

Table 10. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Mississippi State, MS ¹. (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	%	%		
AU3095	1439	43.83	7.27	5.10	31.08	9.31	5.00	1.16	83.20	28.50	5.23	7.25	41.00	46.75
AU3111	1600	43.76	7.16	5.11	31.28	9.19	4.85	1.18	83.93	32.78	4.98	6.80	53.25	64.00
AU3202	1688	41.35	7.24	4.86	27.79	10.27	5.15	1.21	84.21	32.82	4.72	6.80	55.94	63.40
AU3223	1688	43.26	7.02	4.96	30.67	9.21	4.99	1.17	84.25	31.25	5.75	7.08	49.00	63.75
Acala 1517-08	1337	37.75	6.35	4.84	28.82	10.47	4.37	1.24	84.70	38.03	5.35	6.73	81.25	82.00
Ark 0304-23	1513	39.84	6.99	5.35	30.55	10.55	4.46	1.20	84.93	32.20	4.80	6.68	69.25	73.25
Ark 0305-07	1376	41.15	6.72	4.87	29.79	9.62	4.49	1.21	84.13	32.75	4.33	6.85	69.50	69.75
Ark 0309-31	1115	38.01	6.54	5.69	33.09	10.67	4.18	1.22	85.13	35.58	4.48	6.88	75.25	80.00
Ark 0316-36	1570	42.09	6.56	4.75	30.46	9.03	4.65	1.15	83.10	30.75	5.65	7.13	45.25	58.25
Ark M222-07	1318	40.09	7.05	5.08	28.96	10.53	4.81	1.17	84.50	33.15	4.90	6.88	54.50	68.00
DP 393	1556	39.31	6.43	4.81	29.40	9.93	4.80	1.14	84.60	32.28	6.15	6.70	46.25	66.00
FM 958	1425	40.06	7.47	5.50	29.53	11.18	4.64	1.19	84.48	35.73	3.70	6.75	63.75	74.00
GA 2004143	1339	43.52	7.42	5.05	29.69	9.62	4.73	1.21	84.65	34.83	3.93	7.13	66.50	72.50
LA06307025	1686	43.84	6.91	4.41	28.02	8.85	4.83	1.18	84.55	34.30	5.55	6.63	55.50	69.00
LA07307106	.	.	.	.	.	.	4.43	1.20	84.38	32.55	6.18	7.25	66.00	69.50
MD 25-26ne	1467	38.83	6.70	5.47	31.72	10.55	4.36	1.28	85.88	35.38	5.10	6.40	93.50	86.25
MD 25-27Y	1789	40.86	7.10	5.42	31.19	10.27	4.41	1.19	84.93	32.88	4.13	6.93	64.50	72.75
MD 25-87Y	1421	38.77	7.19	5.46	29.41	11.35	4.38	1.21	85.28	37.80	4.28	6.63	75.50	85.00
NC08AZ21	1461	37.39	5.51	4.31	29.35	9.23	4.64	1.16	84.25	30.35	5.55	6.95	52.25	65.75
NM08N1084	1588	41.03	6.69	4.50	27.59	9.61	4.49	1.17	84.43	34.85	5.43	6.83	58.25	70.75
NM08N1562	1597	36.97	5.45	4.32	29.29	9.30	4.10	1.20	84.28	32.20	5.55	6.98	67.75	69.75
NM08N1564	1517	37.74	5.61	4.51	30.32	9.26	4.23	1.19	84.68	31.58	5.85	6.88	64.75	71.00
PD 05069	1252	40.44	6.86	4.97	29.30	10.11	4.62	1.23	84.60	38.55	4.90	7.05	73.50	79.50
PD 05070	1449	40.08	6.31	4.72	29.95	9.43	4.49	1.18	83.38	34.43	4.38	7.13	58.50	64.75
PD 06001	1293	37.45	6.23	4.75	28.69	10.39	4.53	1.23	84.20	34.08	4.58	6.95	73.25	71.75
SG 105	1398	39.29	6.16	4.58	29.20	9.53	4.57	1.18	84.68	32.63	5.18	6.63	59.50	70.00
Tamcot 73	1545	39.32	6.37	4.79	29.56	9.84	4.43	1.20	84.35	35.10	5.32	6.85	66.00	72.00
Mean	1478	40.23	6.67	4.93	29.80	9.89	4.58	1.19	84.43	33.60	5.03	6.88	62.94	70.35
LSD (.05)	298	0.92	0.51	0.34	2.56	0.61	0.29	0.04	1.22	2.30	0.52	0.45	14.37	12.52
CV(%)	14.32	1.62	5.47	4.86	6.09	4.40	4.49	2.14	1.01	4.76	7.21	4.60	15.87	12.38
R-Square	0.44	0.94	0.77	0.77	0.41	0.76	0.66	0.50	0.40	0.75	0.82	0.37	0.66	0.54
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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

¹ Yield and yield components for LA07307106 not included due to stand failure.

[†] 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)