

Table 3. Least square means for lint yield, lint percentage, and fiber quality traits in the 2014 RBTN trial conducted at Alexandria, LA. (Cooperator: Gerald Myers)

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	1557	42.59	7.16	5.45	32.46	9.43	4.70	1.09	83.70	28.97	6.93	8.23	39.00	53.67
FM 958 ck	1494	39.92	7.42	6.17	33.23	11.03	4.73	1.15	83.40	31.60	4.67	7.17	55.33	65.00
LA11309040	1483	42.62	6.86	5.09	31.61	9.20	4.30	1.13	83.97	31.23	7.43	8.13	57.33	69.33
PX06520-42-2-1	1454	39.36	7.21	5.96	32.53	10.93	4.23	1.25	84.87	34.27	6.87	7.13	91.00	83.33
DP 491 ck	1450	42.12	7.11	5.98	35.37	9.73	4.57	1.17	83.40	32.07	5.37	8.60	65.00	67.33
Ark 0614-49	1424	40.10	6.68	5.85	35.12	9.87	4.57	1.19	84.70	31.60	7.80	6.67	74.00	76.00
LA11309062	1418	41.90	7.23	6.35	36.82	9.93	4.50	1.18	84.50	31.83	7.00	7.53	70.00	74.00
NM12Y1004	1412	42.22	7.33	5.44	31.27	9.90	4.40	1.12	83.10	29.23	6.87	9.00	50.67	63.00
AU51038	1366	42.03	6.46	5.12	33.18	8.77	4.03	1.22	83.60	31.83	5.83	7.60	81.00	72.00
MS 0045-14 -5	1348	39.85	6.22	5.65	36.08	9.30	4.33	1.13	83.07	29.57	6.87	7.97	53.67	63.33
Ark 0614-34	1338	40.66	6.89	5.60	33.13	9.90	4.77	1.20	85.20	31.23	7.83	6.93	71.33	76.67
OA-185	1334	41.19	6.70	5.38	33.13	9.47	4.47	1.12	83.20	29.70	6.63	8.00	50.67	61.00
NM12Y1002	1320	39.67	5.60	4.82	34.09	8.43	4.33	1.11	83.47	31.03	8.57	8.43	49.33	64.67
MS 0043-28 -1	1269	40.03	6.66	5.43	32.63	9.90	4.50	1.13	84.00	31.47	6.03	7.47	53.33	68.33
GA 2009100	1263	39.39	6.55	5.69	34.24	9.93	4.93	1.15	84.07	31.53	5.47	7.63	52.67	67.00
AU52034	1263	39.73	6.61	5.95	35.75	9.87	4.40	1.21	84.47	32.47	6.13	7.07	81.67	77.00
DP 393 ck	1239	40.44	6.89	5.49	32.16	9.97	4.67	1.15	83.70	31.70	7.40	7.37	58.00	67.00
MS 0040-19 -4	1229	39.09	6.61	5.50	32.51	10.17	4.10	1.18	83.30	30.67	6.90	7.97	67.33	67.67
GA 2010074	1223	41.70	7.07	5.24	30.93	9.77	4.63	1.16	84.00	30.57	6.50	7.57	63.00	70.67
MD10-6	1206	42.60	6.93	5.53	33.98	9.23	4.17	1.13	83.60	31.80	6.03	7.90	54.33	66.67
OA-173	1184	40.06	6.58	5.29	32.19	9.73	4.47	1.15	83.93	29.87	6.23	8.20	61.67	69.67
GA 2009037	1182	42.10	6.15	4.80	32.84	8.37	4.53	1.16	83.00	30.10	6.00	8.37	59.67	64.00
Ark 0615-38	1165	40.12	6.91	5.53	32.06	10.23	4.77	1.16	84.03	30.87	6.27	7.40	58.00	68.33
SG 105 ck	1164	39.37	7.14	5.33	29.40	10.77	4.60	1.16	84.83	31.10	6.40	7.17	66.67	75.67
UA 222 ck	1155	41.39	7.20	4.93	28.22	10.10	4.23	1.19	83.63	32.53	7.47	7.53	72.33	70.33
PD 07116	1120	41.67	6.38	5.13	33.51	8.80	4.53	1.18	84.10	32.60	5.93	6.83	72.00	72.67
AU91411	1119	38.17	7.20	6.20	32.82	11.53	4.73	1.19	85.07	33.77	6.67	7.27	72.33	79.00
PD 07066	1079	38.24	5.94	5.20	33.52	9.50	4.13	1.17	83.00	32.30	6.70	7.27	64.67	65.33
LA11309005	1055	38.11	6.48	5.62	33.04	10.43	4.20	1.18	83.43	31.10	6.23	7.50	68.00	68.00
PD 08039	887	34.25	5.59	5.36	32.82	10.70	3.73	1.22	82.23	30.03	6.80	8.53	69.33	61.00
Mean	1273	40.36	6.73	5.50	33.02	9.83	4.44	1.16	83.82	31.29	6.59	7.68	63.44	68.92
LSD (.05)	222	1.92	0.47	0.52	2.59	0.87	0.34	0.04	1.53	1.93	1.06	1.16	16.86	12.27
CV(%)	12.41	2.90	4.31	5.75	4.81	5.44	4.70	2.21	1.12	3.77	4.82	9.27	16.26	10.89
R-Square	0.56	0.81	0.81	0.71	0.66	0.77	0.72	0.76	0.47	0.64	0.72	0.50	0.65	0.53
Reps	4	3	3	3	3	3	3	3	3	3	3	3	3	3

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