

Table 10. Least square means for lint yield, yield components, and fiber quality traits in the 2015 RBTN trial conducted at Mississippi State, MS. (Cooperator: Jack McCarty)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 [†]	QS2 [†]
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%	%	%
DP 491 CK	2067	42.02	7.64	5.74	31.78	10.50	4.85	1.23	84.18	33.90	5.15	7.23	65.00	68.75
GA 2011124	2045	44.29	6.92	5.04	32.35	8.70	5.16	1.18	83.38	31.25	5.65	7.10	42.00	57.75
SG 105 CK	2030	40.87	7.96	5.69	29.33	11.50	5.30	1.19	84.93	32.15	5.88	7.15	48.00	67.00
Ark 0705-46	2019	42.53	8.00	5.69	30.35	10.80	5.26	1.18	83.63	33.35	5.88	7.25	40.25	58.25
DP 393 CK	2004	42.08	7.56	5.51	30.72	10.40	5.07	1.20	85.25	33.20	6.50	7.03	55.50	71.00
UA 222 CK	1974	40.88	7.34	5.64	31.60	10.60	4.68	1.25	83.73	32.43	6.97	7.40	68.50	66.00
GA 2011004	1966	44.95	7.44	5.20	31.46	9.10	5.10	1.17	84.15	31.13	6.08	7.35	43.50	62.50
LA12306010	1959	41.68	7.87	5.70	30.41	11.00	4.83	1.25	84.90	33.40	6.10	7.00	73.75	73.50
MS 0045-14 -5	1947	40.59	7.60	5.75	30.95	11.10	5.11	1.17	83.68	31.65	5.20	7.50	40.25	59.25
LA12306028	1929	40.15	7.92	5.85	29.66	11.80	4.92	1.28	86.10	35.78	5.73	6.50	83.75	86.50
MS 0043-28 -1	1918	41.65	7.36	5.32	30.15	10.30	5.08	1.17	83.55	31.90	5.63	7.45	40.00	58.25
Ark 0711-2	1904	40.67	7.88	5.53	28.53	11.50	5.23	1.23	84.93	34.45	4.93	7.00	60.75	70.75
GA 2010102	1902	39.77	7.45	5.53	29.55	11.30	5.20	1.23	85.35	34.63	5.13	7.10	60.75	74.00
NM 13W3007	1888	38.05	6.64	4.95	28.48	10.80	4.76	1.25	85.23	35.38	5.53	6.73	76.50	80.00
Ark 0701-17	1826	41.77	7.74	5.96	32.20	10.80	4.78	1.21	84.23	32.90	5.68	7.53	61.00	67.50
MS 0045-14 -8	1810	40.75	7.56	6.07	32.69	11.00	5.04	1.18	84.58	33.43	5.28	7.23	47.75	66.75
LA12306017	1775	41.03	7.65	5.35	28.66	11.00	5.13	1.23	84.25	34.13	5.83	7.28	60.25	66.50
PD 07040	1743	38.86	7.18	5.77	31.24	11.30	4.95	1.21	84.38	32.10	5.93	7.20	57.00	66.75
MS 0042-3 -7	1706	39.06	7.12	5.62	30.87	11.10	4.62	1.19	83.93	31.83	6.40	7.33	55.00	65.00
PD 07092	1619	39.11	6.94	5.49	30.95	10.80	4.70	1.30	86.25	36.18	6.15	6.38	92.25	91.00
Ark 0707-33	1618	42.45	8.27	5.50	28.32	11.20	4.76	1.20	84.40	32.60	7.15	7.05	55.75	67.00
PD 07116	1594	39.81	6.94	5.53	31.68	10.50	5.01	1.20	83.25	33.33	4.48	7.63	48.75	59.25
FM 958 CK	1588	41.24	7.17	5.20	30.12	10.20	4.82	1.17	83.55	32.00	4.65	7.80	45.00	60.50
PD 07105	1581	38.56	6.53	5.46	32.40	10.40	4.58	1.24	83.63	33.00	4.33	7.70	69.00	67.00
Acala 1517-08	1500	37.51	6.67	5.64	31.82	11.10	4.65	1.26	85.13	35.68	5.13	6.88	78.75	81.00
NM 13P1088	1483	38.06	6.76	5.41	30.48	11.00	4.63	1.22	85.08	35.08	6.48	6.80	70.00	77.25
Ark 0712-9	1475	39.53	6.61	5.48	32.88	10.10	4.88	1.21	82.63	30.15	5.80	8.15	53.25	57.50
NM 13W3017	1185	36.32	7.93	6.59	30.21	13.90	4.91	1.23	84.95	35.08	4.10	7.05	67.25	75.75
Mean	1788	40.51	7.38	5.58	30.71	10.85	4.93	1.21	84.40	33.29	5.63	7.21	59.27	68.65
Cultivar LSD (.05)	298	0.96	0.65	0.39	2.44	0.86	0.25	0.03	0.99	1.45	0.46	0.44	10.39	7.18
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0021	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	11.84	1.69	6.31	4.91	5.64	5.62	3.59	1.71	0.83	3.10	5.87	4.30	12.46	7.43
R-Square	0.65	0.92	0.68	0.67	0.49	0.77	0.72	0.79	0.68	0.76	0.87	0.68	0.82	0.80
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Values in bold are not significantly different from highest value according to LSD(0.05).

[†] QS1 & QS2 = Qscore, 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 (0.5), mic (0.25), UI (0.1), and strength (0.15); QS2 - fiber length (0.1), mic (0.1), UI (0.3), and strength (0.5)