

Table 17. Leaf and stem pubescence, bract trichomes, tarnished plant bug flower damage, cotton fallout, and susceptibility to bacterial blight for entries in the 2021 RBTN at Keiser, Arkansas (Cooperator: Fred Bourland)¹.

Entry	Designation	Leaf pubescence ²	Stem pubescence ²	Bract trichomes ³	Damaged flowers ⁴	Cotton fallout ⁵	Bacterial blight ⁶
		rating	rating	no.	%	rating	%sus
1	Ark 1301-16	4.5	6.3	39.2	77	2.3	0
2	Ark 1311-18	6.2	5.8	43.0	79	3.1	0
3	Ark 1308-58	5.3	6.6	41.6	76	2.5	3
4	Ark 1317-31	5.3	5.8	43.6	72	1.3	0
5	Ark 1309-56	3.8	5.8	38.9	71	2.9	0
6	CSX5432	2.5	6.3	32.7	68	2.1	0
7	TAMLBB16507	1.8	6.7	39.2	83	1.0	7
8	TAMLBB17206	2.2	6.6	35.7	74	1.0	57
9	OA-11	5.4	6.5	43.5	74	1.4	100
10	OA-13	3.8	6.0	37.9	77	2.4	48
11	OA-133	2.8	5.3	34.2	72	3.3	72
12	GA 2015026	1.9	6.3	36.4	70	2.0	4
13	GA 2016029	3.1	4.8	37.2	72	2.3	22
14	GA 2016090	2.1	5.4	35.2	76	2.9	49
15	TAM 14B-72	4.8	6.3	37.2	72	1.6	3
16	TAM 14E-12	5.3	5.9	42.7	64	1.9	74
17	LA19073002	5.3	6.8	41.0	63	4.3	84
18	LA19073070	5.8	5.8	35.6	63	1.9	81
19	MS 2010-87-37	3.5	5.3	36.0	74	2.0	17
20	MS 2010-87-42	1.8	5.8	31.9	72	2.4	17
21	MS 2010-87-5	3.2	5.5	39.3	74	2.6	3
22	MS 2010-66-16	4.2	6.2	35.8	73	2.0	37
23	MS 2010-28-27	3.7	6.2	37.4	72	2.8	24
24	MS 2010-96-9	3.7	5.9	36.7	69	3.0	11
25	DP 393 CK	4.5	6.6	41.5	66	3.5	9
26	DP 493 CK	2.8	6.2	43.4	68	3.0	0
27	FM 958 CK	3.3	6.3	36.0	71	1.6	4
28	UA 222 CK	6.5	6.3	39.2	73	2.9	3
	Frego (TPB Susceptible) ⁷				100		
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	Mean	3.9	6.0	38.3	74	2.4	26
	LSD (0.10)	1.3	0.8	3.6	9	1	18
	Entry (P>F)	<0.0001	0.0118	<0.0001	<0.0001	<0.0001	<0.0001
	C.V.(%)	28.4	11.7	7.9	14.8	24.4	51.3
	R-Square	71.3	47.4	65.1	43.1	71.1	89.5
	Reps	4	4	4	8	4	3

¹ Planted May 18, harvested on October 17 and December 2 (picker malfunction) on a Sharkey clay soil in northeast Arkansas.

² Leaf and stem pubescence visually rated from 1 (smooth leaf) to 7 (very hairy).

³ Marginal trichome density of bracts determined on 6 bracts/plot 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 consisted of a single row and were planted May 29.

⁵ Amount of cotton on the ground was visually rated from 1 (very little) to 5 (much) on October 21 following a heavy wind/rain storm event on October 15. The correlation (r) between cotton fallout and lint yield was -0.214.

⁶ Seed of each entry were planted in greenhouse flats (10 seed/flat) and scratch inoculated with *Xanthomonas citri* pv. *malvacearum*. Inoculum was obtained from naturally infected leaves collected in 2019 at Marianna, AR. Scratch wounds were examined for water-soaking, and percentage of susceptible plants were determined.

⁷ Ark 0628fgRF (frego bract, Round-up Flex breeding line) was included as tarnished plant bug (TPB) susceptible check.