

Table 12. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Stoneville, MS. (Cooperator: Bill Meredith)

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	%	%		
AU3095	1100	41.96	7.20	5.02	29.27	9.95	5.07	1.19	84.65	33.73	4.40	6.90	58.00	69.25
AU3111	1109	42.85	7.19	5.07	30.24	9.60	5.12	1.19	84.23	33.58	3.88	6.88	56.00	66.50
AU3202	942	40.34	7.17	4.75	26.76	10.60	5.22	1.18	83.95	34.35	4.55	6.88	50.75	65.50
AU3223	1133	43.17	7.14	4.77	28.83	9.40	5.09	1.18	84.18	33.65	4.85	6.95	54.25	67.00
Acala 1517-08	764	37.18	6.69	4.84	26.92	11.30	4.83	1.25	85.40	36.88	3.90	6.43	82.75	82.25
Ark 0304-23	866	39.04	6.82	5.28	30.19	10.65	4.96	1.17	84.63	33.05	4.45	6.78	54.25	69.00
Ark 0305-07	1002	41.50	7.34	4.79	27.06	10.35	5.06	1.18	83.75	33.65	3.88	6.80	56.25	64.50
Ark 0309-31	854	39.20	7.15	5.77	31.61	11.10	5.12	1.21	84.03	35.28	4.08	6.80	62.25	68.50
Ark 0316-36	1359	43.25	7.35	5.06	29.77	9.65	5.14	1.17	84.00	33.43	4.75	6.85	51.00	64.50
Ark M222-07	1024	39.54	7.16	5.21	28.79	10.95	5.33	1.17	83.75	34.73	4.10	6.88	46.25	62.50
DP 393	1203	41.07	7.18	5.19	29.68	10.30	5.10	1.17	84.58	34.63	4.80	6.58	52.75	69.25
FM 958	910	39.10	7.12	5.13	28.18	11.10	4.89	1.21	84.45	37.23	4.00	6.80	67.00	75.75
GA 2004143	996	42.61	6.98	4.34	26.47	9.40	4.99	1.20	83.93	36.68	3.35	6.78	62.50	70.75
LA06307025	1291	44.85	7.40	4.70	28.48	9.10	5.20	1.17	83.83	33.88	4.50	6.90	47.50	62.75
LA07307106	1004	42.05	8.09	5.75	29.88	11.15	5.10	1.20	84.35	33.78	4.70	6.83	60.25	68.75
MD 25-26ne	1310	39.43	7.10	5.64	31.33	10.90	4.67	1.25	85.58	36.50	4.55	6.45	83.50	82.75
MD 25-27Y	1206	39.21	6.96	5.29	29.76	10.80	4.76	1.15	84.25	35.28	4.15	6.85	56.50	69.75
MD 25-87Y	1213	36.94	6.88	5.57	29.87	11.75	4.58	1.22	85.20	40.60	3.68	6.60	79.50	87.00
NC08AZ21	851	37.25	6.06	4.56	28.03	10.20	5.30	1.17	83.48	34.03	4.83	7.40	47.75	62.25
NM08N1084	827	40.50	6.81	4.48	26.64	10.00	5.03	1.13	83.55	35.65	4.65	6.70	42.50	62.75
NM08N1562	959	39.76	6.43	4.32	26.73	9.75	4.80	1.19	83.95	34.93	4.93	6.63	60.25	68.50
NM08N1564	781	38.20	6.39	4.53	27.08	10.35	5.02	1.18	83.83	35.25	4.80	6.88	56.50	67.25
PD 05069	610	40.03	7.14	5.07	28.44	10.70	4.67	1.20	84.65	37.35	4.33	6.63	67.75	77.50
PD 05070	849	40.93	6.72	4.96	30.19	9.70	5.21	1.18	83.65	34.80	4.05	7.03	50.75	63.50
PD 06001	1012	38.08	6.67	5.31	30.30	10.85	4.97	1.18	84.30	34.60	3.98	6.83	57.00	68.50
SG 105	1075	41.09	7.14	4.87	27.96	10.25	5.06	1.19	84.40	35.23	4.35	6.63	58.75	70.75
Tamcot 73	999	38.43	6.62	4.87	28.29	10.60	4.97	1.19	84.83	37.15	4.65	6.28	62.75	76.50
Mean	1009	40.28	7.00	5.00	28.77	10.39	5.01	1.19	84.27	35.18	4.34	6.77	58.71	69.77
LSD (.05)	137	1.30	0.39	0.44	2.55	0.66	0.35	0.06	1.38	2.53	0.86	0.53	20.51	12.14
CV(%)	9.66	1.58	2.68	6.25	6.29	3.08	4.99	3.43	1.16	5.10	14.10	5.60	24.81	12.36
R-Square	0.83	0.95	0.90	0.69	0.48	0.90	0.47	0.39	0.30	0.55	0.39	0.30	0.43	0.45
Reps	4	2	2	4	4	2	4	4	4	4	4	4	4	4

Shaded Values 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)