

Table 6. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Jackson, TN. (Cooperator: Chris Main)

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	1518	44.99	7.55	4.77	28.36	9.48	4.89	1.17	84.65	28.93	5.18	6.75	55.75	62.50
AU3111	1515	44.85	7.30	4.86	29.92	9.23	4.94	1.17	83.48	30.78	4.70	6.98	49.50	57.25
AU3202	1302	42.32	7.61	4.68	26.12	10.70	5.26	1.17	85.05	30.88	4.60	6.65	49.75	64.75
AU3223	1387	44.40	7.47	4.68	27.80	9.55	4.76	1.15	84.88	30.05	5.90	6.85	54.00	66.75
Acala 1517-08	1050	38.76	6.31	4.90	30.13	10.20	4.49	1.25	85.15	37.03	4.75	6.63	87.00	84.50
Ark 0304-23	1405	42.66	7.16	5.13	30.57	9.60	4.45	1.21	85.40	32.95	4.90	6.33	71.50	75.25
Ark 0305-07	1558	44.87	7.68	4.90	28.73	9.60	4.54	1.22	84.95	32.20	4.08	6.95	76.75	72.25
Ark 0309-31	1258	41.26	7.20	5.54	31.71	10.48	4.34	1.22	85.08	35.65	4.25	6.83	78.25	78.25
Ark 0316-36	1316	44.44	7.18	4.72	29.28	9.13	4.94	1.13	84.18	30.63	5.85	7.00	42.00	59.75
Ark M222-07	1371	42.55	7.83	4.99	27.21	10.73	5.31	1.15	84.03	30.88	4.65	7.08	39.50	56.75
DP 393	1524	43.01	7.40	4.86	28.28	9.98	5.20	1.15	85.10	33.28	6.23	6.55	44.75	65.00
FM 958	1247	42.08	7.42	5.45	30.93	10.28	4.76	1.18	84.90	34.70	3.73	6.78	61.50	71.75
GA 2004143	930	43.95	7.38	4.68	28.03	9.70	4.59	1.21	85.33	33.93	4.25	6.68	73.00	76.00
LA06307025	1639	45.53	7.04	4.31	27.90	8.70	4.76	1.17	84.65	32.30	5.53	6.70	57.00	66.25
LA07307106	1550	44.19	7.58	5.31	30.98	9.60	4.77	1.20	85.10	31.18	6.43	6.68	67.50	70.75
MD 25-26ne	1197	41.25	6.69	4.95	30.55	9.78	4.39	1.24	86.30	34.53	5.25	6.53	85.75	83.75
MD 25-27Y	1431	42.99	6.60	5.04	32.87	9.03	4.43	1.15	85.23	33.35	4.65	6.70	57.50	70.75
MD 25-87Y	1333	40.82	7.08	5.40	31.12	10.45	4.61	1.18	85.93	37.45	4.60	6.33	69.50	84.75
NC08AZ21	1337	42.04	6.64	4.36	27.59	9.28	4.87	1.14	83.85	30.38	5.45	6.95	45.75	59.00
NM08N1084	1330	42.77	6.42	4.49	29.93	8.80	4.68	1.16	84.30	34.50	5.23	6.68	56.25	66.50
NM08N1562	1365	40.89	6.25	4.45	29.16	9.23	4.56	1.18	84.98	31.68	5.35	6.83	65.25	70.00
NM08N1564	1196	39.53	6.08	4.63	30.09	9.50	4.71	1.18	84.63	33.08	4.93	6.90	62.50	69.00
PD 05069	1241	41.27	7.10	5.27	30.63	10.23	4.75	1.21	85.20	34.55	4.80	6.55	71.50	74.00
PD 05070	1386	42.69	7.14	5.27	31.54	9.68	4.81	1.16	85.05	33.30	4.53	6.48	56.75	68.75
PD 06001	1422	39.61	6.43	5.08	31.34	9.85	4.52	1.21	84.85	33.13	4.33	6.73	71.25	70.75
SG 105	1527	41.92	7.17	4.90	28.66	10.23	5.00	1.15	84.88	31.70	5.65	6.53	47.00	64.25
Tamcot 73	1399	41.06	6.42	4.72	30.35	9.45	4.69	1.17	85.38	33.90	5.22	6.75	60.25	71.50
<b>Mean</b>	1360	42.47	7.04	4.90	29.62	9.72	4.74	1.18	84.91	32.85	5.00	6.72	61.37	69.66
<b>LSD (.05)</b>	175	1.64	0.55	0.36	2.41	0.54	3.95	0.03	0.92	1.67	0.56	0.39	12.45	8.67
<b>CV(%)</b>	9.16	2.74	5.54	5.28	5.78	3.96	3.98	0.70	0.77	3.61	7.93	4.10	14.41	8.86
<b>R-Square</b>	0.69	0.76	0.68	0.71	0.59	0.74	0.72	1.95	0.53	0.80	0.79	0.45	0.75	0.68
<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)