

Table 14. Least square means for lint yield, yield components ¹, and fiber quality traits in the 2013 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	%	%		
Ark 0506-47	1543	40.82	7.51	5.20	30.93	10.50	5.24	1.15	83.75	32.68	4.55	7.25	48.00	62.00
PD05064	1372	42.84	7.72	5.55	33.76	10.20	5.15	1.20	84.05	34.23	4.53	6.90	64.75	69.25
LA10307021	1333	41.70	7.99	5.74	30.65	11.10	4.74	1.16	83.88	32.50	3.88	6.95	61.00	67.00
GA 2008016	1269	38.61	6.94	5.27	29.36	11.10	5.58	1.15	83.85	32.53	3.88	7.18	42.75	60.75
LA10307140	1268	42.47	7.95	5.76	31.20	10.70	5.10	1.16	84.75	33.88	5.13	7.00	58.50	71.25
AU10090	1265	41.74	7.15	5.47	31.94	10.00	4.77	1.22	85.23	32.20	4.48	6.85	80.00	78.00
AU55052	1262	39.10	6.82	5.08	29.63	10.60	4.89	1.17	84.08	32.08	4.68	6.90	61.75	67.50
GA 2009037	1245	42.46	7.23	5.13	30.28	9.80	5.25	1.13	83.13	31.25	4.45	7.93	42.25	57.75
PD06078	1244	41.49	7.32	5.13	29.41	10.40	5.15	1.19	83.83	33.40	4.75	6.85	61.25	65.75
Ark 0504-4	1243	40.94	6.94	4.43	26.36	9.90	4.90	1.16	84.25	33.08	4.63	7.20	58.00	69.25
MD-DC	1223	40.47	6.91	5.01	29.36	10.30	5.17	1.17	84.05	33.18	4.80	6.98	56.50	67.25
MD 25-26ne	1223	39.40	7.25	5.77	31.31	11.10	5.04	1.22	85.70	34.95	4.53	6.58	80.00	83.00
AU51038	1170	41.56	6.79	5.16	31.56	9.30	4.70	1.22	83.90	33.88	3.98	7.33	77.25	71.50
AU68036	1163	41.75	7.04	4.99	29.70	9.80	4.98	1.15	84.35	31.95	4.60	6.93	55.25	67.75
GA 2009100	1142	40.37	7.35	5.35	29.86	11.00	5.43	1.13	84.08	32.50	3.85	7.28	40.00	61.75
NM1301	1137	40.73	6.86	4.98	30.02	10.00	5.51	1.14	83.38	31.53	4.90	7.53	39.25	57.25
Ark 0517-54	1132	41.68	7.29	5.07	29.04	10.10	4.84	1.14	83.50	28.68	4.65	7.58	50.75	57.50
GA 2010098	1114	42.47	7.21	5.14	30.00	9.50	4.72	1.16	83.48	33.48	4.15	7.20	61.00	65.75
LA09309116	1061	40.29	7.45	5.57	29.90	11.00	4.89	1.19	85.08	34.25	5.03	6.85	71.50	76.75
MD 10-6	1049	44.20	7.51	5.00	29.50	9.60	4.75	1.11	83.18	33.53	4.98	7.20	44.50	61.75
SG 105 ck	1002	40.55	7.06	5.37	30.59	10.60	5.21	1.09	84.00	30.08	5.05	7.18	36.00	60.75
FM 958 ck	991	40.53	7.81	5.29	27.51	11.50	4.93	1.16	84.13	32.50	4.08	7.05	59.25	67.50
MD 10-5	979	42.56	6.88	5.53	34.40	9.30	5.01	1.15	83.50	33.40	4.70	7.38	53.00	62.50
DP 393 ck	975	41.08	7.77	5.02	26.62	11.30	5.34	1.14	84.83	31.58	5.68	6.73	46.25	67.25
PX06520-42-2-3	974	38.68	8.52	6.13	27.79	13.40	5.23	1.25	86.00	37.28	5.05	6.60	84.00	89.25
PX06520-42-2-1	964	40.37	7.99	5.84	29.24	12.00	5.24	1.23	85.53	36.98	5.00	6.75	76.00	85.00
PD05069	903	42.38	7.48	5.21	29.99	10.10	5.02	1.22	83.73	34.08	4.30	7.23	72.25	68.75
OA-33	897	41.14	7.75	5.26	27.88	11.10	5.49	1.16	84.40	31.88	4.53	7.20	49.50	65.25
PD07092	872	40.48	7.12	4.91	27.86	10.60	4.82	1.19	85.08	34.13	4.40	6.83	72.75	78.25
Ark 0502-37	822	43.79	7.07	4.24	26.29	8.50	5.36	1.10	83.53	30.03	4.95	7.43	33.50	57.50
NM1302	803	37.92	6.68	4.89	27.75	10.99	5.27	1.15	83.75	31.15	5.12	7.21	48.42	61.78
LA10307108	802	40.19	6.60	4.87	29.79	9.70	4.82	1.17	84.13	32.75	4.13	7.23	61.25	68.00
Acala 1517-99	796	38.14	6.74	4.87	27.67	11.10	4.54	1.19	83.70	33.95	4.45	7.10	69.75	70.00
NM1303	658	40.32	7.00	4.93	28.65	10.73	5.56	1.11	84.08	30.89	5.66	7.18	33.09	59.12
Mean	1085	40.98	7.29	5.21	29.58	10.50	5.08	1.16	84.17	32.83	4.63	7.10	57.33	67.64
LSD (.05)	-	-	-	-	-	-	0.27	0.05	1.16	1.69	0.55	0.52	16.32	10.55
CV(%)	-	-	-	-	-	-	3.81	2.79	0.97	3.63	8.40	5.17	19.97	10.98
R-Square	-	-	-	-	-	-	0.73	0.66	0.53	0.75	0.65	0.47	0.68	0.62
Reps	-	-	-	-	-	-	4	4	4	4	4	4	4	4

¹LSD values for lint yield and yield components not reported due to poor growing conditions and excessive variability (missing reps).

[†] 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