

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Suffolk, VA ¹. (Cooperator: Hunter Frame)

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	%	%		
NM11Q1008	1964	43.16	7.93	5.58	30.46	10.20	4.68	1.19	83.75	30.63	5.63	7.48	56.75	63.75
MD 10-5	1863	45.37	8.70	6.35	33.09	10.03	4.84	1.16	84.03	31.88	6.28	6.90	46.50	62.75
Ark 0409-17	1829	42.70	8.32	6.01	30.78	10.83	4.84	1.17	84.73	30.38	6.73	6.68	50.50	67.50
MD 26ne	1824	41.78	8.65	6.69	32.29	11.66	4.64	1.28	85.93	33.63	5.48	6.55	87.50	82.50
Arkot 0407-4	1780	44.74	10.27	6.69	29.27	12.36	5.00	1.18	84.23	31.70	5.05	7.03	47.75	63.50
Ark 0409-16	1778	43.07	9.26	6.89	32.02	11.82	4.82	1.15	83.53	29.75	5.90	7.45	43.00	59.50
NC11AZ01	1768	43.38	8.73	6.17	30.63	11.05	4.83	1.20	84.20	34.33	4.43	7.40	58.00	67.50
PD05074	1698	43.10	8.28	6.26	32.65	10.60	4.71	1.20	84.28	34.10	5.35	7.15	60.50	67.75
AU90915	1677	42.79	8.64	6.46	32.00	11.26	4.96	1.22	84.68	31.73	6.30	6.90	61.25	68.75
DP 393	1654	41.63	8.48	6.65	32.59	11.32	4.90	1.20	84.70	31.98	6.63	6.83	57.00	68.50
Tamcot 73	1613	41.40	8.55	6.03	29.33	11.48	4.78	1.20	83.78	31.88	5.70	6.95	58.75	64.25
MD 87	1607	40.09	8.72	7.12	33.07	12.55	4.66	1.22	85.70	37.50	5.08	6.63	74.00	86.75
SG 105	1598	42.82	9.27	6.83	31.60	12.12	4.87	1.22	84.15	33.13	4.55	7.00	61.50	66.50
GA 2004143	1582	46.20	8.83	5.35	28.00	9.84	4.64	1.20	83.90	32.80	5.18	7.48	60.25	65.50
FM 958	1582	41.61	8.60	6.06	29.31	11.47	5.05	1.18	84.48	30.90	6.40	7.08	50.00	65.25
AU91111	1579	41.59	7.80	5.67	30.22	10.74	4.78	1.24	84.05	31.13	6.18	7.03	69.75	67.75
LA08310066	1546	41.10	7.93	5.74	29.81	11.07	5.06	1.18	84.00	31.93	5.83	7.13	45.75	61.50
AU91411	1540	41.83	8.77	6.46	30.95	11.99	4.82	1.23	84.38	32.43	6.03	6.93	66.25	68.50
AU90810	1536	40.23	8.20	6.15	30.21	11.72	4.52	1.25	84.93	31.78	5.75	6.85	78.75	75.00
Arkot 0410-32	1528	41.01	8.54	6.03	29.15	11.96	5.35	1.18	85.68	31.48	6.20	6.48	45.75	69.50
Ark 0403-3	1509	41.55	7.23	5.51	31.87	9.74	5.32	1.19	84.88	32.90	5.68	6.78	46.00	65.50
AU91215	1487	42.04	7.82	5.87	31.66	10.37	4.57	1.21	84.55	30.90	6.08	7.08	65.75	70.25
GA 2008057	1481	42.38	7.46	5.35	30.52	9.96	4.25	1.21	83.90	32.10	6.38	7.05	64.50	66.75
GA 2009100	1454	43.22	8.11	6.03	32.15	10.38	4.51	1.22	84.75	33.38	5.28	6.90	71.00	72.50
PD06001	1432	40.68	7.60	6.08	32.65	10.93	4.57	1.19	83.88	32.20	5.13	7.05	59.50	65.50
Acala 1517-08	1411	41.12	8.35	6.42	31.66	11.60	4.68	1.25	84.88	35.33	5.55	6.90	76.50	78.00
PD05071	1409	41.55	8.34	6.33	31.58	11.41	4.74	1.18	84.10	32.08	5.63	7.13	53.00	65.25
PD06078	1401	41.94	8.27	6.17	31.28	11.14	4.97	1.22	84.88	32.90	5.98	6.68	63.75	70.75
NM11Q1157	1354	42.14	7.64	5.53	30.57	10.01	4.20	1.16	82.70	33.25	6.40	7.48	47.00	58.00
GA 2008083	1169	41.81	8.84	6.19	29.28	11.89	5.02	1.23	84.85	32.73	5.48	6.80	65.75	70.25
TAM 06WE-62-1	1130	41.09	9.25	6.89	30.63	13.10	4.65	1.22	85.73	37.50	5.83	6.58	73.50	87.50
PD05064	1118	42.06	8.06	6.15	32.08	10.72	4.68	1.27	84.50	34.33	5.35	6.65	80.00	74.75
Barbren 713	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	1559	42.22	8.42	6.18	31.04	11.17	4.78	1.21	84.46	32.64	5.73	6.97	60.80	68.98
LSD (.05)	269	2.04	0.89	0.61	3.14	1.00	0.26	0.03	0.82	1.44	0.37	0.35	12.35	6.85
CV(%)	12.31	3.44	7.57	7.09	7.21	6.39	3.92	1.88	0.69	3.15	4.56	3.61	14.47	7.07
R-Square	0.60	0.54	0.57	0.63	0.32	0.67	0.71	0.72	0.65	0.80	0.86	0.62	0.70	0.73
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).

¹Seed of Barbren 713 was not available at the time of planting for this location.

[†] 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)