

Table 5. Least square means for lint yield, yield components, and fiber quality traits in the 2020 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 1214-42	1439	43.39	8.69	5.59	27.95	11.14	4.44	1.30	86.58	31.95	7.23	4.05	79.25	74.25	81.75
Ark 1207-32	1418	44.17	8.56	5.09	26.35	10.71	4.55	1.27	85.78	29.65	7.95	4.70	65.00	59.50	68.25
Ark 1208-39	1355	42.70	9.23	5.40	25.00	12.14	4.61	1.27	86.33	29.90	8.13	4.55	70.25	69.00	74.50
Ark 1207-11	1304	39.89	7.29	5.36	29.79	10.79	4.73	1.26	87.05	30.78	8.13	4.40	65.75	72.00	67.75
Ark 1208-21	1294	42.46	8.74	5.26	25.61	11.68	4.58	1.27	85.45	31.83	7.65	4.33	65.75	61.75	73.00
DP 393 CK	1188	42.52	8.73	5.54	27.07	11.62	4.37	1.25	86.30	31.90	7.93	4.83	63.50	66.00	68.75
FM 958 CK	1113	40.69	8.30	5.07	24.87	11.89	4.45	1.22	85.13	33.95	6.30	5.35	51.25	55.00	62.00
PD 2012011	1001	38.12	6.87	5.27	29.26	11.01	4.19	1.27	85.35	33.50	6.73	4.60	68.75	62.00	76.25
PD 2012066	990	41.29	8.19	4.96	25.28	11.48	4.48	1.27	86.25	30.95	6.85	4.60	68.00	67.75	72.75
TAM 14 E-12	973	43.49	8.69	5.03	25.22	11.02	4.73	1.20	85.55	30.95	7.70	5.43	45.75	53.75	54.00
DP 493 CK	969	42.61	6.75	4.30	27.33	8.92	4.18	1.19	84.18	32.45	6.20	7.13	34.50	39.75	47.75
TAM 14 B-72	949	41.36	7.24	5.01	28.54	10.18	4.19	1.23	85.85	31.55	6.90	5.18	56.75	60.25	63.75
PD 2013041	929	42.32	7.98	5.52	29.23	10.75	4.25	1.25	86.03	33.18	7.63	4.65	61.25	63.75	67.00
PD 2013016	903	42.32	7.97	5.66	30.01	10.83	4.33	1.32	86.55	32.75	6.83	4.10	82.75	76.75	86.00
PD 2012037	878	41.65	7.85	5.16	27.40	10.82	4.40	1.28	85.70	32.15	6.85	4.43	71.25	65.00	77.00
UA 222 CK	821	41.33	8.53	5.29	25.65	11.85	4.36	1.27	86.00	30.55	8.42	4.38	65.25	64.75	70.25
Mean	1095	41.89	8.10	5.22	27.16	11.05	4.42	1.26	85.88	31.75	7.34	4.79	63.44	63.20	69.42
LSD (.05)	124	—	1.06	0.65	—	1.23	—	0.05	1.11	2.16	0.78	0.95	16.17	11.99	13.35
Entry (P>F)	<0.0001	0.0661	0.0002	0.0286	0.1433	0.0010	0.1353	0.0008	0.0018	0.0054	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	7.98	5.28	9.21	8.71	10.83	7.79	6.52	2.99	0.90	4.78	7.48	13.91	17.90	13.32	13.50
R-Square	0.88	0.42	0.59	0.55	0.39	0.56	0.47	0.53	0.52	0.49	0.68	0.63	0.60	0.61	0.59
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).