

Table 10. Least square means for lint yield, yield components, and fiber quality traits in the 2020 RBTN at Mississippi State (USDA), Mississippi (Cooperator: Jack McCarty).

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 1207-32	1410	44.18	8.22	5.58	30.03	10.40	5.14	1.21	84.53	31.03	6.48	5.58	61.75	65.25	66.50
UA 222 CK	1278	43.00	8.16	5.53	29.29	10.80	5.22	1.19	83.55	31.30	7.15	6.58	50.50	53.50	58.25
Ark 1207-11	1271	43.12	7.51	5.31	30.55	9.90	5.11	1.18	84.10	32.10	6.30	6.33	52.00	58.25	58.75
Ark 1208-21	1267	43.69	8.69	5.39	27.14	11.20	5.21	1.23	84.55	31.98	7.05	5.63	64.50	66.50	68.25
TAM 14 E-12	1265	46.14	8.31	5.42	30.14	9.70	4.97	1.14	82.90	31.88	6.65	7.50	39.25	45.25	50.75
FM 958 CK	1238	43.69	8.46	5.59	28.89	10.90	5.12	1.17	84.03	33.63	5.33	6.05	49.25	56.50	56.25
DP 393 CK	1207	43.40	8.06	5.44	29.38	10.50	5.26	1.18	84.33	32.80	6.83	5.63	49.00	58.75	55.25
Ark 1208-39	1178	44.51	8.59	5.38	28.11	10.70	5.23	1.22	84.95	31.05	7.03	5.60	62.50	68.50	65.75
DP 493 CK	1163	43.87	7.74	5.28	29.95	9.90	5.26	1.16	83.63	32.30	5.45	7.03	41.00	50.50	49.75
Ark 1214-42	1131	44.30	8.35	5.78	30.67	10.50	5.12	1.21	84.28	33.63	6.10	5.80	59.75	62.75	65.00
PD 2012037	1124	42.34	7.63	5.62	31.20	10.40	4.91	1.24	84.50	32.15	5.65	5.05	74.00	70.00	77.75
PD 2012011	1044	40.79	7.04	5.68	33.14	10.20	4.92	1.21	84.10	33.80	5.60	5.65	64.25	63.00	69.75
TAM 14 B-72	1036	42.62	7.13	4.84	29.02	9.60	5.00	1.15	83.83	31.70	6.05	6.60	44.00	53.00	52.50
PD 2012066	1028	41.48	7.65	5.28	28.62	10.80	4.94	1.21	84.38	32.65	5.95	6.00	65.25	65.50	70.00
PD 2013016	1028	44.03	8.18	5.50	29.62	10.40	5.17	1.23	84.15	34.93	5.45	5.55	64.75	65.25	71.25
PD 2013041	1006	41.60	7.68	5.69	30.87	10.80	4.61	1.25	84.75	34.03	5.90	4.93	79.00	74.75	82.75
Mean	1167	43.30	7.96	5.46	29.79	10.42	5.07	1.20	84.16	32.56	6.18	5.97	57.55	61.08	63.66
LSD (.05)	180	0.80	0.69	0.37	2.54	0.92	0.24	0.03	—	1.31	0.24	1.11	12.49	14.08	9.14
Entry (P>F)	0.0006	<0.0001	<0.0001	0.0030	0.0110	0.0400	<0.0001	<0.0001	0.4346	<0.0001	<0.0001	0.0016	<0.0001	0.0081	<0.0001
CV(%)	10.82	1.30	6.11	4.80	5.99	6.23	3.36	1.80	1.18	2.83	2.71	13.07	15.23	16.19	10.76
R-Square	0.62	0.89	0.65	0.52	0.50	0.48	0.58	0.76	0.29	0.71	0.95	0.51	0.71	0.48	0.76
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).