

Table 12. Least square means for lint yield, yield components, and fiber quality traits in the 2015 RBTN trial conducted at Stoneville, MS, location 1. (Cooperator: Linghe Zeng)

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	%	%	%	%
Ark 0705-46	1439	41.99	8.67	4.73	22.99	11.95	5.98	1.13	84.55	34.33	5.48	6.75	28.00	58.75
Ark 0701-17	1309	40.83	8.47	6.01	29.01	12.24	5.31	1.22	84.30	35.25	5.33	6.98	57.50	65.50
SG 105 CK	1292	39.60	7.59	5.27	27.52	11.53	5.58	1.17	84.75	33.88	5.60	6.70	38.75	61.75
UA 222 CK	1284	39.82	7.91	5.21	26.22	11.91	5.23	1.22	85.18	34.13	6.22	6.90	61.75	69.75
GA 2011004	1241	42.86	7.38	4.78	27.81	9.85	5.48	1.21	84.55	34.88	5.33	6.88	51.25	64.25
GA 2011124	1238	42.92	6.95	4.44	27.44	9.20	5.67	1.14	83.80	33.10	5.28	7.23	27.75	54.00
MS 0045-14 -5	1223	39.28	7.45	5.29	27.91	11.47	5.49	1.17	85.10	34.43	5.38	6.58	43.25	65.75
DP 393 CK	1192	40.45	7.70	5.41	28.42	11.31	5.45	1.20	85.15	35.13	6.03	6.50	50.75	68.75
PD 07040	1117	37.43	7.17	5.27	27.53	11.95	5.22	1.19	83.93	34.55	5.38	7.03	49.00	61.25
LA12306017	1112	39.60	7.74	5.18	26.51	11.78	5.56	1.23	85.63	37.45	5.30	6.65	60.50	76.00
NM 13W3017	1112	33.24	7.38	5.58	25.15	14.73	5.16	1.21	84.50	38.60	4.03	6.90	59.25	72.75
MS 0042-3 -7	1110	37.87	7.25	5.32	27.78	11.85	5.10	1.19	84.43	33.30	5.68	7.10	52.00	64.00
FM 958 CK	1108	39.49	8.16	4.89	23.65	12.45	5.46	1.21	85.18	36.13	4.33	6.88	54.75	70.75
Ark 0707-33	1105	40.98	8.59	5.15	24.77	12.26	5.27	1.13	84.48	33.75	6.60	7.00	38.25	61.00
Ark 0711-2	1085	37.77	7.18	4.99	26.29	11.75	5.33	1.23	85.28	36.85	4.48	6.85	62.00	74.25
Ark 0712-9	1085	37.96	6.58	5.22	30.21	10.67	5.11	1.19	83.90	31.75	5.48	7.50	50.75	61.75
MS 0045-14 -8	1084	39.14	7.75	5.43	27.42	11.99	5.47	1.19	84.68	35.75	5.43	6.95	48.50	66.25
PD 07116	1062	36.38	6.90	5.12	27.11	11.97	4.99	1.21	84.50	36.80	4.25	7.13	59.75	70.25
NM 13P1088	1045	35.49	6.49	4.74	25.96	11.76	4.77	1.18	84.58	36.90	5.98	6.55	54.00	70.50
LA12306028	1035	37.39	7.53	5.15	25.57	12.56	5.21	1.27	85.95	39.00	5.70	6.28	78.50	84.75
MS 0043-28 -1	1035	38.36	7.28	4.84	25.48	11.62	5.33	1.19	84.90	35.50	4.75	6.83	50.50	67.75
GA 2010102	1013	37.76	7.08	4.86	25.98	11.61	5.31	1.26	85.60	37.13	4.40	6.53	73.50	78.50
Acala 1517-08	1008	35.57	6.94	4.88	25.00	12.51	4.82	1.24	85.18	39.80	4.80	6.70	75.00	82.25
LA12306010	1000	38.95	7.73	3.87	19.58	12.10	5.09	1.27	85.70	35.48	5.20	6.63	77.50	78.00
NM 13W3007	988	35.78	6.33	4.51	25.40	11.31	4.96	1.25	85.03	38.15	5.28	6.58	74.25	78.25
PD 07105	950	36.07	6.86	4.64	24.36	12.06	4.83	1.29	84.35	35.60	4.08	6.60	82.50	73.00
PD 07092	939	36.54	6.80	5.17	27.86	11.73	4.79	1.24	84.90	38.28	5.38	6.68	72.25	78.25
DP 491 CK	936	39.93	7.30	5.34	29.22	10.90	5.16	1.20	84.35	35.70	4.58	7.25	54.25	66.25
Mean	1112	38.55	7.40	5.05	26.36	11.75	5.25	1.21	84.80	35.77	5.20	6.82	56.64	69.44
Cultivar LSD (.05)	255	1.22	0.52	0.77	4.02	0.75	0.25	0.05	1.17	1.68	0.44	0.50	14.73	9.36
Cultivar (P>F)	0.0162	<0.0001	<0.0001	0.0027	0.0024	<0.0001	<0.0001	<0.0001	0.0277	<0.0001	<0.0001	0.0024	<0.0001	<0.0001
CV(%)	16.29	2.25	5.02	10.83	10.84	4.51	3.43	2.72	0.98	3.35	6.02	5.23	18.48	9.58
R-Square	0.64	0.91	0.79	0.43	0.44	0.81	0.77	0.69	0.45	0.78	0.85	0.47	0.73	0.66
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)