

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Stoneville, MS. (Cooperator: Bill Meredith)

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	2208	45.33	7.80	5.76	33.50	9.35	4.79	1.11	83.63	31.08	5.20	6.93	37.00	59.00
MD 10-5	2139	43.51	7.56	6.00	34.49	9.80	4.74	1.19	84.50	34.25	5.15	6.65	60.00	70.50
MD 25-26ne	2086	41.13	7.33	6.20	34.78	10.44	4.54	1.28	85.40	34.55	4.98	6.58	90.25	82.25
DP 393 ck	1958	42.02	7.68	6.02	32.94	10.55	5.02	1.16	84.45	32.05	6.05	6.75	46.75	64.75
LA10307108	1904	41.42	6.82	5.39	32.69	9.58	4.75	1.19	85.33	31.05	5.00	6.98	61.50	73.25
NM1303	1880	39.89	6.31	5.02	31.72	9.45	4.96	1.18	84.23	31.28	5.95	7.03	51.75	65.00
Ark 0502-37	1872	42.17	6.61	5.60	35.73	8.98	4.92	1.18	84.20	32.20	5.10	7.10	52.25	64.75
OA-33	1856	42.44	6.79	5.57	34.84	9.18	5.11	1.20	84.15	32.28	5.03	7.23	54.00	64.50
LA10307140	1855	42.78	7.89	6.30	34.12	10.55	4.60	1.20	85.73	34.48	5.45	6.70	69.75	79.50
Ark 0517-54	1844	42.90	7.67	5.49	30.75	10.13	4.68	1.17	83.90	29.10	5.03	7.25	54.75	64.75
GA 2008016	1825	43.92	7.26	5.26	31.79	9.25	4.84	1.18	83.83	32.13	3.75	7.38	53.25	63.25
MD-DC	1823	40.21	7.08	5.80	32.85	10.48	5.05	1.19	84.13	32.43	5.45	6.90	53.25	64.00
PX06520-42-2-1	1819	41.38	8.07	6.12	31.36	11.33	4.75	1.28	85.30	35.83	5.13	6.68	89.25	84.50
AU51038	1818	43.20	6.88	5.66	35.52	8.98	4.44	1.20	83.30	32.55	4.63	7.38	61.00	63.00
LA10307021	1804	43.38	8.10	5.91	31.65	10.50	4.38	1.20	84.80	34.08	3.75	6.85	66.00	73.25
GA 2009037	1792	42.20	7.54	5.85	32.66	10.30	4.79	1.17	83.68	31.68	5.13	7.13	51.25	62.25
PD06078	1768	40.76	7.10	5.61	32.17	10.25	4.89	1.19	84.70	33.55	5.23	6.53	58.00	69.25
NM1301	1766	41.98	6.91	5.35	32.52	9.53	5.18	1.14	83.13	31.68	5.40	7.33	33.00	54.25
Ark 0504-4	1753	42.70	7.61	5.44	30.56	10.18	4.96	1.20	84.78	32.63	5.10	6.75	59.75	69.50
PD05064	1744	40.54	6.87	5.85	34.49	10.00	4.77	1.23	84.50	33.28	5.00	6.85	70.50	70.75
SG 105 ck	1739	42.70	7.70	5.65	31.37	10.28	5.13	1.17	84.73	30.73	5.38	6.83	46.25	65.75
AU68036	1707	42.09	7.44	5.44	30.89	10.20	4.93	1.18	83.95	32.85	4.70	6.88	51.50	63.25
NM1302	1639	38.05	6.67	5.55	31.63	10.78	4.95	1.19	84.38	31.43	5.68	6.93	54.50	66.25
AU55052	1638	40.51	6.57	5.45	33.59	9.60	4.73	1.16	83.13	31.35	4.95	7.25	47.00	58.75
LA09309116	1637	41.70	8.10	6.55	33.77	11.28	4.97	1.24	85.88	33.53	6.23	6.55	73.50	78.50
Ark 0506-47	1607	40.87	7.47	5.54	30.30	10.78	5.03	1.20	84.63	32.53	4.58	7.10	57.00	67.75
PX06520-42-2-3	1598	41.06	8.56	6.06	29.07	12.28	4.76	1.29	86.10	38.18	5.38	6.40	92.75	93.25
PD05069	1590	41.09	6.88	5.64	33.65	9.78	4.69	1.26	83.58	34.03	4.80	6.83	77.50	68.50
GA 2010098	1563	41.08	7.26	6.42	36.35	10.35	4.63	1.20	84.03	33.80	5.00	6.98	62.00	68.25
GA 2009100	1561	39.48	7.03	6.14	34.50	10.70	5.03	1.20	84.38	33.68	3.95	7.13	57.25	66.75
FM 958 ck	1545	41.54	7.78	6.14	32.79	10.85	4.83	1.18	84.13	32.30	3.80	7.18	54.00	65.00
PD07092	1541	38.67	7.17	6.04	32.55	11.35	4.61	1.26	85.78	36.28	4.98	6.35	88.00	88.50
AU10090	1531	41.83	7.19	5.81	33.82	9.93	4.78	1.23	83.83	32.53	4.28	7.10	69.75	67.00
Acala 1517-99	1388	39.88	6.68	5.47	32.68	9.98	4.59	1.20	84.00	33.53	4.63	6.95	64.25	67.50
Mean	1759	41.60	7.31	5.77	32.88	10.20	4.82	1.20	84.41	32.91	4.99	6.92	60.84	69.04
LSD (.05)	216	1.39	0.35	0.36	1.98	0.80	0.20	0.04	1.14	1.32	0.44	0.40	13.94	9.19
CV(%)	8.76	2.38	3.46	4.49	4.29	5.56	2.97	2.26	0.96	2.85	6.25	4.14	16.33	9.48
R-Square	0.67	0.77	0.85	0.71	0.66	0.70	0.72	0.74	0.55	0.82	0.84	0.55	0.74	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