Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2019 RBTN at West Side, California (Cooperator: Bob Hutmacher).

Entry	Lint Yield[1]	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	%	%			
Ark 1102-55	**2007**	40.25	7.68	5.64	29.91	11.10	**4.87**	1.22	84.15	30.60	6.18	**7.55**	48.75	53.25	57.00
Ark 1117-60	**1964**	41.06	7.29	**6.50**	**37.58**	10.20	**4.71**	1.26	**85.23**	34.13	6.10	6.88	65.75	68.25	70.25
Ark 1112-59	**1933**	41.70	**8.64**	**6.46**	**31.38**	11.80	**4.64**	1.23	85.13	34.38	6.23	6.98	60.75	65.75	66.25
Ark 1114-21	**1866**	**42.91**	**8.55**	6.17	31.15	11.10	**4.58**	1.22	84.68	31.70	6.05	7.15	55.00	59.50	62.00
UA 222 CK	**1844**	39.97	7.67	6.12	**32.33**	11.30	**4.66**	1.23	83.85	33.83	**7.28**	7.28	53.75	53.50	63.00
DP 393 CK	**1821**	41.38	**7.97**	6.01	**31.66**	11.00	**4.71**	1.21	85.00	33.83	6.90	7.00	52.50	61.00	58.50
MS 2010-87-37	**1821**	42.37	7.41	6.25	**35.98**	9.90	**4.65**	1.25	**85.45**	34.43	5.63	6.75	66.50	70.75	71.25
GA2016024	**1798**	**44.24**	**9.24**	**6.54**	**32.14**	11.40	**4.75**	1.19	84.25	33.05	6.40	**7.43**	44.25	52.50	53.50
Ark 1124-50	**1769**	42.21	**8.06**	6.15	**32.27**	10.80	**4.56**	1.26	84.30	32.90	5.75	7.00	66.75	62.00	**74.00**
GA2016099	1760	42.24	**9.05**	6.05	28.80	12.20	**4.77**	1.27	84.58	33.60	6.48	6.85	67.50	64.25	**73.75**
TAM 13S-03	1729	37.71	6.23	5.80	**35.98**	10.10	4.29	1.22	84.53	34.03	6.95	7.23	57.25	60.50	65.50
Ark 1115-36	1687	**44.37**	**8.53**	5.65	29.55	10.50	**4.80**	1.25	**85.75**	31.83	6.65	6.80	63.50	70.50	66.25
13AFX6-27-2	1490	35.64	6.25	**6.40**	**36.68**	11.10	4.26	**1.36**	**86.35**	**37.35**	6.80	6.00	**86.75**	**87.25**	**88.50**
GA2016103	1476	41.14	**8.33**	5.44	26.97	11.60	**4.82**	1.23	85.10	**36.30**	6.00	6.80	57.50	66.25	65.00
TAMLBB15905	1450	39.14	6.70	5.85	**34.25**	10.20	**4.64**	1.30	**85.80**	35.15	5.93	6.30	**82.75**	**79.50**	**85.00**
FM 958 CK	1431	39.48	**8.01**	**6.45**	**32.15**	12.00	**4.63**	1.24	83.83	33.58	5.68	7.13	57.25	55.00	66.50
13AFX13-12-5	1288	37.02	6.54	5.78	**32.81**	10.90	4.10	1.27	84.83	34.05	5.85	7.00	66.75	65.75	72.00
CSX8308	1213	**42.87**	**8.31**	5.20	26.89	10.90	4.13	1.26	83.60	34.18	5.75	**7.33**	59.50	55.25	69.75
TAM 12J-39	1125	38.29	7.43	**6.58**	**34.42**	11.70	4.36	1.20	84.23	**37.98**	5.80	6.93	41.25	55.00	53.00
DP 493 CK	1115	41.08	7.62	4.88	26.31	10.70	3.94	1.16	82.30	31.63	5.78	**7.88**	28.25	34.00	43.25
TAMLBB16507	1062	38.19	7.26	**6.85**	**36.20**	11.60	4.15	1.28	84.03	35.00	5.90	6.88	**72.50**	63.50	**81.00**
Mean	1602	40.63	7.75	6.04	32.16	11.05	4.52	1.24	84.62	33.98	6.19	7.00	59.75	62.06	66.92
LSD (.05)	239	1.61	1.32	0.51	6.27	1.77	0.40	0.04	1.22	2.27	0.30	0.56	18.30	15.12	15.95
Entry (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0089	0.4233	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	10.53	2.81	12.00	5.99	13.79	11.32	6.21	2.54	1.02	4.73	3.45	5.67	21.66	17.22	16.85
R-Square	0.82	0.85	0.54	0.73	0.43	0.26	0.70	0.74	0.62	0.64	0.88	0.62	0.64	0.62	0.60
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).