

Table 15. Leaf pubescence, bract trichomes, tarnished plant bug flower damage, and susceptibility to bacterial blight for entries in the 2019 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	r	rate	r	no.	r	%	r	%sus
13AFX13-12-5	2.7	4	5.7	13	27.9	7	77	23	7
13AFX6-27-2	2.4	3	4.7	8	29.8	12	65	7	44
Ark 1102-55	4.6	17	2.1	1	29.9	13	68	14	0
Ark 1112-59	5.7	21	6.2	21	35.0	24	71	16	7
Ark 1114-21	5.8	22	5.9	17	31.2	17	75	22	0
Ark 1115-36	4.8	20	4.2	5	29.6	11	64	6	0
Ark 1117-60	4.3	16	4.9	9	26.6	3	64	5	0
Ark 1124-50	3.6	10	5.2	11	29.9	14	71	17	0
CSX8308	2.0	1	3.0	2	21.9	1	74	21	0
GA2016024	2.3	2	3.8	4	26.9	5	72	20	8
GA2016099	4.0	15	4.3	6	29.6	10	68	12	93
GA2016103	3.6	10	5.8	14	34.8	23	65	9	0
LA16063019	4.8	19	3.8	3	33.5	22	60	3	67
LA16063033	3.6	10	5.8	14	32.2	21	72	18	50
LA16063054	4.6	18	5.8	16	29.9	15	59	2	75
MS 2010-87-37	3.3	7	4.5	7	26.0	2	72	19	20
TAM 12J-39	3.7	13	5.1	10	31.4	18	66	11	7
TAM 13S-03	6.0	24	6.7	24	31.7	19	66	10	96
TAMLBB15905	3.9	14	6.2	22	26.8	4	69	15	0
TAMLBB16507	2.9	6	6.3	23	28.2	9	84	24	0
DP 393 CK	3.5	9	6.0	18	31.1	19	51	1	3
DP 493 CK	2.8	5	6.1	19	31.8	20	68	13	7
FM 958 CK	3.4	8	5.5	12	27.8	6	65	8	3
UA 222 CK	6.0	23	6.1	19	28.0	8	62	4	3
Frego ⁶							88	26	
Frego							87	25	
Mean	3.9		5.1		29.6		69		20
LSD (0.10)	1.4		0.9		3.5		11		21
C.V.(%)	30.9		15.2		10.0		18.2		73.9
R-Square	0.58		0.76		0.65		0.33		0.87

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

¹ Planted May 18, harvested Oct 4, 2019 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 June 3.

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 2018 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