

Table 3. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at College Station, TX (Cooperator: Lori Hinze).

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	%	%			
LA14063038	1344	43.04	7.22	4.88	29.15	9.30	4.94	1.19	<b>84.20</b>	32.38	6.63	7.58	66.00	<b>68.75</b>	69.25
DP 493 CK	1261	<b>44.74</b>	6.35	4.23	<b>29.82</b>	7.68	<b>5.50</b>	1.08	82.00	30.20	5.20	<b>8.80</b>	20.75	31.75	30.50
AU 90098	1243	<b>45.48</b>	<b>7.62</b>	4.48	26.81	8.94	5.25	1.16	82.90	30.70	5.20	8.30	46.00	52.00	54.75
GA 2015073	1231	<b>44.36</b>	6.95	4.79	<b>30.67</b>	8.54	4.92	1.17	83.63	32.33	5.85	7.75	58.25	62.00	64.50
Ark 0912-18	1221	43.28	<b>8.04</b>	4.73	25.47	10.40	5.20	1.21	<b>84.75</b>	32.68	6.70	7.35	68.75	<b>73.75</b>	69.50
TAM 13S-03	1165	41.34	6.97	4.69	27.68	9.88	4.78	1.16	<b>84.35</b>	30.28	6.78	7.75	60.50	<b>68.00</b>	64.50
GA 2015090	1158	42.30	6.53	4.48	29.04	8.74	4.87	1.21	<b>83.88</b>	<b>33.13</b>	5.70	7.78	71.00	<b>69.75</b>	75.75
DP 393 CK	1150	42.32	7.29	4.90	28.43	9.80	5.26	1.12	83.28	31.18	6.75	7.90	36.00	50.25	44.25
PD 08028	1148	38.74	6.31	<b>5.31</b>	<b>32.66</b>	9.86	4.76	1.16	<b>83.78</b>	32.23	5.73	7.63	59.25	63.25	65.00
Ark 0908-60	1141	<b>44.90</b>	6.93	4.74	<b>30.82</b>	8.38	5.24	1.18	83.50	30.05	6.03	8.05	54.00	59.25	60.00
LA14063046	1079	42.03	6.93	4.95	<b>30.03</b>	9.44	5.02	1.19	83.40	32.38	6.38	7.90	62.75	62.00	68.50
PD 07040	1078	40.20	6.82	4.93	29.13	10.00	5.02	1.16	83.48	30.23	5.98	7.93	54.25	59.25	60.75
FM 958 CK	1059	40.12	7.00	<b>5.10</b>	29.26	10.34	4.98	1.18	83.70	32.38	4.78	7.88	59.50	63.25	65.00
TAM LBB131001	1050	43.49	6.51	4.45	<b>29.80</b>	8.32	4.49	1.18	82.13	31.48	5.53	<b>8.65</b>	61.00	52.50	71.50
Ark 0921-31ne	1043	42.04	7.25	4.73	27.50	9.80	5.03	1.14	<b>84.40</b>	32.33	<b>7.25</b>	7.30	50.25	64.25	54.75
PD 09046	1020	35.85	5.66	4.29	27.17	9.96	4.66	1.23	82.80	<b>34.05</b>	4.90	8.00	<b>77.75</b>	<b>65.50</b>	<b>85.25</b>
GA 2012141	1001	41.60	6.92	4.74	28.53	9.60	4.96	1.17	<b>83.80</b>	30.98	5.98	8.00	58.00	63.00	63.25
Ark 0921-27ne	996	40.44	6.73	4.65	28.09	9.72	4.89	1.18	<b>84.50</b>	32.33	5.73	7.38	64.75	<b>70.25</b>	67.75
GA 2015032	995	43.23	6.19	4.41	<b>30.79</b>	8.06	4.95	1.16	<b>84.08</b>	32.40	5.68	7.90	56.75	64.50	61.50
LA14063101	991	<b>45.06</b>	<b>7.67</b>	4.51	26.67	9.22	5.16	1.18	83.68	32.43	5.83	7.70	58.00	62.25	63.25
UA 222 CK	987	41.00	7.04	4.82	28.09	9.94	5.16	1.18	83.63	30.85	6.55	7.60	57.25	61.50	63.00
PD 2013016	985	40.08	6.31	<b>5.04</b>	<b>32.00</b>	9.30	4.82	1.23	<b>84.00</b>	<b>34.98</b>	4.95	7.68	<b>80.50</b>	<b>75.50</b>	<b>84.75</b>
NM 13R1015	983	41.60	6.63	4.52	28.39	9.20	5.01	1.14	83.75	32.55	5.38	7.65	49.25	59.00	55.50
LA14063001	981	<b>44.51</b>	<b>7.38</b>	<b>4.98</b>	<b>30.18</b>	9.02	5.00	1.17	82.78	31.05	5.93	8.38	55.50	54.75	63.50
LA14063083	980	42.42	6.65	4.94	<b>31.79</b>	8.80	4.90	1.23	83.08	<b>34.38</b>	5.08	8.20	<b>75.00</b>	<b>66.75</b>	<b>82.50</b>
TAM WK-11L	978	41.53	6.75	4.81	29.59	9.36	5.04	1.14	<b>83.83</b>	30.60	6.38	7.55	47.75	59.00	54.00
TAM 13Q-18	973	40.24	6.52	4.70	29.09	9.52	4.93	1.12	80.98	30.35	5.80	<b>9.05</b>	38.25	39.00	52.00
TAM 13Q-51	971	40.68	6.55	4.45	27.65	9.40	5.18	1.21	83.70	32.85	6.25	7.90	66.25	<b>66.75</b>	71.50
Ark 0911-13	970	42.39	<b>7.69</b>	4.70	26.05	9.92	5.14	1.18	83.73	30.00	<b>6.83</b>	7.78	57.25	62.25	62.50
Acala 1517-08	967	40.05	6.66	4.51	27.21	9.74	4.86	1.16	<b>84.23</b>	<b>33.30</b>	5.53	7.50	57.50	<b>65.75</b>	61.75
Tamcot G11	967	38.47	7.20	<b>5.15</b>	27.59	<b>11.34</b>	4.46	<b>1.29</b>	82.80	32.83	4.80	7.68	<b>86.25</b>	<b>67.00</b>	<b>92.00</b>
TAM LBB130218	779	37.42	6.44	4.67	27.23	<b>10.58</b>	4.79	1.16	82.50	32.30	4.88	8.15	53.50	52.25	62.75
NM 16-13P1088B	769	39.92	6.44	4.74	29.60	9.52	4.81	1.16	<b>84.35</b>	<b>33.95</b>	6.08	7.48	60.50	<b>69.00</b>	65.75
<b>Mean</b>	1050	41.66	6.85	4.73	28.85	9.44	4.97	1.17	83.50	32.00	5.85	7.88	58.43	61.33	64.58
<b>LSD (.05)</b>	ns	1.39	0.71	0.34	2.97	0.86	0.21	0.04	0.99	1.90	0.44	0.50	13.80	10.49	12.62
<b>Cultivar (P&gt;F)</b>	0.0654	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>CV(%)</b>	19.49	2.36	7.21	5.08	7.11	6.21	3.01	2.58	0.84	4.23	5.30	4.53	16.83	12.18	13.92
<b>R-Square</b>	0.68	0.88	0.57	0.63	0.50	0.69	0.74	0.70	0.67	0.59	0.86	0.69	0.71	0.70	0.71
<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).

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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).