

Table 4. Least square means for yield components and fiber quality traits in the 2020 RBTN at Florence, South Carolina (Cooperator: Todd Campbell).

Entry	Lint Yield ¹	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 ²	QS2 ²	QS3 ²
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
Ark 1207-11	—	41.50	13.28	5.11	22.57	9.40	4.90	1.19	85.88	34.15	7.00	5.50	58.25	65.25	63.00
Ark 1207-32	—	41.35	14.10	5.45	22.53	10.00	4.81	1.23	86.03	32.15	7.25	5.30	69.25	70.25	72.75
Ark 1208-21	—	40.54	16.08	5.12	18.81	11.05	4.93	1.22	85.78	32.60	7.75	5.65	63.75	66.00	68.00
Ark 1208-39	—	40.31	16.04	5.30	19.53	10.95	4.84	1.22	86.03	31.60	7.78	5.60	64.75	68.25	68.25
Ark 1214-42	—	42.42	13.97	5.40	22.15	10.35	4.61	1.23	85.30	34.00	7.08	5.35	71.50	66.25	77.00
DP 393 CK	—	40.07	15.09	5.37	21.19	10.15	5.05	1.18	85.43	33.65	7.45	5.30	50.00	58.25	56.75
DP 493 CK	—	39.93	13.15	4.90	22.42	8.75	5.10	1.13	83.98	33.38	5.58	7.23	30.00	40.50	42.50
FM 958 CK	—	39.98	16.37	5.85	21.42	10.95	4.88	1.20	85.28	34.88	5.80	5.73	60.00	62.25	67.00
PD 2012011	—	37.87	16.47	5.20	19.52	10.10	4.46	1.23	85.63	35.38	5.95	5.70	74.00	70.75	79.50
PD 2012037	—	38.47	16.26	5.56	20.98	10.20	4.59	1.25	86.40	33.80	6.68	4.85	82.00	78.00	83.75
PD 2012066	—	40.92	14.01	5.00	21.02	9.75	4.74	1.18	85.13	33.53	6.50	6.18	55.25	58.75	63.00
PD 2013016	—	40.11	15.17	5.57	22.22	10.10	4.80	1.23	85.35	36.48	5.95	5.38	69.75	69.00	78.00
PD 2013041	—	40.78	15.37	5.77	22.21	10.60	4.55	1.23	85.50	35.43	6.25	5.23	74.25	70.25	80.25
TAM 14 B-72	—	40.96	13.35	5.39	23.62	9.40	4.87	1.17	85.00	34.18	6.15	6.15	51.00	56.00	58.75
TAM 14 E-12	—	43.57	11.83	5.30	25.12	9.20	4.77	1.16	83.88	32.50	7.18	6.53	48.25	47.75	59.50
UA 222 CK	—	41.22	14.65	4.92	19.60	10.40	4.84	1.19	85.38	32.23	8.15	5.88	56.50	60.25	62.50
Mean	—	40.62	14.70	5.33	21.56	10.08	4.80	1.20	85.37	33.74	6.78	5.72	61.16	62.98	67.53
LSD (.05)	—	2.31	1.87	0.54	2.81	0.67	0.29	0.04	1.12	1.35	0.52	0.80	14.72	12.36	11.91
Entry (P>F)	—	0.0039	<0.0001	0.0210	0.0035	<0.0001	0.0025	<0.0001	0.0028	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	—	4.00	8.92	7.07	9.14	4.65	4.22	2.44	0.92	2.81	5.41	9.86	16.90	13.78	12.39
R-Square	—	0.54	0.61	0.50	0.56	0.73	0.54	0.63	0.53	0.74	0.86	0.62	0.68	0.62	0.69
Reps	—	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 Lint yield omitted due to excess variability.

² 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).