

Table 6. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Jackson, TN. (Cooperator: Chris Main)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 <sup>†</sup>	QS2 <sup>†</sup>
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%		
MD 10-5	1311	38.82	6.04	4.70	30.15	9.26	5.50	1.17	84.15	33.68	5.80	7.10	49.50	65.75
AU90915	1243	38.63	6.83	5.33	30.25	10.51	5.65	1.17	84.30	32.90	6.28	7.05	47.50	65.00
GA 2009100	1155	39.91	6.84	4.59	26.82	10.01	5.28	1.21	83.18	32.85	4.68	7.35	60.25	62.50
Ark 0409-17	1113	39.52	7.02	5.14	28.90	10.51	5.63	1.17	84.55	31.15	5.80	7.08	48.50	67.00
AU91411	1099	36.68	7.17	5.64	28.84	12.01	5.65	1.21	84.43	34.15	5.38	6.75	58.50	69.25
AU91215	1098	37.30	6.27	5.04	30.01	10.26	5.60	1.17	83.40	30.93	5.43	7.90	45.25	60.00
GA 2008083	1097	38.49	6.62	4.99	29.31	10.26	5.65	1.20	84.10	32.35	5.15	7.08	53.75	65.25
Tamcot 73	1083	37.10	6.37	4.87	28.47	10.51	5.55	1.19	83.83	33.55	5.18	7.30	52.00	63.75
Arkot 0407-4	1072	39.92	7.86	5.59	28.39	11.51	5.95	1.11	83.43	30.40	4.40	7.43	24.00	54.75
PD05074	1070	38.59	6.65	4.73	27.53	10.26	5.55	1.20	83.50	33.95	4.90	7.35	53.50	62.75
AU91111	1062	36.17	5.87	4.52	27.87	10.02	5.33	1.17	83.68	30.70	5.63	7.35	49.00	63.00
AU90810	1055	35.26	6.05	4.97	29.03	10.76	5.33	1.23	84.50	31.63	5.50	7.20	68.50	71.25
DP 393	1044	36.87	6.32	4.50	26.25	10.51	5.63	1.19	84.58	33.53	6.65	6.83	52.75	68.00
NM11Q1008	1044	36.75	5.45	4.28	28.93	9.26	5.65	1.14	82.98	30.33	4.70	7.95	34.50	55.75
PD06078	1043	36.61	6.18	4.63	27.74	10.38	5.60	1.22	84.18	33.78	5.20	7.00	60.25	69.00
GA 2004143	1035	39.27	6.39	4.30	26.40	9.51	5.33	1.18	83.10	32.53	4.18	7.70	51.00	60.25
LA08310066	1000	36.01	6.21	4.93	28.59	10.76	5.63	1.20	84.33	32.95	5.28	7.28	54.75	67.00
SG 105	999	38.46	7.08	4.80	26.08	11.01	5.40	1.17	83.90	33.65	4.00	7.33	48.75	64.25
PD05071	999	35.95	5.93	4.69	28.53	10.27	5.53	1.17	84.03	32.53	4.95	6.98	48.25	64.50
PD06001	996	35.87	6.33	5.12	29.00	11.13	5.33	1.21	83.53	32.90	4.45	7.25	60.00	64.25
Ark 0409-16	959	38.98	7.13	4.70	25.61	10.88	5.40	1.12	81.95	29.48	5.28	8.33	33.00	50.50
PD05064	948	36.80	6.19	5.39	32.03	10.26	5.53	1.24	84.58	36.15	5.00	6.98	71.75	77.75
TAM 06WE-62-1	947	35.33	6.65	6.27	33.36	11.88	5.00	1.24	85.88	39.50	5.35	6.60	83.25	92.25
Acala 1517-08	945	34.16	5.83	4.45	26.13	11.01	5.28	1.26	84.93	38.13	5.18	6.85	79.00	84.25
MD 26ne	942	36.30	6.45	4.73	26.62	11.13	5.35	1.31	86.50	35.03	5.33	6.25	87.00	87.00
FM 958	937	36.58	6.94	5.07	26.65	11.64	5.85	1.16	84.48	31.93	5.58	6.93	42.50	64.75
NC11AZ01	929	39.19	6.97	5.24	29.49	10.51	5.65	1.16	83.28	34.08	4.03	7.63	42.25	59.75
MD 87	922	35.54	6.87	5.26	27.34	12.14	5.50	1.22	85.65	37.10	4.45	6.75	70.25	85.25
GA 2008057	904	36.39	5.81	4.28	26.86	9.88	5.08	1.19	82.60	33.40	5.55	7.43	56.75	62.00
Arkot 0410-32	891	36.39	6.56	4.40	24.49	11.13	5.48	1.17	84.45	32.73	5.40	6.93	49.50	67.00
Ark 0403-3	867	36.78	5.90	4.14	25.92	9.76	5.43	1.18	83.95	34.13	5.18	7.23	52.50	66.50
Barbren 713	845	33.89	6.03	5.19	29.22	11.51	5.40	1.14	82.98	32.15	4.68	7.53	38.75	57.00
NM11Q1157	830	34.53	5.90	4.71	27.55	10.88	5.35	1.18	83.58	33.38	6.08	6.98	52.25	63.25
<b>Mean</b>	1015	37.06	6.45	4.88	28.13	10.65	5.48	1.19	84.01	33.26	5.17	7.20	53.92	66.68
<b>LSD (.05)</b>	135	1.40	0.55	0.63	3.82	0.86	0.23	0.04	1.27	1.49	0.45	0.58	13.21	9.13
<b>CV(%)</b>	9.45	2.69	6.13	9.16	9.67	5.76	2.98	2.36	1.08	3.18	6.14	5.74	17.45	9.76
<b>R-Square</b>	0.64	0.73	0.70	0.56	0.39	0.66	0.66	0.73	0.58	0.85	0.83	0.58	0.74	0.73
<b>Reps</b>	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).

<sup>†</sup> 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 as follows: QS1 - fiber length (0.5), mic (0.25), UI (0.1), and strength (0.15) ; QS2 - fiber length (0.1), mic (0.1), UI (0.3), and strength (0.5)