

Table 10. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at Stoneville, MS, USDA location 1 (Cooperator: Linghe Zeng).

Cultivar	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	%	%	g/tex	%	%			
Ark 0908-60	1269	41.35	7.61	5.60	30.46	10.65	4.66	1.32	85.63	32.13	6.25	6.58	69.25	65.00	75.00
UA 222 CK	1237	38.02	8.01	5.89	28.02	12.93	4.61	1.31	85.80	32.33	6.98	6.60	68.25	65.75	73.75
Ark 0921-31ne	1231	37.81	6.81	5.85	32.48	11.08	4.33	1.28	85.80	32.38	7.10	6.58	61.00	62.50	67.00
TAM 13Q-51	1186	37.15	6.66	4.80	26.77	11.13	4.33	1.33	86.40	34.30	6.75	6.38	78.75	74.75	82.00
LA14063101	1168	43.29	7.50	5.17	29.83	9.68	4.56	1.29	86.03	33.03	6.40	6.58	65.50	66.25	70.75
LA14063083	1159	40.70	7.59	5.56	29.88	10.93	4.47	1.30	86.33	33.88	7.18	6.53	68.50	69.75	72.75
Ark 0912-18	1158	39.31	7.91	6.03	29.90	12.10	4.62	1.30	87.08	33.38	6.95	6.53	71.50	76.00	73.25
LA14063001	1133	41.20	7.61	5.65	30.62	10.73	4.38	1.30	85.80	33.55	6.23	6.60	68.00	65.75	73.50
LA14063038	1114	38.88	6.80	5.84	33.36	10.55	4.42	1.34	85.10	35.68	5.35	6.50	76.50	66.25	84.75
DP 393 CK	1112	38.43	7.32	5.67	29.80	11.58	4.65	1.26	85.53	33.60	6.85	6.88	54.00	58.00	61.50
Ark 0911-13	1101	38.66	7.77	6.01	29.94	12.20	4.66	1.33	86.25	32.63	7.03	6.40	74.00	71.00	77.50
Ark 0921-27ne	1085	37.58	6.58	5.57	31.80	10.83	4.33	1.29	85.73	34.48	5.83	6.53	64.50	65.00	71.50
GA 2015073	1070	40.99	7.38	5.45	30.30	10.48	4.46	1.27	86.28	32.63	5.93	6.60	60.50	65.75	65.75
FM 958 CK	1064	37.30	7.08	5.75	30.27	11.75	4.46	1.29	85.98	33.48	5.15	6.70	63.50	65.00	69.00
GA 2015032	1050	39.88	6.62	5.69	34.32	9.88	4.56	1.30	86.05	32.98	5.58	6.63	67.25	67.00	72.50
TAM WK-11L	1034	37.31	6.49	5.39	31.00	10.78	4.19	1.23	86.15	33.60	6.38	6.88	49.25	60.75	56.25
AU 90098	1029	42.08	7.60	5.24	29.09	10.30	4.48	1.29	86.35	32.45	5.33	6.68	64.25	68.25	68.75
DP 493 CK	1023	41.60	6.71	4.98	30.87	9.28	4.47	1.23	84.80	32.70	5.38	7.08	44.75	49.50	55.50
LA14063046	997	39.27	7.39	5.68	30.19	11.28	4.58	1.29	86.05	34.05	6.45	6.68	63.00	65.75	68.25
GA 2015090	994	39.91	6.95	5.43	31.19	10.33	4.35	1.31	86.05	34.88	5.98	6.48	71.00	70.00	76.50
GA 2012141	992	38.37	7.39	5.86	30.45	11.75	4.58	1.31	86.23	31.75	5.90	6.50	69.50	69.00	73.50
TAM 13S-03	959	36.89	6.86	5.31	28.58	11.60	4.12	1.26	85.38	32.13	7.18	6.88	56.00	57.75	64.00
PD 07040	919	35.67	6.78	6.19	32.59	12.10	4.38	1.28	85.83	33.80	5.85	6.98	61.50	64.00	68.50
PD 2013016	902	38.77	6.84	5.73	32.50	10.68	4.43	1.36	85.90	34.85	5.33	6.18	84.25	74.00	88.50
PD 08028	881	35.55	6.61	5.75	30.98	11.85	4.27	1.32	86.18	35.45	5.83	6.40	75.25	72.75	80.75
Tamcot G11	871	36.85	7.86	6.61	30.99	13.33	4.04	1.38	84.48	33.40	5.28	6.35	80.00	63.00	87.25
TAM 13Q-18	819	36.82	6.76	5.76	31.36	11.48	4.32	1.27	84.18	32.85	5.55	7.08	54.50	49.00	65.75
NM 13R1015	775	37.50	6.22	4.95	29.86	10.20	4.53	1.26	85.10	35.75	5.78	6.58	52.00	56.25	62.50
NM 16-13P1088B	756	35.79	6.40	5.57	31.16	11.35	4.05	1.26	85.90	35.35	6.25	6.70	57.50	63.75	65.25
TAM LBB131001	747	38.99	6.64	4.12	24.18	10.23	4.04	1.27	84.30	34.65	5.93	7.43	56.00	51.25	67.25
Acala 1517-08	678	36.31	6.57	5.24	28.97	11.38	4.47	1.25	84.88	34.30	5.88	7.08	47.25	51.50	58.00
PD 09046	652	33.16	5.60	4.93	29.19	11.15	3.88	1.36	85.38	34.88	4.93	6.38	82.00	69.50	88.25
TAM LBB130218	614	34.02	6.11	5.05	28.19	11.73	3.94	1.25	84.65	34.18	5.25	6.98	50.25	51.25	61.25
Mean	993	38.34	7.00	5.52	30.28	11.13	4.38	1.29	85.68	33.68	6.06	6.66	64.52	63.97	71.11
LSD (.05)	153	1.17	0.38	0.38	2.39	0.61	0.24	0.04	1.00	1.51	0.34	0.42	13.46	10.79	11.20
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	10.95	2.18	3.84	4.91	5.62	3.88	3.89	2.17	0.83	3.20	3.96	4.49	14.86	12.02	11.22
R-Square	0.79	0.91	0.86	0.80	0.63	0.85	0.68	0.70	0.55	0.60	0.91	0.54	0.63	0.57	0.64
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).

¹QS1, QS2, and QS3 = Represent values for "Qscore", 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).