

Table 5. Least square means for lint yield, yield components, and fiber quality traits in the 2014 RBTN trial conducted at Florence, SC. (Cooperator: Todd Campbell)

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	%	%		
Ark 0614-49	1141	42.74	6.95	5.59	34.26	9.25	4.91	1.11	82.40	30.08	5.15	8.73	66.75	68.75
Ark 0614-34	1017	42.55	7.36	5.51	31.94	9.75	5.04	1.06	81.80	28.23	5.13	9.43	45.50	51.00
DP 393 ck	987	43.83	7.44	5.26	31.05	9.30	4.75	1.08	82.38	30.15	5.13	8.28	59.75	67.75
NM12Y1005	940	44.48	7.55	5.63	33.24	9.30	5.05	1.05	82.08	29.10	5.03	8.78	45.25	57.50
MS 0043-28 -1	917	44.17	7.55	5.38	31.39	9.35	4.85	1.08	82.80	30.20	5.50	8.73	60.75	69.00
MS 0040-19 -4	867	42.65	7.14	6.00	35.90	9.45	5.08	1.07	81.63	29.60	5.18	8.95	50.25	61.50
GA 2009100	867	41.34	6.45	5.65	35.99	9.05	4.78	1.08	82.40	30.45	5.23	8.40	60.00	67.25
GA 2010074	865	43.10	7.35	5.78	33.86	9.60	4.90	1.12	82.93	29.80	5.13	8.48	69.25	72.00
AU91411	862	41.53	7.45	5.80	32.22	10.35	4.64	1.09	81.90	29.50	5.73	8.90	64.50	66.00
AU51038	858	43.87	6.68	5.47	36.09	8.40	4.65	1.11	82.78	31.73	5.05	8.65	71.00	74.75
PX06520-42-2-1	846	41.92	7.63	5.84	32.14	10.50	5.02	1.10	82.83	31.20	5.53	8.47	63.50	72.50
OA-173	829	43.34	6.42	5.45	36.99	8.35	4.77	1.08	82.83	30.78	4.90	8.58	63.25	71.00
PD 07066	826	40.43	6.99	5.82	33.70	10.25	4.56	1.10	83.03	30.83	5.00	8.28	68.75	72.75
SG 105 ck	814	43.25	7.21	5.36	32.15	9.35	4.94	1.07	82.35	29.05	5.35	8.73	51.75	63.00
MS 0045-14 -5	805	42.99	7.03	5.89	36.02	9.15	4.76	1.09	82.70	30.93	4.60	8.20	62.50	69.50
LA11309040	804	47.01	7.79	4.75	28.77	8.65	4.55	1.08	82.38	29.88	5.85	8.68	53.50	64.25
GA 2009037	799	43.21	6.94	4.60	28.67	9.00	4.75	1.10	82.33	30.65	4.93	8.70	63.25	67.75
AU52034	784	42.72	6.66	5.33	34.31	8.87	5.07	1.10	83.13	30.93	5.53	8.00	61.75	73.50
FM 958 ck	745	42.54	7.66	5.92	32.89	10.20	4.98	1.09	82.93	29.13	4.93	8.43	60.00	70.00
Ark 0615-38	731	41.80	7.62	5.60	30.90	10.50	4.97	1.07	81.83	29.03	4.70	9.05	50.50	56.75
LA11309062	724	45.70	7.51	5.47	33.26	8.80	4.80	1.07	82.33	28.80	5.18	8.93	57.75	66.00
NM12Y1004	695	45.50	8.21	5.42	30.02	9.65	5.03	1.07	83.23	29.05	5.03	8.33	54.25	70.00
LA11309005	687	42.01	6.80	5.72	35.46	9.25	4.82	1.14	83.05	33.33	4.85	8.55	78.25	80.00
MD10-6	682	43.83	7.49	5.50	32.27	9.45	5.06	1.09	82.43	30.30	5.10	8.43	57.25	66.50
NM12Y1002	635	39.84	5.68	4.77	33.46	8.55	4.91	1.09	82.93	30.68	5.63	8.25	62.75	70.75
OA-185	612	43.15	6.66	5.21	33.82	8.60	4.97	1.08	81.98	29.58	4.98	8.68	56.00	62.75
PD 08039	589	38.58	6.41	5.42	32.47	10.10	4.82	1.06	81.78	28.95	4.45	9.08	51.75	62.75
UA 222 ck	546	44.21	7.78	5.63	32.21	9.70	5.00	1.06	82.58	29.33	5.47	8.83	50.50	66.25
DP 491 ck	490	44.67	6.87	4.90	31.95	8.40	4.73	1.07	81.93	29.43	5.43	8.63	55.00	63.25
PD 07116	.	40.33	5.68	4.71	33.58	8.30	4.69	1.08	82.35	29.80	4.78	9.00	57.75	57.25
Mean	792	43.00	7.15	5.47	33.01	9.35	4.87	1.08	82.47	30.02	5.16	8.62	59.15	67.06
LSD (.05)	193	2.11	0.62	0.99	5.96	0.85	0.47	0.06	1.43	2.74	0.79	0.88	22.86	15.62
CV(%)	17.33	3.50	6.24	12.94	12.85	6.52	6.82	3.99	1.23	6.49	10.87	7.24	27.52	16.65
R-Square	0.60	0.66	0.71	0.32	0.31	0.62	0.27	0.25	0.22	0.28	0.42	0.25	0.25	0.29
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