

Table 6. Least square means for lint yield, yield components, and fiber quality traits in the 2016 RBTN trial conducted at Jackson, TN. (Cooperator: Tyson Raper)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 ¹	QS2 ¹	QS3 ¹
	lbs/a	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%	%	%	%
Ark 0818-23	1381	41.48	7.60	5.90	32.24	10.70	4.80	1.26	85.13	32.60	5.88	6.78	61.75	60.50	68.25
UA 222 CK	1339	40.66	7.68	5.73	30.61	11.10	4.82	1.26	85.33	31.20	6.67	7.00	61.00	62.00	67.00
Ark 0824-89	1326	41.80	8.46	6.12	30.19	11.70	5.15	1.24	85.85	32.40	5.95	6.83	50.25	61.25	55.50
Ark 0822-48	1311	42.41	7.98	5.86	31.10	11.10	4.94	1.28	85.40	31.48	6.28	6.78	65.25	64.00	71.00
SG 105 CK	1286	39.17	7.40	5.96	31.49	11.40	5.08	1.21	85.48	31.53	5.93	6.95	42.75	55.50	50.00
MS 0043-28-1	1272	41.83	7.89	6.06	32.14	10.90	5.01	1.20	84.85	32.48	5.85	7.00	38.75	49.50	48.00
Ark 0812-87ne	1270	42.40	7.96	6.37	33.91	10.70	4.69	1.26	85.33	30.93	6.23	7.00	64.00	63.00	70.00
MD 16-1	1264	43.66	8.53	6.33	32.58	10.90	4.92	1.16	84.98	33.50	5.58	6.70	35.25	49.25	45.00
NM 13G2019	1228	40.56	7.16	5.67	32.33	10.40	4.58	1.27	85.75	33.40	5.98	6.68	67.00	67.25	71.75
AU82074	1217	39.49	7.25	5.90	32.21	11.10	4.61	1.24	84.90	32.70	5.25	7.23	57.50	57.75	65.50
FM 958 CK	1207	39.67	7.04	5.87	33.30	10.61	4.73	1.24	84.48	32.90	4.80	7.03	54.75	53.50	64.00
MS 0152-3-11	1195	41.37	7.67	6.15	33.15	10.80	4.87	1.26	85.60	32.45	5.60	6.88	61.00	64.25	66.50
Ark 0819-89	1193	38.93	7.37	5.80	30.66	11.50	5.24	1.25	86.23	34.13	6.03	6.73	51.00	64.50	55.25
AU77082	1160	39.34	7.26	5.81	31.46	11.10	4.99	1.29	85.50	32.38	5.13	6.78	65.50	64.50	70.25
GA 2011113	1143	41.18	6.80	5.20	31.50	9.60	4.65	1.25	85.78	33.18	5.75	6.80	63.75	66.00	68.50
GA 2012141	1136	40.91	7.55	5.62	30.54	10.90	4.69	1.25	85.63	31.80	5.53	6.98	61.25	64.00	66.75
DP 393 CK	1135	40.70	7.92	5.35	27.56	11.50	5.00	1.24	85.55	32.25	6.20	6.85	53.50	60.25	59.50
GA 2012082	1107	40.73	7.67	6.20	32.99	11.10	4.55	1.28	85.55	31.05	6.05	6.73	70.50	67.25	75.50
NM 13G1029	1055	41.48	7.41	5.03	28.15	10.50	4.63	1.26	84.90	31.78	5.45	7.00	62.75	59.50	70.00
MD 16-2	1049	39.65	7.87	6.48	32.71	12.00	4.01	1.29	86.03	36.75	5.73	6.58	78.00	77.75	84.50
TAM11L-24	1033	34.69	6.83	6.32	32.20	12.80	4.08	1.37	87.03	34.83	4.85	6.00	95.25	88.00	95.50
PD07040	1014	37.94	6.84	6.03	33.49	11.20	4.60	1.27	85.35	32.55	5.48	6.83	66.75	64.50	72.75
TAM13Q-18	968	38.24	7.58	5.94	30.07	12.20	4.83	1.25	84.98	33.50	5.43	7.20	57.50	59.25	65.75
GA 2012050	943	39.66	7.38	6.22	33.46	11.20	4.55	1.27	85.45	33.80	6.23	6.83	69.25	66.50	75.25
PD08028	921	38.39	7.19	5.79	30.88	11.50	4.66	1.25	85.60	33.75	5.85	6.78	62.00	64.25	68.00
DP 493 CK	868	41.18	6.64	5.16	32.01	9.40	4.78	1.19	84.03	32.23	4.78	7.38	38.25	43.75	50.25
PD09084	837	36.27	6.40	5.52	31.26	11.30	4.78	1.26	85.80	35.03	5.73	6.58	63.50	67.50	69.50
PD09046	456	34.48	5.91	4.63	26.94	11.20	4.15	1.34	84.38	32.95	4.63	6.40	82.50	63.75	89.75
Mean	1118	39.94	7.40	5.82	31.47	11.09	4.73	1.26	85.39	32.84	5.67	6.83	60.73	62.46	67.13
Cultivar LSD (.05)	135	1.73	0.66	0.68	ns	0.90	0.26	0.04	0.88	1.47	0.43	0.40	12.71	9.86	10.64
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0810	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	8.61	3.08	6.32	8.33	8.99	5.72	3.93	2.19	0.73	3.18	5.33	4.19	14.87	11.23	11.26
R-Square	0.85	0.82	0.68	0.58	0.43	0.61	0.78	0.74	0.56	0.67	0.80	0.53	0.74	0.66	0.76
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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

¹ QS1, QS2, and QS3 - Qscore, very similar to a selection index, adds the weighted values of selected fiber traits (length, mic, UI, strength) to provide a single measure (0-100) of desirable fiber qualities, and was calculated by weighting selected fiber traits as follows: QS1 - fiber length (0.5), mic (0.25), UI (0.15), and strength (0.10) ; QS2 - fiber length (0.2), mic (0.1), UI (0.4), and strength (0.3); QS3 - fiber length (0.45), mic (0.25), UI (0.0), and strength (0.3).