

Table 6. Least square means for lint yield, yield components, and fiber quality traits in the 2020 RBTN at Keiser, Arkansas (Cooperator: Fred Bourland).

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 1208-39	1332	42.91	7.08	2.33	14.20	9.06	4.13	1.26	85.38	31.00	7.75	4.50	69.00	67.50	73.75
Ark 1207-11	1310	43.16	6.89	3.89	24.47	8.83	4.47	1.24	85.88	33.45	7.38	4.63	64.50	69.25	68.00
Ark 1207-32	1293	42.74	6.90	3.63	22.32	8.91	4.09	1.29	86.23	31.68	7.33	3.93	79.25	77.75	80.50
Ark 1214-42	1288	44.61	7.77	4.94	28.25	9.39	4.20	1.28	85.28	33.65	6.85	4.20	75.25	69.25	79.50
TAM 14 B-72	1268	41.85	6.20	3.73	25.31	8.33	3.91	1.18	84.60	33.35	6.45	5.90	42.50	52.00	51.75
DP 493 CK	1253	44.87	6.45	3.08	21.24	7.46	4.35	1.17	83.60	32.15	6.03	6.50	40.50	44.25	52.75
Ark 1208-21	1235	42.74	7.10	4.21	25.40	9.26	4.19	1.28	85.30	32.33	7.85	4.25	73.25	68.75	77.75
PD 2012011	1190	40.64	6.57	4.65	28.86	9.45	4.14	1.27	84.78	34.43	6.30	4.43	70.75	65.00	77.50
FM 958 CK	1151	42.40	7.37	4.13	23.75	9.76	4.28	1.25	85.10	34.38	5.93	4.73	65.50	65.25	72.00
UA 222 CK	1139	41.97	7.30	4.36	25.16	9.79	4.19	1.26	84.95	32.18	8.02	4.68	66.75	63.50	72.50
TAM 14 E-12	1108	43.82	7.10	4.01	24.89	8.88	4.23	1.21	84.33	32.55	6.95	5.50	49.75	52.50	59.25
DP 393 CK	1099	41.86	7.14	4.56	26.76	9.62	4.46	1.21	84.45	32.88	6.93	5.63	51.25	54.25	60.00
PD 2013016	994	42.73	7.07	4.27	25.88	9.22	4.22	1.32	85.38	35.38	6.00	3.85	86.00	76.50	90.25
PD 2012037	966	41.14	6.45	4.12	26.26	9.01	4.14	1.28	85.23	33.38	6.38	4.35	74.00	68.50	78.75
PD 2012066	895	40.67	6.85	4.13	24.50	9.80	4.47	1.23	84.88	32.20	6.55	5.38	56.50	59.25	63.75
PD 2013041	841	41.86	7.20	3.98	23.04	9.65	4.05	1.29	85.60	34.88	6.53	3.95	78.50	74.75	83.25
Mean	1148	42.50	6.97	4.00	24.39	9.15	4.22	1.25	85.06	33.11	6.83	4.77	65.20	64.27	71.33
LSD (.05)	162	1.53	0.71	0.90	5.55	0.91	—	0.03	—	1.37	0.44	0.81	12.12	12.97	9.12
Entry (P>F)	<0.0001	<0.0001	0.0078	0.0002	0.0024	0.0003	0.1938	<0.0001	0.0569	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	9.91	2.53	7.15	15.84	15.97	6.97	6.31	1.94	1.10	2.90	4.52	11.86	13.05	14.17	8.97
R-Square	0.72	0.65	0.47	0.59	0.54	0.55	0.35	0.79	0.42	0.68	0.86	0.72	0.77	0.61	0.80
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).