

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2021 RBTN at Stoneville (USDA location 1), Mississippi (Cooperator: Linghe Zeng).

Entry	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC ¹	QS1 ²	QS2 ²	QS3 ²
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
Ark 1308-58	1118	38.39	7.13	6.18	33.07	11.45	4.76	1.26	85.95	34.40	6.80	—	76.75	76.00	79.50
MS 2010-96-9	1024	41.43	7.07	5.90	34.80	9.95	5.07	1.19	85.00	36.35	6.15	—	48.25	59.25	56.50
UA 222 CK	1012	37.62	7.30	5.55	28.49	12.10	4.87	1.27	85.35	34.35	7.05	—	74.75	71.00	78.75
MS 2010-87-5	971	39.97	7.06	5.73	32.28	10.60	4.76	1.21	85.10	35.45	5.68	—	60.50	64.25	67.25
MS 2010-66-16	971	40.72	7.67	5.47	29.00	11.18	4.62	1.24	84.83	35.60	5.73	—	69.25	66.00	76.25
Ark 1317-31	969	37.01	6.92	5.93	31.64	11.80	4.51	1.25	84.93	37.13	6.13	—	75.00	70.25	82.00
MS 2010-28-27	960	39.84	6.79	5.43	31.73	10.25	4.61	1.25	85.30	36.15	6.00	—	74.75	71.75	80.00
Ark 1311-18	934	41.89	7.30	5.57	31.78	10.13	4.74	1.26	85.30	35.03	5.95	—	75.25	71.25	80.00
DP 393 CK	929	38.57	7.16	5.84	31.24	11.40	4.85	1.19	84.73	35.08	6.63	—	53.00	58.50	61.25
LA19073070	916	36.84	6.74	5.98	32.57	11.55	4.78	1.15	85.93	37.53	6.23	—	47.00	66.25	54.25
GA 2016029	899	39.87	6.75	4.90	28.62	10.18	4.82	1.24	84.80	37.13	5.55	—	66.50	66.00	75.00
Ark 1301-16	897	39.55	7.98	6.12	29.83	12.20	4.93	1.22	85.28	34.40	6.35	—	60.75	65.00	66.00
MS 2010-87-37	890	40.00	6.83	5.77	33.62	10.25	4.64	1.23	85.28	35.88	5.53	—	69.25	69.25	75.25
LA19073002	886	38.36	6.88	6.12	33.96	11.08	5.06	1.14	84.00	35.45	5.58	—	30.75	44.75	43.00
MS 2010-87-42	883	39.52	7.36	5.66	30.30	11.25	4.77	1.22	84.65	34.83	5.55	—	62.25	61.50	69.75
OA-11	841	40.49	6.94	5.20	30.15	10.20	4.72	1.17	84.95	35.65	6.65	—	49.50	58.75	58.00
TAM 14B-72	828	37.17	6.06	4.85	29.62	10.25	4.45	1.21	85.33	34.83	5.68	—	63.50	66.50	69.25
GA 2016090	807	39.25	6.95	5.93	33.32	10.75	4.57	1.23	85.25	36.08	5.55	—	71.25	70.00	77.25
GA 2015026	788	38.31	6.16	5.08	31.38	9.93	4.48	1.25	85.45	34.95	5.73	—	76.75	72.75	81.50
DP 493 CK	787	40.57	6.74	5.29	31.60	9.88	5.13	1.18	83.88	35.48	5.25	—	41.75	48.25	53.00
OA-13	765	39.43	6.77	5.52	32.00	10.40	5.06	1.17	84.70	37.38	6.15	—	43.50	56.25	53.75
FM 958 CK	765	38.11	6.91	5.60	30.85	11.23	4.71	1.21	84.53	35.55	5.23	—	59.25	59.50	68.00
OA-133	670	37.51	6.33	5.21	30.70	10.55	4.85	1.21	84.50	35.20	5.58	—	58.00	59.00	66.50
TAM 14E-12	661	38.65	6.94	5.17	28.60	11.03	4.80	1.18	83.60	33.28	6.03	—	46.25	46.75	57.25
CSX5432	626	44.28	8.09	4.60	24.86	10.18	4.82	1.25	84.78	35.25	5.58	—	69.00	65.25	75.50
Ark 1309-56	558	41.46	8.06	6.26	31.98	11.38	5.10	1.25	85.70	37.08	6.05	—	66.75	72.50	72.00
TAMLBB17206	471	34.83	6.61	5.81	30.61	12.38	4.56	1.24	84.93	34.53	5.08	—	71.25	66.50	77.00
TAMLBB16507	382	35.77	6.77	5.89	30.98	12.15	4.36	1.24	85.05	36.30	5.25	—	71.75	69.25	78.75
Mean	829	39.12	7.01	5.59	31.06	10.92	4.76	1.22	84.97	35.58	5.88	—	61.88	64.01	69.02
LSD (.05)	105	1.11	0.57	0.51	3.02	0.78	0.19	0.03	1.01	1.43	0.21	—	11.68	10.93	9.05
Entry (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	<0.0001	—	<0.0001	<0.0001	<0.0001
CV(%)	8.98	2.02	5.81	6.43	6.92	5.10	2.90	1.82	0.84	2.85	2.59	—	13.42	12.14	9.32
R-Square	0.88	0.89	0.67	0.67	0.56	0.72	0.75	0.77	0.44	0.60	0.93	—	0.75	0.58	0.79
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 SFC not measured.

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).