants were determined.

⁶ Ark 0628fgRF (frego bract, Round-up Flex breeding line) was included as tarnished plant bug (TPB) susceptible check.