

Table 5. Least square means for lint yield, yield components, and fiber quality traits in the 2012 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 <sup>†</sup>	QS2 <sup>†</sup>
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%		
NM11Q1008	1509	41.42	5.69	4.95	36.19	7.95	4.89	1.11	82.23	29.13	5.63	8.43	40.25	56.00
AU90915	1469	42.44	8.07	6.08	32.03	10.75	5.26	1.16	84.00	31.18	6.80	6.93	53.75	67.00
GA 2009100	1455	44.33	7.34	5.64	34.10	9.10	4.64	1.17	83.93	32.03	5.23	7.23	66.50	71.00
AU91411	1443	39.48	7.73	6.20	31.66	11.60	5.01	1.21	84.48	33.70	5.68	6.78	73.50	75.25
Ark 0409-17	1388	43.55	7.88	5.90	32.64	10.05	5.31	1.11	83.33	28.80	6.23	7.00	34.00	49.25
MD 10-5	1356	43.65	7.03	6.07	37.79	8.95	4.99	1.12	82.95	31.33	5.75	7.18	43.50	60.00
AU90810	1341	40.58	6.94	5.96	34.87	10.10	4.76	1.20	84.00	31.53	5.60	7.43	74.25	72.75
Ark 0409-16	1320	41.99	8.04	6.24	32.57	10.90	5.20	1.09	82.78	29.00	5.73	7.48	32.00	56.00
LA08310066	1317	40.74	6.89	5.54	32.79	9.85	4.95	1.14	83.03	32.50	5.98	7.68	49.75	61.75
AU91215	1317	41.16	6.94	5.71	33.88	9.80	4.99	1.16	83.70	29.35	6.10	7.20	59.50	67.25
MD 87	1280	40.27	7.86	6.38	32.71	11.60	5.04	1.17	84.50	35.95	4.93	6.90	63.75	79.50
DP 393	1270	42.13	7.63	5.77	31.93	10.30	5.00	1.16	83.58	31.85	6.95	7.10	57.25	66.25
PD05071	1258	38.83	7.19	6.31	34.08	11.30	4.81	1.16	84.25	31.65	5.15	6.90	62.25	71.75
GA 2008083	1251	43.06	7.80	5.69	31.41	10.25	5.31	1.19	84.28	31.73	5.50	6.98	62.00	69.75
SG 105	1247	41.09	7.48	5.72	31.50	10.60	4.71	1.16	83.25	32.05	4.40	7.60	60.50	65.50
Arkot 0407-4	1245	41.96	7.92	6.53	34.61	10.75	5.07	1.11	83.83	30.60	4.95	7.33	43.25	64.75
GA 2004143	1234	45.53	7.26	5.05	31.72	8.55	4.90	1.17	83.03	31.93	4.98	7.45	59.50	63.75
Tamcot 73	1223	39.78	6.44	5.48	33.87	9.60	4.52	1.18	83.90	33.50	5.85	7.05	71.00	72.00
GA 2008057	1216	40.56	6.60	5.32	32.79	9.60	4.86	1.18	84.30	33.68	6.10	6.75	68.00	75.25
PD05064	1204	41.93	6.98	6.06	36.46	9.50	4.90	1.22	84.23	33.73	5.35	6.98	79.50	74.75
PD06001	1201	39.49	7.15	6.02	33.39	10.80	4.87	1.17	82.85	31.48	4.73	7.68	59.50	63.00
PD05074	1190	41.90	7.08	5.56	32.88	9.70	5.11	1.14	82.78	32.68	5.40	7.60	47.75	59.50
FM 958	1188	40.94	7.66	5.52	29.53	10.95	5.31	1.14	83.90	30.18	6.13	7.18	46.25	64.75
MD 26ne	1177	40.79	7.12	6.10	34.94	10.25	4.72	1.24	85.25	34.05	5.45	6.88	88.00	82.75
AU91111	1170	41.69	7.10	5.92	34.74	9.70	4.93	1.19	83.08	30.43	5.58	7.60	64.75	65.00
Ark 0403-3	1160	40.22	6.15	5.24	34.28	9.10	5.14	1.15	84.50	32.70	5.53	6.85	56.00	70.50
NC11AZ01	1132	42.02	7.15	5.69	33.43	9.60	4.71	1.17	83.58	33.98	4.43	7.55	65.75	71.25
PD06078	1120	40.95	7.26	5.74	32.55	10.25	5.11	1.19	84.50	32.25	5.68	6.60	66.00	72.75
TAM 06WE-62-1	1040	38.83	7.91	7.01	34.41	12.40	4.81	1.19	85.63	37.98	5.65	6.63	78.25	91.75
Acala 1517-08	1018	39.22	7.23	5.94	32.29	11.20	4.85	1.20	83.58	36.65	5.28	7.20	74.00	78.75
Arkot 0410-32	1006	40.12	7.12	5.76	32.56	10.60	5.39	1.15	85.05	31.78	5.93	6.80	52.00	71.75
NM11Q1157	967	38.25	6.45	5.49	32.63	10.35	4.62	1.15	82.18	33.08	6.30	7.08	57.00	61.25
Barbren 713	926	36.74	6.43	6.04	34.52	10.90	4.70	1.08	81.68	30.05	5.15	7.95	35.50	52.50
<b>Mean</b>	1231	41.08	7.20	5.84	33.39	10.21	4.95	1.16	83.70	32.19	5.58	7.21	58.93	68.03
<b>LSD (.05)</b>	218	1.21	0.57	0.37	2.09	0.68	0.32	0.03	0.89	1.41	0.35	0.38	13.52	8.46
<b>CV(%)</b>	12.59	2.10	5.60	4.56	4.45	4.73	4.54	1.90	0.76	3.11	4.48	3.79	16.34	8.86
<b>R-Square</b>	0.57	0.86	0.74	0.77	0.66	0.84	0.58	0.79	0.72	0.86	0.89	0.75	0.73	0.74
<b>Reps</b>	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).

<sup>†</sup> 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 as follows: QS1 - fiber length (0.5), mic (0.25), UI (0.1), and strength (0.15) ; QS2 - fiber length (0.1), mic (0.1), UI (0.3), and strength (0.5)