

Table 16. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Tifton, GA <sup>1</sup>. (Cooperator: Peng Chee)

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	%	%		
AU90810	.	39.97	6.73	5.58	33.04	9.99	4.78	1.23	85.45	33.53	5.45	6.70	77.00	74.50
AU90915	.	43.34	8.05	5.29	28.49	10.49	5.28	1.17	85.13	32.35	6.10	6.70	49.00	65.00
AU91111	.	42.41	7.22	5.51	32.37	9.62	4.95	1.18	84.25	30.50	5.93	7.13	56.25	62.75
AU91215	.	41.64	7.20	5.28	30.53	10.05	5.03	1.20	85.18	31.50	5.60	6.83	62.50	69.00
AU91411	.	42.01	8.22	6.26	31.96	11.33	5.20	1.22	85.28	34.78	5.30	6.53	66.75	71.50
Acala 1517-08	.	40.12	7.29	5.36	29.51	10.78	4.95	1.24	85.13	38.10	5.08	6.65	78.00	81.00
Ark 0403-3	.	42.12	6.26	4.74	31.90	8.56	5.13	1.15	85.10	34.43	5.70	6.48	46.50	66.50
Ark 0409-16	.	43.02	7.89	5.62	30.75	10.35	5.03	1.15	84.30	30.58	5.65	6.90	45.00	60.75
Ark 0409-17	.	44.08	7.55	5.07	29.56	9.44	4.88	1.16	84.95	31.15	5.63	6.63	52.50	66.25
Arkot 0407-4	.	43.97	8.51	6.54	33.84	10.83	5.15	1.15	85.05	32.95	4.53	7.00	47.25	64.75
Arkot 0410-32	.	41.40	8.06	5.83	29.95	11.35	5.50	1.18	85.88	33.33	5.68	6.53	50.75	68.50
Barbren 713	.	38.67	6.88	5.01	28.25	10.83	4.60	1.11	83.50	31.45	5.03	7.03	40.75	57.00
DP 393	.	43.48	7.95	5.30	29.17	10.26	5.05	1.18	85.25	33.08	6.48	6.55	56.75	68.00
FM 958	.	42.68	7.83	5.51	30.01	10.43	5.40	1.15	85.35	31.85	5.90	6.58	42.50	64.75
GA 2004143	.	47.09	7.71	4.44	27.17	8.55	5.13	1.16	84.65	33.23	4.70	6.93	47.50	63.25
GA 2008057	.	41.87	6.79	4.69	28.89	9.41	4.65	1.21	84.83	33.63	5.80	6.75	70.00	69.50
GA 2008083	.	44.27	8.20	5.20	28.08	10.16	5.18	1.23	85.58	34.18	5.30	6.60	69.00	72.50
GA 2009100	.	44.99	7.77	5.24	30.42	9.55	4.63	1.23	85.68	34.25	4.85	6.70	80.00	77.75
LA08310066	.	41.79	7.57	5.36	29.70	10.49	5.30	1.15	84.05	32.50	5.43	6.90	40.75	57.25
MD 10-5	.	45.70	7.54	5.13	31.07	8.82	4.90	1.16	84.43	33.38	5.80	6.75	52.00	63.00
MD 26ne	.	41.50	7.69	5.36	28.91	10.78	4.95	1.27	87.28	36.78	5.50	6.30	87.00	90.00
MD 87	.	40.85	8.30	6.45	31.71	11.87	5.10	1.20	86.03	38.73	4.68	6.53	67.00	82.75
NC11AZ01	.	43.87	7.98	5.70	31.40	10.19	5.10	1.18	85.40	35.78	4.15	6.95	56.50	72.75
NM11Q1008	.	42.47	6.66	4.87	31.07	8.97	5.08	1.16	84.38	31.20	5.25	7.38	47.25	61.25
NM11Q1157	.	38.90	6.54	5.11	30.45	10.10	4.58	1.18	84.13	35.35	5.70	6.63	59.00	66.75
PD05064	.	43.39	7.53	5.08	29.29	9.67	4.98	1.18	84.20	35.20	5.05	6.95	56.75	65.00
PD05071	.	41.73	7.12	5.26	30.88	9.82	5.05	1.15	84.20	32.55	4.93	6.78	44.50	60.00
PD05074	.	43.02	7.41	5.53	32.16	9.69	5.10	1.17	84.75	34.63	5.15	6.90	53.75	66.00
PD06001	.	40.37	6.73	5.39	32.25	9.94	4.88	1.19	84.60	33.15	4.53	7.03	60.00	66.25
PD06078	.	42.10	7.30	5.01	28.97	9.85	5.10	1.20	85.73	34.45	5.43	6.40	64.75	73.25
SG 105	.	42.83	8.19	5.86	30.60	10.87	5.00	1.19	84.33	34.05	4.35	6.95	58.75	64.50
TAM 06WE-62-1	.	41.76	8.75	6.18	29.43	12.22	4.93	1.20	85.78	38.85	5.23	6.63	69.00	83.25
Tamcot 73	.	40.30	6.46	5.05	31.64	9.53	4.73	1.22	85.03	35.55	5.48	6.80	74.25	75.25
<b>Mean</b>	.	42.35	7.51	5.39	30.41	10.14	5.01	1.18	84.99	33.85	5.31	6.76	58.46	68.80
<b>LSD (.05)</b>	.	1.11	0.57	0.65	3.30	0.86	0.27	0.03	0.96	1.41	0.38	0.36	11.37	7.23
<b>CV(%)</b>	.	1.87	5.37	8.66	7.73	6.03	3.87	1.88	0.81	2.96	5.12	3.79	13.86	7.49
<b>R-Square</b>	.	0.88	0.78	0.59	0.43	0.74	0.64	0.76	0.61	0.86	0.84	0.52	0.76	0.75
<b>Reps</b>	.	4	4	4	4	4	4	4	4	4	4	4	4	4

<sup>1</sup>Yield results not reported due to large, unexplained variation.

<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)