

Table 5. Least square means for lint yield, yield components, and fiber quality traits in the 2011 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	%	%		
AU3095	548	44.44	7.69	5.40	31.21	9.43	5.30	1.06	81.28	27.75	5.05	7.80	52.50	51.25
AU3111	674	45.49	7.96	5.25	30.01	9.50	5.27	1.04	80.95	28.68	4.80	8.25	49.00	57.00
AU3202	441	43.32	7.69	4.87	27.44	9.85	5.38	1.04	82.23	28.03	4.48	7.90	49.50	60.50
AU3223	487	45.41	7.53	5.13	30.95	8.95	5.27	1.04	81.33	28.60	5.40	8.10	48.75	57.75
Acala 1517-08	320	39.20	6.87	5.13	29.29	10.48	4.71	1.12	82.53	35.58	5.03	7.28	85.25	85.00
Ark 0304-23	421	42.74	7.71	5.71	31.68	10.20	5.12	1.04	81.73	28.35	4.40	8.00	52.25	63.00
Ark 0305-07	474	43.01	7.62	5.49	31.01	9.90	5.25	1.08	81.80	30.13	4.38	7.45	61.50	67.25
Ark 0309-31	422	41.19	7.19	5.78	33.09	10.03	4.80	1.08	81.28	32.53	4.28	8.00	68.25	69.50
Ark 0316-36	574	43.19	7.27	5.43	32.21	9.35	5.35	1.01	81.08	29.05	6.00	8.03	38.00	48.75
Ark M222-07	428	42.27	7.38	5.26	30.15	9.95	5.30	1.03	81.55	27.38	4.28	7.80	43.50	47.75
DP 393	537	42.85	7.50	5.53	31.65	9.75	5.19	1.03	81.85	31.50	6.38	7.55	50.00	65.25
FM 958	414	41.12	7.32	5.59	31.42	10.23	4.82	1.02	81.65	29.05	3.53	8.18	52.25	66.00
GA 2004143	383	44.24	7.10	4.84	30.20	8.73	4.93	1.05	81.18	29.73	3.65	8.40	55.00	58.00
LA06307025	592	43.85	7.50	5.13	29.97	9.40	5.52	1.03	81.53	30.78	5.63	7.55	43.75	61.50
LA07307106	561	42.83	7.85	5.86	32.00	10.23	5.34	1.05	81.45	29.38	5.80	7.78	51.75	62.00
MD 25-26ne	501	41.53	7.08	5.81	34.02	9.78	4.97	1.11	83.78	32.83	5.08	6.88	82.50	85.75
MD 25-27Y	573	42.08	7.42	6.06	34.39	9.95	4.83	1.04	82.25	30.05	4.15	7.73	59.00	70.50
MD 25-87Y	628	40.58	7.69	5.94	31.35	11.08	4.88	1.06	82.20	33.38	4.28	7.43	64.75	72.50
NC08AZ21	390	39.01	5.98	4.77	31.10	9.20	5.13	1.02	82.13	26.75	4.70	8.03	42.75	40.25
NM08N1084	389	41.18	6.87	4.83	28.96	9.53	4.76	1.04	81.55	32.23	4.78	7.55	58.00	67.00
NM08N1562	551	40.83	6.50	5.07	31.83	9.20	5.00	1.07	81.88	30.35	5.28	7.88	65.00	69.25
NM08N1564	652	40.00	6.49	4.65	28.69	9.60	4.95	1.08	82.15	31.38	5.38	7.83	69.50	71.75
PD 05069	532	42.52	7.77	5.69	31.08	10.35	5.37	1.06	81.13	33.05	4.83	7.88	52.50	63.75
PD 05070	552	41.03	7.05	5.43	31.63	9.93	5.29	1.06	82.10	32.11	4.48	7.60	58.00	68.00
PD 06001	427	39.22	6.67	5.25	30.88	10.18	4.98	1.06	80.83	28.58	4.08	8.08	58.50	62.50
SG 105	487	42.10	7.50	5.32	29.87	10.08	5.59	1.03	82.23	29.18	5.40	7.28	45.25	65.25
Tamcot 73	525	40.63	6.80	5.53	33.15	9.68	4.99	1.08	81.95	33.30	4.85	7.45	67.50	70.25
<b>Mean</b>	499	42.07	7.26	5.36	31.08	9.80	5.12	1.05	81.76	30.36	4.83	7.76	56.46	63.97
<b>LSD (.05)</b>	135	1.09	0.44	0.49	2.67	0.57	0.21	0.04	0.99	1.97	0.33	0.69	14.04	15.51
<b>CV(%)</b>	19.22	1.84	4.27	6.47	6.10	4.11	2.93	2.48	0.86	4.60	4.98	6.28	17.66	17.22
<b>R-Square</b>	0.60	0.88	0.77	0.65	0.51	0.68	0.79	0.58	0.50	0.77	0.92	0.41	0.64	0.53
<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)