

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Mississippi State, MS . (Cooperator: Jack McCarty)

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	%	%		
GA 2009100	1454	44.89	7.75	5.74	33.30	9.50	4.55	1.20	83.88	33.38	5.03	7.23	64.50	67.75
PD05074	1303	42.46	6.94	5.28	32.34	9.39	4.87	1.20	83.93	33.73	5.20	7.20	60.75	66.75
NM11Q1008	1296	40.16	6.01	4.62	30.99	8.94	4.69	1.17	83.33	32.35	5.35	7.63	53.75	62.50
Arkot 0407-4	1255	43.48	8.60	6.21	31.46	11.18	5.20	1.15	84.65	32.55	4.98	6.85	43.00	66.50
MD 26ne	1254	41.65	7.56	5.79	31.93	10.58	4.73	1.26	85.93	34.33	5.38	6.70	86.00	85.00
SG 105	1197	43.02	7.95	5.72	30.94	10.53	4.75	1.16	83.25	32.90	4.60	7.40	49.25	61.00
NC11AZ01	1196	43.36	7.26	4.89	29.06	9.49	4.70	1.18	83.98	34.23	4.60	7.48	56.50	68.00
MD 10-5	1178	44.40	6.65	5.72	41.05	8.29	5.02	1.17	84.33	34.40	6.33	6.95	50.75	68.50
NM11Q1157	1168	41.35	6.73	4.71	28.95	9.54	4.53	1.14	82.63	33.15	6.63	7.30	45.75	57.50
Ark 0409-17	1163	43.11	7.95	5.68	30.79	10.49	5.00	1.18	84.58	30.98	6.10	6.78	54.25	68.50
GA 2008057	1156	39.50	6.31	4.75	29.79	9.65	4.53	1.24	83.90	33.43	6.13	7.05	77.00	71.00
GA 2008083	1145	43.48	7.39	4.72	27.72	9.61	4.89	1.21	84.13	33.68	5.50	7.08	63.75	69.25
AU91111	1133	39.55	6.19	5.06	32.30	9.45	4.71	1.24	83.48	31.43	5.78	7.38	71.50	66.50
Ark 0403-3	1126	39.76	5.85	4.45	30.23	8.86	5.09	1.18	84.65	34.33	5.68	6.78	52.50	69.75
FM 958	1114	41.48	7.25	5.08	29.06	10.21	5.22	1.16	84.78	30.90	5.85	6.83	45.00	66.75
Ark 0409-16	1109	41.22	7.67	5.51	29.54	10.94	5.01	1.16	83.38	30.48	5.85	7.33	45.50	60.25
DP 393	1107	40.65	6.62	5.19	31.93	9.65	4.74	1.19	84.13	32.43	6.53	6.93	58.75	67.75
AU91215	1093	40.55	6.75	5.39	32.49	9.88	4.82	1.18	83.58	31.65	6.18	7.13	55.25	64.00
AU90915	1089	42.19	7.39	5.30	30.27	10.13	5.10	1.19	84.93	32.75	6.60	6.83	57.50	71.25
MD 87	1088	39.59	7.74	6.24	31.90	11.82	4.84	1.25	84.80	36.18	4.88	6.83	78.50	81.00
GA 2004143	1070	44.50	7.60	4.99	29.24	9.48	4.84	1.23	84.60	34.68	4.90	7.13	72.25	75.25
Barbren 713	989	37.57	6.37	5.50	32.51	10.58	4.92	1.11	82.08	30.95	5.10	7.68	31.25	50.75
Acala 1517-08	972	39.97	7.28	5.43	29.81	10.94	4.94	1.25	84.43	36.43	5.68	6.73	73.75	78.00
AU91411	970	40.05	7.63	5.46	28.83	11.41	4.92	1.23	84.35	33.68	5.53	6.83	68.75	70.50
PD05064	956	43.08	7.51	5.62	32.26	9.94	4.91	1.19	83.90	34.48	5.63	7.00	56.75	67.75
PD06001	948	39.49	6.93	5.16	29.46	10.61	4.78	1.21	83.18	32.48	4.80	7.35	63.25	63.50
AU90810	936	40.13	7.08	5.47	30.99	10.57	4.65	1.23	84.38	32.60	5.70	7.18	74.00	72.25
LA08310066	905	41.66	7.37	5.28	29.78	10.32	5.04	1.15	82.88	33.45	5.88	7.75	41.00	57.00
Tamcot 73	897	40.95	7.27	5.85	32.98	10.48	4.87	1.22	84.30	35.60	6.22	6.78	69.00	74.50
PD06078	829	42.41	7.45	5.42	30.86	10.11	5.10	1.20	85.10	33.58	6.05	6.75	61.25	72.50
PD05071	820	40.35	7.41	5.77	31.52	10.95	4.75	1.18	84.88	33.38	5.40	6.78	61.00	72.75
TAM 06WE-62-1	802	40.13	7.91	6.66	33.72	11.80	4.81	1.24	85.75	38.73	5.75	6.73	81.50	90.50
Arkot 0410-32	789	38.71	7.09	5.40	29.52	11.21	5.15	1.19	85.58	33.50	6.18	6.48	57.25	75.00
Mean	1076	41.36	7.20	5.40	31.14	10.20	4.87	1.19	84.17	33.42	5.63	7.05	60.02	69.08
LSD (.05)	256	1.39	0.73	0.51	4.45	0.75	0.26	0.03	1.08	1.61	0.51	0.46	12.55	8.12
CV(%)	16.96	2.39	7.19	6.78	10.17	5.24	3.84	2.30	0.92	3.44	6.46	4.67	14.89	8.37
R-Square	0.54	0.82	0.67	0.74	0.43	0.78	0.60	0.70	0.63	0.76	0.77	0.57	0.73	0.71
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 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)