

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2018 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 ¹	QS2 ¹	QS3 ¹
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
MS 2010-87-5	1062	43.89	9.46	5.87	27.24	11.57	4.81	1.22	84.98	33.68	7.75	7.55	65.00	67.25	69.50
DP 393 CK	1035	39.05	7.93	5.40	26.88	11.84	5.06	1.17	84.43	32.80	9.40	7.88	44.75	55.25	52.25
Ark 1005-35	994	39.90	8.02	5.06	25.20	11.50	5.24	1.21	84.53	33.68	8.53	7.58	54.50	59.75	60.50
Ark 1007-15	877	38.92	7.80	5.01	25.40	11.80	4.92	1.21	83.18	31.18	7.88	8.48	54.50	50.00	64.75
GA 2012141	850	39.44	7.48	5.10	26.91	11.01	5.03	1.19	84.75	32.15	8.63	7.70	51.25	60.00	57.25
UA 222 CK	846	41.43	9.34	5.67	25.16	12.61	4.86	1.21	84.45	31.63	10.03	7.93	60.50	61.50	66.50
LA14063075	836	40.99	8.25	5.15	25.95	11.35	4.42	1.25	85.58	34.38	7.90	7.23	81.50	79.00	84.00
TAM 13S-03	823	38.51	7.77	5.13	25.64	11.91	4.90	1.18	84.23	30.35	10.25	7.85	51.00	56.25	58.75
Ark 1015-42	820	39.50	8.03	4.88	24.26	11.80	4.70	1.24	84.13	31.68	8.63	7.70	71.00	63.25	77.25
Ark 1005-41	799	39.86	9.21	5.47	23.64	13.77	5.30	1.21	84.60	32.78	9.00	7.78	53.25	59.75	58.75
LA14063083	794	40.78	9.01	5.78	26.53	12.72	4.91	1.19	84.40	32.45	9.38	8.03	53.50	58.25	60.25
LA11309040	776	42.16	9.95	5.19	22.95	13.58	5.15	1.15	83.53	31.88	9.95	8.05	33.75	44.25	44.75
TAM LBB150921	758	34.61	6.53	6.02	32.60	11.89	4.85	1.24	85.00	33.43	9.28	7.50	70.75	70.00	75.25
Ark 1004-38	746	39.52	12.22	5.28	18.16	17.84	4.97	1.27	86.03	32.18	7.70	7.10	81.00	80.75	81.00
GA 2015024	699	39.87	7.62	5.51	28.92	11.16	4.43	1.25	84.50	32.10	8.23	7.55	75.50	67.75	80.25
DP 493 CK	668	42.46	11.85	5.01	19.95	15.68	4.84	1.13	83.28	31.58	8.38	8.35	34.00	42.50	46.00
PD2011026	626	37.34	8.89	4.92	20.89	14.52	4.73	1.21	84.58	33.93	8.75	7.70	65.25	64.50	71.25
FM 958 CK	570	37.34	7.42	5.69	29.23	12.58	4.91	1.19	84.75	33.28	7.73	7.85	54.00	61.50	60.25
TAM LBB150107	569	39.45	7.75	4.60	23.44	11.57	4.91	1.25	86.28	33.88	9.35	7.10	75.75	80.00	75.75
PD2011081	535	36.29	9.59	5.13	20.36	16.14	4.49	1.21	84.00	32.65	8.30	7.78	64.00	59.75	71.00
TAM 12J-39	516	38.45	8.02	5.72	27.49	12.49	4.98	1.15	84.58	37.45	8.65	7.80	44.50	60.25	55.00
PD2011021	513	36.65	7.32	5.26	26.52	12.26	4.65	1.17	84.00	32.55	8.80	7.78	50.75	54.50	59.50
TAM LBB150824	496	36.52	7.35	5.40	26.88	12.43	4.57	1.30	84.55	35.58	7.98	7.03	86.00	75.00	91.50
16-13P1115	223	37.06	8.30	5.03	22.80	13.68	4.27	1.20	84.33	34.65	8.03	7.98	62.50	62.50	70.25
Mean	726	39.17	8.55	5.30	25.13	12.82	4.83	1.21	84.53	32.99	8.69	7.72	59.94	62.23	66.31
LSD (.05)	171	2.20	2.25	0.66	5.29	2.88	0.30	0.03	1.07	1.30	0.40	0.44	13.02	11.94	10.18
Entry (P>F)	<0.0001	<0.0001	0.0003	0.0050	0.0002	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	16.66	3.99	18.64	8.88	14.93	15.90	4.37	1.63	0.90	2.78	3.26	4.07	15.40	13.60	10.89
R-Square	0.78	0.74	0.53	0.44	0.53	0.52	0.67	0.85	0.55	0.79	0.91	0.65	0.76	0.65	0.79
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 (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).