

Table 19. Leaf and stem pubescence, bract trichomes, and response to tarnished plant bugs of cotton strains in the 2017 Regional Breeders Testing Network Test at Keiser, AR (Cooperator: Fred Bourland)<sup>1</sup>.

Entry	Cultivar	Leaf pub. <sup>2</sup>		Stem pub. <sup>2</sup>		Bract tric. <sup>3</sup>		Dam. flws <sup>4</sup>	
		rate	r	rate	r	no.	r	%	r
1	LA14063046	4.3	18	6.5	10	42.2	31	33	5
2	LA14063101	3.9	14	6.3	6	38.9	27	36	12
3	LA14063038	3.6	12	6.8	21	31.3	8	50	34
4	LA14063001	4.7	21	6.7	19	37.1	24	41	21
5	LA14063083	6.0	31	6.4	7	43.0	32	33	4
6	TAM 13S-03	5.5	27	6.5	11	39.0	28	38	18
7	TAM WK-11L	4.3	19	7.0	32	29.2	4	41	22
8	TAM 13Q-51	6.1	32	6.8	24	35.4	18	37	13
9	Tamcot G11	3.5	11	6.7	18	34.2	15	45	27
10	TAM 13Q-18	4.0	16	6.5	9	29.8	6	45	28
11	PD 2013016	3.3	8	6.7	16	33.6	14	46	30
12	PD 07040	3.3	9	6.9	27	32.8	11	41	23
13	PD 08028	5.6	28	7.0	33	35.9	21	40	20
14	PD 09084	2.6	4	6.6	12	28.1	3	41	24
15	PD 09046	4.7	22	6.6	13	38.2	26	49	32
16	Ark 0921-27ne	5.9	30	6.8	23	35.2	16	33	7
17	Ark 0912-18	6.1	33	6.8	25	45.7	34	33	6
18	Ark 0921-31ne	5.3	25	6.7	20	35.4	17	45	29
19	Ark 0911-13	4.1	17	7.0	31	29.5	5	35	8
20	Ark 0908-60	2.1	1	6.1	2	33.3	13	36	10
21	NM 16-13P1088B	3.9	15	6.1	3	30.4	7	39	19
22	NM 13R1015	4.7	23	6.1	4	32.0	9	46	31
23	Acala 1517-08	5.3	26	6.9	28	35.8	20	36	11
24	TAM LBB130218	2.7	5	7.0	30	32.9	12	43	26
25	TAM LBB131001	2.3	3	6.7	15	24.2	1	38	17
26	AU 90098	5.6	29	6.9	29	44.2	33	31	2
27	GA 2012141	2.9	7	5.4	1	26.0	2	49	33
28	GA 2015032	2.1	2	6.3	5	38.0	25	35	9
29	GA 2015073	2.8	6	6.9	26	32.4	10	38	14
30	GA 2015090	4.7	24	6.6	14	37.1	23	38	16
31	DP 393 CK	3.6	13	6.5	8	39.2	29	28	1
32	DP 493 CK	3.3	10	6.7	17	35.7	19	42	25
33	FM 958 CK	4.3	20	6.8	22	39.9	30	38	15
34	UA 222 CK	6.1	34	7.0	34	36.2	22	32	3
35	Ark 0628fgRF <sup>5</sup>	.	.	.	.	.	.	92	36
36	Ark 0628fgRF <sup>5</sup>	.	.	.	.	.	.	92	35
	<b>Mean</b>	4.2		6.6		35.0		42	
	<b>LSD (0.10)</b>	1.1		0.6		4.4		10	
	<b>C.V.(%)</b>	25.9		9.1		10.8		30.1	
	<b>R<sup>2</sup>*100</b>	62.9		31.1		73.7		57.2	

<sup>1</sup> Separate agronomic and tarnished plant bug tests were evaluated on a Sharkey clay soil at Keiser in northeast Arkansas. Pubescence and trichome data were collected from agronomic test (2-row x 14m plots, 4 reps) planted May 10, harvested Oct 31. The tarnished plant bug test (1-row x 7.5m, 8 reps) was planted on May 15 in a different field, and terminated after flower data were collected.

<sup>2</sup> 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).

<sup>3</sup> A bract from a 1st position white flower was sampled from 6 random plants per plot as plants approached physiological cutout. Marginal bract trichome density was determined by counting number of trichomes visible through prescribed area.

<sup>4</sup> Response to tarnished plant bug populations was evaluated at Keiser by examining white flowers (6 flowers/plot/day for 6 days) for presence of anther damage. Accumulative percentage of damaged flower ("dirty flowers") was determined for each plot.

<sup>5</sup> Ark 0628fgRF (a frego bract, Round-up Flex breeding line) was included as susceptible check.