

Table 12. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Rocky Mountain, NC ¹. (Cooperator: Vasu Kurparthy)

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	1854	41.65	.	4.73	.	.	4.35	1.15	83.03	30.13	5.98	7.75	50.50	61.50
Ark 0409-16	1828	42.19	.	5.83	.	.	4.53	1.15	83.23	28.73	6.35	7.48	50.25	53.00
Arkot 0407-4	1792	43.13	.	6.45	.	.	4.94	1.15	84.58	31.08	5.05	6.88	48.25	68.00
Ark 0409-17	1748	42.37	.	5.83	.	.	4.75	1.19	84.35	30.55	6.85	6.88	62.00	70.25
GA 2004143	1664	44.23	.	4.86	.	.	4.43	1.20	83.38	33.25	5.40	7.40	65.50	66.75
MD 10-5	1656	43.27	.	5.50	.	.	4.54	1.14	82.98	32.40	6.13	7.35	47.00	60.25
FM 958	1652	41.14	.	5.12	.	.	4.83	1.16	84.30	30.48	6.63	6.95	52.50	68.00
NC11AZ01	1651	44.02	.	5.13	.	.	4.56	1.17	83.90	33.98	4.50	7.38	56.00	68.25
Ark 0403-3	1625	42.14	.	5.03	.	.	5.06	1.16	84.30	33.70	6.30	6.80	46.25	66.25
PD05074	1607	42.15	.	5.10	.	.	4.76	1.17	84.33	34.10	5.98	7.03	56.50	70.25
SG 105	1578	42.06	.	5.66	.	.	4.52	1.20	83.90	33.33	5.05	7.03	67.25	69.50
MD 87	1574	38.80	.	6.08	.	.	4.46	1.23	86.05	37.30	5.28	6.60	83.75	92.75
DP 393	1568	42.45	.	5.63	.	.	4.67	1.18	84.18	31.23	7.10	7.10	59.50	68.75
PD05064	1560	41.71	.	5.54	.	.	4.77	1.19	84.23	34.20	5.78	6.98	63.25	71.00
GA 2009100	1560	43.08	.	5.57	.	.	4.23	1.22	84.18	32.88	5.43	7.08	74.75	73.00
GA 2008083	1540	41.32	.	5.35	.	.	4.70	1.21	84.38	32.43	6.10	7.08	69.50	72.00
MD 26ne	1540	40.20	.	5.87	.	.	4.53	1.27	85.53	33.18	5.88	6.65	88.50	82.25
AU90915	1535	42.10	.	5.44	.	.	5.01	1.18	83.85	30.90	6.63	7.20	52.75	64.50
GA 2008057	1525	40.20	.	4.75	.	.	4.22	1.22	84.30	33.80	6.43	6.93	74.75	74.00
PD05071	1504	38.79	.	5.77	.	.	4.51	1.17	84.20	31.55	6.03	6.73	59.25	69.25
AU91111	1503	41.24	.	5.26	.	.	4.67	1.19	83.50	30.93	6.48	7.53	62.25	66.00
AU91215	1486	40.55	.	5.30	.	.	4.62	1.21	83.70	30.55	6.53	7.43	67.50	68.00
Arkot 0410-32	1473	39.45	.	5.83	.	.	5.13	1.17	84.43	31.80	6.18	6.83	49.25	66.25
PD06078	1466	41.45	.	5.41	.	.	4.71	1.20	84.08	33.48	6.40	6.75	62.75	69.25
AU91411	1463	39.31	.	5.70	.	.	4.45	1.22	83.90	33.00	5.90	7.05	74.50	71.00
PD06001	1434	38.90	.	5.43	.	.	4.42	1.22	83.78	32.08	5.18	7.13	72.75	70.00
LA08310066	1434	40.39	.	5.40	.	.	4.73	1.17	83.60	32.03	6.05	7.30	55.00	65.00
AU90810	1397	39.44	.	5.63	.	.	4.41	1.23	84.35	32.60	5.93	7.13	77.25	74.00
Tamcot 73	1357	39.24	.	5.30	.	.	4.43	1.19	84.35	33.13	6.47	6.90	66.25	72.00
TAM 06WE-62-1	1318	39.80	.	6.76	.	.	4.40	1.20	84.95	37.55	6.18	6.95	72.25	85.50
NM11Q1157	1292	39.13	.	4.78	.	.	4.48	1.16	82.48	32.90	6.53	7.53	53.00	59.00
Acala 1517-08	1224	40.45	.	5.51	.	.	4.73	1.25	84.23	35.23	5.85	6.98	81.50	77.50
Barbren 713	1155	37.37	.	5.81	.	.	4.34	1.13	82.43	31.73	5.73	7.73	43.25	56.75
Mean	1532	41.02	.	5.50	.	.	4.60	1.19	84.03	32.61	6.01	7.10	62.59	69.39
LSD (.05)	148	1.39	.	0.35	.	.	2.44	0.03	0.96	1.43	0.40	0.42	11.54	8.14
CV(%)	6.87	2.69	.	4.57	.	.	3.78	1.83	0.82	3.11	4.76	4.20	13.14	8.36
R-Square	0.76	0.80	.	0.82	.	.	0.74	0.75	0.61	0.82	0.85	0.58	0.74	0.70
Reps	4	4	.		.	.	4	4	4	4	4	4	4	4

Shaded values are not significantly different from highest value according to LSD(0.05).

¹ Seed related components Lint Index, Seed per Boll, and Seed Index not recorded.

[†] 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