Table 12. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at Suffolk, VA (Cooperator: Hunter Frame).

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1[1]	QS2[1]	QS3[1]
	lb/A	%	grams	grams	#	grams	mic	%	%	g/tex	%	%			
LA14063046	**1638**	**43.42**	**7.53**	5.13	29.62	9.60	4.46	1.25	**84.53**	29.93	7.08	7.35	**71.25**	**67.25**	76.50
Ark 0912-18	**1622**	40.86	**7.87**	5.83	30.28	**10.75**	**4.79**	1.24	**85.68**	29.65	**8.00**	6.85	66.00	**72.25**	67.25
Ark 0911-13	**1565**	42.15	**7.59**	5.62	31.24	10.24	**4.68**	1.26	**85.10**	27.93	**7.85**	7.20	67.75	**66.00**	68.25
Ark 0921-27ne	**1563**	40.95	6.81	5.26	31.72	9.61	**4.80**	1.20	84.40	30.75	6.73	7.20	50.50	58.00	57.75
AU 90098	**1540**	**43.71**	**7.98**	5.03	27.64	9.93	4.40	1.23	84.23	30.40	6.03	7.55	63.50	**62.25**	70.25
LA14063083	**1494**	**43.36**	**7.72**	5.28	29.93	9.77	**4.52**	1.25	**84.78**	29.80	**7.73**	7.23	**69.75**	**68.25**	74.00
Ark 0908-60	**1469**	41.78	**7.50**	5.42	30.19	10.04	**4.67**	1.24	**84.60**	28.70	7.03	7.45	65.00	**65.25**	70.50
GA 2015032	**1468**	41.44	6.83	5.53	33.59	9.18	**4.54**	1.23	**84.75**	29.90	6.53	7.08	66.00	**66.50**	70.75
Ark 0921-31ne	**1458**	41.01	**7.04**	5.42	31.59	9.90	4.42	1.22	**85.53**	29.88	**8.05**	6.90	66.75	**72.25**	69.50
UA 222 CK	**1446**	41.25	**8.08**	5.72	29.50	**11.28**	**4.63**	1.24	84.35	28.93	**7.80**	7.33	63.25	**62.50**	69.50
GA 2012141	**1427**	41.90	**7.48**	5.35	30.05	9.95	4.38	1.24	**84.95**	28.53	6.55	7.25	68.75	**69.00**	73.00
FM 958 CK	**1427**	40.48	**7.35**	5.78	32.33	**10.51**	4.37	1.25	**84.90**	**32.18**	6.15	7.10	**71.25**	**69.25**	75.25
LA14063038	**1422**	42.23	5.48	5.44	107.45	7.22	**4.55**	1.25	84.00	**32.23**	6.03	7.63	68.75	**62.50**	75.50
LA14063101	1371	**44.38**	**7.76**	5.17	29.43	9.26	**4.60**	1.23	**85.00**	29.98	6.85	7.28	63.50	**67.25**	68.00
TAM 13Q-51	1361	40.44	**7.57**	5.33	28.63	**11.04**	**4.82**	**1.28**	**85.25**	**31.58**	7.08	7.15	**74.00**	**73.00**	76.00
PD 07040	1328	38.79	**7.37**	5.78	30.47	**11.21**	**4.63**	1.23	83.85	29.20	6.43	7.53	61.50	58.75	69.50
DP 393 CK	1325	40.10	**7.23**	5.24	29.04	**10.49**	**4.65**	1.19	84.23	29.58	7.18	7.58	46.75	55.00	54.75
PD 08028	1324	38.51	6.71	5.83	33.53	**10.40**	**4.51**	1.22	84.40	30.43	6.53	7.30	60.25	**61.75**	66.75
TAM 13Q-18	1316	40.07	6.77	5.60	33.35	9.82	4.34	1.19	83.28	29.43	6.55	7.78	47.75	48.75	58.50
GA 2015073	1288	40.49	6.84	5.42	32.11	9.49	4.45	1.22	**84.60**	29.15	7.25	7.10	62.50	**64.25**	68.25
LA14063001	1266	**43.02**	**7.98**	5.74	31.02	10.12	4.35	1.23	84.20	**31.05**	6.93	7.38	64.75	**62.00**	71.25
GA 2015090	1264	42.16	**7.02**	5.56	33.43	9.54	4.44	1.23	84.40	30.08	6.98	7.30	65.25	**63.75**	71.50
Tamcot G11	1251	39.67	**8.04**	6.01	29.79	**11.74**	4.23	**1.31**	83.78	29.43	6.10	7.03	**82.25**	**66.50**	**88.50**
TAM LBB131001	1235	40.15	6.19	4.97	32.32	8.92	3.94	**1.28**	84.40	30.90	6.35	7.48	**78.50**	**69.00**	**83.25**
TAM WK-11L	1227	38.98	6.85	5.31	30.27	10.12	4.41	1.17	84.28	29.48	7.25	7.50	47.75	55.50	55.75
TAM 13S-03	1179	39.87	**7.51**	5.51	29.31	**11.21**	4.27	1.24	**85.28**	29.30	**7.65**	7.05	68.25	**71.25**	71.50
DP 493 CK	1120	**42.65**	6.69	5.10	32.57	8.62	**4.59**	1.16	82.40	28.38	5.83	**8.35**	35.25	35.75	47.25
PD 2013016	1067	41.87	**7.27**	5.26	30.56	10.00	4.30	**1.28**	**84.70**	**31.58**	5.53	7.13	**81.25**	**72.00**	**84.75**
NM 16-13P1088B	1041	38.44	**7.44**	5.74	29.72	**11.42**	4.31	1.21	84.48	**31.88**	6.83	7.18	58.75	**61.50**	65.00
TAM LBB130218	1023	38.83	6.79	5.42	31.45	**10.69**	4.05	1.21	83.40	30.53	6.35	7.68	55.00	53.00	64.75
Acala 1517-08	1002	38.74	6.84	5.33	30.47	**10.45**	**4.65**	1.21	**84.85**	**31.95**	6.43	6.85	59.50	**64.50**	64.75
NM 13R1015	992	39.69	6.46	4.85	29.97	9.66	4.45	1.17	83.63	**31.18**	6.80	7.18	46.00	50.75	56.00
PD 09046	976	35.89	5.94	5.49	33.14	**10.32**	4.09	**1.30**	83.20	30.35	5.48	7.53	**78.00**	61.25	**86.25**
Mean	1318	40.83	7.17	5.44	33.20	10.08	4.46	1.23	84.40	30.13	6.78	7.32	63.49	62.93	69.40
LSD (.05)	216	2.06	1.15	ns	ns	1.48	0.32	0.04	1.14	1.24	0.43	0.52	12.55	11.70	10.12
Cultivar (P>F)	<0.0001	<0.0001	0.0012	0.0531	0.4402	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001
CV(%)	11.67	3.59	11.41	8.09	79.63	10.44	5.09	2.20	0.97	2.94	4.56	5.10	14.08	13.25	10.39
R-Square	0.72	0.69	0.45	0.46	0.28	0.52	0.56	0.70	0.50	0.69	0.87	0.46	0.67	0.55	0.69
Reps	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).

[1]QS1, QS2, and QS3 = Represent values for "Qscore", 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).