

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Tifton, GA. (Cooperator: Peng Chee)

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	%	%		
AU3095	1540	45.85	8.16	5.16	29.12	9.59	5.05	1.15	84.10	29.20	5.10	6.98	54.25	64.50
AU3111	1557	46.40	7.75	5.31	31.84	8.97	5.04	1.14	84.18	30.75	4.88	7.05	52.00	64.25
AU3202	1697	44.59	7.95	5.03	28.27	9.86	5.17	1.14	84.08	30.58	4.33	6.85	51.25	63.50
AU3223	1263	44.71	7.22	5.36	33.30	8.89	4.89	1.14	83.60	30.05	5.70	6.85	54.50	62.50
Acala 1517-08	1299	40.39	7.05	5.37	30.75	10.37	4.80	1.17	84.23	37.05	4.83	6.63	69.00	77.50
Ark 0304-23	1420	42.64	7.34	5.84	33.91	9.81	4.78	1.17	84.73	32.85	4.73	6.80	67.50	71.50
Ark 0305-07	1351	44.33	7.52	5.52	32.56	9.34	4.86	1.19	83.78	32.18	4.03	6.85	69.75	66.50
Ark 0309-31	1283	42.26	7.83	6.26	33.85	10.68	4.56	1.20	85.23	33.90	4.25	6.75	81.75	79.00
Ark 0316-36	1399	44.43	7.40	5.01	30.09	9.19	4.95	1.12	84.33	31.20	5.85	6.53	49.75	65.00
Ark M222-07	1304	42.36	7.25	5.54	32.39	9.88	5.06	1.15	84.10	31.10	4.53	6.95	54.25	64.50
DP 393	1595	43.33	7.48	5.21	30.17	9.75	5.08	1.12	84.13	32.78	6.25	6.88	47.50	63.00
FM 958	1284	41.67	7.83	6.02	32.17	10.93	4.78	1.14	84.50	34.93	3.78	6.95	59.00	71.50
GA 2004143	1326	45.43	7.20	4.71	29.80	8.56	4.85	1.16	84.35	34.40	3.80	6.83	61.50	69.50
LA06307025	1518	46.35	7.57	4.84	29.62	8.66	5.25	1.14	84.20	31.70	5.25	6.50	48.25	63.00
LA07307106	1622	43.97	7.85	5.88	32.93	9.92	4.97	1.19	84.85	31.33	6.15	6.78	70.25	72.00
MD 25-26ne	1362	42.17	7.34	5.40	31.03	10.07	4.68	1.22	86.28	34.00	4.98	6.38	87.00	85.75
MD 25-27Y	1453	43.08	7.47	5.64	32.59	9.86	4.68	1.15	85.55	34.43	4.53	6.43	66.25	78.50
MD 25-87Y	1519	42.39	7.93	5.64	30.29	10.72	4.87	1.14	85.23	38.53	4.43	6.43	61.50	82.25
NC08AZ21	1354	41.02	6.88	4.64	27.66	9.85	5.19	1.11	83.48	28.78	5.05	7.25	36.50	47.25
NM08N1084	1337	42.73	6.63	4.73	30.69	8.79	4.75	1.12	83.40	32.78	4.83	6.85	51.25	61.25
NM08N1562	1388	41.55	6.47	4.94	31.80	9.03	4.87	1.16	85.33	31.73	5.05	6.68	66.25	74.00
NM08N1564	1407	41.28	6.36	5.01	32.65	9.02	5.13	1.15	84.25	33.83	5.03	6.85	55.25	67.50
PD 05069	1368	41.90	7.30	5.61	32.35	10.08	5.05	1.19	84.28	36.73	4.50	6.65	68.50	76.00
PD 05070	1471	43.57	7.29	5.41	32.38	9.39	5.04	1.13	83.50	32.75	4.30	6.98	47.75	59.75
PD 06001	1327	40.63	7.01	5.69	30.51	10.01	4.76	1.17	84.03	33.15	4.18	6.98	67.25	68.00
SG 105	1597	43.11	7.82	5.31	29.50	10.26	5.27	1.11	84.80	31.93	5.25	6.50	42.50	65.00
Tamcot 73	1521	41.05	7.18	5.42	31.20	10.26	4.89	1.16	84.40	34.95	5.13	6.75	64.00	71.50
Mean	1428	43.08	7.37	5.35	31.24	9.69	4.93	1.15	84.40	32.87	4.84	6.77	59.43	68.69
LSD (.05)	262	1.27	0.61	0.52	3.81	0.82	0.22	0.04	0.92	1.74	0.40	0.43	13.73	9.83
CV(%)	12.53	2.08	5.86	6.93	8.60	5.97	3.10	2.25	0.78	3.76	5.94	4.48	16.41	10.17
R-Square	0.50	0.84	0.60	0.63	0.34	0.64	0.69	0.66	0.63	0.83	0.87	0.42	0.71	0.69
Reps	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).

[†] 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)