

Table 3. Least square means for lint yield, lint percentage, and fiber quality traits in the 2012 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	%	%		
AU90915	953	40.22	6.96	5.39	31.20	10.28	5.53	1.14	84.23	32.48	7.53	3.53	50.50	65.75
GA 2008083	952	40.48	6.76	4.90	29.33	9.87	5.20	1.15	83.98	30.78	5.95	4.53	57.25	66.00
Arkot 0407-4	938	40.03	7.66	6.04	31.66	11.20	5.33	1.13	84.50	31.28	5.35	4.15	52.00	67.75
AU91111	937	40.07	6.10	5.00	32.81	9.10	5.23	1.13	84.05	30.38	6.93	4.93	52.25	65.25
GA 2004143	930	40.96	6.30	4.62	29.90	9.08	4.70	1.13	83.45	30.63	5.05	5.58	58.75	65.50
MD 10-5	926	41.73	6.73	5.76	35.75	9.35	5.13	1.13	84.13	33.63	6.55	4.18	55.00	68.00
DP 393	880	39.89	6.88	5.11	29.59	10.32	5.23	1.13	83.88	32.65	7.20	4.40	50.25	64.25
AU91215	878	38.73	6.08	5.27	33.51	9.56	5.35	1.14	83.55	30.75	6.63	4.73	49.75	61.75
MD 87	878	38.11	7.36	6.14	31.78	11.92	4.98	1.18	85.55	35.40	5.13	3.78	74.25	83.25
LA08310066	874	39.67	6.88	5.29	30.52	10.43	5.38	1.10	83.15	32.38	6.23	5.55	37.75	57.50
AU91411	870	38.31	7.12	5.57	30.00	11.30	5.13	1.18	84.73	33.03	6.43	4.10	70.25	73.25
MD 26ne	870	39.12	6.98	6.06	34.00	10.79	4.85	1.22	85.78	33.03	5.93	3.33	87.50	83.75
SG 105	859	40.16	7.28	5.48	30.31	10.77	5.35	1.15	84.13	30.83	5.13	4.63	54.75	66.00
Arkot 0410-32	852	36.74	6.26	5.40	31.72	10.72	5.03	1.14	84.58	32.13	6.78	4.05	60.75	71.00
Tamcot 73	850	38.79	6.73	5.50	31.72	10.56	5.25	1.15	84.43	34.23	6.12	4.18	59.75	71.75
PD06078	842	39.09	6.57	4.97	29.64	10.09	5.13	1.16	83.95	31.50	5.83	4.20	62.50	67.25
AU90810	840	37.68	6.28	5.36	32.24	10.34	5.15	1.17	84.48	31.70	6.00	4.23	65.75	70.50
NM11Q1008	830	37.80	5.44	4.68	32.53	8.90	4.85	1.12	83.55	28.30	6.00	5.68	49.75	44.25
PD05074	819	40.93	6.63	5.22	32.23	9.51	5.30	1.13	83.83	32.78	5.53	4.68	49.75	65.00
Ark 0409-16	811	39.20	7.20	5.35	29.10	11.12	4.98	1.10	83.48	29.60	6.38	5.08	44.75	58.25
GA 2009100	811	41.02	6.72	5.26	32.28	9.60	4.83	1.15	83.78	31.75	5.55	4.78	62.25	67.25
Ark 0409-17	808	40.35	7.07	5.21	29.75	10.42	5.25	1.09	83.48	30.80	7.05	4.70	38.75	59.50
GA 2008057	793	36.97	5.76	4.73	30.45	9.75	4.65	1.16	84.05	32.50	6.65	4.88	65.75	69.75
FM 958	769	39.26	6.88	4.77	27.22	10.58	5.45	1.12	84.30	31.00	6.35	4.38	46.00	65.00
Ark 0403-3	765	36.92	5.45	4.78	32.52	9.25	5.35	1.13	83.90	31.38	5.83	4.85	49.00	63.75
TAM 06WE-62-1	760	38.51	7.56	6.21	31.60	12.00	4.88	1.20	85.65	38.00	5.63	2.98	84.50	91.25
NC11AZ01	748	40.23	6.57	5.16	31.68	9.69	5.33	1.11	83.30	31.18	5.03	6.18	41.75	58.75
Acala 1517-08	743	38.37	6.49	5.01	29.63	10.37	4.90	1.20	84.23	35.03	5.85	4.43	79.75	78.00
PD06001	720	36.90	6.33	5.20	30.34	10.74	5.03	1.16	83.80	30.35	5.28	4.88	62.25	66.75
PD05071	709	36.65	6.11	5.46	32.84	10.49	4.80	1.12	83.53	31.40	5.68	4.68	54.00	64.25
PD05064	622	39.04	6.31	5.44	33.76	9.61	5.05	1.16	84.08	32.70	5.88	4.75	63.50	68.50
Barbren 713	619	35.01	5.89	5.39	32.14	10.87	4.98	1.06	82.18	29.05	6.48	5.88	32.25	46.00
NM11Q1157	529	38.36	6.87	4.92	27.70	10.96	4.95	1.17	83.05	34.98	6.85	4.35	65.50	68.25
Mean	818	38.95	6.61	5.29	31.25	10.29	5.10	1.14	84.02	32.05	6.08	4.58	57.23	66.76
LSD (.05)	173	1.32	0.55	0.48	3.08	0.71	0.27	0.04	1.28	1.49	0.70	1.19	13.76	12.10
CV(%)	14.98	2.41	5.95	6.41	7.01	4.93	3.75	2.37	1.09	3.32	8.17	18.52	17.14	12.92
R-Square	0.48	0.79	0.73	0.68	0.48	0.77	0.65	0.69	0.47	0.83	0.74	0.49	0.70	0.61
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)