

Table 3. Least square means for lint yield, lint percentage, and fiber quality traits in the 2011 RBTN trial conducted at Alexandria, LA. (Cooperator: Brooks Blanche)

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	1559	38.43	7.52	5.32	27.14	11.60	4.85	1.18	84.18	32.38	4.03	7.28	62.25	68.75
AU3111	1807	39.29	6.99	5.32	29.99	10.60	5.16	1.15	82.83	31.45	3.73	7.45	45.25	55.75
AU3202	2024	38.72	7.19	5.32	28.63	11.20	5.13	1.16	84.43	31.95	3.58	6.98	52.50	66.00
AU3223	1790	38.57	6.43	5.79	34.69	10.00	5.07	1.15	83.70	32.08	4.73	7.13	48.75	61.25
Acala 1517-08	1655	36.51	6.83	5.45	29.30	11.70	4.82	1.20	83.80	37.88	4.10	6.83	69.75	74.50
Ark 0304-23	1608	37.28	6.78	5.99	33.29	11.60	4.78	1.17	84.55	32.05	3.83	7.28	62.00	70.25
Ark 0305-07	1488	38.98	7.88	5.61	27.77	12.20	4.78	1.21	84.15	32.25	3.65	7.05	73.00	70.00
Ark 0309-31	1481	36.15	7.25	6.72	33.77	12.50	4.51	1.22	84.93	35.60	3.80	6.80	80.50	80.00
Ark 0316-36	1827	38.40	6.09	5.46	34.46	9.60	4.72	1.15	84.23	31.08	5.10	6.88	57.75	68.25
Ark M222-07	1196	35.96	6.46	5.31	29.59	11.20	5.13	1.16	84.65	31.40	3.83	6.98	53.00	67.25
DP 393	1546	36.53	6.49	5.20	29.76	10.90	4.81	1.18	84.53	35.23	5.03	6.90	64.00	74.00
FM 958	1440	36.89	7.13	5.69	29.71	12.30	4.92	1.16	84.75	33.95	3.58	6.98	58.50	70.25
GA 2004143	1610	39.68	7.26	5.32	29.09	10.90	5.00	1.18	84.63	34.23	3.23	6.90	62.50	71.25
LA06307025	1704	38.70	6.97	5.48	30.49	10.50	5.06	1.17	83.93	32.23	4.53	6.70	54.00	63.50
LA07307106	917	38.21	6.66	5.19	29.90	10.70	5.28	1.14	84.78	33.63	4.95	6.28	45.75	67.75
MD 25-26ne	1864	35.09	5.98	5.70	33.38	10.80	4.46	1.23	85.65	35.35	4.30	6.70	87.25	86.25
MD 25-27Y	1925	37.40	6.57	5.96	33.91	10.90	4.43	1.18	85.75	37.65	3.68	6.43	75.00	87.00
MD 25-87Y	1857	34.92	6.86	6.42	32.94	12.40	4.73	1.19	85.23	38.50	3.70	6.63	72.50	84.00
NC08AZ21	1453	35.95	5.89	5.34	32.67	10.20	5.32	1.13	83.53	30.83	4.05	6.95	38.00	57.50
NM08N1084	1629	36.63	5.97	5.24	32.43	10.10	4.87	1.15	84.03	35.18	4.40	7.18	52.75	69.00
NM08N1562	1871	35.84	6.18	4.97	30.36	11.10	5.03	1.15	83.35	30.10	4.28	7.35	47.25	59.50
NM08N1564	1925	36.98	6.07	5.11	31.95	10.70	5.06	1.13	83.55	33.08	4.55	7.33	43.75	60.25
PD 05069	1438	38.76	7.57	6.10	31.29	11.80	5.26	1.19	84.30	35.73	3.90	6.93	60.25	70.50
PD 05070	1763	39.08	6.91	5.39	31.06	10.90	5.06	1.16	83.38	33.63	3.53	7.18	51.00	61.25
PD 06001	1372	33.11	5.83	5.62	31.99	11.30	4.67	1.20	84.38	33.33	3.55	7.08	72.00	72.00
SG 105	1422	35.79	5.92	5.58	33.83	10.70	5.25	1.15	84.73	30.65	4.53	6.63	47.25	66.00
Tamcot 73	1693	37.07	6.86	5.68	30.97	11.30	4.99	1.19	84.98	37.13	4.40	6.80	66.50	78.75
<b>Mean</b>	1625	37.22	6.69	5.57	31.27	11.10	4.93	1.17	84.33	33.65	4.09	6.95	59.37	69.66
<b>LSD (.05)</b>	299	2.28	1.11	0.67	5.27	1.53	0.30	0.04	1.24	2.58	0.54	0.50	16.00	10.80
<b>CV(%)</b>	12.98	4.35	11.78	8.56	11.97	9.81	4.28	2.42	1.05	5.45	9.37	5.16	19.15	11.02
<b>R-Square</b>	0.65	0.59	0.42	0.51	0.31	0.59	0.66	0.55	0.46	0.69	0.70	0.47	0.62	0.61
<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)