

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2015 RBTN trial conducted at Stoneville, MS, location 2. (Cooperator: Jodi Scheffler)

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 393 CK	1460	41.52	7.34	4.76	26.89	10.00	5.07	1.16	83.95	30.00	6.50	7.30	50.25	66.50
UA 222 CK	1449	40.66	7.74	5.54	29.10	10.97	5.07	1.19	83.60	30.28	6.72	7.13	57.75	66.25
LA12306017	1411	41.69	7.73	5.10	27.48	10.47	5.24	1.19	83.63	31.78	5.70	7.50	54.75	65.00
GA 2011124	1401	42.99	6.81	4.69	29.60	8.69	5.25	1.13	82.65	29.23	5.70	7.65	35.00	49.75
Ark 0705-46	1388	41.50	8.54	5.55	26.96	11.70	5.64	1.15	84.23	31.25	5.88	7.08	39.00	63.50
Ark 0707-33	1373	41.94	8.84	5.39	25.60	11.85	5.21	1.14	83.53	29.33	7.23	7.18	42.25	62.00
SG 105 CK	1339	40.56	7.73	4.91	25.75	10.95	5.31	1.14	84.33	29.45	5.88	7.13	42.25	66.00
Ark 0701-17	1306	40.88	8.01	5.42	27.74	11.23	5.03	1.20	84.08	31.18	5.63	7.45	62.25	69.75
GA 2011004	1297	43.35	7.58	4.92	28.10	9.57	5.20	1.19	83.60	30.28	5.73	7.35	56.25	65.50
DP 491 CK	1281	41.70	7.32	5.38	30.65	9.94	4.99	1.17	82.08	30.48	5.05	8.33	49.75	57.75
MS 0043-28 -1	1243	41.65	7.50	4.55	25.27	10.20	5.20	1.13	83.90	30.25	5.75	7.50	40.75	63.75
FM 958 CK	1232	40.59	7.80	5.07	26.38	11.07	5.16	1.18	83.65	32.55	4.68	7.53	54.25	65.75
MS 0045-14 -8	1228	39.46	7.25	5.53	30.11	10.84	5.23	1.15	83.10	31.25	5.35	7.43	43.50	60.00
MS 0042-3 -7	1224	39.97	7.56	5.42	28.70	10.94	4.95	1.14	82.63	29.55	6.33	7.88	43.00	54.50
PD 07040	1224	39.23	7.31	5.63	30.23	11.01	4.95	1.17	82.60	30.58	5.90	7.58	50.25	59.25
Ark 0712-9	1220	38.85	6.66	5.06	29.58	10.19	4.81	1.20	82.70	29.53	6.13	8.15	63.25	63.00
Ark 0711-2	1210	39.82	7.26	4.90	26.90	10.63	5.11	1.20	83.63	32.43	4.90	7.38	59.00	66.50
LA12306028	1183	39.80	7.76	5.12	26.23	11.44	4.96	1.24	85.00	33.78	5.68	6.80	80.00	80.75
MS 0045-14 -5	1176	39.47	7.39	5.27	28.15	11.01	5.09	1.17	83.45	30.85	5.00	7.45	50.50	63.75
GA 2010102	1082	38.79	7.10	4.62	25.24	10.84	4.94	1.22	84.55	32.63	4.93	7.18	73.00	74.75
PD 07116	1027	38.30	6.96	5.08	27.96	10.86	4.85	1.20	84.15	31.80	4.25	7.25	66.25	71.25
PD 07092	1014	38.15	7.41	5.13	26.38	11.64	4.67	1.22	85.03	33.70	5.45	6.88	78.00	81.50
LA12306010	980	40.90	8.11	5.23	26.38	11.38	4.82	1.24	84.83	32.28	5.78	7.13	81.25	78.25
PD 07105	929	36.25	7.06	5.52	28.34	12.09	4.48	1.26	83.70	31.40	4.35	7.23	84.75	73.75
Acala 1517-08	917	36.62	6.73	4.75	25.89	11.34	4.64	1.20	84.38	34.40	5.23	7.28	72.50	79.75
NM 13W3007	906	36.91	6.44	5.10	29.22	10.64	4.69	1.20	83.35	32.00	5.55	7.48	67.75	68.00
NM 13P1088	764	36.50	6.53	5.30	29.55	11.11	4.64	1.18	84.03	33.13	6.05	7.23	64.75	73.25
NM 13W3017	690	35.33	7.73	6.29	28.76	13.80	4.79	1.21	84.25	32.35	3.93	7.25	69.50	72.75
Mean	1177	39.76	7.44	5.19	27.76	10.94	5.00	1.18	83.73	31.34	5.54	7.38	58.28	67.23
Cultivar LSD (.05)	176	1.27	0.38	0.46	2.54	0.67	0.22	0.03	1.15	1.53	0.45	0.53	12.35	10.26
Cultivar (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
CV(%)	10.65	2.27	3.60	6.34	6.51	4.37	3.17	2.02	0.97	3.47	5.74	5.15	15.06	10.84
R-Square	0.81	0.88	0.85	0.64	0.53	0.83	0.81	0.78	0.56	0.72	0.88	0.53	0.81	0.63
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)