

Table 4. Least square means for lint yield, yield components and fiber quality traits in the 2022 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	%	%			
TAM 17 WSE-66	<b>954</b>	35.41	6.49	<b>6.18</b>	<b>33.73</b>	11.60	4.68	1.363	85.28	<b>38.28</b>	5.85	3.80	<b>92.50</b>	<b>83.25</b>	<b>97.00</b>
OA-22-2	<b>928</b>	41.95	6.59	5.03	<b>32.02</b>	8.90	4.91	1.262	84.75	36.65	5.88	5.30	68.00	68.25	75.00
AU90098	<b>863</b>	38.85	<b>7.06</b>	5.43	29.92	10.70	5.01	1.216	84.48	33.53	6.25	<b>5.73</b>	51.25	57.50	58.50
Ark 1414-28	<b>862</b>	38.24	6.75	5.49	31.12	10.55	5.09	1.233	<b>85.38</b>	35.40	6.70	5.43	58.00	67.25	62.75
AU72028	<b>826</b>	38.03	6.69	5.49	31.21	10.60	<b>5.26</b>	1.202	84.03	33.65	6.60	<b>5.95</b>	41.50	50.75	51.25
MS2010-87-44	<b>816</b>	37.88	6.66	5.23	29.75	10.55	5.12	1.222	85.13	35.85	6.50	5.33	53.75	64.25	60.25
Ark 1406-21	<b>809</b>	39.90	6.47	5.14	<b>31.75</b>	9.45	5.24	1.234	85.15	33.60	6.65	5.38	54.25	63.75	59.50
Ark 1410-56	<b>803</b>	37.97	<b>7.07</b>	5.66	30.43	11.35	4.98	1.213	85.20	36.15	6.50	5.15	53.75	65.00	60.50
Ark 1414-47	<b>795</b>	38.63	<b>7.23</b>	5.33	28.51	11.20	<b>5.39</b>	1.205	84.68	35.85	6.20	5.68	43.00	57.00	51.00
CSX5432	<b>794</b>	<b>43.58</b>	<b>7.47</b>	4.94	29.04	9.45	5.11	1.245	84.45	35.58	6.33	5.40	58.25	61.25	65.50
TAM 17 WSH-12	<b>781</b>	40.58	6.87	4.88	28.86	9.65	5.08	1.203	84.10	31.45	7.35	5.68	45.00	52.00	53.75
OA-22-1	<b>777</b>	37.24	5.96	5.20	<b>32.52</b>	9.75	4.48	1.254	84.93	36.25	5.98	5.33	70.75	70.00	77.00
DP 493 CK	757	38.97	6.45	5.10	30.88	9.80	<b>5.51</b>	1.166	83.20	34.15	6.05	<b>6.33</b>	26.25	38.75	39.00
Ark 1410-32	754	36.45	6.72	5.24	28.43	11.40	4.92	1.215	84.45	35.25	5.85	<b>5.88</b>	52.75	58.75	61.00
MS 2010-66-16	750	41.04	<b>7.12</b>	5.41	31.17	9.95	4.98	1.185	84.30	34.80	6.68	<b>5.83</b>	44.00	54.00	53.25
TAM 17 SHK-43	749	37.36	6.96	<b>5.97</b>	<b>32.15</b>	11.35	5.09	1.281	84.08	33.98	6.35	5.00	67.25	61.00	74.00
UA 222 CK	743	38.27	<b>7.49</b>	5.64	28.81	11.70	<b>5.32</b>	1.234	84.98	32.85	<b>7.85</b>	5.38	52.50	61.00	57.75
MS 2010-87-42	731	38.90	6.67	5.73	<b>33.54</b>	10.15	<b>5.40</b>	1.186	83.18	33.45	6.45	<b>6.50</b>	32.75	40.75	44.75
TAM 18 SHA-27	712	37.48	6.54	5.31	30.47	10.60	4.97	1.286	84.98	<b>38.25</b>	6.05	4.68	74.75	74.00	81.50
MS 2010-87-37	711	39.86	7.03	5.44	30.93	10.25	5.19	1.205	84.30	35.60	5.88	<b>5.90</b>	44.75	54.75	54.25
Ark 1414-43	692	38.29	6.81	4.96	27.96	10.65	<b>5.26</b>	1.255	<b>85.45</b>	36.15	6.38	5.18	61.75	70.00	66.25
DP 393 CK	689	38.25	6.96	5.33	29.26	10.90	<b>5.44</b>	1.188	84.10	33.98	7.38	<b>5.95</b>	35.25	48.50	44.50
MS 2010-28-27	669	38.48	6.61	5.46	<b>31.78</b>	10.25	5.17	1.215	85.20	36.08	6.93	5.23	51.00	64.00	57.50
TAM 17 WSG-51	631	34.31	6.78	<b>6.10</b>	30.90	<b>12.85</b>	4.74	<b>1.432</b>	<b>86.53</b>	36.20	6.63	3.70	<b>94.25</b>	<b>89.00</b>	<b>94.00</b>
TAM 17 WSE-68	624	33.89	6.42	5.73	30.20	12.20	4.60	1.371	85.08	35.80	6.40	3.85	<b>91.50</b>	<b>79.25</b>	<b>95.00</b>
MS 2010-96-8	604	35.68	6.51	5.72	<b>31.38</b>	11.35	5.15	1.216	84.70	35.55	6.53	5.33	50.25	60.00	57.50
OA-22-3	589	41.30	6.32	4.77	31.17	8.60	4.95	1.205	83.90	<b>37.55</b>	6.05	<b>6.00</b>	48.50	55.50	60.50
FM 958 CK	551	35.58	6.41	5.57	30.87	11.30	5.17	1.250	83.98	34.68	6.10	5.58	57.00	56.50	65.50
<b>Mean</b>	749	38.30	6.75	5.41	30.67	10.61	5.08	1.241	84.64	35.23	6.44	5.37	56.23	61.64	63.51
<b>LSD (.05)</b>	188	1.44	0.46	0.40	2.43	0.61	0.26	0.036	1.16	1.46	0.32	0.78	13.19	12.26	10.58
<b>Entry (P&gt;F)</b>	0.0055	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
<b>CV(%)</b>	17.85	2.67	4.85	5.32	5.64	4.10	3.69	2.04	0.98	2.95	3.58	10.27	16.67	14.14	11.84
<b>R-Square</b>	0.49	0.86	0.62	0.68	0.54	0.87	0.72	0.88	0.52	0.76	0.86	0.68	0.82	0.71	0.84
<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).