

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2016 RBTN trial conducted at Stoneville, MS, 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
	lbs/a	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%	%	%	%
UA 222 CK	1403	40.47	7.73	5.77	30.19	11.30	5.06	1.23	85.03	34.08	6.72	6.93	65.50	67.50	70.00
MD 16-1	1358	43.14	7.74	5.73	31.94	10.13	5.07	1.16	84.68	34.55	5.48	7.03	42.25	56.00	50.25
Ark 0812-87ne	1354	42.28	7.62	5.61	31.14	10.33	5.05	1.20	84.75	32.08	6.35	7.25	54.75	60.75	60.75
GA 2011113	1330	41.65	6.34	4.41	29.01	8.80	5.04	1.19	85.30	34.90	5.85	6.65	55.00	65.25	60.00
GA 2012141	1294	40.33	7.21	5.44	30.43	10.60	5.09	1.19	83.93	33.20	5.70	7.50	48.00	52.75	57.25
GA 2012082	1278	42.55	7.88	5.60	30.27	10.55	4.96	1.18	83.60	32.63	5.98	7.50	47.00	49.50	57.00
Ark 0822-48	1248	40.10	7.98	5.80	29.13	11.83	5.33	1.23	84.93	34.70	6.78	7.15	60.25	65.00	65.50
Ark 0824-89	1190	40.28	8.12	5.83	28.99	11.95	5.48	1.21	86.35	35.95	6.03	6.53	54.25	72.75	57.00
AU82074	1189	38.91	6.96	5.57	31.14	10.85	4.83	1.22	84.63	34.43	5.23	7.08	63.75	64.25	70.50
DP 393 CK	1185	40.46	7.17	5.36	30.25	10.48	5.06	1.19	84.83	34.25	6.63	6.83	51.25	60.00	57.75
MS 0043-28-1	1155	40.74	6.95	5.13	30.07	10.00	5.27	1.15	83.38	32.48	5.68	7.55	32.25	42.25	44.00
MD 16-2	1154	39.28	7.19	6.02	32.88	11.05	4.36	1.22	84.43	38.93	5.85	7.08	69.00	68.75	79.00
AU77082	1139	40.25	7.05	5.25	29.96	10.38	5.36	1.20	84.45	33.40	5.13	7.33	49.50	56.50	56.25
SG 105 CK	1115	40.20	7.30	5.16	28.44	10.78	5.46	1.14	84.50	32.08	5.80	7.33	29.25	48.75	37.75
DP 493 CK	1102	43.11	6.61	4.69	30.58	8.60	5.39	1.13	82.85	32.65	5.20	7.88	23.75	35.00	37.50
NM 13G2019	1087	40.56	6.77	4.68	28.05	9.85	4.82	1.26	84.10	35.73	5.35	7.28	74.75	66.00	82.25
TAM13Q-18	1083	37.79	6.70	5.05	28.48	10.95	4.59	1.18	83.63	34.63	5.33	7.68	54.50	53.50	65.00
GA 2012050	1082	39.97	6.92	5.70	32.93	10.30	4.87	1.22	85.65	35.68	6.33	6.85	67.00	73.50	71.50
Ark 0818-23	1062	40.45	7.35	5.42	29.82	10.75	5.05	1.19	84.48	34.10	5.90	7.40	51.25	57.75	58.50
MS 0152-3-11	1025	40.31	7.07	5.48	31.25	10.38	4.88	1.24	85.18	32.58	5.58	7.08	71.75	70.50	75.25
NM 13G1029	1006	39.32	6.21	4.57	28.98	9.50	4.38	1.21	83.63	34.23	5.38	7.40	64.00	57.50	73.25
PD07040	1001	37.25	6.57	5.55	31.47	11.00	4.93	1.22	84.60	34.60	5.48	7.18	63.00	63.25	69.25
PD08028	990	35.86	6.14	5.52	32.26	10.90	4.67	1.25	85.00	36.38	5.53	7.08	78.00	74.25	83.50
Ark 0819-89	979	37.87	6.81	5.22	29.01	11.10	5.30	1.21	85.43	36.03	6.20	6.78	57.25	68.50	62.50
TAM11L-24	831	33.66	6.46	5.12	26.70	12.63	4.32	1.35	86.23	37.80	4.75	6.15	97.00	91.50	98.25
FM 958 CK	804	38.44	7.07	5.63	30.65	11.23	4.96	1.19	84.85	35.10	4.75	7.25	55.00	62.50	62.00
PD09084	802	35.04	5.89	4.87	28.98	10.83	4.80	1.23	84.88	37.50	5.48	6.95	70.75	71.50	78.00
PD09046	586	32.93	5.36	4.46	27.50	10.85	4.58	1.28	83.95	37.00	4.78	7.20	83.25	69.50	91.50
Mean	1101	39.40	6.97	5.31	30.02	10.64	4.96	1.21	84.61	34.70	5.68	7.14	58.33	62.31	65.40
Cultivar LSD (.05)	133	1.08	0.38	0.40	2.28	0.48	0.18	0.03	1.00	1.80	0.26	0.45	11.07	10.47	9.03
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(%)	8.59	1.95	3.81	5.30	5.41	3.18	2.55	1.80	0.84	3.68	3.30	4.49	13.50	11.94	9.81
R-Square	0.85	0.94	0.89	0.77	0.56	0.89	0.90	0.85	0.65	0.73	0.92	0.64	0.85	0.76	0.87
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).