

Table 11. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at St. Joseph, LA. (Cooperator: Gerald Myers)

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	785	42.97	7.33	4.78	28.20	9.45	5.10	1.14	84.08	30.20	6.08	7.08	60.25	68.75
AU3111	1033	43.60	7.28	5.21	31.19	9.21	5.08	1.12	82.58	30.25	5.83	7.98	49.75	58.75
AU3202	1018	42.14	7.50	4.71	26.57	10.18	5.48	1.13	84.38	30.23	4.95	6.83	52.00	67.75
AU3223	910	44.73	6.73	4.66	31.01	8.19	5.33	1.10	82.90	29.33	6.85	7.95	38.00	47.50
Acala 1517-08	678	38.96	6.85	5.15	29.42	10.63	4.95	1.19	84.28	36.73	5.05	6.55	77.25	82.25
Ark 0304-23	1041	41.59	7.35	5.67	32.04	10.18	5.05	1.12	83.60	28.98	5.25	7.33	49.75	54.75
Ark 0305-07	926	42.90	7.24	5.17	30.83	9.48	5.08	1.15	83.33	29.60	5.18	7.28	59.00	64.50
Ark 0309-31	689	40.79	6.80	5.47	32.76	9.70	4.68	1.15	83.88	29.85	5.08	7.38	69.50	71.00
Ark 0316-36	971	41.95	6.31	4.81	31.84	8.63	4.93	1.08	82.28	30.48	6.35	8.08	41.25	57.25
Ark M222-07	721	40.32	6.84	4.80	28.32	10.05	5.38	1.12	83.95	30.03	5.98	7.23	45.25	54.50
DP 393	990	40.27	6.20	4.68	30.40	9.05	5.03	1.11	83.78	35.58	6.83	6.43	53.00	72.25
FM 958	760	40.14	7.68	5.39	28.23	11.27	5.15	1.12	84.00	31.78	4.33	7.00	53.50	67.00
GA 2004143	694	42.54	7.41	4.87	28.11	9.86	5.05	1.18	84.55	31.40	4.38	6.70	71.50	73.75
LA06307025	1157	44.35	7.04	4.85	30.52	8.77	5.23	1.13	82.83	32.48	5.78	6.95	49.25	59.75
LA07307106	709	42.72	7.77	5.50	30.33	10.27	5.00	1.16	84.65	33.63	6.80	6.78	69.50	75.25
MD 25-26ne	996	39.13	6.73	5.66	32.96	10.32	4.73	1.23	85.75	34.45	5.20	6.18	92.00	88.25
MD 25-27Y	1013	40.62	7.03	5.93	34.24	10.15	4.73	1.15	84.90	32.15	4.65	6.53	70.50	76.50
MD 25-87Y	1016	38.49	7.07	6.15	33.49	11.19	4.83	1.17	85.88	36.83	4.55	6.15	79.25	91.50
NC08AZ21	867	38.78	6.03	4.42	28.40	9.37	5.20	1.08	81.58	28.53	7.10	8.53	31.75	41.00
NM08N1084	1006	42.44	6.84	4.70	29.20	9.15	4.98	1.10	83.23	35.18	5.48	7.48	48.50	67.00
NM08N1562	923	39.32	5.91	4.42	29.49	8.97	4.85	1.14	83.50	31.23	6.03	7.50	60.50	66.75
NM08N1564	643	38.81	6.23	4.74	29.51	9.64	5.00	1.15	84.68	33.00	5.90	6.93	66.00	74.75
PD 05069	734	40.66	7.03	5.49	31.76	10.12	5.25	1.15	83.65	35.68	4.85	6.85	60.50	73.00
PD 05070	657	40.16	6.63	5.22	31.78	9.64	5.18	1.12	83.33	32.13	4.93	7.35	49.75	62.50
PD 06001	782	38.27	6.38	5.10	30.59	10.14	4.83	1.13	82.88	29.78	5.53	7.88	57.75	62.50
SG 105	925	39.16	6.38	4.96	30.50	9.72	5.45	1.08	83.68	30.43	6.10	7.25	36.75	60.50
Tamcot 73	957	39.96	7.10	5.51	31.02	10.57	5.20	1.16	84.00	35.13	5.55	6.58	63.75	73.75
Mean	874	40.96	6.88	5.11	30.47	9.77	5.06	1.13	83.78	32.04	5.58	7.14	57.62	67.15
LSD (.05)	250	1.59	0.61	0.48	3.31	0.78	0.25	0.03	1.24	1.54	0.67	0.87	12.51	14.73
CV(%)	20.08	2.76	6.28	6.68	7.72	5.69	3.45	2.06	1.05	3.41	8.53	8.66	15.42	15.58
R-Square	0.54	0.80	0.66	0.72	0.47	0.75	0.67	0.75	0.63	0.88	0.78	0.57	0.28	0.64
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)