

Table 12. Least square means for lint yield, yield components, and fiber quality traits in the 2020 RBTN at Suffolk, Virginia (Cooperator: Hunter Frame).

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 1207-11	<b>1308</b>	39.76	6.78	4.95	<b>29.02</b>	9.93	4.43	<b>1.28</b>	85.87	30.10	8.47	4.03	<b>73.00</b>	<b>69.67</b>	<b>77.00</b>
Ark 1207-32	<b>1292</b>	42.06	8.04	5.34	27.95	10.85	<b>4.58</b>	<b>1.27</b>	86.03	29.43	8.10	4.07	<b>73.00</b>	<b>70.67</b>	<b>76.67</b>
Ark 1214-42	<b>1274</b>	42.15	<b>8.43</b>	<b>5.55</b>	27.77	11.17	4.44	<b>1.27</b>	86.03	<b>31.33</b>	7.57	4.40	<b>71.33</b>	<b>70.33</b>	<b>74.67</b>
Ark 1208-39	<b>1269</b>	41.07	<b>8.43</b>	5.16	25.13	<b>11.76</b>	4.55	1.26	85.93	30.47	8.17	4.47	<b>67.33</b>	<b>68.00</b>	71.33
TAM 14 E-12	<b>1251</b>	<b>43.30</b>	<b>8.32</b>	<b>5.56</b>	<b>28.98</b>	10.69	4.44	1.23	84.50	30.47	7.90	5.60	56.33	53.33	65.33
Ark 1208-21	<b>1232</b>	41.31	<b>8.73</b>	5.31	25.16	<b>12.07</b>	4.51	<b>1.29</b>	86.50	30.80	8.33	4.17	<b>75.67</b>	<b>75.00</b>	<b>78.00</b>
DP 393 CK	1126	41.99	8.11	<b>5.65</b>	<b>29.24</b>	10.96	<b>4.80</b>	1.23	85.27	<b>32.00</b>	7.50	5.37	50.67	56.67	58.00
UA 222 CK	1069	40.13	7.87	<b>5.51</b>	28.08	<b>11.45</b>	<b>4.64</b>	1.26	85.47	30.30	<b>9.07</b>	4.70	64.67	<b>64.00</b>	70.67
FM 958 CK	1058	40.64	7.70	<b>5.68</b>	<b>30.05</b>	11.03	4.42	1.22	85.37	<b>31.53</b>	6.57	5.47	56.33	59.67	63.33
TAM 14 B-72	1045	40.75	7.13	<b>5.47</b>	<b>31.40</b>	10.21	4.53	1.22	85.33	30.77	6.63	5.83	54.33	58.67	62.33
DP 493 CK	900	<b>42.95</b>	6.74	4.68	<b>29.80</b>	8.71	<b>4.62</b>	1.17	84.07	30.43	6.40	<b>6.90</b>	37.33	43.00	49.33
PD 2012011	878	37.22	6.46	5.24	<b>30.20</b>	10.76	3.91	<b>1.29</b>	85.87	<b>32.37</b>	7.10	4.00	<b>73.33</b>	<b>70.00</b>	<b>77.00</b>
PD 2012066	810	38.49	6.65	5.33	<b>30.94</b>	10.39	4.18	1.24	85.00	30.07	7.33	5.03	60.00	58.33	68.00
PD 2013041	711	39.49	7.29	5.33	<b>28.86</b>	10.93	3.95	<b>1.28</b>	85.33	<b>32.33</b>	7.20	4.13	<b>73.00</b>	<b>66.33</b>	<b>79.00</b>
PD 2013016	644	39.98	7.04	<b>5.53</b>	<b>31.45</b>	10.28	4.15	<b>1.30</b>	85.77	<b>32.27</b>	6.70	4.10	<b>79.33</b>	<b>71.67</b>	<b>83.00</b>
PD 2012037	637	37.29	6.28	5.19	<b>30.83</b>	10.32	3.92	1.26	85.10	30.17	7.27	4.90	65.67	61.33	72.67
<b>Mean</b>	1032	40.54	7.50	5.34	29.05	10.72	4.38	1.25	85.46	30.93	7.52	4.82	64.46	63.54	70.40
<b>LSD (.05)</b>	150	1.15	0.49	0.29	2.61	0.83	0.24	0.04	—	1.25	0.50	0.97	13.53	13.22	10.31
<b>Entry (P&gt;F)</b>	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	0.0731	0.0002	<0.0001	<0.0001	<0.0001	0.0025	<0.0001
<b>CV(%)</b>	10.18	1.70	3.95	3.23	5.39	4.66	3.32	1.74	0.91	2.43	4.01	12.09	12.59	12.47	8.79
<b>R-Square</b>	0.88	0.91	0.92	0.78	0.70	0.79	0.85	0.78	0.49	0.71	0.91	0.75	0.74	0.63	0.76
<b>Reps</b>	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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).