

Table 3. Least square means for lint yield, yield components and fiber quality traits in the 2021 RBTN at Florence, South Carolina (Cooperator: Todd Campbell).

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	%	%			
MS 2010-28-27	<b>1431</b>	41.35	7.47	5.30	29.34	5.13	4.85	1.22	<b>85.48</b>	35.00	6.93	5.20	64.75	<b>66.50</b>	70.75
DP 393 CK	<b>1315</b>	38.89	7.31	5.12	27.38	5.65	4.92	1.19	<b>85.88</b>	35.78	7.23	5.58	55.25	<b>65.75</b>	61.75
LA19073070	<b>1283</b>	38.41	7.16	5.65	<b>30.29</b>	5.55	<b>5.05</b>	1.13	85.03	<b>38.08</b>	7.35	4.98	37.00	54.25	48.75
MS 2010-66-16	<b>1255</b>	41.32	7.86	5.66	<b>29.78</b>	5.43	4.87	1.21	<b>85.43</b>	35.08	6.28	5.55	60.50	<b>64.00</b>	67.00
MS 2010-96-9	<b>1238</b>	<b>42.33</b>	7.96	6.00	<b>31.91</b>	5.25	<b>5.24</b>	1.18	<b>85.80</b>	<b>37.15</b>	6.68	5.35	47.25	63.00	54.50
Ark 1301-16	<b>1235</b>	40.98	<b>9.26</b>	<b>6.71</b>	<b>29.77</b>	<b>6.48</b>	<b>5.08</b>	<b>1.24</b>	<b>85.65</b>	33.23	<b>7.53</b>	5.43	64.75	<b>66.00</b>	69.00
MS 2010-87-37	<b>1226</b>	39.72	7.60	5.24	27.38	5.55	4.86	<b>1.26</b>	<b>86.15</b>	<b>37.18</b>	5.73	4.75	<b>76.75</b>	<b>77.00</b>	<b>80.75</b>
MS 2010-87-5	1169	41.27	7.71	5.80	<b>31.04</b>	5.30	4.95	1.21	<b>85.85</b>	35.35	6.40	5.15	58.75	<b>66.75</b>	64.50
Ark 1308-58	1158	40.23	8.15	6.09	<b>30.08</b>	5.90	<b>5.01</b>	<b>1.25</b>	<b>85.78</b>	33.10	<b>7.68</b>	4.93	<b>68.25</b>	<b>68.50</b>	72.00
MS 2010-87-42	1148	41.69	7.64	5.52	<b>30.13</b>	5.18	4.77	1.23	<b>85.83</b>	35.38	6.10	5.23	<b>69.50</b>	<b>70.75</b>	<b>74.50</b>
Ark 1317-31	1125	38.52	7.63	5.79	29.23	5.93	4.65	<b>1.27</b>	<b>86.28</b>	34.28	7.03	4.58	<b>82.50</b>	<b>77.75</b>	<b>84.00</b>
DP 493 CK	1105	40.17	6.61	5.05	<b>30.70</b>	4.73	4.96	1.16	83.98	34.10	6.20	<b>6.30</b>	41.25	46.50	52.75
CSX5432	1101	<b>43.61</b>	7.72	4.54	25.73	4.90	4.67	<b>1.26</b>	<b>85.48</b>	35.85	6.28	4.85	<b>77.50</b>	<b>71.75</b>	<b>82.75</b>
TAM 14E-12	1048	40.81	7.51	5.25	28.59	5.23	4.73	1.18	84.38	33.35	7.25	<b>6.13</b>	49.00	51.00	58.50
TAM 14B-72	1035	38.04	6.49	5.00	29.29	5.18	4.84	1.20	84.18	34.63	6.05	<b>5.88</b>	55.50	52.50	65.25
UA 222 CK	1033	39.19	7.48	5.56	29.13	5.60	4.93	1.22	84.78	32.85	<b>7.85</b>	<b>5.93</b>	58.25	58.00	66.00
Ark 1311-18	1033	41.27	7.42	5.07	28.09	5.05	4.39	<b>1.26</b>	<b>85.18</b>	34.88	6.95	5.18	<b>75.75</b>	<b>68.00</b>	<b>81.75</b>
FM 958 CK	1019	38.70	7.49	5.71	29.47	5.78	4.81	1.22	<b>85.10</b>	<b>36.70</b>	5.90	5.58	62.75	<b>64.00</b>	71.00
OA-11	1001	41.58	7.73	5.03	27.10	5.23	<b>5.14</b>	1.16	<b>85.93</b>	35.23	<b>7.65</b>	4.88	41.75	60.25	48.25
GA 2016090	953	40.47	7.51	5.56	<b>29.96</b>	5.38	4.66	1.23	<b>85.20</b>	<b>37.20</b>	6.18	5.15	<b>69.25</b>	<b>67.50</b>	<b>77.25</b>
Ark 1309-56	931	<b>41.98</b>	8.56	5.91	29.03	5.73	4.92	<b>1.28</b>	<b>85.48</b>	<b>36.85</b>	6.25	4.85	<b>79.75</b>	<b>73.50</b>	<b>85.25</b>
OA-133	911	39.10	6.39	4.88	<b>29.93</b>	4.83	4.92	1.17	84.90	34.30	6.60	<b>5.83</b>	47.25	54.25	56.00
OA-13	846	40.14	7.33	5.11	28.01	5.28	<b>5.05</b>	1.19	<b>85.50</b>	<b>36.85</b>	7.10	5.18	52.00	62.75	60.00
LA19073002	779	37.51	6.75	5.43	<b>30.19</b>	5.43	<b>5.09</b>	1.15	84.50	34.88	6.53	<b>5.98</b>	35.75	47.50	46.50
TAMLBB16507	741	36.52	7.53	6.07	<b>29.53</b>	<b>6.35</b>	4.36	<b>1.25</b>	<b>85.33</b>	35.18	5.93	5.45	<b>75.50</b>	<b>69.25</b>	<b>81.25</b>
GA 2016029	682	<b>41.98</b>	7.45	5.71	<b>32.18</b>	4.98	4.71	1.20	84.65	<b>37.85</b>	6.30	5.50	59.00	60.50	70.25
TAMLBB17206	669	35.88	6.73	5.60	<b>29.90</b>	5.83	4.59	1.22	84.73	34.03	5.93	<b>6.63</b>	64.25	60.50	72.75
GA 2015026	613	40.71	7.11	5.42	<b>31.05</b>	5.03	4.68	1.23	<b>85.78</b>	35.30	6.18	5.63	<b>70.00</b>	<b>70.25</b>	<b>75.00</b>
<b>Mean</b>	1039	40.09	7.48	5.49	29.44	5.42	4.85	1.21	85.29	35.34	6.64	5.41	60.71	63.51	67.79
<b>LSD (.05)</b>	209	1.70	0.56	0.51	2.70	0.36	0.27	0.04	1.23	1.98	0.43	0.90	15.10	14.16	11.84
<b>Entry (P&gt;F)</b>	<0.0001	<0.0001	<0.0001	<0.0001	0.0027	<0.0001	<0.0001	<0.0001	0.0140	<0.0001	<0.0001	0.0011	<0.0001	0.0004	<0.0001
<b>CV(%)</b>	14.32	3.01	5.29	6.57	6.52	4.78	3.96	2.24	1.02	3.98	4.64	11.77	17.68	15.84	12.41
<b>R-Square</b>	0.76	0.77	0.76	0.68	0.44	0.79	0.65	0.72	0.44	0.63	0.85	0.45	0.67	0.49	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 (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).