

Table 7. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at Lubbock, TX (Cooperator: Jane Dever).

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 <sup>1</sup>	QS2 <sup>1</sup>	QS3 <sup>1</sup>
	lb/A	%	grams	grams	#	grams	mic	%	%	g/tex	%	%			
GA 2015073	<b>1831</b>	<b>42.87</b>	7.59	5.11	28.85	8.95	<b>4.15</b>	1.16	<b>81.65</b>	29.30	6.95	8.90	64.50	<b>72.00</b>	67.50
FM 958 CK	<b>1761</b>	37.59	6.91	5.22	28.39	<b>10.20</b>	3.62	1.17	80.55	<b>31.15</b>	5.95	9.95	60.50	63.00	66.50
DP 493 CK	<b>1752</b>	<b>43.89</b>	8.20	5.04	27.21	<b>9.75</b>	3.55	1.10	78.25	28.25	6.55	<b>12.00</b>	31.50	35.00	46.00
LA14063038	<b>1665</b>	39.67	6.87	5.42	31.28	9.25	3.62	<b>1.23</b>	80.05	<b>32.25</b>	6.20	9.45	<b>75.00</b>	65.00	<b>81.00</b>
Ark 0908-60	<b>1659</b>	38.40	6.38	4.32	26.01	8.20	3.64	1.18	80.50	29.80	7.50	9.70	63.00	63.50	68.50
DP 393 CK	1622	40.93	7.51	5.19	28.25	9.55	<b>3.78</b>	1.16	80.80	30.05	7.70	9.45	59.00	64.00	64.00
LA14063083	1616	39.98	8.12	5.19	25.95	<b>10.65</b>	3.58	1.18	<b>81.65</b>	30.30	<b>7.95</b>	9.10	<b>66.50</b>	<b>73.00</b>	68.50
Ark 0921-31ne	1611	38.97	6.74	4.81	27.80	9.45	3.46	1.17	80.05	29.60	<b>7.95</b>	9.50	55.00	57.00	63.00
Ark 0912-18	1599	41.33	7.31	5.75	33.73	9.40	<b>3.93</b>	1.21	<b>82.90</b>	30.60	<b>8.00</b>	8.80	<b>78.50</b>	<b>83.00</b>	<b>78.00</b>
TAM 13S-03	1563	37.45	7.65	5.65	28.13	<b>11.10</b>	3.25	1.18	80.70	30.20	7.65	9.35	56.50	62.50	61.50
LA14063046	1543	40.43	7.37	5.55	30.42	<b>9.85</b>	3.34	1.19	81.15	<b>31.65</b>	7.70	9.40	62.00	<b>68.00</b>	65.50
TAM 13Q-18	1503	37.20	6.74	4.81	26.54	<b>10.15</b>	3.58	1.16	79.35	30.45	7.10	10.20	52.50	51.00	62.00
LA14063001	1503	41.11	6.96	4.62	27.40	8.70	3.27	1.19	79.70	<b>31.25</b>	7.15	10.05	56.00	55.00	64.00
TAM 13Q-51	1452	36.32	6.52	4.85	27.09	<b>10.25</b>	3.51	<b>1.26</b>	80.60	<b>31.45</b>	6.80	9.35	<b>83.50</b>	<b>72.50</b>	<b>86.50</b>
GA 2015032	1440	40.81	7.05	5.02	29.17	8.90	3.48	1.16	80.90	<b>31.60</b>	7.15	9.65	56.50	63.50	62.00
Tamcot G11	1439	37.17	7.07	5.66	29.75	<b>11.00</b>	2.99	<b>1.23</b>	78.05	29.80	6.25	<b>10.95</b>	58.50	47.00	69.50
PD 07040	1436	38.07	6.67	4.86	27.73	<b>9.95</b>	3.30	1.16	80.45	29.85	6.75	9.50	52.00	59.00	58.50
Ark 0921-27ne	1433	38.47	6.44	4.86	28.98	9.35	3.54	1.14	81.00	30.00	7.00	9.65	51.00	62.50	56.00
UA 222 CK	1403	38.06	6.86	5.45	30.23	<b>9.85</b>	3.32	1.18	80.00	29.40	<b>8.00</b>	9.75	56.50	57.50	64.00
Ark 0911-13	1396	39.78	7.14	4.94	27.50	<b>9.80</b>	3.45	1.21	80.40	29.45	<b>8.30</b>	9.45	<b>67.50</b>	64.50	<b>72.50</b>
GA 2012141	1389	40.76	7.12	4.92	28.11	9.35	3.55	1.18	80.45	29.85	6.75	9.45	61.00	62.00	67.00
Acala 1517-08	1382	38.72	6.95	5.00	27.87	<b>9.80</b>	<b>3.85</b>	1.16	<b>81.55</b>	<b>31.15</b>	6.70	9.20	63.50	<b>71.50</b>	67.00
TAM LBB130218	1377	37.23	6.46	5.10	29.35	<b>10.25</b>	3.16	1.16	79.20	<b>31.10</b>	6.25	10.30	44.00	47.00	54.50
TAM LBB131001	1371	38.31	6.15	5.02	31.29	8.35	2.83	1.20	78.70	<b>31.90</b>	6.55	10.65	48.00	45.00	58.50
LA14063101	1366	41.60	7.30	4.98	28.27	8.95	3.27	1.21	80.50	<b>31.10</b>	6.80	9.60	64.00	64.50	69.50
PD 09046	1358	35.50	5.78	5.93	36.38	<b>9.90</b>	2.98	<b>1.23</b>	78.70	<b>31.90</b>	5.70	10.15	60.50	50.50	70.50
AU 90098	1350	39.37	6.82	4.51	25.98	9.00	3.36	1.16	80.00	29.50	6.30	10.30	52.00	55.50	59.50
PD 08028	1339	36.79	6.44	5.30	30.28	<b>10.10</b>	3.38	1.18	80.85	<b>31.15</b>	7.00	9.25	58.50	64.50	63.50
NM 16-13P1088B	1277	37.63	6.89	5.18	28.30	<b>10.35</b>	<b>3.89</b>	1.17	80.90	<b>31.70</b>	6.90	9.00	64.00	<b>67.00</b>	69.00
TAM WK-11L	1246	37.57	6.40	5.00	29.60	9.60	3.15	1.12	80.90	29.55	7.40	10.15	39.00	57.00	45.00
GA 2015090	1227	40.19	6.93	5.06	29.34	9.10	3.41	1.17	80.60	<b>31.20</b>	7.35	9.55	57.50	62.00	63.00
NM 13R1015	1174	38.35	6.62	4.22	24.46	9.25	3.50	1.13	<b>81.75</b>	<b>31.90</b>	7.10	8.50	49.50	<b>67.00</b>	53.50
PD 2013016	1121	38.37	6.72	5.13	29.33	9.65	3.20	1.20	80.40	<b>32.45</b>	6.10	9.60	61.50	62.00	67.00
<b>Mean</b>	1461	39.06	6.93	5.08	28.76	9.63	3.45	1.18	80.40	30.63	7.02	9.69	58.45	61.03	64.62
<b>LSD (.05)</b>	199	1.82	ns	ns	ns	1.41	0.49	0.03	1.54	1.60	0.48	1.23	18.45	16.28	14.39
<b>Cultivar (P&gt;F)</b>	<0.0001	<0.0001	0.0655	0.3921	0.7815	0.0338	0.0029	<0.0001	0.0002	0.0004	<0.0001	0.0071	0.0050	0.0024	0.0017
<b>CV(%)</b>	9.72	2.29	8.08	10.09	12.85	7.17	7.04	1.43	0.94	2.56	3.33	6.24	15.94	13.09	10.93
<b>R-Square</b>	0.66	0.90	0.64	0.53	0.43	0.67	0.74	0.89	0.79	0.78	0.94	0.74	0.74	0.75	0.76
<b>Reps</b>	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Values in bold not significantly different from highest value according to LSD(0.05).

<sup>1</sup>QS1, QS2, and QS3 = Represent values for "Qscore", a measurement 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 as follows:

- QS1 - fiber length (0.50), mic (0.25), UI (0.15), and strength (0.10)
- QS2 - fiber length (0.20), mic (0.10), UI (0.40), and strength (0.30)
- QS3 - fiber length (0.45), mic (0.25), UI (0.00), and strength (0.30).