

Table 19. Leaf pubescence, bract trichomes, tarnished plant bug flower damage, and susceptibility to bacterial blight for entries in the 2018 RBTN at Keiser, Arkansas (Cooperator: Fred Bourland)¹.

Entry	Leaf pubescence ²		Bract trichomes ³		Damaged flowers ⁴		Bacterial blight ⁵
	rate	r	no.	r	%	r	%sus
Ark 1015-42	4.9	19	27.3	10	51	7	0
Ark 1005-41	4.3	17	28.7	13	53	13	0
Ark 1004-38	4.1	15	27.3	9	54	17	0
Ark 1005-35	3.9	12	26.3	6	52	11	0
Ark 1007-15	3.7	7	28.2	12	60	24	0
16-13P1115	5.4	20	24.6	3	46	2	100
TAM LBB150107	3.0	5	20.1	1	52	9	0
TAM LBB150824	4.7	18	28.7	16	51	8	73
TAM LBB150921	5.8	21	27.1	8	50	6	0
GA 2012141	2.1	1	22.3	2	53	16	10
GA 2015024	3.7	7	28.7	13	52	12	4
TAM 13S-03	5.9	22	32.8	22	44	1	87
TAM 12J-39	4.2	19	29.7	19	58	23	0
LA14063083	4.0	14	27.1	7	57	21	3
LA14063075	3.7	7	28.1	11	56	20	37
LA11309040	6.3	24	35.0	24	48	4	93
PD2011021	3.9	13	29.2	18	49	5	100
PD2011081	3.8	11	24.9	4	53	15	55
PD2011026	2.8	4	28.8	17	55	18	87
MS 2010-87-5	2.6	2	26.2	5	55	19	27
DP 393 CK	3.7	7	34.9	23	52	10	3
DP 493 CK	2.6	2	32.4	21	57	22	0
FM 958 CK	3.4	6	28.7	13	53	14	0
UA 222 CK	6.2	23	29.7	20	47	3	3
Frego ⁶					71	26	
Frego					68	25	
Mean	4.1		28.2		54		28
LSD (0.10)	1.2		4.0		7		9
C.V.(%)	28.6		12.0		15.7		22.2
R²*100	56.4		61.1		45.7		98.3

¹ Planted May 8, harvested Jan 31, 2019 on a Sharkey clay soil in northeast Arkansas.

² Leaf 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 2017 Keiser location. Scatches were examined for water-soaking, and % of susceptible plants were determined.

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