

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Stoneville, MS. (Cooperator: Bill Meredith)

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 87	1712	37.90	7.33	6.31	32.58	11.89	4.55	1.26	86.18	38.78	4.20	6.45	84.00	91.75
MD 26ne	1670	40.21	7.03	5.98	34.18	10.34	4.67	1.27	86.08	35.45	4.70	6.53	85.25	85.25
DP 393	1664	41.98	7.53	5.80	32.33	10.50	4.90	1.21	85.58	33.30	5.65	6.65	63.25	74.00
Arkot 0407-4	1541	40.04	7.91	6.59	33.41	11.87	5.07	1.18	85.15	34.50	3.98	6.68	50.75	71.25
FM 958	1528	40.23	7.26	5.54	30.74	10.64	5.20	1.19	84.88	32.68	4.78	6.58	48.75	66.00
Ark 0409-16	1505	41.34	7.46	6.24	34.51	10.50	4.67	1.18	83.90	30.60	5.03	7.28	52.75	63.25
MD 10-5	1473	42.79	6.89	5.40	33.48	9.05	4.76	1.16	83.58	34.15	4.90	6.85	45.00	61.50
NM11Q1008	1473	39.83	6.21	5.15	33.03	9.30	4.88	1.16	83.55	30.83	4.18	7.43	43.50	59.00
Ark 0409-17	1446	41.74	7.85	6.08	32.30	10.86	5.08	1.18	84.68	30.93	4.88	6.78	48.00	65.25
GA 2004143	1441	43.20	7.25	5.00	29.84	9.40	4.79	1.20	83.75	33.03	3.60	7.23	56.25	63.25
GA 2009100	1439	42.53	6.94	5.29	32.50	9.27	4.52	1.22	83.88	34.00	4.20	6.80	64.50	66.75
AU91411	1395	39.16	7.65	5.98	30.70	11.80	5.18	1.22	84.33	34.50	4.80	6.73	57.00	66.50
AU91215	1388	38.38	6.61	5.35	31.11	10.43	4.87	1.23	84.55	32.05	4.83	7.03	66.75	69.50
AU91111	1378	39.20	6.79	5.46	31.52	10.44	4.81	1.23	84.60	31.60	5.10	7.08	65.50	69.50
Ark 0403-3	1377	38.37	6.22	5.46	33.67	9.93	5.33	1.19	85.00	34.20	4.58	6.68	47.25	66.75
Arkot 0410-32	1375	39.29	7.51	5.87	30.70	11.54	5.25	1.18	85.70	33.60	4.95	6.38	47.25	71.00
LA08310066	1315	39.10	6.63	5.11	30.19	10.26	4.96	1.17	83.73	33.98	4.58	7.35	44.50	60.25
PD05074	1297	40.75	7.07	5.57	32.13	10.15	4.92	1.21	84.85	35.45	4.15	6.75	61.50	72.75
NC11AZ01	1285	40.48	7.19	5.50	31.00	10.50	4.82	1.20	84.25	37.30	3.45	6.93	59.25	73.25
PD06078	1284	39.47	6.86	5.59	32.22	10.47	4.77	1.25	84.75	34.28	4.65	6.58	72.00	72.50
PD06001	1280	37.75	6.84	5.95	32.85	11.17	4.78	1.22	84.10	33.08	4.00	6.98	62.50	66.50
AU90810	1278	38.17	6.93	5.71	31.43	10.98	4.85	1.25	84.93	33.03	4.70	6.85	71.75	72.25
AU90915	1272	39.41	7.35	5.65	30.26	11.24	5.09	1.23	84.95	34.03	5.18	6.63	63.75	70.50
PD05071	1256	38.14	6.85	5.70	31.70	11.04	4.65	1.18	83.98	33.90	4.08	6.95	54.50	65.00
Tamcot 73	1248	37.40	6.66	5.51	30.92	11.08	4.82	1.22	85.35	35.15	4.33	6.65	66.75	76.25
GA 2008083	1200	40.03	7.72	5.46	28.33	11.45	5.07	1.24	84.43	34.15	4.23	6.75	64.00	68.00
Barbren 713	1189	35.37	6.52	5.87	31.84	11.84	4.77	1.12	82.63	31.83	4.05	7.63	35.00	53.25
GA 2008057	1187	39.45	6.26	4.97	31.35	9.50	4.51	1.24	84.85	34.88	5.20	6.80	74.00	75.50
TAM 06WE-62-1	1090	37.47	7.74	6.83	32.87	12.96	4.63	1.25	85.25	40.23	4.18	6.70	78.50	85.75
SG 105	1075	39.22	7.56	5.97	30.97	11.62	4.88	1.20	84.25	33.78	3.65	7.08	54.75	65.50
Acala 1517-08	995	38.81	7.04	5.39	29.77	10.95	4.98	1.27	84.30	36.50	4.50	6.90	75.25	74.75
PD05064	944	39.29	6.59	5.54	33.09	10.05	4.61	1.25	84.58	34.90	4.33	6.83	76.50	74.50
NM11Q1157	824	36.76	6.43	5.36	30.67	10.93	4.64	1.20	83.38	34.20	4.80	6.98	58.50	62.75
<b>Mean</b>	1328	39.49	7.05	5.67	31.76	10.72	4.86	1.21	84.54	34.08	4.50	6.86	60.57	69.69
<b>LSD (.05)</b>	175	1.49	0.34	0.33	2.18	0.60	0.22	0.04	1.03	1.43	0.41	0.39	14.11	8.36
<b>CV(%)</b>	9.39	2.69	3.43	4.07	4.87	4.00	3.21	2.26	0.87	3.00	6.52	4.02	16.60	8.55
<b>R-Square</b>	0.80	0.79	0.84	0.81	0.54	0.86	0.72	0.70	0.61	0.85	0.80	0.59	0.68	0.71
<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)