

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2016 RBTN trial conducted at Stoneville, MS, location 2. (Cooperator: Jodi Scheffler)

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
	lbs/a	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%	%	%	%
UA 222 CK	1732	41.04	7.75	5.79	30.67	10.65	4.88	1.27	85.10	31.15	6.57	7.03	74.25	73.00	76.75
Ark 0812-87ne	1660	43.68	8.09	5.69	30.72	9.98	5.11	1.21	83.25	29.60	6.35	8.03	48.00	49.75	57.75
MD 16-1	1613	43.69	8.15	5.93	31.79	10.02	5.07	1.16	84.35	31.83	5.43	7.45	38.75	53.50	46.50
Ark 0824-89	1595	41.62	8.31	6.01	30.13	11.32	5.26	1.25	85.58	32.55	5.93	6.98	63.75	72.25	65.25
Ark 0822-48	1583	41.30	8.00	6.09	31.48	10.99	5.37	1.25	84.03	30.53	6.68	7.58	56.50	58.50	62.50
MD 16-2	1550	40.56	7.61	5.91	31.51	10.71	4.21	1.23	84.00	34.33	5.70	7.28	67.75	65.75	77.00
Ark 0818-23	1516	40.81	7.46	5.79	31.68	10.35	5.10	1.24	85.35	30.10	5.80	6.85	62.50	70.25	64.75
Ark 0819-89	1514	38.96	7.05	5.25	29.07	10.60	5.46	1.20	85.33	31.65	5.95	7.10	44.25	62.50	48.25
MS 0043-28-1	1430	41.96	7.49	5.20	29.20	9.89	5.08	1.18	83.68	30.58	5.38	7.48	43.00	50.75	52.00
DP 393 CK	1430	41.96	7.49	5.06	28.32	10.20	5.20	1.20	83.85	31.30	6.35	7.05	44.50	52.50	52.75
GA 2012082	1389	42.04	7.54	5.78	32.23	9.99	4.97	1.20	84.08	29.80	5.90	7.50	50.75	56.25	58.00
AU77082	1386	39.99	7.20	5.62	31.27	10.32	5.09	1.22	84.18	30.10	5.10	7.35	55.50	59.00	62.00
GA 2012141	1383	41.06	7.34	5.29	29.61	10.26	5.01	1.22	84.13	29.48	5.63	7.55	56.75	59.25	63.50
MS 0152-3-11	1366	42.25	7.65	5.60	31.05	9.95	4.83	1.22	84.63	29.80	5.88	7.45	61.00	64.50	66.00
AU82074	1360	40.19	7.31	5.57	30.63	10.43	4.92	1.23	84.48	30.53	5.43	7.30	62.25	64.25	67.75
GA 2011113	1356	41.87	6.72	4.97	30.96	8.84	5.08	1.20	84.60	31.50	5.63	7.00	51.00	60.50	57.25
SG 105 CK	1352	40.12	7.32	5.08	27.86	10.50	5.31	1.17	85.13	29.85	5.83	7.10	38.00	58.75	43.25
GA 2012050	1340	42.02	7.36	5.63	32.11	9.76	4.72	1.23	85.28	31.38	6.25	6.93	67.25	71.25	70.00
DP 493 CK	1338	47.23	7.47	4.66	29.52	7.89	5.47	1.13	82.38	28.08	5.13	8.43	18.00	28.25	29.75
FM 958 CK	1241	39.87	7.48	5.78	30.85	10.89	4.94	1.22	84.40	32.03	4.85	7.33	58.25	61.75	64.25
NM 13G2019	1236	39.23	6.81	5.45	31.42	10.14	4.89	1.25	83.60	32.25	5.78	7.55	65.25	59.00	72.75
PD07040	1201	38.58	6.89	5.74	32.07	10.54	4.90	1.23	83.88	31.00	5.25	7.48	60.50	60.00	68.50
NM 13G1029	1160	40.72	6.87	5.09	30.16	9.52	4.53	1.22	82.55	29.93	5.50	7.88	58.50	50.00	69.75
TAM13Q-18	1115	38.21	6.99	5.63	30.81	10.94	4.75	1.22	84.53	32.05	5.25	7.33	62.00	64.25	67.50
PD09084	1058	37.79	6.75	5.82	32.61	10.63	5.07	1.23	84.43	33.15	5.43	7.13	59.25	62.50	64.75
TAM11L-24	1041	34.45	6.40	5.58	30.08	11.68	4.27	1.34	84.98	33.75	4.80	6.30	92.75	80.25	94.75
PD08028	1038	38.08	6.73	5.97	33.80	10.53	4.56	1.26	85.00	32.53	5.65	6.93	77.50	73.75	80.25
PD09046	598	33.89	5.42	4.91	30.67	10.22	4.11	1.33	83.63	33.30	4.53	6.58	88.75	69.50	94.75
Mean	1342	40.47	7.27	5.53	30.80	10.28	4.93	1.22	84.30	31.22	5.64	7.28	58.09	61.13	64.22
Cultivar LSD (.05)	135	1.50	0.42	0.44	2.63	0.55	0.22	0.03	1.14	1.44	0.31	0.43	12.11	11.91	9.63
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0118	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	7.16	2.63	4.15	5.70	6.07	3.83	3.24	1.92	0.96	3.28	3.93	4.24	14.81	13.85	10.66
R-Square	0.89	0.89	0.84	0.67	0.40	0.83	0.86	0.82	0.57	0.75	0.89	0.73	0.81	0.66	0.85
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Values in bold are not significantly different from highest value according to LSD(0.05).

¹ QS1, QS2, and QS3 - Qscore, 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 (0.5), mic (0.25), UI (0.15), and strength (0.10) ; QS2 - fiber length (0.2), mic (0.1), UI (0.4), and strength (0.3); QS3 - fiber length (0.45), mic (0.25), UI (0.0), and strength (0.3).