

Table 12. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Stoneville, Mississippi, USDA location 1 (Cooperator: Linghe Zeng).

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	%	%			
GA 2012141	1203	39.21	6.74	4.92	28.66	10.28	4.55	1.18	84.65	31.03	6.10	7.70	60.50	63.50	66.25
DP 493 CK	1151	42.71	6.23	4.98	34.12	8.18	5.04	1.11	81.88	29.95	5.73	8.98	27.00	32.00	42.50
UA 222 CK	1137	39.34	7.11	5.22	28.88	10.78	4.65	1.17	83.98	30.98	6.75	7.65	55.25	56.75	63.25
Ark 1015-42	1088	41.42	6.90	5.01	30.07	9.55	4.67	1.24	85.75	32.45	6.23	7.00	77.00	77.75	78.00
Ark 1007-15	1071	37.31	6.74	5.79	32.04	11.15	4.37	1.21	83.30	31.60	5.58	8.35	64.25	55.75	73.75
MS 2010-87-5	1071	40.61	7.04	5.62	32.44	10.13	4.66	1.19	84.23	32.43	5.70	7.65	59.00	60.00	66.00
GA 2015024	1040	39.61	6.09	4.97	32.40	9.13	4.42	1.23	83.73	31.55	5.93	7.58	71.75	61.75	79.25
LA11309040	1020	38.80	6.04	5.13	33.46	9.30	4.46	1.24	84.55	32.45	5.88	7.58	75.00	68.75	80.25
Ark 1005-35	1006	36.56	6.25	5.44	31.76	10.65	4.92	1.22	84.45	33.50	5.98	7.38	65.25	64.75	71.00
LA14063075	1000	40.64	6.93	4.85	28.42	9.95	4.85	1.16	84.58	31.58	6.73	7.48	49.00	58.50	55.50
DP 393 CK	988	38.40	6.53	5.67	33.37	10.30	4.84	1.17	84.05	32.55	6.60	7.43	50.50	55.50	58.50
TAM LBB150107	942	39.40	6.40	5.02	30.92	9.70	5.06	1.22	86.33	35.53	6.33	6.78	67.50	80.00	69.00
LA14063083	923	38.09	6.35	5.45	32.66	10.13	4.46	1.17	83.83	31.48	6.38	7.83	55.00	55.75	64.25
PD2011081	903	34.26	5.66	5.07	30.71	10.68	4.32	1.19	83.88	32.58	5.83	7.68	61.25	58.75	69.50
Ark 1005-41	903	38.28	7.15	5.72	30.60	11.33	4.72	1.22	85.15	34.48	6.33	7.38	70.50	72.50	75.00
Ark 1004-38	902	37.10	6.79	5.81	31.77	11.30	4.49	1.22	83.78	32.88	5.63	8.08	70.25	61.50	78.00
TAM 13S-03	886	37.31	6.04	5.69	35.34	9.98	4.38	1.19	84.20	30.63	6.83	7.75	62.25	61.00	68.75
TAM 12J-39	878	40.08	7.20	5.73	31.84	10.58	4.96	1.15	83.88	35.58	5.65	7.68	44.00	55.25	54.25
FM 958 CK	769	37.88	6.54	5.48	31.73	10.55	4.53	1.21	85.10	33.55	5.53	7.43	70.00	70.75	73.50
PD2011026	764	36.16	6.35	5.62	32.01	11.05	4.62	1.19	84.53	35.68	5.83	7.25	64.50	66.50	72.00
PD2011021	745	35.72	5.97	5.47	33.16	10.58	4.33	1.16	83.65	32.28	6.13	7.70	53.25	53.75	62.75
TAM LBB150921	744	35.12	7.10	5.75	28.43	12.93	4.88	1.24	85.70	36.03	6.80	6.95	74.75	79.25	78.25
TAM LBB150824	713	35.65	6.88	6.01	31.17	12.28	4.54	1.28	86.00	38.08	5.98	6.98	92.75	90.50	95.50
16-13P1115	608	36.58	6.74	5.66	30.74	11.48	4.29	1.18	85.23	35.78	5.60	7.13	62.75	71.00	69.00
Mean	936	38.18	6.57	5.42	31.53	10.50	4.62	1.20	84.43	33.11	6.08	7.56	62.64	63.81	69.33
LSD (.05)	143	0.92	0.52	0.50	3.51	0.75	0.24	0.04	1.34	1.80	0.20	0.58	13.22	13.55	10.42
Entry (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0105	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	10.87	1.71	5.61	6.60	7.89	5.06	3.70	2.14	1.13	3.85	2.30	5.45	14.97	15.05	10.66
R-Square	0.85	0.93	0.67	0.63	0.46	0.83	0.75	0.75	0.61	0.79	0.93	0.66	0.74	0.69	0.75
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).