

Table 15. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at WestSide, CA (Cooperator: Bob Hutmahcer).

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 0912-18	<b>2249</b>	<b>43.60</b>	<b>8.08</b>	<b>6.22</b>	<b>33.72</b>	10.30	<b>5.06</b>	1.23	<b>85.63</b>	<b>34.40</b>	<b>6.88</b>	7.23	<b>70.50</b>	<b>80.50</b>	70.00
Ark 0911-13	<b>2101</b>	42.46	7.81	<b>6.32</b>	<b>34.39</b>	10.45	<b>5.04</b>	1.24	83.55	32.25	<b>6.55</b>	<b>7.80</b>	66.50	64.00	71.75
LA14063101	<b>2074</b>	<b>45.11</b>	<b>9.06</b>	5.56	27.68	10.80	<b>5.41</b>	1.17	<b>84.00</b>	<b>33.73</b>	5.75	<b>8.08</b>	42.75	58.75	49.50
LA14063083	2029	42.76	7.32	5.59	<b>32.64</b>	9.60	4.80	1.20	<b>84.25</b>	32.88	<b>6.65</b>	7.68	62.25	67.50	66.75
DP 393 CK	2027	42.76	7.71	5.94	<b>33.15</b>	10.20	<b>5.19</b>	1.16	<b>84.48</b>	32.58	<b>6.65</b>	7.43	44.50	61.50	49.00
LA14063001	2020	<b>44.33</b>	<b>8.43</b>	5.88	30.94	10.30	4.75	1.18	83.60	31.78	6.13	<b>7.88</b>	56.50	60.50	63.25
Ark 0921-31ne	1976	41.50	7.35	5.77	32.56	10.15	4.84	1.18	83.68	31.35	<b>6.73</b>	<b>7.78</b>	55.00	60.25	61.50
GA 2015073	1950	<b>43.82</b>	<b>8.29</b>	5.83	30.81	10.40	4.83	1.18	82.68	30.53	5.33	<b>7.93</b>	51.25	51.75	61.00
Tamcot G11	1946	41.23	7.18	<b>6.59</b>	<b>37.87</b>	10.10	4.48	<b>1.30</b>	83.10	31.65	4.85	7.73	<b>86.50</b>	<b>68.75</b>	<b>91.50</b>
PD 07040	1937	39.43	6.39	<b>6.08</b>	<b>37.56</b>	9.70	4.71	1.17	83.23	30.60	5.98	<b>8.33</b>	52.00	55.75	60.25
UA 222 CK	1889	<b>44.07</b>	<b>8.54</b>	<b>6.02</b>	31.37	10.65	<b>5.12</b>	1.20	83.60	31.45	<b>6.82</b>	<b>7.90</b>	56.25	60.25	62.00
LA14063046	1885	42.42	7.99	5.63	30.03	10.60	4.39	1.24	83.70	<b>33.63</b>	<b>6.60</b>	7.50	<b>76.00</b>	<b>69.25</b>	<b>81.00</b>
TAM 13Q-51	1873	39.12	6.41	5.19	31.83	9.75	4.46	<b>1.31</b>	<b>84.95</b>	<b>35.73</b>	6.18	6.85	<b>91.00</b>	<b>86.25</b>	<b>93.00</b>
GA 2015090	1845	42.28	7.66	5.04	27.93	10.25	4.92	1.17	82.95	<b>34.08</b>	5.78	<b>8.08</b>	50.00	54.00	59.50
LA14063038	1809	42.62	7.67	5.73	31.89	10.25	4.82	<b>1.25</b>	82.13	32.90	4.60	<b>8.28</b>	68.50	57.75	<b>77.00</b>
TAM 13S-03	1809	41.16	7.17	5.21	30.35	10.05	4.72	1.19	<b>84.53</b>	32.73	<b>6.80</b>	7.48	61.75	68.00	65.50
FM 958 CK	1793	42.02	7.75	<b>6.28</b>	<b>34.03</b>	10.55	<b>5.07</b>	1.15	82.85	31.25	4.93	<b>8.23</b>	40.25	49.25	50.25
Ark 0908-60	1790	<b>44.53</b>	<b>8.54</b>	5.96	31.22	10.50	<b>5.24</b>	1.21	83.08	32.40	6.03	<b>8.33</b>	56.25	57.75	63.25
GA 2015032	1779	42.58	<b>8.07</b>	5.83	31.69	10.60	<b>5.14</b>	1.23	82.73	32.25	5.10	<b>8.00</b>	60.25	55.50	68.25
PD 08028	1760	38.61	6.60	<b>6.38</b>	<b>37.46</b>	10.30	4.69	1.21	<b>84.13</b>	<b>35.35</b>	5.48	7.43	66.25	<b>70.00</b>	72.25
Ark 0921-27ne	1741	41.27	7.31	5.70	32.22	10.25	4.89	1.18	83.48	31.78	5.88	<b>7.88</b>	53.00	58.00	59.75
TAM WK-11L	1735	41.41	7.15	<b>6.03</b>	<b>34.93</b>	10.00	4.95	1.15	83.50	30.28	6.23	7.65	42.75	53.75	49.50
PD 2013016	1733	40.81	7.01	<b>6.09</b>	<b>35.63</b>	10.00	4.97	1.23	83.48	<b>34.55</b>	4.65	<b>7.98</b>	64.75	64.25	71.75
GA 2012141	1719	43.05	7.99	5.38	29.07	10.45	4.94	1.20	<b>84.70</b>	31.63	5.65	7.75	62.50	<b>70.25</b>	64.75
AU 90098	1716	<b>44.00</b>	7.99	5.70	31.62	10.00	4.87	1.19	83.10	30.33	4.83	<b>8.35</b>	54.50	56.00	62.25
TAM 13Q-18	1682	40.57	6.53	5.94	<b>36.95</b>	9.45	4.65	1.15	83.45	32.95	5.90	<b>8.15</b>	49.25	56.50	57.50
NM 13R1015	1551	38.99	6.79	5.59	32.27	10.45	<b>5.06</b>	1.17	<b>84.60</b>	<b>35.15</b>	5.10	7.18	51.75	67.75	57.50
Acala 1517-08	1513	39.45	6.66	5.94	<b>35.47</b>	10.00	4.65	1.20	83.83	<b>34.38</b>	5.73	7.58	63.50	65.75	69.50
DP 493 CK	1509	<b>44.79</b>	<b>8.40</b>	5.26	28.37	10.10	<b>5.19</b>	1.13	82.63	30.25	4.95	<b>8.38</b>	33.75	44.25	44.50
TAM LBB131001	1440	41.18	7.42	5.59	31.91	10.40	4.41	1.24	83.20	<b>34.23</b>	5.15	<b>7.90</b>	<b>74.50</b>	66.00	<b>81.75</b>
TAM LBB130218	1307	38.18	6.31	5.76	<b>35.22</b>	10.10	4.82	1.14	81.98	31.18	4.65	<b>8.60</b>	42.75	43.75	54.00
PD 09046	1246	35.87	6.10	5.71	<b>33.65</b>	10.75	4.56	<b>1.25</b>	83.43	<b>33.55</b>	4.68	<b>8.10</b>	<b>78.50</b>	68.00	<b>84.50</b>
NM 16-13P1088B	1192	38.71	7.01	<b>6.21</b>	<b>34.37</b>	10.90	4.68	1.18	<b>84.10</b>	<b>34.65</b>	6.03	7.60	57.75	66.50	64.75
<b>Mean</b>	1776	41.66	7.48	5.82	32.75	10.25	4.86	1.20	83.58	32.68	5.73	7.85	58.89	61.76	65.41
<b>LSD (.05)</b>	213	1.85	1.01	0.62	5.23	ns	0.39	0.07	1.66	2.37	0.50	0.84	21.83	18.18	18.47
<b>Cultivar (P&gt;F)</b>	<0.0001	<0.0001	<0.0001	0.0001	0.0026	0.8748	<0.0001	<0.0001	0.0137	<0.0001	<0.0001	0.0266	<0.0001	0.0067	<0.0001
<b>CV(%)</b>	8.54	3.16	9.62	7.63	11.37	7.92	5.76	3.93	1.42	5.17	6.22	7.65	26.41	20.97	20.12
<b>R-Square</b>	0.80	0.79	0.60	0.50	0.42	0.32	0.53	0.55	0.43	0.55	0.85	0.41	0.52	0.45	0.54
<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).