

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Mississippi State, Mississippi (Cooperator: Jack McCarty).

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	%	%			
Ark 1015-42	<b>1404</b>	<b>46.03</b>	<b>8.02</b>	5.08	29.17	9.40	<b>4.90</b>	<b>1.21</b>	83.48	32.35	6.50	7.30	<b>72.50</b>	70.25	<b>75.75</b>
MS 2010-87-5	<b>1403</b>	<b>46.93</b>	<b>8.48</b>	5.31	29.34	9.60	4.74	1.14	83.28	32.13	6.00	7.58	58.25	62.75	64.25
GA 2012141	<b>1334</b>	43.70	7.07	5.22	32.36	9.10	4.70	1.15	82.73	29.83	6.38	7.70	58.50	59.50	65.25
LA14063075	<b>1332</b>	45.13	6.66	4.51	30.53	8.10	4.54	1.18	83.58	33.70	5.98	7.35	71.75	72.00	<b>76.50</b>
GA 2015024	<b>1311</b>	45.20	7.01	4.77	30.76	8.50	4.59	1.19	81.55	30.70	6.08	7.93	65.25	55.25	74.75
TAM 12J-39	<b>1304</b>	44.75	<b>8.10</b>	5.64	31.18	10.00	<b>5.03</b>	1.14	83.65	<b>35.05</b>	6.20	7.25	52.50	66.00	59.00
Ark 1005-35	<b>1266</b>	42.92	6.85	4.48	28.12	9.10	4.51	1.19	82.83	33.75	6.40	7.65	71.75	66.75	<b>78.25</b>
LA11309040	<b>1244</b>	45.51	6.42	4.83	36.66	7.70	<b>4.93</b>	1.11	82.03	30.55	7.00	7.58	40.75	47.50	51.00
TAM 13S-03	<b>1242</b>	41.74	6.95	4.77	28.66	9.70	4.26	1.14	83.15	31.03	7.10	7.73	60.00	63.00	66.25
UA 222 CK	<b>1227</b>	43.79	<b>7.86</b>	4.84	27.01	10.10	4.51	1.17	83.05	31.05	<b>7.35</b>	7.45	66.00	64.75	71.50
Ark 1005-41	<b>1208</b>	43.23	<b>7.83</b>	5.38	29.67	10.30	4.76	1.18	83.38	32.75	6.83	7.30	69.25	68.25	73.75
PD2011026	<b>1199</b>	41.82	7.49	5.28	29.80	10.40	4.71	1.18	83.38	34.88	6.33	7.20	70.00	70.75	<b>76.00</b>
TAM LBB150921	<b>1195</b>	40.65	<b>8.27</b>	<b>6.06</b>	29.78	<b>12.10</b>	4.77	<b>1.25</b>	<b>85.33</b>	<b>36.83</b>	<b>7.15</b>	6.70	<b>90.75</b>	<b>94.50</b>	<b>91.50</b>
TAM LBB150107	<b>1191</b>	43.54	7.01	4.53	28.10	9.10	<b>5.08</b>	1.15	<b>85.15</b>	34.93	<b>7.15</b>	6.63	57.50	76.75	59.50
LA14063083	<b>1186</b>	43.52	7.62	5.16	29.56	9.90	4.59	1.16	82.73	31.38	6.70	8.13	62.00	60.75	68.75
Ark 1007-15	<b>1171</b>	41.59	7.62	5.31	29.00	10.70	4.35	1.18	82.08	31.05	5.88	<b>8.43</b>	68.75	59.25	<b>77.00</b>
TAM LBB150824	1149	41.40	<b>7.83</b>	<b>5.81</b>	30.71	11.10	4.74	<b>1.25</b>	82.85	<b>37.33</b>	6.55	7.43	<b>83.75</b>	75.25	<b>91.00</b>
FM 958 CK	1122	42.89	7.59	5.20	29.44	10.10	4.73	1.14	81.70	32.00	5.78	7.78	53.25	50.75	63.75
DP 393 CK	1061	43.36	7.34	5.15	30.42	9.60	4.78	1.14	83.55	32.85	6.75	7.20	57.25	64.50	62.25
Ark 1004-38	1061	42.72	<b>8.12</b>	5.21	27.39	10.90	4.37	<b>1.23</b>	83.30	32.25	5.83	7.40	<b>81.75</b>	72.75	<b>85.25</b>
DP 493 CK	1056	<b>46.48</b>	7.03	4.42	29.18	8.10	<b>5.03</b>	1.05	81.23	28.15	5.88	<b>8.85</b>	25.00	34.00	36.75
16-13P1115	935	41.91	7.58	5.55	30.70	10.50	4.36	1.13	83.38	<b>35.05</b>	5.98	7.00	58.50	65.75	65.75
PD2011081	934	39.59	6.55	4.74	28.61	10.00	4.53	1.12	82.60	29.90	6.43	7.33	51.75	50.50	55.75
PD2011021	905	40.62	7.18	4.88	27.53	10.50	4.46	1.11	81.50	31.40	6.53	7.55	45.75	46.50	58.00
<b>Mean</b>	1185	43.29	7.44	5.09	29.74	9.78	4.66	1.16	82.98	32.54	6.45	7.52	62.19	63.25	68.65
<b>LSD (.05)</b>	234	1.41	0.75	0.37	ns	0.97	0.29	0.05	1.37	2.31	0.24	0.65	18.32	15.59	16.10
<b>Entry (P&gt;F)</b>	0.0006	<0.0001	<0.0001	<0.0001	0.0594	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>CV(%)</b>	14.02	2.30	7.11	5.19	10.26	7.05	4.36	3.16	1.17	5.02	2.61	6.09	20.89	17.47	16.63
<b>R-Square</b>	0.72	0.84	0.63	0.81	0.40	0.77	0.68	0.68	0.63	0.73	0.92	0.64	0.63	0.65	0.62
<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).