

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2022 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	%	%			
CSX5432	2106	47.43	9.41	5.35	26.96	10.15	4.62	1.281	84.70	34.80	6.33	5.13	63.67	58.67	72.33
OA-22-3	2010	45.34	7.42	5.48	33.51	8.68	4.88	1.262	85.77	36.50	5.90	5.20	55.00	64.33	62.33
TAM 18 SHA-27	1910	40.81	8.60	6.15	29.21	12.23	3.99	1.325	85.80	36.47	6.67	4.10	81.00	74.67	86.33
Ark 1410-56	1884	40.24	7.76	6.06	31.51	11.24	4.41	1.272	86.40	34.63	6.53	4.70	67.67	72.00	71.33
Ark 1414-43	1879	39.95	7.44	5.49	29.56	10.93	4.41	1.297	85.90	35.17	6.37	4.43	73.00	71.33	78.00
MS 2010-87-42	1825	40.99	8.06	6.41	32.57	11.32	4.86	1.249	86.10	33.87	6.63	5.23	52.67	63.67	57.33
AU90098	1792	42.21	8.41	6.41	32.16	11.20	4.48	1.267	85.67	34.33	6.17	5.00	64.00	65.00	69.67
Ark 1414-28	1787	41.50	7.17	5.82	33.84	9.88	4.28	1.275	85.93	34.83	6.73	4.77	67.67	69.00	73.00
MS 2010-96-8	1767	41.04	9.03	6.89	31.55	12.61	4.75	1.231	84.77	35.37	6.73	5.77	46.00	53.33	56.67
AU72028	1764	41.20	7.75	5.57	29.60	10.77	4.56	1.217	84.40	33.70	6.80	6.13	44.00	48.33	54.67
UA 222 CK	1752	40.79	8.28	6.03	29.61	11.76	4.70	1.241	85.70	32.00	7.93	5.07	53.00	61.00	59.33
Ark 1414-47	1729	39.98	7.71	5.49	28.49	11.23	4.37	1.268	85.90	35.60	6.40	5.00	65.00	68.33	71.00
MS2010-87-44	1714	39.19	7.68	5.64	28.81	11.57	4.49	1.276	85.73	35.90	6.53	4.80	67.00	68.33	73.67
Ark 1410-32	1706	39.87	8.02	6.06	30.22	11.81	4.31	1.220	84.90	33.70	6.13	5.67	48.00	53.33	57.33
OA-22-2	1705	43.02	7.27	6.16	36.57	9.33	4.54	1.311	85.50	36.53	5.57	4.23	75.00	70.33	81.33
TAM 17 WSH-12	1690	44.76	7.71	5.93	34.45	9.29	4.53	1.202	84.23	30.63	7.23	6.43	39.00	45.00	51.00
TAM 17 SHK-43	1679	40.76	8.33	6.63	32.57	11.76	4.38	1.285	84.87	33.70	6.77	5.20	66.33	60.33	74.33
DP 493 CK	1668	41.38	7.57	6.29	34.38	10.45	4.84	1.195	83.63	34.63	5.67	7.23	33.00	39.33	47.00
MS 2010-66-16	1644	43.48	8.15	6.41	34.22	10.28	4.40	1.230	85.93	35.00	6.37	5.37	54.33	63.67	61.00
DP 393 CK	1620	40.17	8.71	6.27	29.15	12.65	4.78	1.246	85.60	35.60	7.20	5.07	53.33	61.67	60.67
MS 2010-87-37	1617	42.00	8.59	6.20	30.31	11.55	4.60	1.256	85.17	36.07	6.10	5.63	58.00	60.67	67.00
TAM 17 WSE-68	1608	36.14	7.14	6.39	32.33	12.37	3.96	1.424	86.57	37.43	6.53	3.73	95.00	86.67	98.00
OA-22-1	1560	39.40	6.63	5.14	30.63	9.92	3.94	1.272	84.67	35.20	6.07	5.47	56.00	56.00	65.33
MS 2010-28-27	1547	39.24	7.04	5.87	32.86	10.61	4.60	1.254	85.97	34.20	7.00	4.77	59.67	65.33	64.67
TAM 17 WSG-51	1540	35.31	7.04	6.30	31.63	12.53	4.12	1.395	85.60	35.47	6.70	3.77	91.67	77.00	95.33
Ark 1406-21	1521	42.51	7.45	5.45	31.04	9.79	4.84	1.252	85.50	33.80	6.90	5.23	53.00	59.67	59.67
FM 958 CK	1464	38.24	7.91	6.34	30.71	12.51	4.63	1.286	85.93	36.03	6.43	4.67	68.00	70.00	73.67
TAM 17 WSE-66	1285	35.99	7.03	5.87	29.97	12.19	3.75	1.410	85.97	38.27	5.93	3.73	89.33	81.33	94.33
Mean	1706	40.82	7.83	6.00	31.37	11.09	4.47	1.275	85.46	34.98	6.51	5.05	62.12	63.87	69.15
LSD (.05)	358	1.41	0.82	0.74	4.08	1.09	0.36	0.035	1.34	1.66	0.31	0.93	15.21	14.81	12.23
Entry (P>F)	0.0202	<.0001	<.0001	0.0009	0.0042	<.0001	<.0001	<.0001	0.0082	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
CV(%)	14.42	2.11	6.39	7.49	7.95	6.00	4.90	1.67	0.96	2.90	2.90	11.28	14.96	14.16	10.80
R-Square	0.47	0.94	0.73	0.60	0.56	0.81	0.75	0.91	0.52	0.78	0.92	0.75	0.80	0.67	0.82
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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).