

Table 5. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Florence, SC. (Cooperator: Todd Campbell)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 [†]	QS2 [†]
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%		
GA 2009100	1263	42.26	7.54	5.07	28.67	10.05	4.74	1.17	84.05	32.70	5.05	7.10	55.25	65.25
LA10307140	1169	43.09	7.81	5.82	32.23	10.20	4.53	1.22	85.20	34.65	5.45	6.80	74.25	79.25
LA10307108	1105	42.76	7.17	6.18	37.17	9.40	4.72	1.18	84.03	32.85	5.03	7.03	57.50	66.00
PD07092	1104	40.46	7.21	6.11	34.35	10.35	4.45	1.20	84.58	34.18	5.28	6.83	70.25	75.25
Ark 0517-54	1070	43.19	7.62	5.74	32.68	9.95	4.72	1.18	83.88	31.30	4.65	7.20	60.00	65.75
LA09309116	1036	43.16	7.80	5.48	30.54	10.00	4.81	1.19	84.63	33.03	5.78	6.80	65.25	71.25
PX06520-42-2-1	1034	42.44	8.50	6.22	30.96	11.25	4.82	1.22	84.65	34.93	5.03	6.93	71.00	75.75
MD 10-6	1017	43.57	7.07	6.01	37.08	8.95	4.78	1.13	83.80	31.88	5.18	6.90	47.75	63.00
FM 958 ck	1015	42.87	7.92	5.13	27.79	10.30	4.83	1.15	83.63	31.80	5.33	6.95	49.75	61.75
GA 2009037	999	42.83	7.64	5.58	31.38	9.90	4.81	1.18	84.43	32.08	5.35	6.98	59.75	68.50
Ark 0504-4	997	41.77	7.25	5.99	34.50	9.90	4.86	1.18	84.45	32.78	5.23	6.95	58.50	68.25
LA10307021	976	40.46	7.23	5.89	32.90	10.45	4.49	1.21	85.18	32.98	5.08	6.75	77.00	78.00
DP 393 ck	962	42.90	7.71	4.76	26.50	10.00	4.79	1.18	84.05	32.63	5.78	6.75	59.75	66.50
GA 2008016	918	43.53	6.63	4.99	32.74	8.40	4.84	1.16	84.00	31.68	4.85	7.25	51.75	64.50
PD06078	906	41.80	7.16	5.20	30.43	9.80	4.76	1.21	84.98	33.50	4.85	6.90	70.75	76.25
MD 25-26ne	899	42.93	7.47	5.27	30.30	9.70	4.70	1.19	84.05	33.63	5.23	6.98	64.50	68.25
Ark 0502-37	887	42.01	6.65	6.00	38.10	8.95	4.91	1.16	84.40	33.03	5.58	7.00	54.00	67.50
MD-DC	882	42.11	7.02	5.57	33.54	9.40	4.88	1.18	84.30	32.23	4.73	7.30	59.00	69.00
GA 2010098	873	42.06	7.34	5.68	32.55	9.95	4.67	1.19	84.70	32.75	4.98	7.05	65.75	71.50
SG 105 ck	873	42.45	7.96	5.40	28.75	10.60	5.03	1.16	84.73	31.50	5.90	6.90	50.00	67.50
PD05069	856	42.87	6.91	5.43	33.97	9.15	4.79	1.20	84.38	32.98	4.70	7.18	67.25	69.75
MD 10-5	843	42.82	7.13	5.37	32.26	9.40	4.78	1.18	84.38	32.15	5.35	6.93	61.50	68.75
NM1302	827	41.48	7.14	4.78	28.08	9.85	4.70	1.15	83.63	31.40	5.78	7.28	50.50	62.75
AU10090	818	42.03	7.07	5.23	31.25	9.50	4.78	1.21	84.78	33.58	5.18	6.98	67.75	74.00
Ark 0506-47	803	41.54	7.30	5.46	31.10	10.00	4.87	1.17	84.75	32.50	4.95	6.95	57.00	69.50
NM1301	773	41.90	6.39	5.01	32.94	8.60	4.77	1.18	83.58	31.73	5.48	7.53	57.50	63.50
AU51038	765	41.53	6.25	4.77	31.98	8.60	4.62	1.19	84.20	32.38	4.93	7.35	63.75	68.50
AU55052	764	41.38	7.24	5.64	32.43	10.05	4.86	1.17	84.10	31.95	5.23	7.08	56.00	65.75
PX06520-42-2-3	753	40.57	8.17	5.20	25.91	11.70	4.89	1.26	85.83	36.25	5.25	6.68	85.25	87.00
PD05064	753	40.33	6.20	5.59	36.44	9.00	4.63	1.19	84.10	33.53	4.68	7.00	65.50	68.50
AU68036	717	42.90	7.29	5.38	31.88	9.55	4.86	1.17	84.05	32.83	5.10	7.05	55.00	65.50
OA-33	671	41.30	6.76	4.98	30.58	9.35	4.77	1.21	84.55	32.35	5.13	6.88	68.50	70.75
NM1303	654	40.50	6.71	5.14	31.03	9.60	4.79	1.15	83.73	30.75	5.60	7.30	48.75	62.25
Acala 1517-99	586	41.20	7.46	4.45	24.63	10.40	4.59	1.18	83.55	32.05	4.98	7.25	58.75	65.00
Mean	899	42.09	7.26	5.43	31.70	9.77	4.76	1.18	84.33	32.72	5.19	7.02	61.32	69.13
LSD (.05)	247	2.17	0.78	1.43	8.88	0.75	0.32	0.05	1.21	2.28	0.84	0.46	18.24	11.09
CV(%)	19.62	3.67	7.70	18.83	19.97	5.46	4.73	3.30	1.03	4.97	11.54	4.68	21.20	11.43
R-Square	0.52	0.37	0.55	0.21	0.25	0.70	0.29	0.38	0.35	0.40	0.33	0.34	0.40	0.41
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Shaded values are not significantly different from highest value according to LSD(0.05).

[†] QS1 & QS2 = 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