Table 1. Least square means for lint yield, yield components, and fiber quality traits over 13 locations in the 2011 RBTN .

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	%	%		
LA06307025	1400	43.68	7.31	4.76	28.42	9.32	5.08	1.15	83.71	32.43	5.35	6.93	52.15	64.90
AU3111	1388	43.90	7.48	5.02	29.52	9.46	5.04	1.14	82.99	30.50	4.85	7.43	48.42	58.81
MD 25-27Y	1371	40.89	7.18	5.42	30.98	10.29	4.57	1.15	84.57	33.08	4.46	6.86	63.87	74.37
DP 393	1340	41.30	7.08	5.00	29.26	9.94	4.99	1.13	83.90	32.87	6.24	6.88	49.42	66.60
AU3202	1335	41.59	7.52	4.76	26.38	10.47	5.18	1.15	83.83	30.64	4.57	7.13	51.44	61.55
Ark 0316-36	1333	42.52	7.11	4.99	29.94	9.51	4.90	1.13	83.61	31.08	5.77	7.09	51.46	63.71
NM08N1562	1315	39.37	6.42	4.55	28.20	9.79	4.68	1.17	83.75	31.55	5.37	7.22	62.38	67.83
AU3223	1313	43.60	7.28	4.86	29.16	9.29	5.02	1.13	83.43	29.95	5.82	7.31	48.33	59.33
MD 25-87Y	1304	39.11	7.48	5.62	29.49	11.53	4.66	1.18	84.93	37.04	4.44	6.67	73.23	83.92
AU3095	1298	43.19	7.58	4.99	28.49	9.86	5.00	1.16	83.46	29.72	5.09	7.31	55.12	60.73
MD 25-26ne	1293	39.58	6.96	5.45	31.05	10.52	4.59	1.23	85.45	34.63	5.12	6.59	87.38	85.37
SG 105	1279	40.27	7.15	4.99	28.31	10.48	5.17	1.13	84.11	31.24	5.43	6.83	48.23	65.88
NM08N1564	1276	38.86	6.37	4.75	29.29	9.92	4.82	1.16	83.71	32.48	5.30	7.23	59.54	67.63
NM08N1084	1269	40.57	6.66	4.65	28.47	9.65	4.65	1.14	83.65	34.20	5.10	7.06	55.98	68.67
Ark 0305-07	1267	42.43	7.48	5.03	28.54	10.04	4.78	1.18	83.59	31.69	4.33	7.19	66.08	67.46
Tamcot 73	1264	39.42	6.87	5.08	29.24	10.44	4.87	1.17	84.27	34.98	5.15	6.85	64.98	74.35
Ark 0304-23	1249	40.86	7.30	5.38	30.17	10.48	4.78	1.15	83.97	31.28	4.64	7.10	58.54	65.85
LA07307106	1231	42.02	7.76	5.44	29.52	10.54	4.95	1.17	84.13	31.77	6.05	6.97	62.21	69.60
PD 05070	1205	41.09	6.99	5.05	29.83	9.93	4.95	1.14	83.34	32.85	4.46	7.22	53.35	64.17
PD 06001	1194	38.10	6.61	5.12	29.40	10.60	4.78	1.17	83.45	32.13	4.46	7.25	63.73	66.90
FM 958	1167	40.23	7.71	5.35	28.24	11.23	4.83	1.15	83.96	33.75	3.90	7.15	59.21	70.15
NC08AZ21	1144	38.35	6.15	4.54	28.41	9.74	5.00	1.13	83.14	29.82	5.31	7.47	45.65	55.19
Ark M222-07	1134	40.21	7.31	5.01	27.59	10.76	5.13	1.14	83.77	31.06	4.71	7.13	49.19	62.40
PD 05069	1120	40.99	7.40	5.36	29.81	10.57	4.96	1.18	83.96	35.31	4.79	6.94	65.85	73.46
Acala 1517-08	1119	38.21	6.86	5.08	28.47	10.97	4.73	1.21	84.24	36.62	4.90	6.80	77.67	80.65
Ark 0309-31	1112	39.80	7.34	5.75	31.25	11.00	4.60	1.19	84.09	33.97	4.49	7.11	72.96	74.38
GA 2004143	1074	43.62	7.36	4.70	27.92	9.41	4.85	1.17	83.75	32.69	3.96	7.24	63.25	68.08
Mean	1252	40.88	7.14	5.06	29.09	10.21	4.87	1.16	83.88	32.57	4.96	7.07	59.62	68.22
LSD (.05)	72	0.43	0.19	0.14	0.92	0.24	0.08	0.01	0.31	0.54	0.15	0.15	4.03	3.39
CV(%)	14.73	2.67	6.86	7.28	8.17	5.98	4.26	2.33	0.97	4.31	7.80	5.58	17.55	12.90
R-Square	0.88	0.89	0.71	0.79	0.72	0.74	0.80	0.82	0.72	0.83	0.89	0.66	0.66	0.60
Reps	52	50	50	52	52	50	52	52	52	52	52	52	52	52

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

[†] Yield and yield components for LA07307106 not included for MissStateUSDA; Yield for GA2004143 not included for WestSideCA.

[‡] 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)