

Table 10. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Mississippi State, MS. (Cooperator: Jack McCarty)

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 10-5	1640	43.98	7.56	5.74	33.39	9.64	4.70	1.20	84.43	33.48	5.05	6.95	50.00	64.50
MD 25-26ne	1521	40.53	7.26	5.87	33.01	10.64	4.21	1.32	87.18	33.38	5.13	6.05	89.25	86.25
GA 2008016	1474	40.91	7.37	5.87	32.68	10.67	4.96	1.22	84.20	33.00	4.05	7.38	49.00	61.75
GA 2009037	1460	42.08	7.53	5.75	32.29	10.36	4.60	1.23	84.45	32.10	4.98	6.98	59.50	66.75
Ark 0517-54	1454	42.92	7.62	5.32	29.98	10.15	4.51	1.18	83.65	29.53	4.23	7.53	42.50	52.75
NM1303	1447	38.90	6.84	5.44	30.90	10.75	4.83	1.20	84.98	31.68	5.70	7.13	48.75	66.50
GA 2009100	1445	40.19	7.15	5.82	32.77	10.64	4.99	1.23	84.63	33.43	3.80	7.30	53.25	65.75
Ark 0502-37	1433	41.37	7.37	5.45	30.66	10.44	5.02	1.23	85.20	33.43	5.25	6.73	55.75	68.75
AU51038	1431	41.95	7.04	5.59	33.35	9.74	4.38	1.27	84.30	33.73	4.25	7.05	73.75	69.25
DP 393 ck	1429	42.35	7.80	5.46	29.72	10.61	4.93	1.22	84.93	32.63	5.85	6.73	52.00	66.75
Ark 0506-47	1376	40.52	7.49	5.52	29.91	10.99	4.84	1.25	84.38	33.95	4.38	7.20	60.75	67.25
MD-DC	1375	40.24	7.35	5.56	30.50	10.92	4.95	1.23	84.70	31.93	4.75	7.10	53.50	65.25
OA-33	1369	42.24	7.03	5.37	32.42	9.61	4.92	1.22	84.08	32.15	4.83	7.28	49.25	61.25
PD06078	1366	41.31	7.50	5.32	29.41	10.65	4.86	1.23	84.90	33.48	4.95	6.78	57.25	68.25
LA10307108	1362	40.96	6.66	5.33	32.86	9.59	4.37	1.22	84.05	31.58	4.83	7.58	57.00	64.00
LA09309116	1355	41.95	7.76	5.91	31.93	10.74	4.63	1.25	86.03	33.33	6.18	6.78	72.00	78.00
NM1302	1331	38.48	6.91	5.71	31.77	11.05	4.83	1.23	84.78	31.95	5.50	7.10	56.75	67.00
AU68036	1320	42.08	7.74	5.52	29.99	10.66	4.83	1.23	85.18	33.63	4.55	7.00	59.50	70.25
MD 10-6	1312	45.57	7.76	5.60	32.95	9.28	4.56	1.17	84.10	32.73	5.20	7.05	43.50	61.50
NM1301	1296	41.60	6.80	5.12	31.36	9.55	5.05	1.17	82.78	31.65	4.90	8.10	33.00	50.75
LA10307021	1279	43.75	8.79	5.84	29.09	11.30	4.41	1.25	85.73	34.58	3.85	6.60	70.75	77.50
AU55052	1275	39.48	7.26	5.30	28.84	11.13	4.66	1.24	84.23	32.65	4.73	7.18	60.50	65.50
SG 105 ck	1271	41.72	7.81	5.58	29.86	10.92	4.79	1.19	85.18	31.63	5.20	7.00	48.50	68.00
FM 958 ck	1252	40.69	7.85	5.74	29.76	11.45	4.65	1.20	84.05	32.20	3.93	7.63	50.00	62.25
AU10090	1244	42.15	7.41	5.34	30.47	10.16	4.53	1.27	84.80	32.55	4.13	6.88	73.50	71.50
LA10307140	1235	42.27	7.37	5.48	31.55	10.08	4.43	1.24	85.33	33.20	5.23	6.93	66.25	73.00
GA 2010098	1223	42.15	7.52	5.77	32.47	10.29	4.49	1.23	83.53	33.15	4.85	7.45	58.25	61.75
PD05069	1218	42.30	7.43	5.11	29.12	10.14	4.44	1.29	84.25	33.65	4.50	6.90	80.00	71.50
Ark 0504-4	1211	41.24	7.24	5.33	30.45	10.32	4.57	1.24	84.88	32.78	4.98	7.10	64.00	70.00
PX06520-42-2-1	1184	41.28	8.54	5.55	26.87	12.15	4.47	1.36	86.53	35.70	4.83	6.03	95.00	89.75
PD05064	1156	41.87	7.49	5.35	29.94	10.40	4.79	1.27	84.20	34.65	4.50	6.93	69.50	69.00
PD07092	1125	39.39	7.31	5.38	29.02	11.26	4.40	1.28	85.95	35.95	4.58	6.50	80.75	84.75
PX06520-42-2-3	1098	40.68	9.27	5.62	24.65	13.52	4.85	1.37	87.63	37.48	5.43	5.95	93.75	95.75
Acala 1517-99	1046	39.95	7.44	5.48	29.64	11.19	4.28	1.23	84.20	33.53	4.68	7.15	59.50	66.00
Mean	1324	41.44	7.51	5.53	30.69	10.62	4.67	1.24	84.80	33.13	4.81	7.00	61.37	69.08
LSD (.05)	254	0.95	0.56	0.24	2.06	0.75	0.25	0.03	1.14	1.43	0.37	0.45	11.33	9.01
CV(%)	13.65	1.64	5.33	3.12	4.78	5.03	3.80	1.88	0.96	3.08	5.53	4.58	13.16	9.30
R-Square	0.42	0.86	0.73	0.69	0.71	0.77	0.72	0.84	0.68	0.73	0.86	0.73	0.82	0.74
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