

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2021 RBTN at Suffolk, Virginia (Cooperator: Hunter Frame).

Entry	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
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
UA 222 CK	2088	41.58	7.66	6.05	33.12	10.65	4.52	1.22	84.93	31.23	8.70	5.90	70.67	65.33	76.33
Ark 1309-56	2020	44.24	8.60	6.39	32.87	10.63	4.75	1.25	85.80	34.60	6.57	5.10	78.00	75.67	81.00
OA-11	2013	44.59	8.20	5.71	31.24	10.03	4.92	1.16	85.23	32.40	7.87	5.27	46.00	57.67	52.67
MS 2010-87-42	1996	43.23	7.79	5.99	33.28	10.12	4.64	1.21	85.93	34.57	6.50	5.07	68.33	72.67	72.00
MS 2010-96-9	1984	44.18	8.56	6.15	31.75	10.65	4.94	1.19	84.80	33.87	7.33	5.50	54.67	58.67	62.33
MS 2010-28-27	1953	43.47	7.63	6.09	34.72	9.79	4.86	1.22	85.43	34.77	7.20	5.40	64.67	68.00	70.33
CSX5432	1949	47.73	8.22	5.15	29.94	8.80	4.57	1.23	84.60	33.57	6.57	5.97	70.33	63.00	77.00
Ark 1311-18	1924	45.16	8.08	5.97	33.53	9.61	4.76	1.28	85.80	34.20	6.67	4.43	85.33	78.00	87.33
GA 2016090	1920	43.09	7.71	6.04	33.77	10.07	4.45	1.23	85.67	34.80	6.67	5.23	74.33	73.67	78.67
OA-13	1877	42.38	7.39	5.95	34.21	9.92	4.95	1.16	84.77	34.10	7.17	5.60	45.33	54.67	54.00
MS 2010-66-16	1871	43.66	7.81	5.92	33.21	9.89	4.61	1.22	85.43	33.70	6.63	5.13	72.00	69.67	76.33
MS 2010-87-5	1866	44.12	8.02	6.08	33.57	10.25	4.57	1.22	85.43	34.00	6.60	5.33	72.33	70.00	76.33
Ark 1317-31	1864	40.50	7.51	5.94	32.07	10.93	4.48	1.24	85.70	33.70	7.03	5.27	79.33	74.67	82.33
Ark 1308-58	1857	42.67	8.36	6.20	31.67	11.05	4.76	1.23	84.93	32.33	8.07	5.37	68.33	64.33	74.33
MS 2010-87-37	1837	42.77	7.74	5.96	32.92	10.11	4.65	1.22	85.03	34.17	6.10	5.40	69.67	66.67	75.67
LA19073070	1826	40.80	7.68	6.40	33.98	11.01	4.76	1.15	85.17	35.07	7.40	4.97	46.33	58.67	54.67
Ark 1301-16	1819	42.09	9.16	6.95	31.92	12.41	4.69	1.23	85.43	31.97	7.70	5.40	71.33	69.33	75.67
DP 493 CK	1807	43.00	7.35	5.91	34.48	9.61	4.89	1.15	83.73	32.03	6.03	7.03	41.33	46.33	52.67
DP 393 CK	1787	41.99	8.08	6.19	32.18	11.01	4.84	1.17	84.60	32.43	7.43	5.97	48.67	54.67	57.33
FM 958 CK	1738	40.48	7.66	6.68	35.30	11.11	4.72	1.20	84.63	33.60	6.10	5.37	61.33	59.67	68.67
TAM 14B-72	1730	42.06	7.13	5.42	31.94	9.73	4.47	1.16	84.17	32.57	6.43	5.67	49.67	51.67	59.67
TAM 14E-12	1716	42.49	7.76	5.71	31.28	10.36	4.74	1.20	84.40	32.37	7.13	5.90	59.67	57.67	67.67
OA-133	1689	41.08	7.09	5.60	32.46	10.04	4.83	1.16	84.13	33.13	6.50	6.30	45.67	50.00	55.67
GA 2015026	1687	41.98	7.02	5.57	33.33	9.57	4.62	1.24	85.37	33.13	6.90	5.17	76.00	70.33	80.33
LA19073002	1638	40.67	7.40	6.39	35.33	10.48	5.13	1.14	84.30	32.37	6.43	6.43	32.33	46.00	42.67
GA 2016029	1629	43.57	7.80	6.08	33.97	9.87	4.85	1.19	85.13	33.97	6.60	5.87	57.33	62.00	63.33
TAMLBB16507	1533	39.57	7.72	5.93	30.43	11.80	4.41	1.23	85.33	34.27	6.47	5.47	73.33	69.67	78.00
TAMLBB17206	1414	37.27	7.09	6.27	32.97	11.83	4.43	1.21	84.47	33.13	6.00	6.27	65.00	60.00	72.33
Mean	1823	42.51	7.79	6.02	32.91	10.41	4.71	1.20	85.01	33.43	6.89	5.56	62.40	63.17	68.76
LSD (.05)	266	1.27	0.69	0.49	ns	0.90	0.23	0.04	1.25	1.92	0.45	1.06	14.77	13.16	12.31
Entry (P>F)	0.0003	<0.0001	<0.0001	<0.0001	0.0848	<0.0001	<0.0001	<0.0001	0.0478	0.0061	<0.0001	0.0148	<0.0001	<0.0001	<0.0001
CV(%)	10.39	1.83	5.39	4.96	5.75	5.29	2.93	2.20	0.90	3.52	4.00	11.63	14.46	12.72	10.93
R-Square	0.50	0.91	0.70	0.69	0.48	0.76	0.72	0.74	0.47	0.53	0.89	0.51	0.77	0.65	0.78
Reps	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Values in bold not significantly different from highest value according to LSD(0.05).

¹ QS1, QS2, and QS3 (Quality Score) - a measurement 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 (0.50), mic (0.25), UI (0.15), and strength (0.10)

QS2 - fiber length (0.20), mic (0.10), UI (0.40), and strength (0.30)

QS3 - fiber length (0.45), mic (0.25), UI (0.00), and strength (0.30).