

Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2021 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	%	%			
Ark 1311-18	1509	44.96	8.98	6.34	32.51	10.83	4.56	1.29	85.65	32.80	7.33	4.65	78.50	70.00	82.50
OA-11	1496	44.33	8.16	5.91	32.12	10.11	5.03	1.19	85.35	33.08	8.85	5.13	42.75	53.75	50.25
GA 2015026	1485	42.36	7.43	6.52	37.21	9.96	4.44	1.27	85.10	32.15	6.88	4.75	72.00	64.00	78.75
Ark 1317-31	1455	40.49	7.56	6.63	35.54	10.93	4.46	1.27	86.65	33.40	8.13	4.55	75.75	76.25	77.50
Ark 1308-58	1435	41.91	8.23	6.72	34.23	11.26	4.54	1.28	86.03	30.70	8.88	4.35	79.50	73.00	82.50
Ark 1301-16	1428	43.00	8.79	7.24	35.48	11.45	4.70	1.26	85.85	31.53	8.35	4.78	67.50	66.75	71.75
MS 2010-87-42	1395	43.80	8.60	6.64	33.97	10.68	4.71	1.25	86.03	33.08	6.85	4.93	68.25	69.00	72.50
DP 493 CK	1371	42.44	7.43	6.50	37.02	9.97	4.77	1.20	84.38	32.00	6.45	5.90	47.50	49.25	58.00
CSX5432	1371	46.41	9.33	5.69	29.40	10.45	4.31	1.29	85.73	32.40	7.03	4.50	79.50	71.00	83.75
MS 2010-87-5	1342	42.72	8.48	6.82	34.32	11.14	4.72	1.23	85.58	32.23	6.83	5.55	58.75	61.75	65.00
MS 2010-66-16	1337	43.52	8.32	6.58	34.42	10.66	4.63	1.26	86.20	33.55	6.85	4.48	72.25	71.75	75.75
GA 2016090	1316	43.99	8.46	6.40	33.47	10.58	4.52	1.23	84.98	33.80	6.55	5.48	58.50	57.75	66.75
MS 2010-87-37	1316	42.46	8.36	6.32	32.24	11.17	4.66	1.29	86.85	34.95	6.18	4.08	84.00	82.50	85.75
LA19073070	1302	42.02	8.02	6.61	34.78	10.92	4.79	1.15	85.55	33.93	8.18	4.85	37.50	53.50	46.00
UA 222 CK	1302	42.54	8.89	6.48	32.00	11.29	4.87	1.23	85.68	31.68	8.95	5.05	58.50	62.50	64.25
OA-133	1300	41.61	7.83	6.18	32.90	10.81	4.94	1.23	85.40	32.88	7.05	5.53	55.00	59.00	61.50
OA-13	1297	42.66	7.96	6.00	32.20	10.24	5.05	1.21	84.38	33.63	7.60	5.40	43.25	48.25	53.25
MS 2010-96-9	1293	43.60	8.54	7.14	36.50	10.83	4.89	1.23	86.35	32.78	7.45	4.95	58.25	66.75	61.50
DP 393 CK	1282	42.22	8.47	6.33	31.64	11.38	4.96	1.19	85.40	31.90	7.88	5.78	43.75	54.75	51.50
MS 2010-28-27	1277	43.36	7.65	6.13	34.80	9.86	4.73	1.26	85.78	33.23	7.48	4.60	68.75	68.00	74.25
GA 2016029	1259	43.48	8.29	6.60	34.59	10.60	4.62	1.27	86.08	33.15	6.98	4.55	74.25	71.75	78.00
FM 958 CK	1257	41.41	7.84	6.53	34.53	10.96	4.66	1.23	85.63	33.30	6.38	4.95	61.00	63.00	67.25
Ark 1309-56	1253	44.20	9.32	7.04	33.49	11.52	4.77	1.29	84.78	34.53	6.95	4.48	74.00	63.75	82.00
TAMLBB17206	1251	38.95	7.63	6.98	35.68	11.77	4.42	1.24	85.30	32.45	6.15	5.75	64.25	62.25	71.00
TAMLBB16507	1245	39.35	7.68	6.94	35.68	11.66	4.19	1.25	85.35	33.53	6.70	5.13	66.75	63.25	73.00
TAM 14B-72	1225	40.77	7.69	6.34	33.75	10.95	4.53	1.24	85.55	32.83	6.80	5.33	64.00	64.00	70.00
TAM 14E-12	1185	43.60	8.23	6.52	34.57	10.54	4.86	1.21	83.93	31.63	7.70	5.93	45.75	45.00	57.25
LA19073002	1043	41.58	8.00	6.33	33.03	11.04	4.95	1.17	84.60	32.13	6.75	5.68	36.25	46.00	46.75
Mean	1322	42.63	8.22	6.52	34.00	10.84	4.69	1.24	85.50	32.83	7.29	5.04	62.00	62.80	68.15
LSD (.05)	216	1.04	0.98	0.54	3.67	ns	0.25	0.04	1.09	1.29	0.44	0.75	14.19	11.41	11.46
Entry (P>F)	0.0267	<0.0001	0.0017	<0.0001	0.0202	0.0910	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	11.55	1.73	8.46	5.87	7.68	7.79	3.82	2.11	0.90	2.79	4.33	10.61	16.27	12.91	11.96
R-Square	0.39	0.86	0.48	0.56	0.48	0.38	0.66	0.73	0.53	0.60	0.90	0.57	0.71	0.65	0.74
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).