

Table 15. Least square means for lint yield, yield components, and fiber quality traits in the 2016 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 ¹	QS2 ¹	QS3 ¹
	lbs/a	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%	%	%	%
Ark 0812-87ne	1318	46.36	9.24	5.38	27.05	10.36	5.10	1.24	85.58	32.63	6.53	6.68	60.00	62.50	65.50
GA 2011113	1251	46.66	8.43	4.47	24.90	9.67	5.10	1.22	85.18	35.08	6.00	6.63	52.00	57.75	60.00
Ark 0819-89	1219	41.63	8.20	4.79	24.37	11.34	5.52	1.22	86.10	36.13	6.33	6.65	48.00	63.75	54.00
Ark 0824-89	1208	43.93	9.59	5.92	27.19	12.04	5.63	1.24	86.25	34.93	6.05	6.63	53.25	65.50	57.50
GA 2012082	1201	44.52	9.29	5.24	25.13	11.23	5.03	1.22	85.35	32.33	6.33	6.95	54.75	59.25	61.25
SG 105 CK	1183	43.28	8.48	5.13	26.12	10.84	5.45	1.16	85.18	32.88	6.23	6.93	30.25	48.00	39.25
Ark 0818-23	1168	43.87	9.02	5.83	28.27	11.29	5.11	1.23	85.23	34.43	5.95	6.80	54.00	58.50	61.50
NM 13G1029	1157	45.45	8.52	5.19	27.70	10.05	4.93	1.27	85.15	37.30	5.80	6.85	71.25	67.75	80.00
Ark 0822-48	1120	44.29	9.52	6.24	29.03	11.84	5.48	1.27	85.43	33.30	6.65	6.88	60.50	62.25	66.00
UA 222 CK	1115	44.48	8.98	5.67	28.11	11.07	5.30	1.22	85.05	33.58	7.10	6.70	47.25	54.25	55.00
MS 0043-28-1	1102	43.63	8.01	5.19	28.36	10.12	5.35	1.19	84.58	33.83	6.05	6.98	37.50	47.50	47.75
MD 16-1	1098	45.89	9.16	5.53	27.78	10.59	5.33	1.15	84.85	35.63	5.80	6.83	31.00	47.75	42.00
AU77082	1097	43.58	8.87	4.85	23.79	11.17	5.30	1.23	85.65	34.00	5.53	6.83	52.50	60.75	58.50
DP 393 CK	1077	44.09	8.95	5.56	27.42	11.17	5.42	1.21	85.28	33.83	6.38	6.73	45.25	55.00	52.50
NM 13G2019	1063	44.54	8.29	5.15	27.58	10.27	4.86	1.28	85.28	36.58	5.63	6.78	73.00	68.75	80.75
GA 2012141	1045	44.48	8.52	5.15	26.83	10.39	5.15	1.21	85.10	33.30	5.98	7.03	48.50	55.00	56.50
GA 2012050	1028	44.59	8.73	5.92	30.18	10.42	4.96	1.23	85.45	35.20	6.60	6.68	58.00	62.25	65.25
FM 958 CK	1022	43.95	9.41	5.31	24.88	11.82	5.33	1.22	85.38	35.03	4.85	6.83	50.25	58.50	57.75
AU82074	1003	42.34	8.41	5.03	25.40	11.28	5.07	1.24	85.63	33.80	5.35	6.83	59.25	62.75	64.75
DP 493 CK	965	46.04	7.72	5.26	31.41	8.70	5.66	1.15	84.15	32.58	5.15	7.28	20.50	37.00	32.50
MD 16-2	964	42.46	9.13	5.51	25.66	12.02	4.48	1.28	85.65	37.83	5.58	6.68	78.25	74.50	86.00
PD07040	962	41.13	8.04	5.17	26.51	11.19	5.05	1.27	85.23	33.65	5.45	6.68	67.50	63.50	73.50
MS 0152-3-11	956	43.55	8.64	5.74	28.92	11.09	5.02	1.25	85.15	31.88	5.80	6.90	62.25	60.50	68.50
TAM11L-24	845	38.06	7.93	4.94	23.72	12.85	4.61	1.36	86.90	36.15	4.88	6.03	93.50	86.50	94.75
PD09084	828	39.83	7.41	5.17	27.76	11.14	5.08	1.26	86.30	36.05	6.18	6.45	67.50	72.75	72.00
PD08028	825	40.42	7.85	4.83	24.85	11.55	5.00	1.26	86.03	37.85	6.08	6.53	68.25	73.25	75.00
TAM13Q-18	822	39.46	8.15	5.13	24.83	12.16	5.00	1.23	85.20	34.93	5.65	6.88	58.00	60.50	65.75
PD09046	749	38.96	6.69	4.83	28.14	10.42	4.73	1.31	86.08	35.55	4.70	6.48	85.00	77.75	88.25
Mean	1050	43.27	8.54	5.29	26.85	11.00	5.14	1.24	85.44	34.65	5.88	6.75	56.69	61.57	63.64
Cultivar LSD (.05)	152	1.89	0.55	0.87	ns	0.64	0.26	0.03	0.85	1.45	0.35	0.32	12.23	9.47	10.37
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	0.0334	0.1500	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	10.32	3.10	4.57	11.63	12.32	4.12	3.65	1.85	0.70	2.97	4.29	3.38	15.34	10.93	11.58
R-Square	0.71	0.80	0.81	0.42	0.34	0.83	0.76	0.84	0.53	0.77	0.87	0.57	0.82	0.75	0.84
Reps	4	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).

¹ QS1, QS2, and QS3 - 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 (0.15), and strength (0.10) ; QS2 - fiber length (0.2), mic (0.1), UI (0.4), and strength (0.3); QS3 - fiber length (0.45), mic (0.25), UI (0.0), and strength (0.3).