

Table 8. Least square means for lint yield, yield components, and fiber quality traits in the 2014 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	%	%		
NM12Y1004	1715	44.63	8.86	5.51	27.78	11.00	4.90	1.13	83.88	29.80	4.45	7.85	42.00	50.50
NM12Y1005	1668	45.90	8.92	5.73	29.54	10.52	5.35	1.10	84.23	29.40	4.60	8.00	30.25	57.75
OA-173	1638	43.63	7.71	5.36	30.33	9.96	5.11	1.16	84.23	30.88	4.55	7.45	49.25	62.50
UA 222 ck	1598	44.12	8.93	6.08	30.05	11.32	4.94	1.24	84.90	31.63	5.53	7.10	73.00	71.25
MS 0043-28 -1	1583	44.15	8.36	5.68	30.03	10.57	5.20	1.14	84.70	30.10	4.58	7.30	43.25	63.25
OA-185	1581	44.13	8.25	5.45	29.22	10.44	5.22	1.14	84.30	29.75	4.30	7.58	41.00	61.00
DP 393 ck	1576	43.27	8.05	5.80	31.15	10.56	5.14	1.16	85.38	31.78	5.30	7.23	51.50	69.00
GA 2009100	1562	41.37	7.54	5.88	32.26	10.69	5.22	1.18	84.90	32.80	3.58	7.48	56.50	67.25
LA11309062	1542	44.31	8.39	6.46	34.25	10.54	5.09	1.18	85.05	32.00	4.90	7.43	58.50	68.75
AU52034	1542	42.87	8.16	5.92	31.07	10.88	5.09	1.23	85.50	34.98	4.08	7.05	74.00	78.50
AU51038	1530	43.55	7.61	5.67	32.40	9.87	4.62	1.22	84.13	32.83	4.10	7.53	73.50	68.50
MS 0040-19 -4	1518	42.69	8.00	5.75	30.69	10.74	4.97	1.15	83.70	30.23	4.50	7.98	48.00	59.75
GA 2009037	1501	44.32	7.69	5.14	29.74	9.65	5.14	1.17	82.95	30.98	4.13	8.18	47.00	54.75
LA11309040	1491	46.71	8.51	5.39	29.65	9.71	5.11	1.16	84.33	30.03	5.15	7.48	49.25	63.00
MD10-6	1481	44.66	8.58	5.71	29.75	10.63	4.86	1.16	84.73	32.28	4.53	7.10	55.00	67.00
Ark 0614-49	1478	42.13	7.81	6.02	32.54	10.72	4.96	1.20	85.93	32.08	5.03	7.08	69.00	76.50
GA 2010074	1476	43.61	9.03	5.96	28.90	11.68	5.50	1.19	84.70	32.25	4.35	7.30	53.25	64.75
PX06520-42-2-1	1475	42.55	8.87	5.90	28.23	11.98	4.90	1.27	85.80	37.48	5.08	7.15	88.75	88.75
PD 07116	1447	43.16	7.76	5.82	32.46	10.22	5.19	1.20	84.88	34.83	3.90	7.35	62.00	72.50
FM 958 ck	1427	42.67	8.37	5.99	30.58	11.24	4.94	1.15	84.58	32.15	3.68	7.33	50.75	65.25
Ark 0615-38	1409	41.74	8.31	5.90	29.64	11.59	5.20	1.19	85.13	33.80	4.38	7.23	59.00	69.75
SG 105 ck	1403	43.39	8.25	5.42	28.55	10.76	5.18	1.16	85.33	29.88	4.90	7.08	52.00	68.75
Ark 0614-34	1398	42.85	8.00	5.90	31.62	10.67	5.07	1.21	85.28	31.10	5.28	7.35	68.75	72.00
MS 0045-14 -5	1394	43.46	7.91	5.64	31.00	10.29	4.87	1.14	84.58	30.50	4.40	7.63	48.00	64.75
LA11309005	1382	41.68	8.10	6.05	31.15	11.33	5.06	1.20	84.18	31.28	3.90	7.58	61.25	65.00
DP 491 ck	1358	43.35	8.04	5.90	31.82	10.50	5.00	1.21	85.48	32.85	3.93	7.40	70.50	74.00
AU91411	1353	41.77	8.63	6.24	30.22	12.03	5.35	1.18	83.98	32.30	4.70	7.43	49.75	60.25
PD 07066	1282	41.15	7.82	5.73	30.13	11.18	4.93	1.18	84.48	33.68	4.33	7.03	58.50	69.00
NM12Y1002	1279	42.35	7.31	5.32	30.86	9.96	4.83	1.17	84.93	32.08	5.60	7.38	58.75	69.00
PD 08039	1268	36.62	6.87	5.85	31.25	11.87	4.64	1.26	85.10	31.98	4.50	7.25	87.25	76.25
Mean	1479	43.09	8.15	5.77	30.56	10.77	5.05	1.18	84.71	31.92	4.54	7.41	57.65	67.31
LSD (.05)	221	1.08	0.60	0.42	2.28	0.73	0.23	0.03	1.14	1.45	0.34	0.60	11.99	10.75
CV(%)	10.63	1.79	5.26	5.21	5.31	4.81	3.26	1.97	0.96	3.24	5.34	5.74	14.80	11.37
R-Square	0.50	0.87	0.67	0.55	0.52	0.69	0.68	0.79	0.47	0.80	0.86	0.41	0.77	0.57
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