

Table 7. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Keiser, AR. (Cooperator: Fred Bourland)

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	1167	40.38	7.21	4.46	24.99	10.41	4.47	1.23	84.65	29.13	5.53	6.93	65.75	65.25
AU3111	1217	41.44	6.92	3.96	23.74	9.51	4.24	1.18	84.00	30.70	5.83	7.08	51.25	62.75
AU3202	1147	37.93	6.74	3.98	22.42	10.76	4.51	1.22	84.43	30.78	5.55	6.80	59.25	66.00
AU3223	1291	39.95	6.71	4.08	24.32	9.75	4.44	1.19	83.63	28.80	6.63	7.10	50.50	57.25
Acala 1517-08	973	36.02	6.39	4.08	22.97	11.09	4.25	1.26	84.93	35.38	5.50	6.60	75.50	76.00
Ark 0304-23	1094	37.57	6.90	4.60	25.06	11.10	4.36	1.20	84.60	32.03	5.35	6.80	54.00	65.75
Ark 0305-07	1091	38.90	6.48	3.97	23.79	9.94	4.02	1.26	84.75	31.70	5.08	6.75	75.25	71.50
Ark 0309-31	1141	36.03	6.73	5.08	27.20	11.69	4.23	1.27	84.63	33.38	5.15	6.68	77.00	71.25
Ark 0316-36	1260	37.19	7.30	4.46	22.81	12.01	4.44	1.22	85.55	31.93	5.33	6.43	66.00	74.25
Ark M222-07	1135	36.68	6.81	4.20	22.66	11.45	4.59	1.19	85.20	31.68	5.45	6.73	54.00	68.75
DP 393	1167	38.68	6.83	4.03	22.84	10.59	4.36	1.20	85.23	32.65	6.93	6.65	59.00	71.25
FM 958	1068	38.11	7.12	4.54	24.32	11.21	4.66	1.19	84.33	33.60	4.80	6.88	49.50	63.00
GA 2004143	982	41.44	6.73	3.78	23.31	9.34	4.34	1.23	85.18	31.28	5.10	6.80	69.25	72.75
LA06307025	1220	40.33	6.85	4.07	23.93	9.84	4.44	1.22	84.30	33.50	6.23	6.73	60.75	67.25
LA07307106	1198	38.72	7.10	4.42	24.08	10.83	4.33	1.23	85.00	30.95	6.68	6.78	66.50	71.00
MD 25-26ne	1110	36.39	6.58	4.67	25.81	11.17	4.13	1.30	85.58	34.58	6.03	6.35	87.75	81.00
MD 25-27Y	1278	38.15	6.88	4.56	25.34	10.91	4.15	1.23	85.70	33.30	5.25	6.60	69.25	77.50
MD 25-87Y	1200	36.40	7.44	4.78	23.44	12.73	4.09	1.26	86.88	36.53	5.35	6.28	83.75	91.75
NC08AZ21	973	34.90	5.48	3.66	23.46	9.85	4.36	1.19	84.08	29.70	6.20	7.10	52.00	63.00
NM08N1084	1074	38.71	6.70	4.06	23.48	10.33	4.09	1.20	84.20	34.55	5.95	7.00	58.25	66.75
NM08N1562	1042	35.23	5.60	3.42	21.55	10.02	3.56	1.26	84.93	31.68	6.10	6.75	64.00	68.00
NM08N1564	908	34.86	5.93	4.10	24.22	10.64	3.97	1.21	84.73	32.20	6.23	6.93	62.25	68.75
PD 05069	1060	39.57	6.87	4.60	26.52	10.37	4.54	1.24	85.00	34.08	5.78	6.73	69.75	72.75
PD 05070	1066	38.14	6.42	4.02	23.92	10.09	4.39	1.20	84.28	33.13	5.50	6.98	55.75	65.00
PD 06001	1041	34.66	6.37	4.38	23.91	11.73	4.49	1.24	84.60	33.00	5.00	6.73	66.50	67.75
SG 105	1034	37.09	6.75	4.09	22.46	11.12	4.45	1.21	85.48	31.03	6.50	6.53	62.50	72.75
Tamcot 73	1023	36.08	6.13	4.13	24.24	10.54	4.26	1.22	84.88	36.10	6.10	6.48	65.00	76.25
Mean	1110	37.76	6.67	4.23	23.95	10.70	4.30	1.22	84.84	32.49	5.74	6.75	64.08	70.19
LSD (.05)	111	1.86	0.58	0.46	2.75	0.82	0.39	0.04	1.05	1.68	0.48	0.40	16.49	9.30
CV(%)	7.08	3.49	6.18	7.78	8.14	5.45	6.37	2.42	0.88	3.68	5.89	4.26	18.28	9.40
R-Square	0.70	0.75	0.64	0.64	0.39	0.72	0.49	0.56	0.53	0.78	0.79	0.44	0.50	0.59
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).

[†] 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)