

Table 15. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Tallassee, Alabama (Cooperator: Jenny Koebernick).

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	%	%			
LA11309040	1269	35.32	7.45	6.04	28.64	10.31	5.03	1.16	84.45	31.20	7.23	7.68	44.50	53.75	52.75
LA14063075	1157	33.65	7.41	6.15	28.13	10.38	4.78	1.25	85.48	33.60	6.05	7.53	78.75	74.75	81.50
GA 2012141	1145	33.92	8.36	6.46	26.63	11.51	5.07	1.19	85.10	32.15	6.38	7.70	55.00	62.50	60.00
TAM 13S-03	1139	31.49	6.36	5.67	27.82	10.74	4.36	1.17	84.40	30.93	7.23	7.63	56.00	58.00	63.75
Ark 1005-41	1130	32.71	7.93	6.85	28.35	12.70	5.19	1.24	86.03	34.58	6.85	7.08	71.50	76.50	73.25
PD2011026	1119	31.13	7.27	6.90	29.92	12.52	4.87	1.23	84.98	34.88	6.43	7.33	69.00	68.25	74.50
TAM 12J-39	1110	34.35	7.88	7.02	30.85	12.18	5.07	1.18	85.60	38.83	5.93	7.08	55.25	71.25	63.25
Ark 1004-38	1098	33.34	7.60	6.39	28.19	12.10	4.93	1.24	84.80	32.93	5.93	7.98	68.75	65.50	73.25
Ark 1015-42	1093	34.16	7.63	5.86	26.30	11.12	4.82	1.24	85.53	31.78	6.73	7.23	73.25	72.75	75.75
FM 958 CK	1086	33.25	7.62	6.85	29.92	11.64	5.13	1.17	83.90	32.45	5.95	7.68	44.75	50.00	54.25
TAM LBB150921	1037	29.76	6.95	7.44	32.07	12.67	5.03	1.27	86.10	36.55	7.15	6.90	81.75	83.75	84.75
TAM LBB150824	1035	32.94	7.35	6.66	29.99	11.95	4.96	1.28	84.63	36.70	6.58	7.25	81.75	73.25	88.50
MS 2010-87-5	1013	34.76	7.79	6.19	27.93	11.07	4.81	1.19	84.78	32.95	6.00	7.40	58.75	61.50	65.00
DP 493 CK	982	34.86	6.78	6.04	31.01	9.14	5.34	1.11	82.43	30.73	6.03	8.78	22.25	32.25	37.25
LA14063083	979	33.99	7.65	6.45	28.75	10.88	5.03	1.17	84.05	31.43	6.88	7.95	47.25	52.00	55.75
UA 222 CK	976	33.48	7.12	6.12	28.91	10.76	4.84	1.21	85.08	31.90	7.45	7.40	63.75	65.50	68.50
PD2011081	968	30.00	6.73	6.58	29.42	11.90	4.67	1.19	84.15	33.08	6.33	7.45	59.00	57.75	67.00
PD2011021	954	31.38	6.89	6.58	29.96	11.64	4.79	1.18	84.45	32.63	6.53	7.38	56.25	58.25	64.00
Ark 1005-35	929	31.27	6.69	5.91	28.28	10.64	5.25	1.21	84.40	33.50	6.40	7.60	54.75	57.50	61.50
TAM LBB150107	904	32.60	7.61	5.78	25.60	10.07	5.06	1.20	86.20	32.85	7.30	6.90	61.50	72.25	63.25
GA 2015024	886	33.71	7.18	5.81	27.39	10.19	4.80	1.22	84.15	32.45	6.15	7.88	66.00	60.00	73.00
DP 393 CK	832	33.04	7.05	5.95	28.48	10.67	5.05	1.14	83.98	31.10	7.05	7.65	38.00	48.00	48.00
16-13P1115	805	31.46	7.17	6.50	28.66	12.61	4.65	1.16	85.10	35.50	6.03	7.43	55.00	65.25	63.25
Ark 1007-15	782	31.93	7.41	6.14	26.97	11.62	4.76	1.21	83.83	31.60	6.00	8.13	63.50	56.75	72.00
Mean	1018	32.86	7.33	6.35	28.67	11.29	4.93	1.20	84.73	33.18	6.52	7.54	59.43	62.39	66.00
LSD (.05)	ns	1.17	ns	0.74	ns	1.37	0.30	0.03	1.02	1.46	0.23	0.43	12.78	10.86	10.63
Entry (P>F)	0.9398	<0.0001	0.6774	0.0003	0.4573	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	32.28	2.53	13.45	8.15	10.64	8.51	4.36	1.88	0.85	3.13	2.51	4.01	15.24	12.34	11.42
R-Square	0.44	0.84	0.30	0.64	0.39	0.58	0.63	0.82	0.66	0.84	0.93	0.72	0.77	0.74	0.77
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).