

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2017 RBTN at Mississippi State, MS (Cooperator: Jack McCarty).

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	%	%			
LA14063083	1848	44.43	7.90	5.69	32.10	9.90	4.76	1.24	84.68	34.05	7.58	7.33	61.75	62.50	68.50
GA 2015032	1725	42.88	7.13	5.31	32.19	9.50	4.88	1.26	85.80	33.18	6.63	7.13	66.00	71.25	68.50
LA14063101	1699	45.49	8.09	5.12	28.82	9.70	4.94	1.27	85.90	35.10	6.98	6.93	69.00	74.75	72.25
GA 2012141	1686	42.88	7.80	5.40	29.96	10.40	4.68	1.22	84.48	32.80	6.80	7.35	52.50	57.00	60.00
Ark 0911-13	1679	43.12	7.89	5.45	29.91	10.40	4.68	1.29	85.48	32.30	8.25	6.85	77.00	73.50	79.75
LA14063001	1670	44.25	8.02	5.68	31.43	10.10	4.64	1.25	84.43	33.60	6.95	7.40	63.50	61.25	71.00
Ark 0908-60	1669	44.37	7.41	5.31	31.79	9.30	4.97	1.27	85.48	33.15	7.28	7.05	65.75	69.25	69.00
GA 2015090	1617	43.49	7.46	5.06	29.48	9.70	4.81	1.26	86.00	35.60	7.35	7.05	69.00	76.00	72.25
Ark 0912-18	1616	43.33	8.63	5.77	28.98	11.30	5.00	1.26	86.73	33.43	8.38	6.65	66.50	77.50	66.75
NM 13R1015	1586	41.94	6.85	4.97	30.55	9.50	5.07	1.19	84.83	33.48	6.73	6.90	40.25	54.50	47.25
AU 90098	1578	46.03	7.84	4.94	29.11	9.20	4.70	1.23	84.73	32.88	6.18	7.23	60.25	61.50	66.75
DP 493 CK	1570	45.07	7.06	5.05	32.27	8.60	4.99	1.13	82.30	30.58	5.80	8.23	25.00	32.25	40.25
LA14063038	1559	42.53	7.40	5.17	29.81	10.00	4.68	1.28	83.98	35.35	6.33	7.25	69.75	62.25	78.50
LA14063046	1498	43.59	7.64	5.49	31.46	9.90	4.84	1.26	85.03	33.65	7.38	7.10	64.50	66.00	69.75
UA 222 CK	1493	43.44	7.60	5.32	30.45	9.90	4.45	1.25	83.60	31.33	7.97	7.40	61.50	54.25	71.00
GA 2015073	1477	44.93	8.17	5.44	30.05	10.00	4.86	1.22	83.70	33.60	6.83	7.25	50.00	50.75	60.00
Tamcot G11	1445	40.17	7.97	6.05	30.47	11.90	4.16	1.36	85.23	34.75	6.33	6.53	88.75	77.25	92.00
DP 393 CK	1423	42.23	8.41	5.40	27.35	11.50	4.90	1.22	85.15	34.43	7.70	7.08	54.75	63.25	61.00
FM 958 CK	1423	41.82	7.40	5.78	32.67	10.30	4.87	1.20	83.78	34.73	5.98	7.30	44.00	49.50	55.00
PD 2013016	1420	43.36	7.66	5.45	30.95	10.00	4.93	1.26	84.45	35.10	5.83	7.55	61.75	61.75	69.50
TAM 13Q-18	1333	39.92	7.25	5.33	29.43	10.90	4.53	1.23	83.60	33.63	6.83	7.45	58.25	53.00	68.50
PD 08028	1326	39.21	7.03	5.45	30.47	10.90	4.67	1.23	84.90	36.33	7.05	6.93	60.25	65.75	68.75
PD 07040	1325	39.40	6.76	5.57	32.47	10.40	4.69	1.23	84.80	33.25	6.78	6.78	59.00	61.50	65.00
Ark 0921-27ne	1321	40.52	6.53	5.24	33.03	9.60	4.41	1.22	85.00	35.35	7.20	6.78	59.00	64.75	66.25
TAM LBB130218	1313	38.19	6.67	5.54	31.74	10.80	4.44	1.22	83.48	34.43	6.13	7.38	57.00	54.50	67.25
Ark 0921-31ne	1308	41.03	6.75	5.12	31.22	9.70	4.34	1.24	85.25	33.13	8.08	6.93	65.75	67.50	70.50
TAM 13S-03	1298	40.12	7.56	5.13	27.21	11.30	4.63	1.23	85.58	32.50	8.33	6.98	62.00	68.00	66.00
TAM LBB131001	1298	42.89	6.92	4.95	30.69	9.20	4.36	1.25	83.33	33.48	6.70	7.73	64.00	53.25	74.25
TAM 13Q-51	1276	40.20	7.25	4.70	26.05	10.80	4.70	1.33	86.38	35.60	7.63	6.53	90.00	86.00	90.75
PD 09046	1274	36.18	6.07	5.20	30.99	10.70	4.12	1.33	84.78	36.05	5.83	6.73	82.25	73.00	87.75
Acala 1517-08	1257	39.94	7.04	5.15	29.38	10.60	4.67	1.22	83.98	35.73	6.53	7.50	53.50	55.75	64.25
NM 16-13P1088B	1081	39.02	6.91	5.42	30.64	10.80	4.30	1.22	84.93	35.33	6.78	6.85	60.50	64.50	67.50
TAM WK-11L	1041	39.95	7.24	5.31	29.49	10.90	4.58	1.18	85.20	32.10	7.33	7.35	46.00	58.75	52.50
Mean	1459	42.00	7.40	5.33	30.38	10.23	4.67	1.24	84.75	33.94	6.98	7.13	61.48	63.11	68.13
LSD (.05)	270	1.29	0.74	0.38	3.30	1.08	0.32	0.04	1.36	1.71	0.55	0.55	14.95	14.04	12.48
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0105	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	13.21	2.19	7.07	5.03	7.73	7.50	4.89	2.16	1.14	3.60	5.59	5.48	17.32	15.85	13.05
R-Square	0.60	0.90	0.62	0.60	0.41	0.56	0.62	0.78	0.57	0.64	0.83	0.53	0.66	0.59	0.67
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).