

Table 23. Morphological traits, open bolls, and seed traits in the 2012 RBTN at Keiser, AR¹. (Cooperator: Fred Bourland)

Entry	Strain	Plant Height		Open Bolls		Seed per Acre		FPS [†]		FD [‡]		Leaf [§] Pubescence		Stem [§] Pubescence		Bract [¶] Trichomes	
		cm	r	%	r	mil.	r	no.	r	no.	r	rating	r	rating	r	no./cm	r
1	AU91215	101	9	60	5	9.858	14	13711	20	131	10	1.9	20	4.3	15	27.9	15
2	AU90915	100	11	55	19	9.629	20	13783	19	129	15	1.2	30	4.1	17	26.0	21
3	AU91411	98	20	55	19	9.885	13	14722	7	126	22	1.8	22	3.6	22	25.5	22
4	AU91111	101	7	59	11	9.777	18	12989	32	127	18	1.7	25	3.4	24	28.8	9
5	AU90810	102	6	54	22	9.787	17	13708	21	127	20	1.6	26	4.6	8	26.8	20
6	Ark 0409-17	101	10	60	5	10.320	4	16139	2	146	2	2.8	11	3.3	25	23.4	25
7	Ark 0409-16	107	4	58	15	10.060	10	16900	1	144	4	2.8	11	2.7	30	22.6	27
8	Ark 0403-3	95	27	61	1	9.837	16	11839	33	114	32	2.8	13	2.9	27	27.7	16
9	Arkot 0410-32	92	32	58	15	9.311	22	13138	29	111	33	2.3	16	1.4	31	27.0	19
10	Arkot 0407-4	100	12	59	11	8.805	26	15263	4	131	11	2.4	14	4.5	12	28.3	10
11	Barbren	100	15	51	29	7.570	32	14158	16	122	28	3.2	8	4.6	8	27.6	17
12	GA 2004143	121	1	60	5	10.120	9	14365	12	146	3	1.5	27	3.0	26	28.2	11
13	GA 2008083	104	5	61	1	8.769	28	13499	24	128	16	2.3	15	3.8	20	22.0	29
14	GA 2008057	100	13	60	5	10.140	7	13239	28	128	17	1.8	22	3.8	19	22.1	28
15	GA 2009100	107	3	54	22	8.751	29	14806	5	150	1	2.0	19	4.4	13	34.9	2
16	LA08310066	93	31	53	24	9.837	15	13277	27	119	31	4.4	1	4.7	7	35.4	1
17	MD 26ne	98	22	59	11	10.270	5	13511	23	121	29	4.2	3	4.9	2	29.0	8
18	MD 10-5	94	29	59	11	10.940	1	14364	13	143	5	3.8	5	6.3	1	27.9	14
19	MD 87	93	30	58	15	10.850	2	14574	9	126	23	3.7	7	4.3	14	29.9	7
20	NC11AZ01	101	7	61	1	10.120	8	13615	22	124	24	1.1	31	4.1	17	21.3	31
21	NM11Q1157	98	20	40	33	6.078	33	14375	11	131	9	1.1	31	1.3	32	15.7	33
22	NM11Q1008	100	13	60	5	10.460	3	13054	30	131	8	1.3	29	4.8	4	22.7	26
23	Acala 1517-08	95	26	53	24	8.372	31	14494	10	129	14	3.9	4	3.8	20	32.0	5
24	PD05064	98	19	50	31	9.013	24	14198	15	138	7	3.1	9	2.9	27	32.4	4
25	PD05074	100	17	53	24	8.827	25	14667	8	139	6	2.1	17	4.2	16	24.5	24
26	PD05071	99	18	51	29	10.260	6	13341	26	122	27	4.2	2	3.5	23	28.1	12
27	PD06078	95	24	53	24	9.503	21	13349	25	122	26	3.0	10	4.9	3	28.1	13
28	PD06001	108	2	56	18	9.953	12	13026	31	119	30	1.4	28	2.9	27	25.2	23
29	Tamcot 73	96	23	50	31	9.111	23	14266	14	126	21	3.8	5	4.8	5	33.9	3
30	TAM 06WE-62-1	95	24	53	24	8.798	27	15543	3	127	19	1.0	33	1.0	33	16.3	32
31	DP 393	88	33	60	5	9.971	11	13877	18	130	12	1.8	21	4.8	5	31.3	6
32	FM 958	100	16	61	1	9.771	19	13979	17	124	25	1.8	24	4.6	8	21.5	30
33	SG 105	94	28	55	19	8.695	30	14767	6	130	13	2.1	17	4.6	8	27.1	18
	Mean	99		56		9.498		14077		129		2.4		3.8		26.7	
	LSD0.10	ns		4		0.920		870		8		0.9		1.0		3.0	
	C.V.(%)	13.8		5.3		8.3		5.3		5.2		32.9		21.7		9.7	
	R2*100	20.9		77.2		67.1		70.5		71.4		70.8		73.3		82.2	
	Reps	4		4		4		4		4		4		4		4	

¹ Planted May 1, harvested Oct 28 on a Sharkey clay soil in northeast Arkansas.

[†] Estimated number of fiber per seed produced = (LI/100) / ((UHM(UI/100))*(Mic/1000000)).

[‡] Fiber density measured as the number of fibers/mm². FD = FPS / (35.74 + (6.59*SI))

[§] Leaf and stem pubescence was rated from 1 (smooth leaf) to 9 (pilose, very hairy). 4 reps, 6 plants per plot.

[¶] Marginal trichome density on bracts (number/cm on bract edge) was determined on 6 bracts/plot (4 reps).