

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2020 RBTN at Mississippi State, Mississippi (Cooperator: Ted Wallace).

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	%	%			
TAM 14 E-12	<b>917</b>	<b>42.29</b>	<b>7.65</b>	5.68	<b>31.41</b>	10.35	4.70	1.17	83.05	<b>32.08</b>	6.38	7.08	38.25	44.50	49.75
DP 493 CK	<b>888</b>	<b>41.58</b>	6.61	5.27	<b>33.17</b>	9.18	<b>4.73</b>	1.16	83.23	31.18	5.43	<b>7.83</b>	37.00	46.50	47.75
TAM 14 B-72	<b>882</b>	39.61	6.62	5.04	30.25	9.98	4.28	1.20	<b>84.43</b>	<b>33.03</b>	5.98	6.95	55.25	61.25	61.75
Ark 1207-11	<b>861</b>	39.34	6.48	5.18	<b>31.51</b>	9.88	4.47	1.24	<b>85.33</b>	31.73	<b>6.50</b>	6.58	68.00	<b>72.75</b>	71.25
DP 393 CK	<b>860</b>	40.07	<b>7.69</b>	<b>6.53</b>	<b>33.95</b>	<b>11.40</b>	<b>5.05</b>	1.20	<b>84.25</b>	<b>32.58</b>	6.45	6.80	43.00	55.00	50.00
Ark 1208-39	<b>860</b>	39.91	<b>7.49</b>	5.09	27.16	<b>11.13</b>	4.43	1.25	<b>84.95</b>	30.78	<b>6.70</b>	6.48	<b>73.25</b>	<b>71.75</b>	76.75
Ark 1208-21	<b>860</b>	40.36	<b>7.78</b>	5.66	29.44	<b>11.33</b>	4.51	<b>1.29</b>	<b>85.18</b>	<b>33.23</b>	<b>6.70</b>	6.08	<b>83.50</b>	<b>78.50</b>	<b>86.25</b>
Ark 1207-32	<b>833</b>	40.43	7.12	5.54	<b>31.51</b>	10.38	4.37	<b>1.26</b>	<b>85.25</b>	30.23	6.43	6.38	<b>76.75</b>	<b>75.00</b>	<b>79.00</b>
Ark 1214-42	<b>808</b>	<b>41.67</b>	<b>8.02</b>	5.88	30.55	<b>11.13</b>	4.53	<b>1.28</b>	<b>85.20</b>	<b>32.25</b>	6.13	6.18	<b>81.25</b>	<b>76.50</b>	<b>83.25</b>
PD 2012066	<b>746</b>	39.75	7.25	5.76	<b>31.68</b>	<b>10.88</b>	<b>4.85</b>	1.24	83.48	31.38	5.88	6.63	56.25	54.75	65.00
FM 958 CK	724	39.64	7.10	5.44	30.29	<b>10.63</b>	4.46	1.21	84.00	<b>32.63</b>	5.50	6.80	56.25	58.75	64.25
PD 2013041	709	38.50	7.23	5.67	30.20	<b>11.43</b>	4.38	<b>1.26</b>	<b>84.80</b>	<b>34.03</b>	5.88	6.43	<b>75.25</b>	<b>72.25</b>	<b>79.50</b>
PD 2012011	696	38.58	6.10	4.96	<b>31.39</b>	9.55	4.06	1.24	84.05	<b>33.63</b>	5.70	6.63	66.00	63.25	73.25
PD 2013016	696	40.38	7.19	5.44	30.53	10.55	4.49	1.23	83.35	<b>33.98</b>	5.65	7.23	59.50	55.75	69.25
UA 222 CK	610	39.70	7.30	5.61	30.40	<b>10.95</b>	4.40	<b>1.26</b>	83.95	31.08	<b>6.75</b>	6.60	70.00	63.25	76.00
PD 2012037	587	38.03	6.49	5.58	<b>32.70</b>	10.48	4.39	<b>1.27</b>	<b>84.20</b>	31.78	6.00	6.28	<b>75.25</b>	<b>67.25</b>	<b>80.25</b>
<b>Mean</b>	784	39.99	7.13	5.52	31.01	10.57	4.51	1.23	84.29	32.22	6.13	6.68	63.42	63.56	69.58
<b>LSD (.05)</b>	181	1.12	0.59	0.55	2.80	0.84	0.32	0.03	1.25	2.03	0.27	0.50	12.09	12.25	9.21
<b>Entry (P&gt;F)</b>	0.0065	<0.0001	<0.0001	0.0002	0.0073	<0.0001	<0.0001	<0.0001	0.0021	0.0065	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>CV(%)</b>	16.26	1.97	5.81	7.05	6.34	5.59	5.05	1.75	1.04	4.42	3.11	5.26	13.39	13.53	9.30
<b>R-Square</b>	0.64	0.75	0.70	0.65	0.56	0.64	0.60	0.81	0.52	0.50	0.88	0.68	0.80	0.67	0.83
<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).