

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Stoneville, Mississippi, USDA location 2 (Cooperator: Jodi Scheffler).

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	2010	43.15	8.59	5.99	30.09	11.32	5.07	1.21	84.28	30.70	9.45	7.88	53.00	58.50	60.00
Ark 1015-42	2004	43.65	7.98	5.24	28.71	10.29	4.94	1.27	85.10	31.43	8.30	6.98	75.75	73.00	78.00
Ark 1004-38	1831	41.45	8.56	6.23	30.17	12.09	5.02	1.28	85.18	32.43	7.13	7.03	77.50	74.25	79.25
DP 393 CK	1802	43.58	8.25	5.70	30.11	10.68	5.19	1.20	84.73	32.33	9.08	7.75	48.25	59.50	54.25
DP 493 CK	1745	50.41	8.66	5.15	30.00	8.53	5.47	1.12	81.43	30.25	7.33	9.53	19.00	26.25	32.50
GA 2012141	1737	42.96	8.28	6.04	31.39	10.98	5.11	1.21	83.90	30.90	8.38	8.08	50.50	54.75	58.75
LA14063083	1707	44.62	8.51	5.72	30.04	10.56	4.85	1.22	83.55	31.45	8.60	7.95	56.00	54.25	64.50
MS 2010-87-5	1698	46.70	9.38	6.11	30.43	10.70	4.92	1.23	84.25	31.98	7.35	7.75	60.00	60.75	66.25
LA11309040	1657	44.62	8.40	5.73	30.48	10.42	5.18	1.18	83.40	31.90	9.13	7.78	40.25	46.75	50.25
Ark 1007-15	1640	39.67	7.88	6.10	30.77	11.98	4.88	1.24	83.25	30.58	7.18	8.08	61.25	54.50	70.25
Ark 1005-41	1633	41.65	8.95	6.07	28.23	12.54	5.14	1.27	84.90	32.98	8.55	7.23	69.50	69.25	72.75
GA 2015024	1623	45.02	7.96	5.40	30.51	9.73	4.97	1.23	84.55	31.55	7.75	7.65	62.25	63.50	67.75
LA14063075	1577	44.54	7.47	5.38	32.11	9.30	4.87	1.24	84.08	32.68	7.28	7.58	64.50	61.50	71.00
Ark 1005-35	1536	39.93	7.89	5.80	29.37	11.86	5.12	1.27	85.50	34.25	7.80	7.10	73.00	76.25	75.50
TAM LBB150921	1480	38.03	8.48	7.25	32.55	13.82	5.26	1.28	86.38	34.85	8.50	6.93	75.50	83.50	75.25
PD2011026	1399	40.28	7.89	6.10	31.18	11.69	4.98	1.25	85.10	33.83	7.88	7.40	67.50	69.75	70.75
TAM 13S-03	1382	41.32	7.68	5.22	28.13	10.90	4.86	1.18	83.88	31.45	9.50	7.88	48.00	53.50	57.00
TAM LBB150824	1333	41.10	9.08	6.35	28.78	13.01	5.14	1.31	85.00	35.40	7.85	6.73	82.25	77.25	86.00
TAM 12J-39	1327	42.76	8.75	6.62	32.44	11.70	5.37	1.19	85.08	37.73	7.33	7.65	46.00	65.75	55.00
TAM LBB150107	1317	43.75	8.03	5.41	29.52	10.32	5.23	1.25	86.05	33.10	8.93	7.00	66.75	76.00	66.75
FM 958 CK	1258	42.11	8.07	5.86	30.59	11.08	5.04	1.20	83.70	31.98	7.10	8.00	50.00	53.00	58.50
PD2011081	1212	38.96	7.20	5.59	30.26	11.29	4.74	1.16	83.13	30.35	8.00	8.25	41.00	45.25	52.50
PD2011021	1127	39.41	7.39	5.80	30.97	11.36	4.92	1.17	83.33	32.83	8.33	7.95	40.50	47.00	51.50
16-13P1115	899	38.55	7.45	5.71	29.54	11.88	4.37	1.24	85.63	34.60	7.57	7.27	73.75	77.00	76.50
Mean	1539	42.43	8.20	5.86	30.27	11.17	5.03	1.22	84.39	32.56	8.09	7.64	58.42	61.71	64.61
LSD (.05)	252	1.38	0.48	0.23	1.60	0.45	0.24	0.03	0.99	1.46	0.47	0.47	11.58	10.20	9.38
Entry (P>F)	<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	<0.0001
CV(%)	11.62	2.31	4.13	2.81	3.76	2.88	3.39	1.78	0.83	3.19	4.13	4.37	14.05	11.72	10.29
R-Square	0.80	0.92	0.79	0.92	0.61	0.95	0.70	0.85	0.78	0.81	0.87	0.81	0.83	0.83	0.82
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).