

Table 18. Performance of cotton strains in the 2017 Regional Breeders Testing Network Test at Keiser, AR (Cooperator: Fred Bourland)<sup>1</sup>.

Entry	Cultivar	Plant ht.		Open bolls		Seed/ acre		Fibers/ seed <sup>2</sup>		Fiber density <sup>3</sup>		Bacterial blight <sup>4</sup>	Bacterial blight
		cm	r	%	r	mil.	r	no.	r	no.	r	%sus	rate
1	LA14063046	126	20	48	25	4.618	6	14429	18	135	12	18	res
2	LA14063101	122	25	50	11	4.309	14	14578	14	143	5	73	sus
3	LA14063038	123	23	46	29	4.510	9	13009	32	124	29	4	res
4	LA14063001	122	24	49	19	4.493	10	15071	8	142	6	45	sus
5	LA14063083	127	18	49	19	5.264	1	15610	3	150	3	8	res
6	TAM 13S-03	121	27	55	3	3.933	20	14985	9	136	11	94	sus
7	TAM WK-11L	119	29	50	11	4.803	3	14134	22	129	25	0	res
8	TAM 13Q-51	118	30	53	6	4.450	12	12888	33	117	32	3	res
9	Tamcot G11	131	16	47	28	2.501	32	16172	1	134	15	42	sus
10	TAM 13Q-18	134	12	49	19	3.214	27	15405	6	137	9	76	sus
11	PD 2013016	138	5	49	19	2.776	31	14022	26	131	23	39	int
12	PD 07040	125	22	49	19	4.173	17	14449	17	125	28	59	sus
13	PD 08028	131	15	50	11	3.452	23	13278	30	118	31	78	sus
14	PD 09084	139	4	46	29	2.117	34	13054	31	113	34	24	int
15	PD 09046	137	6	52	8	3.141	28	12689	34	115	33	0	res
16	Ark 0921-27ne	117	31	52	8	4.579	7	13322	29	123	30	3	res
17	Ark 0912-18	115	33	53	6	4.826	2	14933	12	134	18	0	res
18	Ark 0921-31ne	136	7	58	1	4.549	8	14123	23	126	27	6	res
19	Ark 0911-13	116	32	54	5	4.469	11	14069	25	127	26	0	res
20	Ark 0908-60	126	21	50	11	4.665	5	14117	24	136	10	0	res
21	NM 16-13P1088B	134	11	48	25	2.338	33	14916	13	133	20	59	sus
22	NM 13R1015	142	2	55	3	3.933	21	13911	27	133	21	64	sus
23	Acala 1517-08	135	10	51	10	2.858	30	14479	15	134	19	82	sus
24	TAM LBB130218	121	26	49	19	3.242	25	16048	2	141	7	19	res
25	TAM LBB131001	128	17	44	31	3.041	29	14289	20	138	8	88	sus
26	AU 90098	135	9	43	32	3.235	26	15520	4	150	2	69	sus
27	GA 2012141	136	8	50	11	4.747	4	14958	11	134	17	9	res
28	GA 2015032	139	3	40	34	4.328	13	13490	28	133	22	11	res
29	GA 2015073	133	13	48	25	3.990	19	15163	7	143	4	55	sus
30	GA 2015090	144	1	50	11	3.574	22	14175	21	135	13	22	int
31	DP 393 CK	120	28	42	33	4.218	15	14428	19	134	14	6	res
32	DP 493 CK	127	19	57	2	3.289	24	14454	16	150	1	0	res
33	FM 958 CK	131	14	50	11	4.049	18	14973	10	131	24	13	res
34	UA 222 CK	110	34	50.00	11	4.179	16	15426	5	134	16	4	res
	<b>Mean</b>	128		50		3.878		14428		133		32	
	<b>LSD (0.10)</b>	9		7		0.480		653		6		22	
	<b>C.V.(%)</b>	6.5		14.1		15.9		4.3		4.2		50.6	
	<b>R<sup>2</sup>*100</b>	60.8		50.5		68.5		72.2		78.2		85.7	

<sup>1</sup> Planted May 10, harvested Oct 31 on a Sharkey clay soil in northeast Arkansas.

<sup>2</sup> Estimated number of fiber per seed produced = (LI/100) / ((UHM(UI/100))\*(Mic/1000000)).

<sup>3</sup> Fiber density estimated as number of fiber per square mm. Fden = FPS / (35.74 + (6.59\*SI))

<sup>4</sup> Varieties/breeding lines were planted in flats (3 replications, 13 seed/plot) in greenhouse, and scratch inoculated with *Xanthomonas citri* subsp. *malvacearum*. The inoculum was obtained from naturally infected leaves collected at the 2015 Manila location. Scatches were examined for water-soaking, and % of susceptible plants were determined.