

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Lubbock, Texas (Cooperator: Jane Denver).

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	%	%			
DP 493 CK	1847	39.90	6.05	4.86	32.13	8.25	4.67	1.14	81.83	31.35	6.48	9.13	36.75	37.25	51.00
Ark 1015-42	1651	41.17	6.92	5.52	32.85	9.03	4.70	1.25	84.63	31.43	7.48	7.75	76.00	72.25	79.25
LA11309040	1647	39.73	6.67	5.59	33.30	9.48	4.83	1.16	83.68	30.83	7.68	7.98	42.75	52.75	51.25
LA14063083	1613	39.18	6.53	5.47	32.78	9.43	4.48	1.22	84.00	32.98	7.75	7.85	67.25	65.75	74.25
MS 2010-87-5	1604	41.70	7.03	5.93	35.14	9.08	4.76	1.19	83.83	32.70	6.45	8.03	53.75	58.00	61.00
GA 2015024	1601	39.66	6.05	5.00	32.78	8.38	4.50	1.22	82.53	31.33	6.85	8.35	62.25	52.50	72.50
GA 2012141	1595	39.08	6.72	5.34	31.05	9.85	4.68	1.21	84.08	31.80	7.00	7.95	62.75	63.25	69.00
FM 958 CK	1558	37.03	6.16	5.84	35.16	9.73	4.58	1.18	83.48	32.90	6.38	8.20	52.50	54.75	61.25
TAM 12J-39	1519	37.69	7.26	6.35	33.03	11.03	4.90	1.15	84.35	36.98	6.63	7.60	42.75	61.50	53.00
16-13P1115	1477	36.01	6.69	6.84	36.83	10.98	4.28	1.18	84.85	35.90	6.15	7.63	59.75	70.50	66.75
Ark 1005-41	1474	38.83	7.64	6.37	32.34	11.50	4.71	1.26	85.48	32.60	7.28	7.38	79.00	79.50	79.75
LA14063075	1470	39.21	5.72	5.22	35.73	8.15	4.37	1.25	84.58	33.98	6.75	7.78	76.75	73.00	80.75
TAM 13S-03	1463	34.44	5.85	5.30	31.20	10.20	4.21	1.21	84.13	30.75	7.98	7.75	63.75	64.00	69.25
TAM LBB150107	1448	37.65	6.07	5.30	32.85	9.23	4.78	1.26	86.40	33.98	7.98	7.00	78.25	84.50	77.00
UA 222 CK	1444	36.99	6.48	5.03	28.71	9.87	4.29	1.22	83.83	31.23	8.20	8.00	67.75	63.25	74.00
Ark 1004-38	1428	36.95	6.87	5.77	31.06	10.90	4.62	1.25	83.85	31.93	6.08	8.18	75.00	66.75	80.50
PD2011026	1406	36.01	5.91	5.51	33.59	9.73	4.50	1.20	84.18	34.50	6.98	7.88	62.75	65.25	69.25
Ark 1007-15	1393	36.60	6.47	5.63	31.82	10.35	4.33	1.21	81.93	30.88	6.35	9.08	57.25	47.00	69.50
TAM LBB150921	1386	34.29	6.91	6.64	32.92	12.20	4.63	1.30	85.53	34.60	7.80	7.05	91.75	86.00	91.50
TAM LBB150824	1382	35.02	6.94	6.53	32.92	11.83	4.60	1.30	84.73	36.93	6.93	7.25	88.25	81.75	93.50
DP 393 CK	1373	37.61	6.30	6.02	35.95	9.65	4.66	1.18	84.28	31.63	7.45	7.80	53.75	61.25	59.75
Ark 1005-35	1359	35.72	6.12	5.77	33.68	10.33	4.77	1.26	84.55	33.95	6.53	7.75	75.25	72.00	79.00
PD2011021	1315	34.02	5.69	5.65	33.78	10.28	4.38	1.19	83.13	32.58	7.00	8.05	55.50	53.75	65.25
PD2011081	1254	34.76	5.81	5.53	33.12	10.08	4.52	1.16	82.90	30.65	6.85	8.45	46.25	48.25	57.25
Mean	1488	37.47	6.45	5.71	33.11	9.98	4.57	1.21	84.03	32.85	7.04	7.91	63.66	63.95	70.23
LSD (.05)	222	0.88	0.33	0.50	2.66	0.69	0.21	0.03	0.87	1.48	0.27	0.44	11.77	9.90	9.53
Entry (P>F)	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	10.55	1.66	3.63	6.15	5.69	4.89	3.20	1.95	0.73	3.19	2.70	3.98	13.10	10.97	9.62
R-Square	0.59	0.94	0.87	0.75	0.55	0.86	0.70	0.82	0.81	0.81	0.94	0.79	0.80	0.81	0.80
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).