

Table 15. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at WestSide, CA ¹. (Cooperator:Bob Hutmacher)

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	2020	44.78	8.73	5.77	29.59	10.60	4.85	1.18	82.35	27.48	6.50	7.85	59.25	54.00
AU3111	2199	45.42	8.08	5.86	32.93	9.61	4.96	1.14	82.40	27.95	6.45	7.85	45.50	54.75
AU3202	2152	44.17	8.26	5.53	29.61	10.38	5.10	1.15	82.95	27.73	6.10	7.63	45.00	52.25
AU3223	2277	45.56	8.59	5.89	31.29	10.06	5.10	1.13	82.80	27.05	8.00	7.85	38.00	42.00
Acala 1517-08	1960	39.29	7.70	6.75	35.09	11.67	4.75	1.21	83.83	33.78	6.18	7.23	75.00	79.00
Ark 0304-23	2378	43.69	8.12	6.14	33.06	10.32	4.88	1.14	82.70	27.55	5.85	7.40	45.25	49.25
Ark 0305-07	2078	43.84	8.12	6.49	35.04	10.28	4.56	1.19	82.50	29.00	5.73	7.83	68.00	61.50
Ark 0309-31	2098	41.85	8.79	7.04	33.62	12.03	4.47	1.20	83.88	31.45	6.03	7.35	75.50	74.75
Ark 0316-36	1973	45.54	8.33	6.15	33.76	9.83	4.69	1.16	83.38	30.00	7.65	7.20	60.00	64.25
Ark M222-07	1775	41.86	8.41	6.23	31.07	11.52	4.96	1.15	83.18	28.98	6.58	7.40	51.50	64.00
DP 393	2402	43.89	7.72	6.28	35.70	9.82	4.79	1.13	83.58	29.10	8.48	7.20	50.00	67.50
FM 958	2274	43.06	8.86	6.66	32.44	11.54	4.64	1.17	83.53	30.28	5.33	7.73	65.50	70.75
GA 2004143		46.10	8.06	5.69	32.58	9.29	4.81	1.17	83.78	29.33	5.48	7.35	61.25	66.75
LA06307025	2318	44.58	7.88	6.35	36.04	9.63	4.99	1.17	84.18	30.65	6.68	7.10	59.75	71.50
LA07307106	2247	44.06	8.63	6.24	31.81	10.80	4.69	1.18	83.43	29.30	7.83	7.33	65.00	69.50
MD 25-26ne	2440	42.14	7.70	6.14	33.72	10.39	4.55	1.25	84.38	31.88	6.58	6.88	88.25	80.00
MD 25-27Y	1907	43.19	8.11	6.12	32.68	10.44	4.40	1.16	83.55	30.20	5.90	7.30	63.75	70.75
MD 25-87Y	2290	40.71	8.56	6.55	31.15	12.30	4.51	1.22	84.75	33.58	5.88	6.85	82.50	83.50
NC08AZ21	1672	38.99	6.60	5.17	30.59	10.22	4.58	1.16	82.93	28.33	7.15	7.53	58.00	63.00
NM08N1084	2342	41.82	6.80	5.33	32.95	9.34	4.30	1.13	83.03	30.63	6.85	7.45	52.50	65.50
NM08N1562	2302	40.63	6.93	5.19	30.46	10.06	4.26	1.20	83.15	29.48	7.20	7.53	72.75	70.25
NM08N1564	2060	39.44	6.69	6.08	36.38	10.11	4.42	1.17	83.00	30.00	6.93	7.50	65.25	68.00
PD 05069	1939	42.62	7.46	6.28	35.87	9.90	4.64	1.18	83.75	31.55	6.55	7.13	68.00	72.25
PD 05070	2102	42.80	7.51	5.77	33.04	9.89	4.77	1.14	82.73	28.88	5.90	7.58	51.00	62.50
PD 06001	2246	39.80	7.33	5.53	30.23	10.96	4.71	1.16	82.55	29.05	6.03	7.45	58.50	62.75
SG 105	2458	41.47	8.25	6.08	30.61	11.43	5.04	1.15	83.90	29.13	7.15	7.13	51.50	68.25
Tamcot 73	2296	41.07	7.47	5.77	31.77	10.60	4.73	1.18	83.88	31.58	6.90	7.12	64.50	72.00
Mean	2162	42.68	7.91	6.04	32.71	10.48	4.71	1.17	83.33	29.77	6.59	7.40	60.78	65.94
LSD (.05)	353	1.45	0.84	0.70	4.31	1.10	0.34	0.04	1.15	1.65	0.58	0.55	17.21	15.22
CV(%)	11.58	2.42	7.53	8.22	9.37	7.46	5.07	2.68	0.98	3.93	6.27	5.24	20.11	16.40
R-Square	0.57	0.84	0.62	0.55	0.37	0.60	0.57	0.54	0.47	0.75	0.83	0.46	0.56	0.52
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 GA2004143 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)