

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2014 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 [†]	QS2 [†]
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%		
NM12Y1005	1786	44.56	8.06	5.98	33.08	9.97	5.03	1.08	83.43	26.88	4.35	8.05	20.25	22.00
DP 393 ck	1659	42.90	7.66	5.56	31.18	10.15	4.78	1.19	85.35	31.25	5.10	7.20	59.25	70.25
Ark 0615-38	1622	40.86	7.53	5.86	31.81	10.80	4.72	1.19	84.90	31.33	4.20	7.30	57.25	67.25
LA11309040	1619	45.11	7.99	5.51	31.22	9.69	4.97	1.18	85.38	30.40	5.40	7.05	52.00	67.50
OA-173	1607	42.70	7.36	5.72	33.20	9.84	5.08	1.20	85.25	30.00	4.45	7.38	54.00	66.75
Ark 0614-49	1604	41.60	7.29	5.99	34.20	10.21	4.76	1.22	85.40	31.08	5.30	6.98	66.00	71.75
UA 222 ck	1576	41.20	7.98	5.75	29.69	11.38	4.72	1.26	85.88	30.28	5.52	6.95	81.25	77.50
GA 2009037	1573	43.07	7.21	5.63	33.68	9.49	4.76	1.20	83.45	29.60	4.00	8.00	56.75	59.25
MS 0043-28 -1	1568	43.42	7.31	5.38	31.97	9.47	4.89	1.15	83.98	30.05	4.40	7.38	41.00	58.25
MS 0045-14 -5	1554	43.09	7.23	6.05	36.05	9.52	4.44	1.16	84.58	29.93	4.38	7.50	52.25	65.25
MD10-6	1546	43.08	7.68	5.94	33.28	10.14	4.40	1.18	85.58	30.28	4.43	6.90	58.75	71.75
NM12Y1004	1516	43.67	8.25	6.24	33.00	10.63	4.69	1.14	84.43	28.75	4.48	7.65	44.25	62.25
GA 2009100	1506	40.26	7.10	5.82	33.02	10.51	5.06	1.20	84.73	31.85	3.63	7.28	53.50	64.25
GA 2010074	1505	42.15	8.03	5.92	31.05	10.98	4.91	1.21	85.50	30.65	4.50	7.13	62.25	70.75
LA11309062	1492	43.71	8.16	6.36	34.10	10.43	4.86	1.21	85.13	30.50	4.80	7.23	62.25	69.00
SG 105 ck	1486	41.65	7.74	5.72	30.76	10.79	5.04	1.18	86.33	29.53	4.85	6.93	52.50	73.00
Ark 0614-34	1428	41.99	7.64	6.06	33.30	10.47	4.82	1.25	86.70	30.18	5.33	6.90	78.50	81.00
NM12Y1002	1422	40.27	6.37	5.13	32.55	9.39	4.47	1.17	84.80	29.73	5.48	7.68	55.00	66.75
MS 0040-19 -4	1414	41.39	7.64	5.67	30.71	10.77	4.58	1.19	83.65	29.40	4.55	7.83	54.75	60.25
OA-185	1403	44.08	7.83	5.44	30.63	9.87	4.78	1.19	84.88	29.58	4.10	7.48	55.75	66.75
LA11309005	1398	40.55	7.30	5.86	32.55	10.66	4.75	1.23	84.80	31.28	3.88	7.20	68.75	69.00
AU51038	1379	43.03	6.69	5.32	34.23	8.83	4.14	1.23	84.35	31.43	4.20	7.63	71.25	67.75
AU91411	1370	39.89	7.81	6.14	31.37	11.67	4.80	1.21	85.25	31.25	4.40	7.23	62.75	70.00
DP 491 ck	1349	42.41	7.44	5.92	33.74	10.06	4.60	1.25	85.28	32.38	3.80	7.33	77.75	74.00
PX06520-42-2-1	1299	41.42	7.81	5.95	31.55	11.00	4.51	1.29	86.68	35.90	4.50	6.75	95.50	94.50
FM 958 ck	1284	41.02	7.81	5.90	31.00	11.20	4.59	1.20	84.88	32.43	3.53	7.23	61.50	68.25
AU52034	1241	40.42	7.12	6.00	34.07	10.47	4.47	1.25	84.88	32.98	4.08	7.13	76.75	71.50
PD 07116	1235	40.94	6.83	5.45	32.65	9.82	4.62	1.24	84.68	31.68	3.68	7.10	74.75	70.00
PD 08039	1113	35.25	6.27	5.87	33.00	11.46	4.20	1.29	84.18	30.95	4.08	7.25	86.25	69.75
PD 07066	1027	38.10	6.72	5.49	31.11	10.85	4.25	1.22	85.05	32.05	4.28	7.10	69.25	71.25
Mean	1453	41.79	7.46	5.79	32.46	10.35	4.69	1.20	84.98	30.78	4.45	7.29	62.07	67.92
LSD (.05)	192	1.19	0.39	0.45	2.28	0.60	0.19	0.03	1.12	1.24	0.33	0.48	11.69	10.08
CV(%)	9.41	2.02	3.68	5.59	5.00	4.13	2.88	1.69	0.94	2.86	5.22	4.73	13.40	10.56
R-Square	0.67	0.88	0.83	0.51	0.51	0.78	0.83	0.86	0.58	0.81	0.89	0.54	0.81	0.76
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Shaded values are not significantly different from highest value according to LSD(0.05).

[†] QS1 & QS2 = 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