

Table 3. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Alexandria, Louisiana (Cooperator: Gerald Myers).

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	%	%			
MS 2010-87-5	1475	42.75	7.79	6.15	33.69	10.30	4.55	1.25	85.53	32.88	2.73	6.83	59.50	55.25	68.75
DP 493 CK	1361	42.64	6.76	6.09	38.38	9.00	5.00	1.17	84.28	30.73	2.75	7.88	28.00	35.00	42.50
LA11309040	1308	41.09	7.44	5.86	32.36	10.60	4.85	1.24	85.95	33.05	4.35	6.35	51.50	55.25	59.50
TAM LBB150824	1297	38.23	8.10	7.37	34.79	13.00	4.95	1.37	87.38	39.15	3.78	6.05	87.50	84.50	92.00
LA14063083	1263	40.32	7.32	5.31	29.45	10.80	4.83	1.24	86.20	33.25	4.63	6.73	54.75	58.50	62.25
LA14063075	1239	40.12	6.21	5.43	35.32	9.20	4.53	1.30	87.40	34.03	3.18	6.43	81.00	77.75	83.25
GA 2012141	1216	39.68	7.62	5.94	30.97	11.50	4.73	1.26	88.03	31.13	3.95	6.23	68.25	75.75	69.25
Ark 1015-42	1182	41.30	7.29	5.29	29.99	10.30	4.53	1.29	87.05	32.90	4.35	6.08	74.50	72.00	77.75
PD2011026	1124	37.60	7.40	6.63	33.66	12.20	4.93	1.29	86.93	35.63	3.93	5.98	69.50	70.75	74.50
TAM LBB150921	1113	35.79	7.22	7.33	36.40	12.80	4.75	1.30	87.15	35.75	4.83	6.15	76.75	75.50	81.00
FM 958 CK	1100	40.01	7.30	5.83	32.05	10.90	4.85	1.23	85.50	34.13	2.50	6.78	49.75	52.00	60.00
TAM 12J-39	1097	39.21	7.53	7.59	39.44	11.60	4.85	1.22	86.60	40.18	2.88	5.90	51.75	64.75	62.00
PD2011021	1086	37.18	6.56	6.23	35.37	11.00	4.45	1.22	85.63	33.10	4.10	6.58	52.00	54.50	61.25
DP 393 CK	1074	39.96	7.32	6.15	33.78	10.90	4.78	1.20	85.35	33.83	4.68	6.88	40.25	46.75	51.00
UA 222 CK	1049	41.06	7.62	6.01	32.55	10.90	4.70	1.24	85.08	32.53	5.45	6.93	51.75	49.25	62.25
Ark 1007-15	1015	38.53	7.81	6.03	29.67	12.40	4.55	1.31	86.50	31.30	2.73	7.00	78.75	69.50	82.75
TAM 13S-03	967	38.51	6.91	5.73	31.89	11.00	4.53	1.23	86.95	33.33	5.08	6.03	59.25	65.50	65.00
PD2011081	950	36.22	6.50	5.60	31.16	11.40	4.58	1.23	85.28	32.60	3.58	6.95	52.25	50.75	62.75
Ark 1005-41	927	39.45	7.58	7.09	36.88	11.60	4.50	1.26	86.93	34.75	4.48	6.30	66.25	69.25	71.75
GA 2015024	908	40.55	6.80	5.70	34.02	9.90	4.60	1.29	86.20	32.80	3.18	7.10	70.25	64.25	76.25
16-13P1115	790	37.24	6.64	6.71	37.51	11.00	4.03	1.24	86.63	37.75	3.40	6.43	63.50	68.75	72.75
Ark 1004-38	784	40.32	8.04	5.96	30.01	11.80	4.65	1.30	86.75	31.88	3.13	7.15	77.00	70.50	80.75
Ark 1005-35	714	38.58	6.76	5.19	29.70	10.70	4.93	1.28	87.08	34.83	3.73	6.40	66.00	69.75	70.50
TAM LBB150107	522	40.42	6.61	4.86	29.65	9.70	4.95	1.24	87.98	35.65	5.13	5.65	55.50	71.75	59.50
Mean	1065	39.45	7.21	6.09	33.28	11.02	4.69	1.26	86.43	34.05	3.85	6.53	61.90	63.65	68.72
LSD (.05)	ns	1.29	0.59	1.02	5.35	0.98	0.31	0.05	1.49	1.83	0.61	0.75	16.42	12.23	12.99
Entry (P>F)	0.1286	<0.0001	<0.0001	<0.0001	0.0019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	35	2.32	5.75	11.90	11.40	6.32	4.74	2.75	1.22	3.81	11.24	8.16	18.80	17.00	13.40
R-Square	0.33	0.84	0.68	0.58	0.46	0.75	0.60	0.67	0.54	0.82	0.84	0.56	0.67	0.63	0.68
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).