

Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2014 RBTN trial conducted at College Station, TX. (Cooperator: Richard Percy)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 <sup>†</sup>	QS2 <sup>†</sup>
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%		
MD10-6	2022	42.70	7.56	4.95	27.98	10.07	4.74	1.17	84.43	31.60	4.53	7.65	59.25	71.25
Ark 0614-49	1958	39.72	6.95	5.39	30.87	10.52	5.04	1.22	84.85	31.58	4.90	7.50	68.50	74.25
<b>DP 393 ck</b>	1932	41.49	6.99	5.37	31.86	9.80	4.92	1.18	84.98	31.08	5.30	7.28	60.50	73.75
OA-173	1890	42.16	6.48	5.04	32.82	8.81	5.23	1.20	84.60	31.35	4.40	7.78	58.50	70.50
LA11309040	1831	44.82	7.45	4.88	29.43	9.10	5.01	1.14	84.50	29.88	5.55	7.70	47.00	68.25
MS 0043-28 -1	1809	40.82	6.88	5.23	31.03	9.85	4.97	1.15	83.63	29.60	4.40	8.00	45.00	53.50
PX06520-42-2-1	1803	40.28	7.80	5.48	28.30	11.51	4.94	1.29	85.38	37.08	4.18	7.30	90.00	91.00
LA11309062	1786	44.01	7.47	5.69	33.57	9.42	5.09	1.19	84.20	31.80	4.98	8.00	57.75	68.50
GA 2009037	1765	42.73	6.86	5.10	31.77	9.17	5.19	1.15	82.18	29.10	4.15	9.25	36.75	43.50
Ark 0614-34	1764	40.40	7.32	5.75	31.76	10.73	4.96	1.24	84.38	31.33	5.13	7.70	75.75	73.50
<b>UA 222 ck</b>	1725	41.22	7.30	5.44	30.69	10.30	4.98	1.22	84.20	31.18	5.47	7.83	68.25	71.00
GA 2010074	1701	41.63	7.65	5.34	29.27	10.59	5.11	1.19	84.05	32.15	4.48	7.55	58.25	68.75
OA-185	1690	42.46	7.06	4.90	29.49	9.48	5.07	1.14	83.30	30.55	4.28	8.48	41.25	60.00
AU91411	1676	39.36	7.01	5.33	29.98	10.63	5.10	1.21	83.75	32.50	4.50	7.60	61.50	66.50
<b>SG 105 ck</b>	1674	41.03	7.38	5.03	27.95	10.54	5.18	1.15	84.38	29.95	4.78	7.55	45.00	66.25
PD 07116	1590	40.37	6.37	5.36	34.09	9.33	4.86	1.20	84.18	33.75	3.95	7.68	65.25	72.75
LA11309005	1583	39.61	6.72	4.88	28.88	10.13	4.80	1.19	83.23	31.73	3.73	8.13	60.50	64.75
GA 2009100	1579	39.01	6.55	5.42	32.27	10.12	5.28	1.17	83.53	31.68	3.43	8.15	47.25	62.00
AU51038	1553	42.26	6.72	5.33	33.65	9.06	4.52	1.20	82.88	32.10	4.05	8.20	65.00	64.00
MS 0045-14 -5	1542	40.99	7.24	5.52	31.26	10.36	4.64	1.17	83.88	31.00	4.28	8.03	57.50	67.75
Ark 0615-38	1532	39.59	7.42	5.64	30.09	11.23	4.95	1.19	84.73	32.08	4.25	7.58	62.75	73.00
MS 0040-19 -4	1503	40.75	7.22	5.42	30.65	10.48	4.81	1.17	82.85	30.60	4.55	8.38	53.75	61.25
AU52034	1502	39.62	6.92	5.45	31.22	10.49	4.77	1.25	85.08	34.03	4.18	7.40	84.75	82.00
<b>FM 958 ck</b>	1484	40.54	7.15	5.26	29.80	10.42	4.87	1.17	83.13	30.60	3.30	8.58	53.00	62.50
<b>DP 491 ck</b>	1474	42.29	6.66	5.58	35.58	8.95	4.89	1.21	82.95	31.53	3.65	8.50	63.50	63.25
PD 07066	1366	36.49	6.60	5.47	30.29	11.35	4.57	1.21	83.93	31.63	3.90	7.70	70.75	71.25
NM12Y1004	1311	42.68	8.35	5.38	27.57	11.02	5.09	1.14	83.40	29.48	4.18	8.55	40.75	60.50
NM12Y1002	1297	38.62	6.09	5.04	31.87	9.58	5.02	1.18	84.13	31.78	5.15	8.08	56.00	68.00
NM12Y1005	1185	42.71	7.93	5.47	29.47	10.51	5.29	1.11	83.15	28.70	4.08	8.98	27.75	46.50
PD 08039	1062	35.29	6.27	5.71	32.14	11.37	4.60	1.26	83.00	31.10	4.25	8.15	80.75	68.25
<b>Mean</b>	1620	40.86	7.08	5.33	30.85	10.16	4.95	1.19	83.89	31.42	4.40	7.97	58.75	66.94
<b>LSD (.05)</b>	227	1.02	0.51	0.56	3.65	0.75	0.21	0.03	1.16	1.59	0.38	0.60	12.20	12.42
<b>CV(%)</b>	9.96	1.78	5.15	7.49	8.41	5.22	3.00	1.89	0.98	3.60	6.18	5.32	14.78	13.20
<b>R-Square</b>	0.73	0.91	0.73	0.38	0.44	0.74	0.72	0.84	0.55	0.75	0.85	0.66	0.80	0.61
<b>Reps</b>	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).

<sup>†</sup> 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