

Table 5. Least square means for lint yield, yield components, and fiber quality traits in the 2018 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 ¹	QS2 ¹	QS3 ¹
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
Ark 1005-35	838	40.36	6.64	5.03	30.57	9.70	4.28	1.17	83.65	31.68	6.95	7.60	55.25	59.25	63.75
GA 2012141	790	40.49	6.83	5.33	31.59	9.85	4.34	1.25	84.70	32.85	6.33	7.08	79.00	74.75	82.00
Ark 1005-41	783	40.10	7.21	5.35	29.61	10.70	4.43	1.20	84.08	32.25	6.78	7.50	59.75	62.75	65.50
TAM LBB150921	779	39.77	7.94	4.93	24.67	11.95	4.06	1.23	83.80	31.70	6.13	7.53	70.00	65.00	76.00
FM 958 CK	751	38.78	6.76	5.54	31.88	10.55	4.23	1.19	84.45	32.38	6.20	7.15	62.50	66.50	67.50
Ark 1007-15	751	38.97	7.06	5.29	29.34	10.90	4.39	1.19	83.73	31.80	6.65	7.85	58.50	59.75	65.00
LA14063075	744	41.14	5.71	5.32	38.56	8.07	4.47	1.17	83.88	31.78	6.20	7.73	56.25	59.50	62.75
Ark 1015-42	716	39.73	6.40	5.54	34.39	9.55	4.28	1.24	83.88	31.95	6.33	7.35	72.00	66.00	78.50
PD2011081	706	40.54	6.79	4.83	28.86	9.85	4.15	1.20	83.73	32.70	6.03	7.88	64.00	62.75	71.00
GA 2015024	701	40.43	5.93	4.75	32.64	8.65	4.17	1.23	83.55	30.78	6.55	7.68	71.25	63.50	77.75
PD2011021	700	41.29	7.38	4.73	26.51	10.25	4.50	1.19	84.30	30.20	6.63	7.48	60.25	58.75	61.75
MS 2010-87-5	699	39.35	6.26	5.25	33.31	9.40	4.01	1.19	84.03	32.63	6.03	7.60	54.75	60.50	60.75
PD2011026	694	38.22	6.24	5.08	31.27	9.95	4.03	1.24	83.83	32.50	6.23	7.45	71.25	65.50	77.00
TAM 13S-03	686	38.92	6.36	5.16	31.77	9.75	4.30	1.18	83.90	32.48	5.88	7.88	60.00	63.00	67.75
LA11309040	680	42.42	6.71	5.00	31.54	9.15	4.33	1.16	83.38	29.90	6.33	8.08	51.25	52.75	58.50
DP 493 CK	666	40.34	5.54	5.06	36.94	8.10	4.43	1.19	83.08	31.20	6.35	8.28	52.75	53.00	60.25
DP 393 CK	658	39.14	6.32	5.19	32.20	9.75	4.36	1.20	84.58	33.55	6.73	7.40	67.75	70.50	73.00
TAM LBB150107	656	39.55	6.06	5.53	36.33	9.15	4.42	1.22	84.95	32.35	6.45	7.43	73.25	74.25	75.75
LA14063083	655	39.96	6.69	5.31	31.84	9.85	4.43	1.21	84.08	32.40	6.55	7.53	66.75	66.00	72.50
UA 222 CK	642	40.23	6.88	5.18	30.26	10.00	4.25	1.16	83.48	29.55	6.45	8.13	48.75	53.00	56.50
TAM 12J-39	626	41.44	6.82	5.00	31.08	9.45	4.32	1.20	84.55	32.15	6.68	7.55	63.25	67.75	67.50
TAM LBB150824	620	41.99	8.00	5.25	27.56	11.10	4.38	1.22	83.95	31.85	6.45	7.75	67.25	65.00	72.75
16-13P1115	571	38.52	6.80	5.18	29.47	10.80	4.07	1.23	84.00	32.20	6.48	7.48	67.25	65.00	72.50
Ark 1004-38	521	38.77	6.87	5.27	29.76	10.75	4.32	1.17	83.03	30.45	6.40	7.60	54.75	53.50	64.50
Mean	693	40.02	6.67	5.17	31.33	9.88	4.29	1.20	83.94	31.80	6.41	7.62	62.82	62.84	68.78
LSD (.05)	147	ns	1.00	ns	5.27	0.76	ns	ns	ns	ns	ns	ns	ns	ns	19.36
Entry (P>F)	0.0230	0.2249	0.0004	0.9377	0.0004	<0.0001	0.9466	0.3324	0.8687	0.4292	0.3110	0.5510	0.5467	0.7922	<0.0001
CV(%)	15.05	4.90	10.60	11.68	11.93	5.48	9.01	3.94	1.41	6.11	7.55	7.77	25.92	22.53	19.95
R-Square	0.51	0.33	0.50	0.24	0.49	0.82	0.26	0.28	0.20	0.32	0.29	0.25	0.25	0.21	0.27
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).