

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Maricopa, AZ. (Cooperator: Michael Gore)

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	1209	43.12	8.04	4.51	24.23	10.36	5.48	1.15	83.48	31.58	4.40	7.15	50.50	62.25
AU3111	1001	45.07	8.33	4.57	24.74	9.88	5.55	1.14	82.83	32.10	4.10	7.18	44.75	57.75
AU3202	1016	41.69	7.95	3.90	20.54	10.72	5.70	1.14	83.73	32.33	3.75	7.13	47.25	62.75
AU3223	1241	43.31	7.68	4.03	22.74	9.76	5.49	1.12	83.88	31.10	4.73	7.15	43.50	63.25
Acala 1517-08	1221	38.05	7.92	4.16	20.03	12.46	5.05	1.22	84.48	40.03	4.48	6.60	80.50	84.75
Ark 0304-23	901	40.93	7.45	4.70	25.86	10.52	5.25	1.12	83.08	31.80	3.85	7.15	46.00	60.00
Ark 0305-07	1025	43.01	7.94	3.89	21.11	10.10	5.24	1.16	83.73	33.05	3.45	7.10	59.25	66.25
Ark 0309-31	1024	40.52	7.97	4.53	23.11	11.47	5.22	1.18	84.13	36.45	3.60	7.13	65.50	74.50
Ark 0316-36	1131	42.94	7.33	4.15	24.47	9.45	5.34	1.13	84.23	32.38	5.50	6.78	51.00	67.00
Ark M222-07	1199	38.62	7.50	4.11	21.19	11.52	5.59	1.13	83.55	32.63	3.88	7.28	45.50	61.50
DP 393	1294	42.64	7.85	4.35	23.73	10.21	5.61	1.11	83.75	34.60	5.68	6.60	40.00	63.50
FM 958	1077	39.40	7.99	3.69	18.14	12.04	5.12	1.13	83.65	35.38	3.43	7.35	52.00	67.75
GA 2004143	1024	43.43	7.87	4.01	22.12	9.98	5.35	1.15	82.75	33.80	3.08	7.55	50.50	59.50
LA06307025	1173	43.45	7.73	4.05	22.77	9.73	5.50	1.12	83.80	32.48	4.83	6.80	43.25	62.50
LA07307106	1258	42.04	8.60	4.78	23.36	11.62	5.52	1.16	83.65	33.13	5.48	6.95	53.25	64.25
MD 25-26ne	957	39.58	7.73	4.98	25.58	11.57	4.90	1.24	86.18	37.05	4.73	6.35	91.25	91.50
MD 25-27Y	1280	41.15	7.78	4.52	23.81	10.85	5.13	1.14	84.70	34.00	4.18	6.75	56.00	71.25
MD 25-87Y	1162	40.10	8.51	4.99	23.54	12.33	5.20	1.19	85.43	39.28	4.05	6.43	73.25	87.25
NC08AZ21	1030	39.03	7.16	4.17	22.82	10.74	5.62	1.15	83.78	31.45	4.55	7.38	49.75	63.25
NM08N1084	1234	38.40	7.01	4.23	23.16	10.91	4.84	1.16	84.65	36.70	4.13	6.83	66.75	79.50
NM08N1562	1241	40.50	7.79	4.28	22.30	11.27	5.46	1.15	83.75	33.28	4.43	7.13	52.75	64.50
NM08N1564	1335	40.43	7.79	4.10	21.35	11.08	5.61	1.14	83.30	33.33	4.28	7.40	46.50	60.75
PD 05069	1098	40.83	8.11	4.53	22.91	11.50	5.53	1.19	84.00	36.98	4.03	6.78	64.00	74.25
PD 05070	1153	41.01	7.86	4.52	23.58	10.96	5.35	1.15	83.73	35.38	3.63	7.05	53.50	68.00
PD 06001	867	38.23	7.11	4.41	23.85	11.27	5.20	1.15	82.33	34.25	3.63	7.83	52.75	59.25
SG 105	1307	40.81	8.18	4.12	20.57	11.65	5.75	1.13	83.63	32.53	4.80	6.85	43.50	61.25
Tamcot 73	1169	39.39	7.74	4.49	22.85	11.60	5.62	1.18	84.48	35.80	4.27	6.85	61.50	73.75
Mean	1134	41.02	7.81	4.32	22.76	10.95	5.38	1.15	83.87	34.18	4.25	7.02	54.97	67.85
LSD (.05)	330	1.53	0.70	0.42	2.53	0.71	0.20	0.03	1.13	1.84	0.49	0.52	11.27	8.70
CV(%)	20.10	2.65	6.35	6.95	7.90	4.59	2.69	1.75	0.96	3.82	8.20	5.28	14.57	9.11
R-Square	0.45	0.80	0.47	0.63	0.57	0.79	0.79	0.75	0.56	0.82	0.82	0.53	0.76	0.74
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)