

Table 3. Least square means for lint yield, lint percentage, and fiber quality traits in the 2013 RBTN trial conducted at Alexandria, LA. (Cooperator: Gerald Myers)

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	%	%		
MD 10-6	1711	43.37	6.99	5.60	34.70	9.00	4.90	1.15	83.43	34.50	6.25	6.43	48.00	63.75
Ark 0502-37	1702	42.59	6.86	5.30	32.93	9.20	5.20	1.19	84.00	32.68	5.68	6.60	54.50	65.00
MD 10-5	1669	44.71	7.28	5.55	34.09	8.90	4.88	1.17	83.33	34.38	5.98	6.65	54.75	64.50
LA10307108	1628	41.57	6.84	5.27	32.04	9.50	4.83	1.19	84.48	31.55	5.83	7.08	63.00	70.50
AU10090	1626	43.50	7.08	5.47	33.57	9.10	4.83	1.22	84.00	32.23	5.10	7.10	70.00	69.25
GA 2010098	1622	43.77	7.20	5.55	33.76	9.20	4.63	1.17	83.48	32.33	5.28	7.25	59.50	65.25
NM1303	1620	39.80	6.34	5.08	31.85	9.50	5.03	1.18	83.93	29.98	7.08	6.98	55.00	65.00
LA09309116	1610	43.17	7.82	6.19	34.13	10.20	4.95	1.19	84.75	34.03	7.05	6.55	62.50	73.00
LA10307140	1589	41.66	7.32	6.00	34.16	10.10	4.75	1.21	85.08	34.38	6.58	6.23	71.50	78.00
SG 105 ck	1588	41.91	7.52	5.44	30.32	10.30	5.40	1.14	84.60	31.33	6.35	6.58	39.00	64.50
NM1302	1575	39.34	6.22	5.07	32.06	9.50	4.85	1.16	83.28	30.63	6.73	7.35	50.75	61.50
GA 2008016	1564	40.12	6.96	5.94	34.32	10.30	5.10	1.21	84.35	32.53	4.90	6.73	62.75	69.25
PD06078	1542	41.38	6.85	5.76	34.81	9.70	4.98	1.19	84.58	33.40	5.73	6.35	61.25	71.00
MD 25-26ne	1540	41.23	7.64	6.52	35.21	10.80	4.85	1.24	85.43	33.00	5.33	6.28	79.75	80.00
OA-33	1534	42.80	6.87	5.22	33.84	9.06	5.30	1.16	83.80	30.88	5.78	7.35	44.00	61.50
MD-DC	1521	40.58	6.96	5.84	34.03	10.10	5.23	1.16	83.80	31.88	6.00	6.85	46.25	62.50
DP 393 ck	1520	42.27	6.91	5.40	33.21	9.30	5.00	1.16	83.70	34.58	6.83	6.68	49.75	64.75
AU68036	1506	42.37	7.22	5.37	31.52	9.70	4.93	1.18	83.88	32.68	5.48	6.73	55.75	65.50
GA 2009037	1493	41.68	7.22	5.75	33.28	10.00	5.08	1.16	84.15	31.65	6.15	6.68	49.50	65.00
AU51038	1491	43.12	6.65	5.67	36.76	8.70	4.63	1.20	84.48	32.20	5.58	6.83	68.00	72.75
PD05064	1480	42.83	6.98	5.27	32.32	9.20	4.95	1.20	83.38	33.95	5.35	7.08	61.00	64.75
Ark 0517-54	1474	43.00	8.13	6.29	33.28	10.70	4.90	1.16	84.63	32.50	6.60	6.58	53.25	69.25
Ark 0504-4	1457	43.03	7.56	5.61	31.99	9.90	5.20	1.19	84.50	32.23	5.88	6.28	55.75	68.00
LA10307021	1455	42.44	7.81	5.97	32.55	10.50	4.48	1.17	84.05	32.13	4.60	6.83	61.00	68.50
PD05069	1448	42.58	6.91	5.40	33.37	9.20	4.48	1.24	83.30	34.50	5.30	6.90	78.75	69.50
NM1301	1446	42.05	6.48	5.00	32.51	8.80	5.13	1.16	82.73	31.45	6.05	7.68	44.75	56.00
GA 2009100	1400	40.17	6.85	5.91	34.75	10.10	5.23	1.18	83.75	32.73	4.73	7.13	49.75	62.50
Ark 0506-47	1386	41.71	7.03	5.22	30.98	9.70	5.15	1.18	83.70	32.00	5.68	6.83	51.50	62.75
PX06520-42-2-1	1331	41.09	7.55	5.81	31.73	10.70	4.88	1.25	85.73	37.58	5.40	6.38	85.00	89.00
FM 958 ck	1273	41.92	7.92	5.97	31.62	10.90	5.20	1.15	83.98	31.88	4.58	6.63	44.50	62.50
AU55052	1269	40.11	6.56	5.50	33.69	9.70	4.73	1.16	83.38	31.58	6.15	7.23	54.50	63.50
PX06520-42-2-3	1259	39.69	7.71	6.00	30.90	11.60	5.00	1.26	85.95	38.68	6.05	6.18	84.50	89.75
PD07092	1241	38.78	6.64	5.60	32.69	10.40	4.45	1.21	84.95	36.45	5.28	6.38	76.25	83.00
Acala 1517-99	1048	39.24	6.98	5.35	30.06	10.70	4.50	1.21	84.43	34.40	5.68	6.65	73.75	75.00
Mean	1489	41.75	7.11	5.61	33.03	9.83	4.93	1.19	84.14	33.02	5.79	6.76	59.40	68.72
LSD (.05)	195	1.13	0.47	0.42	2.70	0.78	0.19	0.03	1.01	1.31	0.59	0.54	11.17	7.50
CV(%)	9.32	1.94	4.71	5.38	5.79	5.63	2.76	1.87	0.86	2.84	7.30	5.64	13.41	7.78
R-Square	0.63	0.82	0.73	0.68	0.48	0.69	0.82	0.73	0.58	0.88	0.80	0.56	0.77	0.75
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