Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2019 RBTN at College Station, Texas (Cooperator: Lori Hinze).

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	**1588**	41.57	**7.89**	5.33	28.19	10.92	5.02	1.20	83.98	32.90	**6.65**	7.13	54.75	56.00	62.75
Ark 1112-59	**1539**	42.39	**8.03**	5.52	29.18	10.72	4.90	1.18	84.65	34.88	5.78	7.05	52.50	60.75	59.50
Ark 1114-21	**1492**	42.99	7.64	5.60	**31.54**	9.98	4.62	1.21	84.43	31.65	5.78	7.28	64.00	63.00	70.00
Ark 1115-36	**1397**	**45.66**	**7.67**	4.77	28.51	8.94	5.01	1.21	**85.00**	33.25	6.28	6.98	60.25	65.50	65.25
Ark 1117-60	**1351**	41.11	**8.37**	5.30	25.99	**11.78**	**5.09**	1.21	84.60	35.50	5.60	7.15	57.00	63.25	64.00
DP 393 CK	**1340**	41.25	7.43	4.95	27.44	10.40	4.93	1.16	84.23	33.83	6.23	6.98	45.25	54.25	54.00
CSX8308	**1337**	**45.39**	**7.73**	4.74	27.88	9.06	5.03	1.20	83.63	36.25	5.25	7.50	53.50	55.25	64.25
MS 2010-87-37	**1337**	44.00	**7.88**	5.36	**29.94**	9.82	4.87	1.20	**84.95**	34.45	5.68	7.03	59.00	65.00	64.25
GA2016099	1331	42.90	7.43	5.60	**32.42**	9.74	5.03	1.23	84.15	35.05	5.73	7.25	62.00	61.25	69.25
Ark 1124-50	1326	43.39	**8.04**	5.44	29.35	10.34	4.82	1.25	84.70	35.28	5.35	7.10	74.00	69.75	79.25
Ark 1102-55	1322	41.84	7.59	4.92	27.16	10.36	4.73	1.20	84.15	31.03	5.80	7.50	60.75	59.50	68.25
13AFX13-12-5	1264	37.42	6.73	5.20	28.93	11.08	4.34	1.24	84.35	35.90	5.33	7.20	76.25	69.00	**83.00**
TAM 13S-03	1257	40.64	7.57	5.03	27.03	10.86	4.81	1.17	83.98	33.20	6.38	7.38	49.50	54.00	58.50
GA2016024	1251	43.09	**7.73**	5.63	**31.47**	10.02	4.77	1.21	84.75	36.40	5.55	7.08	65.75	68.00	72.50
GA2016103	1204	43.16	7.13	4.93	**29.84**	9.24	**5.29**	1.18	84.58	35.98	5.40	7.20	46.50	58.75	54.25
DP 493 CK	1188	43.59	6.93	4.97	**31.29**	8.80	**5.22**	1.11	82.95	31.80	5.30	**8.10**	24.75	36.75	37.75
13AFX6-27-2	1179	37.77	**7.71**	**5.66**	27.80	**12.50**	4.71	**1.29**	**86.08**	**39.45**	6.18	6.48	**89.00**	**88.75**	**92.00**
TAM 12J-39	1160	41.52	**8.37**	**6.13**	**30.50**	**11.58**	**5.19**	1.17	**85.13**	**38.58**	5.65	6.68	48.00	64.75	56.00
FM 958 CK	1073	39.74	7.58	5.48	28.73	11.30	4.90	1.17	84.28	35.33	5.08	7.43	48.50	57.00	57.50
TAMLBB15905	920	39.15	7.47	5.02	26.32	11.44	4.65	**1.28**	**86.00**	**38.35**	5.50	6.45	**90.00**	**88.00**	**92.50**
TAMLBB16507	908	38.80	**7.94**	**6.03**	**29.77**	**12.28**	4.59	1.22	83.48	36.23	5.40	7.58	66.25	59.50	76.50
Mean	1274	41.78	7.66	5.31	29.01	10.53	4.88	1.20	84.48	35.01	5.71	7.17	59.40	62.76	66.73
LSD (.05)	252	1.16	0.71	0.48	3.02	0.96	0.21	0.04	1.21	1.64	0.27	0.48	13.16	12.73	10.48
Entry (P>F)	<0.0001	<0.0001	0.0018	<0.0001	0.0011	<0.0001	<0.0001	<0.0001	0.0006	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	13.83	1.96	6.52	6.41	7.35	6.46	3.04	2.24	1.02	3.31	3.33	4.78	15.66	14.34	11.11
R-Square	0.76	0.91	0.47	0.64	0.51	0.77	0.77	0.76	0.53	0.84	0.87	0.63	0.78	0.68	0.81
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).