

Table 6. Least square means for lint yield , yield components, and fiber quality traits in the 2014 RBTN trial conducted at Keiser, AR. (Cooperator: Fred Bourland)

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	%	%		
LA11309040	1296	45.60	8.85	5.09	26.15	10.30	5.18	1.18	85.23	30.65	5.53	7.15	39.50	63.00
Ark 0614-49	1294	39.35	7.54	5.55	28.90	11.41	4.92	1.24	86.38	32.13	5.33	6.43	65.50	75.75
FM 958 ck	1248	40.91	8.22	6.06	30.14	11.65	4.76	1.21	84.48	32.35	3.45	7.23	55.25	63.75
OA-173	1188	40.04	6.83	5.34	31.26	9.88	4.83	1.21	84.78	31.63	4.35	7.23	55.75	65.25
Ark 0614-34	1187	39.84	7.75	5.30	27.29	11.45	4.91	1.25	86.08	31.35	5.45	6.85	68.75	74.75
UA 222 ck	1180	40.93	8.01	5.52	28.25	11.34	4.61	1.26	85.23	31.98	5.60	7.07	74.50	72.25
GA 2009100	1177	37.22	6.86	5.73	31.10	11.19	5.06	1.21	85.63	34.35	3.73	6.98	54.50	71.25
MD10-6	1173	40.59	7.60	5.22	27.96	10.72	4.45	1.20	85.33	33.65	4.65	6.98	59.50	71.25
PX06520-42-2-1	1153	39.87	8.55	5.11	23.87	12.58	4.73	1.30	85.70	37.38	4.65	6.60	88.00	86.75
MS 0045-14 -5	1144	41.38	7.98	5.68	29.46	11.06	4.78	1.18	85.33	32.90	4.53	7.08	50.75	68.75
NM12Y1004	1137	39.90	7.81	5.54	28.30	11.34	4.65	1.17	84.65	30.20	4.43	7.28	47.50	63.75
OA-185	1120	39.33	6.84	4.74	27.27	10.26	4.48	1.18	84.23	31.60	4.53	7.30	50.25	62.25
MS 0043-28 -1	1118	39.75	7.31	4.80	26.10	10.77	4.65	1.20	85.45	31.75	4.70	6.95	57.00	70.00
LA11309062	1106	41.26	8.12	6.06	30.85	11.12	4.73	1.22	84.58	32.33	4.83	7.38	59.50	65.25
GA 2010074	1102	40.53	7.85	5.62	29.00	11.24	4.85	1.22	84.88	31.40	4.50	7.23	59.00	66.75
NM12Y1005	1098	40.83	7.42	5.63	30.96	10.37	4.68	1.14	84.63	29.10	4.55	7.28	38.75	55.50
LA11309005	1097	38.37	7.70	4.95	24.67	12.00	4.64	1.25	84.53	33.48	3.98	7.15	70.50	68.75
DP 393 ck	1089	40.32	7.25	5.48	30.46	10.48	4.74	1.22	85.40	32.28	5.20	6.83	62.50	70.75
AU51038	1084	39.15	6.55	7.00	41.85	9.89	4.15	1.26	84.65	31.90	4.03	7.15	76.00	70.00
AU52034	1080	39.21	7.23	5.31	28.75	10.91	4.63	1.26	85.35	34.55	4.25	6.98	74.50	75.00
SG 105 ck	1058	38.48	7.25	4.95	26.24	11.17	4.73	1.20	85.73	30.78	4.83	6.90	55.00	70.50
PD 07066	1057	36.60	7.14	5.98	30.77	12.02	4.38	1.27	86.13	33.73	4.50	6.63	80.50	79.75
GA 2009037	1034	39.63	6.93	5.25	30.04	10.32	4.86	1.22	84.03	31.85	4.43	7.43	56.25	61.00
Ark 0615-38	1026	37.88	7.40	5.10	26.29	11.80	4.72	1.23	85.73	34.25	4.33	6.85	66.50	75.00
MS 0040-19 -4	1007	38.36	7.44	5.48	28.38	11.52	4.54	1.19	84.05	30.73	4.33	7.60	53.50	62.00
NM12Y1002	961	37.27	6.18	5.29	31.95	10.07	4.50	1.20	84.83	31.08	5.68	7.25	55.50	66.25
AU91411	930	37.08	7.36	5.36	27.01	12.01	4.52	1.23	84.68	33.05	4.38	7.18	64.75	67.75
DP 491 ck	861	38.90	6.80	4.94	28.28	10.45	4.08	1.27	84.58	32.03	3.78	7.28	77.00	69.75
PD 08039	756	32.81	6.36	5.34	27.63	12.72	4.32	1.29	85.63	32.28	4.20	6.70	85.75	77.25
PD 07116	712	38.30	7.12	5.85	31.58	11.04	4.98	1.23	84.10	34.35	3.98	7.03	57.00	64.00
Mean	1082	39.32	7.41	5.44	29.03	11.10	4.67	1.22	85.06	32.37	4.55	7.06	61.98	69.13
LSD (.05)	185	1.61	0.63	1.10	5.96	0.67	0.30	0.03	1.01	1.37	0.38	0.43	11.63	7.81
CV(%)	12.15	2.92	6.02	14.38	14.61	4.29	4.52	1.84	0.84	3.02	5.90	4.36	13.35	8.04
R-Square	0.59	0.82	0.72	0.31	0.43	0.77	0.66	0.78	0.54	0.79	0.86	0.50	0.76	0.65
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