

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2015 RBTN trial conducted at Suffolk, VA. (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	%	%	%	%
GA 2011124	1779	43.76	8.31	5.24	27.80	9.63	5.07	1.16	83.78	29.88	6.50	7.23	45.25	62.75
GA 2011004	1627	43.71	9.75	5.40	24.73	11.46	4.93	1.17	83.78	30.43	6.43	7.25	51.75	64.50
DP 393 CK	1608	42.17	7.96	5.53	29.44	10.16	5.08	1.17	83.73	30.63	6.90	7.28	47.25	62.50
LA12306017	1582	42.17	8.23	5.44	27.90	10.42	4.89	1.23	84.18	33.35	5.88	7.20	70.25	70.75
Ark 0705-46	1574	40.45	8.36	5.94	29.10	11.23	5.22	1.16	84.05	30.60	6.65	6.98	42.50	63.00
MS 0045-14 -8	1570	39.91	7.72	5.92	30.68	10.71	4.99	1.17	84.63	32.58	6.18	6.93	52.50	69.00
Ark 0711-2	1537	37.62	7.40	5.62	28.57	10.58	5.04	1.21	84.35	33.00	5.80	7.20	62.50	69.25
GA 2010102	1534	40.32	7.93	5.74	29.26	10.55	5.07	1.20	84.13	33.60	5.53	7.28	57.00	68.00
SG 105 CK	1534	39.44	7.78	5.69	28.93	11.10	5.15	1.15	83.63	29.68	6.38	7.23	42.00	61.00
MS 0043-28 -1	1496	38.63	7.87	5.28	26.25	11.24	4.93	1.14	83.08	30.98	6.55	7.40	41.75	58.75
LA12306028	1477	40.13	8.10	5.76	28.54	11.15	4.75	1.24	85.35	34.75	6.10	6.90	80.00	82.75
Ark 0701-17	1474	41.27	8.02	5.83	30.57	10.77	4.56	1.18	83.70	30.63	6.13	7.48	60.00	67.00
LA12306010	1456	38.11	7.88	5.72	27.73	11.77	4.68	1.22	84.60	32.80	6.28	7.10	73.75	74.25
PD 07092	1422	38.76	7.58	5.74	29.59	11.21	4.54	1.26	84.83	36.08	5.95	6.75	87.50	85.00
DP 491 CK	1407	40.16	8.00	5.99	30.32	10.56	4.74	1.19	83.95	31.43	5.53	7.53	61.50	67.75
Ark 0707-33	1398	40.43	8.87	5.83	26.65	11.75	4.76	1.17	84.25	29.55	7.33	7.08	56.75	68.75
MS 0045-14 -5	1382	39.18	7.40	5.74	30.35	10.58	4.73	1.15	83.48	31.60	5.88	7.40	48.75	63.00
MS 0042-3 -7	1380	38.88	8.00	5.53	26.96	11.38	4.49	1.18	83.70	30.98	6.60	7.58	60.00	66.75
UA 222 CK	1351	38.52	7.55	6.24	32.87	10.81	4.76	1.23	84.83	31.28	7.37	7.08	76.25	76.00
PD 07105	1346	37.45	7.34	6.12	31.37	11.26	4.83	1.21	83.93	33.63	4.85	7.33	65.75	69.00
FM 958 CK	1306	39.76	9.33	6.03	25.84	12.02	4.95	1.17	83.30	31.75	5.33	7.53	50.00	61.50
PD 07116	1298	38.69	8.03	5.81	28.29	11.89	4.39	1.27	83.75	33.00	5.08	7.08	85.25	73.25
Ark 0712-9	1259	40.32	8.53	5.62	26.84	11.17	4.75	1.16	83.05	28.10	6.55	8.25	44.75	40.75
PD 07040	1237	37.20	7.96	5.51	25.92	11.89	4.49	1.18	83.43	32.15	6.05	7.73	58.25	65.25
NM 13W3007	1173	38.78	7.36	6.67	35.17	10.92	4.91	1.19	84.15	32.58	5.88	7.48	59.00	68.25
Acala 1517-08	1111	37.59	7.41	5.83	30.02	11.11	4.49	1.23	84.28	34.73	5.98	6.98	77.25	77.75
NM 13P1088	1068	36.78	7.49	5.67	28.16	11.59	4.62	1.18	84.45	34.28	6.50	6.90	61.75	73.25
NM 13W3017	1034	34.25	7.76	6.62	29.34	14.16	4.48	1.23	84.33	33.65	5.03	7.03	77.00	73.75
Mean	1408	39.44	8.00	5.79	28.83	11.18	4.79	1.19	84.02	32.06	6.11	7.25	60.58	67.98
Cultivar LSD (.05)	147	2.96	1.22	0.41	0.41	1.47	0.26	0.03	1.01	1.31	0.39	0.39	11.02	9.13
Cultivar (P>F)	<0.0001	<0.0001	0.0288	<0.0001	0.0017	0.0014	<0.0001	<0.0001	0.0024	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	7.44	5.33	10.88	5.05	10.08	9.35	3.81	1.64	0.86	2.90	4.54	3.78	12.92	9.55
R-Square	0.80	0.60	0.42	0.66	0.54	0.52	0.70	0.81	0.45	0.84	0.81	0.63	0.80	0.69
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Values in bold 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)