

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2014 RBTN trial conducted at Suffolk, VA. (Cooperator: Hunter Frame)

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	%	%		
LA11309040	1881	46.86	9.70	5.90	28.89	10.00	5.05	1.11	84.55	27.83	6.53	7.40	40.00	56.50
Ark 0614-34	1864	42.01	8.64	6.42	31.35	10.90	4.75	1.18	86.00	29.60	5.93	6.98	71.25	74.75
Ark 0614-49	1840	43.10	8.06	5.99	32.14	10.20	4.60	1.18	85.40	29.38	6.43	6.88	70.00	74.25
Ark 0615-38	1741	43.65	8.98	6.45	31.42	11.30	4.94	1.18	85.38	31.03	5.78	7.18	65.75	72.25
GA 2009037	1731	43.06	7.82	6.38	35.24	9.80	4.76	1.17	83.80	29.55	5.38	7.88	61.00	63.50
GA 2010074	1719	42.45	8.00	6.31	33.90	10.20	5.05	1.16	84.75	30.33	5.88	7.08	53.50	66.00
MS 0043-28 -1	1695	42.33	7.89	5.95	32.19	10.10	4.73	1.12	83.88	29.23	5.65	7.38	47.25	61.25
MD10-6	1657	43.82	8.55	6.74	35.13	10.30	4.49	1.13	84.40	31.85	5.68	6.95	56.50	66.50
MS 0045-14 -5	1631	42.51	7.99	6.36	33.90	10.10	4.53	1.17	85.55	29.58	5.28	7.03	69.75	75.25
<b>UA 222 ck</b>	1626	42.65	9.04	6.38	30.19	10.90	4.80	1.18	85.55	29.25	7.17	6.93	68.50	74.25
<b>FM 958 ck</b>	1616	43.63	8.65	6.61	33.83	10.30	4.64	1.15	84.05	29.95	4.75	7.43	58.75	64.75
LA11309062	1605	45.58	8.86	7.17	37.14	10.10	4.67	1.15	84.78	30.05	5.78	7.25	59.00	68.50
MS 0040-19 -4	1599	41.57	8.38	6.22	30.96	10.80	4.47	1.16	83.75	28.78	5.60	7.80	62.50	64.25
OA-185	1576	43.65	8.42	5.97	31.33	10.00	4.63	1.12	83.90	28.93	5.10	7.88	50.00	62.25
AU51038	1570	44.13	8.32	6.02	32.57	10.00	4.16	1.18	83.33	31.68	5.20	7.68	66.75	62.75
GA 2009100	1563	43.46	8.67	6.29	32.37	10.40	4.68	1.16	84.55	30.55	5.23	7.35	57.75	66.50
OA-173	1558	42.55	7.75	6.13	33.70	9.90	4.82	1.17	85.03	30.23	5.65	7.45	64.25	70.25
<b>SG 105 ck</b>	1544	41.66	7.97	6.27	33.01	10.60	4.89	1.13	84.78	28.80	5.98	7.30	49.75	66.00
AU52034	1504	42.73	8.36	6.06	30.98	10.90	4.49	1.20	85.35	32.70	5.23	7.18	78.25	76.25
PD 07066	1498	39.67	7.93	6.13	31.18	11.40	4.34	1.19	85.05	31.23	5.40	6.95	73.50	73.50
<b>DP 393 ck</b>	1458	42.67	8.95	6.38	30.53	11.50	4.83	1.16	85.00	29.28	6.38	7.15	59.50	69.75
PX06520-42-2-1	1457	42.00	9.77	6.38	27.86	12.80	4.89	1.24	86.05	37.08	5.58	7.03	86.25	90.00
NM12Y1005	1429	44.19	9.27	5.29	25.47	11.00	4.86	1.07	83.10	27.40	5.68	8.20	27.00	30.50
NM12Y1002	1407	41.20	7.40	5.79	32.20	10.00	4.61	1.13	85.20	28.68	6.35	7.35	57.25	70.75
NM12Y1004	1397	44.38	9.36	5.63	26.72	10.60	4.89	1.10	83.68	28.33	5.60	7.98	36.75	49.50
LA11309005	1391	39.88	7.57	6.20	32.75	10.80	4.49	1.19	84.73	31.45	4.83	7.20	72.75	71.50
<b>DP 491 ck</b>	1363	42.94	7.64	6.29	35.37	9.70	4.39	1.18	84.78	31.55	4.88	7.50	70.50	71.50
AU91411	1333	41.96	8.47	6.65	32.95	11.20	4.76	1.19	85.13	29.88	5.63	6.90	69.75	72.00
PD 08039	1212	37.89	6.84	6.11	34.46	10.60	4.02	1.24	84.63	31.03	4.90	7.40	86.50	73.75
PD 07116	1117	41.78	7.45	6.36	35.87	9.70	4.54	1.18	84.60	31.88	4.88	7.25	70.25	70.25
<b>Mean</b>	1553	42.66	8.36	6.23	32.19	10.54	4.66	1.16	84.69	30.23	5.61	7.33	62.02	67.63
<b>LSD (.05)</b>	185	2.77	1.43	0.48	5.22	1.42	0.25	0.03	0.88	1.38	0.54	0.42	10.56	9.79
<b>CV(%)</b>	8.46	4.61	12.15	5.47	11.53	9.60	3.78	1.67	0.74	3.36	6.87	4.08	12.11	10.29
<b>R-Square</b>	0.73	0.52	0.39	0.59	0.40	0.37	0.72	0.82	0.66	0.82	0.74	0.65	0.81	0.73
<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