

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at Stoneville, MS, USDA location 2 (Cooperator: Jodi Scheffler).

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	%	%			
Ark 0911-13	<b>1609</b>	44.53	<b>8.47</b>	5.79	30.54	10.52	4.84	1.29	85.40	30.83	7.50	7.15	67.00	<b>66.75</b>	71.25
Ark 0921-31ne	<b>1581</b>	42.71	7.73	5.59	30.87	10.37	4.60	1.25	<b>85.83</b>	31.73	<b>8.13</b>	6.75	62.25	<b>67.50</b>	66.50
Ark 0908-60	<b>1561</b>	<b>45.28</b>	<b>8.67</b>	5.83	30.52	10.47	<b>5.08</b>	1.29	85.48	31.93	6.80	7.03	61.75	65.00	66.00
Ark 0912-18	<b>1540</b>	44.84	<b>8.63</b>	5.72	29.72	10.61	4.82	1.28	<b>86.70</b>	31.60	<b>7.70</b>	6.70	67.50	<b>75.25</b>	69.00
LA14063046	<b>1525</b>	44.77	<b>8.25</b>	5.94	<b>32.30</b>	10.16	4.81	1.29	84.80	31.88	7.08	7.08	67.25	62.50	73.25
LA14063083	<b>1487</b>	<b>45.28</b>	7.98	5.50	31.26	9.64	4.76	1.26	84.85	32.53	7.50	7.20	59.25	59.75	66.25
LA14063101	<b>1477</b>	<b>46.81</b>	7.98	5.21	30.64	9.06	4.83	1.27	85.25	32.65	6.65	7.05	61.25	63.25	67.00
Ark 0921-27ne	1462	42.08	7.26	5.31	30.83	9.98	4.71	1.23	85.23	<b>33.23</b>	6.70	6.98	52.75	59.50	59.00
TAM 13Q-51	1447	41.79	7.57	5.36	29.59	10.55	4.76	1.31	85.53	<b>33.68</b>	7.03	6.53	<b>75.25</b>	<b>71.00</b>	79.00
LA14063038	1399	43.59	7.61	5.79	<b>33.21</b>	9.83	4.70	1.30	84.50	<b>34.25</b>	6.13	7.18	70.50	62.50	78.25
UA 222 CK	1383	43.36	<b>8.65</b>	5.86	29.43	11.29	4.81	1.27	84.58	30.63	<b>7.65</b>	7.20	59.50	57.75	66.75
DP 393 CK	1365	43.71	<b>8.26</b>	5.74	30.46	10.61	4.80	1.21	<b>85.95</b>	32.85	7.53	6.95	48.25	62.75	53.00
LA14063001	1349	<b>45.71</b>	<b>8.61</b>	5.92	31.48	10.22	4.64	1.28	85.25	31.88	6.73	6.95	66.75	<b>65.50</b>	72.00
GA 2012141	1327	43.68	<b>8.52</b>	5.36	27.48	10.98	4.63	1.28	<b>85.80</b>	31.30	6.30	6.93	69.50	<b>70.25</b>	73.00
GA 2015073	1312	44.89	<b>8.12</b>	5.59	30.88	9.97	4.78	1.24	84.73	<b>33.15</b>	6.43	6.85	51.00	56.00	59.50
GA 2015090	1278	43.67	7.81	5.42	30.36	10.07	4.56	1.29	85.68	32.60	6.48	6.90	74.00	<b>71.25</b>	77.25
GA 2015032	1245	44.23	7.56	5.41	31.80	9.51	4.82	1.28	85.23	31.65	6.10	7.15	64.25	64.00	69.25
PD 07040	1235	42.00	8.07	6.04	31.47	11.14	4.66	1.28	<b>86.08</b>	32.13	6.38	6.85	70.75	<b>73.00</b>	73.50
DP 493 CK	1212	<b>47.00</b>	7.74	5.04	30.71	8.72	<b>4.96</b>	1.18	83.85	31.05	5.68	<b>7.90</b>	31.00	41.50	43.25
AU 90098	1204	<b>45.46</b>	<b>8.34</b>	4.98	27.18	10.00	4.52	1.28	85.50	32.43	5.98	6.93	68.75	<b>68.00</b>	73.25
TAM WK-11L	1198	41.65	7.91	5.44	28.71	11.05	4.61	1.21	84.38	30.50	6.55	7.35	47.25	51.50	57.25
FM 958 CK	1188	42.67	7.97	5.70	30.59	10.70	4.67	1.26	85.40	<b>33.38</b>	5.60	7.03	61.50	64.75	67.25
Tamcot G11	1164	40.83	<b>8.62</b>	<b>6.59</b>	31.25	<b>12.49</b>	4.47	<b>1.38</b>	84.28	31.38	5.78	6.33	<b>85.50</b>	<b>66.25</b>	<b>91.75</b>
TAM 13Q-18	1104	42.24	7.90	5.60	29.93	10.81	4.59	1.24	83.98	31.95	6.78	7.40	51.75	51.25	62.75
TAM 13S-03	1087	41.83	7.97	5.35	28.12	11.07	4.55	1.24	84.65	30.55	7.43	7.05	55.00	56.75	63.25
NM 13R1015	982	41.32	6.69	4.95	30.60	9.50	4.74	1.23	84.50	32.95	6.23	6.90	49.25	53.50	58.75
PD 08028	973	40.04	7.13	6.05	<b>33.96</b>	10.68	4.60	1.26	<b>85.88</b>	<b>34.43</b>	6.30	6.65	65.50	<b>70.25</b>	70.00
Acala 1517-08	927	40.56	7.12	5.34	30.43	10.43	4.65	1.25	84.75	<b>33.35</b>	6.45	7.00	56.25	58.00	64.50
PD 2013016	875	44.10	7.88	5.79	<b>32.57</b>	9.96	4.72	1.31	85.08	<b>34.20</b>	5.65	6.90	74.00	<b>67.75</b>	79.50
TAM LBB131001	793	43.61	7.46	5.02	29.36	9.65	4.18	1.29	84.18	<b>33.28</b>	6.35	7.35	68.75	59.00	77.25
TAM LBB130218	770	39.55	7.36	5.75	30.96	11.24	4.32	1.26	84.88	32.95	5.70	7.28	61.50	61.25	69.25
NM 16-13P1088B	751	38.55	7.08	5.83	31.90	11.22	4.55	1.22	84.85	<b>34.50</b>	6.65	7.00	52.50	58.00	61.50
PD 09046	724	39.56	7.33	5.64	30.63	11.12	4.25	1.33	85.10	<b>34.33</b>	5.35	6.70	<b>84.00</b>	<b>72.00</b>	<b>88.50</b>
<b>Mean</b>	1228	43.09	7.89	5.59	30.60	10.41	4.67	1.27	85.09	32.47	6.58	7.00	62.46	62.83	68.72
<b>LSD (.05)</b>	142	1.86	0.58	0.29	1.95	0.35	0.19	0.03	0.98	1.50	0.49	0.40	10.97	10.06	9.00
<b>Cultivar (P&gt;F)</b>	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>CV(%)</b>	8.21	3.08	5.23	3.68	4.54	2.38	2.90	1.72	0.82	3.24	5.28	4.04	12.51	11.40	9.33
<b>R-Square</b>	0.90	0.80	0.75	0.80	0.66	0.92	0.73	0.81	0.54	0.63	0.85	0.58	0.74	0.59	0.76
<b>Reps</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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).