

Table 8. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Las Cruces, NM (Cooperator: Jinfa Zhang).

Entry	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	inch	%	g/tex	%	%			
LA11309040	<b>1978</b>	<b>44.55</b>	<b>8.20</b>	4.92	26.85	8.60	5.27	1.07	82.18	29.28	<b>9.60</b>	8.95	33.75	44.25	41.00
PD2011026	<b>1782</b>	40.64	7.40	5.13	<b>28.19</b>	9.70	5.06	1.13	83.15	32.55	8.58	8.23	59.50	65.00	65.00
MS 2010-87-5	<b>1672</b>	<b>44.36</b>	<b>7.85</b>	5.26	<b>29.88</b>	8.40	5.12	1.14	82.98	30.25	7.75	8.10	60.75	63.75	65.75
Ark 1005-41	<b>1571</b>	<b>43.02</b>	<b>8.22</b>	<b>5.59</b>	<b>29.23</b>	9.70	5.32	1.15	83.43	31.53	9.23	8.40	62.25	67.50	65.50
GA 2012141	<b>1563</b>	41.50	7.45	4.82	26.86	8.40	4.88	1.12	82.40	29.00	8.83	8.53	56.00	58.00	63.50
Ark 1004-38	<b>1557</b>	<b>42.35</b>	<b>8.29</b>	5.32	27.34	9.70	5.17	1.15	82.48	28.60	7.85	8.93	60.75	59.25	66.00
TAM 12J-39	<b>1545</b>	<b>42.91</b>	<b>8.12</b>	<b>5.65</b>	<b>29.89</b>	9.50	5.23	1.08	83.13	<b>34.45</b>	8.23	8.55	42.00	59.75	50.00
TAM 13S-03	1512	37.82	7.00	4.88	26.43	9.40	4.94	1.13	82.60	29.00	<b>9.98</b>	8.33	60.00	61.00	66.50
LA14063075	1465	<b>44.07</b>	6.86	4.86	<b>31.27</b>	7.60	4.84	1.17	82.75	32.00	7.58	8.70	72.00	66.75	<b>77.00</b>
UA 222 CK	1381	41.29	7.51	5.11	<b>28.11</b>	9.00	5.10	1.13	82.85	29.53	<b>9.67</b>	8.58	57.75	61.75	63.50
FM 958 CK	1286	41.95	<b>7.70</b>	5.20	<b>28.39</b>	9.10	5.00	1.12	81.55	29.40	7.40	8.98	52.00	49.75	61.00
LA14063083	1282	41.78	6.97	4.99	<b>29.91</b>	8.30	4.94	1.14	82.80	30.53	9.08	8.60	63.00	63.25	68.25
TAM LBB150824	1280	39.28	<b>7.85</b>	<b>5.82</b>	<b>29.21</b>	<b>10.60</b>	4.99	<b>1.22</b>	83.45	<b>35.33</b>	7.83	8.13	<b>85.75</b>	<b>81.25</b>	<b>90.25</b>
GA 2015024	1278	<b>42.46</b>	6.82	4.85	<b>30.24</b>	7.80	4.74	1.12	81.93	27.73	8.00	9.05	54.50	43.50	55.25
16-13P1115	1272	39.41	7.31	5.50	<b>29.71</b>	9.50	4.65	1.13	83.68	<b>34.13</b>	7.70	8.10	67.25	73.00	71.75
Ark 1005-35	1256	39.19	7.23	5.18	<b>28.17</b>	9.30	<b>5.63</b>	1.11	82.05	31.50	8.40	8.60	40.50	49.00	49.50
TAM LBB150107	1226	40.67	6.74	4.46	27.00	8.30	5.08	1.16	83.75	33.33	8.93	7.88	69.25	73.75	72.25
DP 493 CK	1198	<b>43.90</b>	6.99	4.26	26.72	7.30	5.32	1.06	81.45	26.78	7.55	<b>9.95</b>	25.25	29.50	30.00
PD2011021	1169	39.12	6.97	4.94	27.82	9.30	4.79	1.10	82.75	30.13	8.33	8.53	54.50	59.50	61.00
Ark 1007-15	1139	40.58	<b>7.97</b>	4.95	25.28	9.60	4.90	1.10	81.48	27.40	8.13	<b>9.78</b>	46.50	39.25	50.50
DP 393 CK	1095	41.32	7.06	5.07	<b>29.67</b>	8.60	5.02	1.10	82.63	30.20	9.40	8.48	48.50	56.50	56.00
Ark 1015-42	1077	<b>43.03</b>	<b>7.80</b>	5.09	<b>28.11</b>	8.80	5.03	1.17	83.30	31.20	8.38	8.15	72.50	70.50	75.50
PD2011081	1055	38.05	6.36	4.76	<b>28.62</b>	8.90	4.90	1.09	81.98	27.75	7.80	8.80	45.25	45.75	51.00
TAM LBB150921	1017	39.00	<b>7.69</b>	<b>6.05</b>	<b>30.78</b>	<b>10.70</b>	5.13	<b>1.22</b>	<b>85.03</b>	<b>35.00</b>	9.38	7.58	<b>88.25</b>	<b>92.75</b>	<b>88.25</b>
<b>Mean</b>	1361	41.34	7.43	5.11	28.49	9.00	5.04	1.13	82.74	30.69	8.48	8.58	57.41	59.76	62.68
<b>LSD (.05)</b>	464	2.37	0.76	0.48	3.25	0.78	0.23	0.04	1.24	1.94	0.56	0.69	14.78	15.79	13.64
<b>Entry (P&gt;F)</b>	0.0056	<0.0001	<0.0001	<0.0001	0.0395	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>CV(%)</b>	24.16	4.06	7.24	6.63	8.09	6.14	3.25	2.46	1.06	4.49	4.70	5.71	18.25	18.73	15.42
<b>R-Square</b>	0.44	0.68	0.58	0.67	0.40	0.76	0.70	0.74	0.55	0.81	0.83	0.62	0.73	0.68	0.73
<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 (Quality Score) - 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).