

Table 6. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Jackson, Tennessee (Cooperator: Tyson Raper).

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	1649	44.46	8.16	5.61	30.65	9.96	4.83	1.23	86.23	31.63	8.33	7.45	60.25	67.00	64.25
Ark 1005-41	1626	41.61	8.89	6.07	28.70	12.32	4.82	1.26	85.60	31.93	9.78	7.28	67.75	65.50	72.75
Ark 1005-35	1587	40.57	7.59	5.04	27.03	10.95	5.02	1.25	86.05	33.05	9.30	7.15	62.00	66.50	65.75
DP 393 CK	1578	43.27	7.48	5.44	31.55	9.60	4.91	1.20	85.25	30.75	10.00	7.58	47.25	54.75	54.75
FM 958 CK	1526	41.20	8.08	6.05	31.00	11.37	4.50	1.24	86.35	31.63	8.38	7.30	69.50	70.50	73.25
Ark 1015-42	1499	43.71	8.55	5.03	25.80	10.83	4.82	1.26	85.93	32.05	8.88	7.18	68.00	68.00	72.00
TAM 12J-39	1488	41.97	8.24	6.56	33.40	11.25	4.78	1.17	85.83	37.48	8.40	7.38	46.00	63.00	56.50
LA11309040	1486	44.67	8.02	5.05	28.20	9.78	4.60	1.19	85.20	31.58	9.55	7.58	50.50	55.75	59.00
Ark 1007-15	1460	41.17	8.58	5.79	27.79	12.04	4.41	1.27	85.03	30.40	8.48	7.35	68.75	62.00	75.50
Ark 1004-38	1454	41.25	8.39	5.58	27.57	11.71	4.42	1.30	86.33	31.18	7.80	6.90	84.25	77.25	86.00
LA14063075	1446	43.08	7.40	4.96	28.91	9.64	4.42	1.27	84.95	32.93	7.53	7.30	72.25	63.00	79.25
DP 493 CK	1445	43.90	7.08	5.01	31.11	8.89	4.78	1.15	83.75	30.43	8.13	8.45	35.00	40.75	47.75
LA14063083	1442	42.35	7.98	6.01	31.96	10.66	4.74	1.21	84.65	31.28	9.40	7.98	53.75	53.50	62.75
GA 2015024	1431	43.66	7.64	4.94	28.35	9.71	4.56	1.24	85.28	32.00	8.63	7.45	64.25	62.00	71.25
GA 2012141	1403	41.85	7.92	5.36	28.38	10.82	4.62	1.23	85.78	31.38	9.45	7.25	60.75	65.00	67.25
TAM 13S-03	1389	41.78	7.63	5.32	29.42	10.41	4.44	1.18	85.30	29.53	10.60	7.60	50.50	56.75	58.50
PD2011021	1334	40.15	7.66	5.67	29.99	11.32	4.38	1.21	84.68	32.68	9.75	7.35	55.50	54.50	65.00
TAM LBB150824	1291	40.00	9.14	5.85	25.66	13.54	4.53	1.33	85.70	35.33	8.83	6.70	88.75	77.25	93.75
UA 222 CK	1260	40.91	7.68	5.21	27.86	10.91	4.44	1.24	85.43	30.93	10.73	7.58	67.75	64.50	74.00
TAM LBB150107	1237	40.86	7.94	5.15	26.48	11.27	4.97	1.24	86.35	33.43	9.98	7.03	60.75	68.75	65.00
TAM LBB150921	1188	39.41	8.66	5.86	26.65	13.14	4.71	1.29	86.80	33.68	9.68	6.93	80.25	80.00	82.00
PD2011081	1150	38.64	7.31	5.49	29.05	11.41	4.51	1.21	84.38	31.88	8.70	7.53	54.25	51.75	64.75
PD2011026	1092	38.46	7.46	5.49	28.29	11.74	4.63	1.25	85.83	33.70	8.95	7.23	68.00	68.00	73.00
16-13P1115	1078	39.59	7.94	5.96	29.84	11.99	4.16	1.20	85.55	35.53	8.33	7.23	55.75	63.50	65.00
Mean	1397	41.60	7.98	5.52	28.90	11.05	4.62	1.23	85.51	32.35	9.06	7.36	62.16	63.31	68.71
LSD (.05)	175	1.50	0.87	0.61	3.43	1.36	0.33	0.05	1.26	1.83	0.64	0.47	17.49	13.89	13.86
Entry (P>F)	<0.0001	<0.0001	0.0004	<0.0001	0.0008	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	8.88	2.55	7.76	7.85	8.42	8.70	5.08	2.70	1.04	4.00	5.02	4.52	19.95	15.55	14.30
R-Square	0.72	0.79	0.52	0.58	0.50	0.66	0.60	0.70	0.50	0.73	0.82	0.61	0.61	0.56	0.63
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).