

Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at College Station, TX. (Cooperator: Richard Percy)

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	1478	43.78	7.23	4.77	28.93	9.15	5.14	1.15	83.05	29.23	4.58	7.43	53.75	53.00
AU3111	1659	44.58	7.48	4.78	28.64	9.15	5.38	1.13	82.65	28.90	4.08	7.45	45.25	57.75
AU3202	1524	41.47	7.57	4.66	25.43	10.59	5.38	1.15	84.25	29.63	3.78	7.10	53.25	58.75
AU3223	1189	44.51	7.31	4.38	26.71	8.89	5.09	1.11	83.60	28.58	5.03	7.30	46.00	54.75
Acala 1517-08	1119	37.16	6.54	4.92	28.05	10.87	4.87	1.19	83.78	35.15	4.13	7.10	74.00	77.75
Ark 0304-23	1137	41.61	7.35	4.91	27.77	10.21	4.92	1.11	83.20	29.35	3.85	7.60	46.25	53.00
Ark 0305-07	1255	42.78	7.35	4.71	27.49	9.66	4.98	1.15	83.03	30.93	3.58	7.38	57.25	63.75
Ark 0309-31	1095	39.70	7.25	5.69	31.31	10.86	4.91	1.17	83.23	32.73	3.60	7.38	66.25	66.50
Ark 0316-36	1631	43.79	7.18	5.02	30.59	9.11	5.23	1.13	84.03	30.60	5.35	6.95	51.50	67.00
Ark M222-07	1015	39.77	7.39	4.72	25.42	11.02	5.42	1.14	83.78	30.35	3.68	7.20	51.00	65.00
DP 393	1196	41.51	7.15	4.95	28.81	9.94	5.12	1.11	83.00	31.20	5.30	7.40	45.00	60.75
FM 958	1128	40.28	8.11	5.11	25.41	11.83	5.11	1.15	83.93	33.30	2.95	7.15	57.25	69.50
GA 2004143	1333	44.32	7.87	4.56	25.72	9.55	5.06	1.20	83.60	32.70	3.00	7.28	72.75	69.50
LA06307025	1346	42.54	6.79	4.53	28.27	9.00	5.36	1.13	83.88	31.95	4.23	7.00	47.50	65.25
LA07307106	1327	42.36	8.07	5.52	29.00	10.86	5.26	1.17	83.95	31.30	4.98	7.05	60.50	68.50
MD 25-26ne	1280	39.99	7.16	5.45	30.44	10.63	4.81	1.21	85.45	34.15	4.45	6.85	83.75	85.25
MD 25-27Y	1308	41.37	7.21	5.18	29.80	10.14	4.74	1.12	84.18	31.33	3.75	7.08	58.00	70.75
MD 25-87Y	1116	39.56	7.59	5.38	28.08	11.44	4.95	1.16	84.18	35.55	3.53	7.00	65.75	78.00
NC08AZ21	1245	37.45	5.70	4.34	28.51	9.46	5.16	1.13	82.78	29.03	4.10	7.78	44.75	44.00
NM08N1084	1341	39.57	6.53	4.66	28.22	9.87	4.65	1.13	84.03	33.75	4.08	7.10	60.50	73.00
NM08N1562	1505	40.91	6.77	4.50	27.33	9.62	5.04	1.14	83.10	30.50	4.73	7.60	54.50	63.00
NM08N1564	1670	38.39	5.97	4.59	29.58	9.45	5.10	1.17	83.40	31.60	4.35	7.40	61.75	66.25
PD 05069	1113	40.30	7.82	5.40	27.87	11.47	5.16	1.20	84.10	36.38	4.08	6.88	74.00	80.25
PD 05070	1028	40.20	7.08	5.15	29.25	10.34	5.07	1.14	83.40	32.65	3.60	7.43	54.75	65.50
PD 06001	1170	37.85	6.23	4.76	28.94	10.09	4.98	1.15	83.13	30.53	3.58	7.25	57.50	64.25
SG 105	1174	40.81	7.21	4.96	28.08	10.30	5.55	1.09	83.68	29.38	4.50	6.90	34.25	61.00
Tamcot 73	1200	39.73	7.11	4.85	27.17	10.68	5.17	1.16	84.45	33.38	4.13	6.93	61.50	72.25
Mean	1281	40.97	7.15	4.91	28.18	10.15	5.10	1.15	83.66	31.63	4.11	7.22	56.98	65.71
LSD (.05)	415	1.60	0.70	0.50	2.49	0.87	0.21	0.03	1.11	1.95	0.42	0.58	13.19	16.28
CV(%)	20.76	2.78	7.00	7.30	6.28	6.11	2.96	2.08	0.95	4.38	7.28	5.69	16.14	17.60
R-Square	0.51	0.83	0.66	0.60	0.57	0.71	0.77	0.74	0.49	0.78	0.86	0.42	0.71	0.53
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)