

Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2013 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	%	%		
AU68036	1869	39.37	6.82	5.16	29.81	10.31	5.08	1.20	84.13	32.60	4.08	7.38	55.00	67.25
MD 10-5	1753	40.51	6.91	5.49	32.45	9.91	4.84	1.20	83.68	32.35	4.55	7.40	58.00	66.50
OA-33	1742	37.87	6.07	5.22	32.60	9.72	5.22	1.20	83.78	32.15	4.35	7.50	51.50	64.00
LA10307140	1742	40.68	7.16	5.80	33.06	10.32	4.87	1.17	84.10	32.58	5.00	7.38	50.00	67.00
LA09309116	1731	39.37	7.89	5.88	29.34	11.87	4.91	1.25	85.58	32.73	5.53	6.83	79.00	80.50
MD 10-6	1721	41.57	6.60	5.28	33.26	9.09	4.88	1.15	84.00	32.70	4.95	7.08	46.25	65.50
GA 2009100	1703	36.45	6.85	5.87	31.45	11.69	5.45	1.20	83.70	33.30	3.45	7.60	47.00	62.50
DP 393 ck	1702	38.48	7.14	5.45	29.37	11.16	5.08	1.17	83.78	31.15	5.28	7.20	47.50	63.75
MD 25-26ne	1689	38.13	7.18	6.42	34.17	11.48	4.82	1.27	85.78	34.28	4.13	6.98	85.00	85.00
PD05064	1688	40.57	7.14	5.84	33.24	10.18	5.00	1.22	84.13	34.63	4.48	7.35	63.50	72.00
LA10307021	1682	39.98	7.37	5.71	31.01	10.87	4.49	1.18	84.08	32.18	3.93	7.38	56.25	68.25
LA10307108	1656	38.54	6.74	5.53	31.61	10.55	4.80	1.21	83.58	30.70	4.50	7.70	62.75	66.75
GA 2009037	1650	39.06	7.00	5.51	30.79	10.72	4.97	1.19	83.65	31.30	4.48	7.65	53.50	64.50
PX06520-42-2-1	1647	38.77	7.65	5.63	28.57	11.81	4.96	1.31	85.90	36.43	4.45	6.40	90.25	91.25
NM1303	1640	37.12	5.99	5.05	31.30	9.93	5.17	1.15	83.12	31.31	5.36	7.92	38.92	58.00
GA 2008016	1630	41.45	7.21	5.18	30.00	9.98	4.87	1.19	82.55	31.70	3.48	8.08	51.25	59.00
GA 2010098	1630	39.63	7.40	5.96	32.03	11.14	4.79	1.20	83.80	33.28	4.55	7.53	60.00	67.75
MD-DC	1623	37.71	6.81	5.49	30.41	11.08	5.16	1.19	83.20	31.88	4.53	7.65	47.75	60.50
AU10090	1617	40.36	6.94	5.21	30.29	10.03	4.73	1.25	83.95	31.90	4.05	7.23	74.75	71.50
PX06520-42-2-3	1613	38.57	8.80	6.30	27.64	13.79	5.05	1.31	86.00	37.88	4.53	6.38	90.00	92.50
AU51038	1604	40.13	6.40	5.73	35.91	9.40	4.74	1.21	82.83	32.13	4.13	7.80	61.50	63.75
PD06078	1598	38.89	7.02	5.46	30.30	10.77	5.08	1.20	84.50	32.15	4.58	7.35	56.75	70.00
NM1301	1581	37.79	6.23	5.22	31.66	10.11	5.19	1.17	81.83	32.53	4.75	8.20	40.25	52.50
PD05069	1560	39.91	6.96	5.67	32.63	10.20	5.05	1.20	82.95	34.40	4.30	7.33	54.75	63.50
Ark 0502-37	1547	39.04	6.41	5.54	33.80	9.92	5.12	1.19	84.00	32.25	4.33	7.55	52.50	66.00
NM1302	1540	36.94	6.25	5.32	31.47	10.47	4.98	1.17	83.13	31.40	4.89	7.82	47.29	60.59
SG 105 ck	1533	38.70	7.29	5.20	27.68	11.28	5.22	1.14	83.83	30.08	4.83	7.38	35.75	61.00
Ark 0517-54	1492	39.35	7.29	5.33	28.78	11.12	4.70	1.18	84.10	29.28	4.35	7.58	58.25	68.25
FM 958 ck	1484	38.75	7.53	5.73	29.57	11.64	4.91	1.18	83.35	32.55	3.43	7.55	52.00	63.25
PD07092	1440	37.19	7.27	5.69	29.16	12.03	4.52	1.24	85.30	35.23	4.23	7.03	81.50	84.50
AU55052	1415	37.46	6.83	5.48	30.05	11.29	4.90	1.19	83.23	33.33	4.38	7.45	55.00	63.25
Ark 0506-47	1409	37.93	7.01	5.28	28.79	11.33	4.98	1.23	84.23	32.10	4.03	7.43	65.75	70.25
Ark 0504-4	1262	39.68	7.34	5.39	29.26	11.00	4.86	1.20	84.00	31.95	4.35	7.65	58.75	68.25
Acala 1517-99	1160	36.01	6.79	5.40	28.92	11.89	4.45	1.20	83.28	34.43	4.23	7.55	62.00	68.00
<b>Mean</b>	1599	38.88	7.01	5.54	30.89	10.83	4.94	1.20	83.91	32.67	4.42	7.42	58.54	68.15
<b>LSD (.05)</b>	256	1.29	0.71	0.46	3.11	0.99	0.26	0.04	1.08	1.51	0.44	0.43	13.97	8.10
<b>CV(%)</b>	11.01	2.32	7.04	5.77	7.03	6.40	3.70	2.17	0.90	3.24	6.94	4.09	16.58	8.28
<b>R-Square</b>	0.57	0.76	0.61	0.57	0.53	0.71	0.68	0.75	0.70	0.79	0.77	0.72	0.73	0.78
<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