

Table 17. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at WestSide, CA . (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	%	%		
AU90915	2637	41.90	8.34	5.97	30.00	11.41	5.17	1.17	83.70	32.15	5.58	7.48	62.50	71.50
LA08310066	2582	40.50	7.22	5.99	34.70	10.33	5.04	1.15	83.08	33.50	4.55	7.95	58.50	70.25
AU91411	2573	40.63	8.35	6.69	32.62	12.01	5.32	1.17	84.30	36.56	5.17	7.02	63.28	79.67
GA 2008083	2573	42.73	8.34	5.75	29.49	11.03	5.16	1.20	83.98	33.33	4.83	7.28	71.75	75.75
AU91215	2562	42.24	7.90	6.41	34.59	10.58	5.23	1.15	82.93	31.20	5.20	7.60	53.75	65.25
Ark 0409-17	2541	45.41	10.36	6.20	28.06	12.29	5.17	1.06	82.10	28.18	6.10	8.10	30.25	52.00
NM11Q1008	2510	41.19	7.03	5.79	33.95	9.91	5.02	1.13	82.38	29.43	4.55	8.28	49.50	62.00
MD 87	2500	41.13	8.86	6.60	30.62	12.38	5.08	1.19	84.23	35.55	4.43	7.08	72.75	82.00
PD06001	2492	40.41	7.79	6.06	31.49	11.26	4.80	1.18	82.55	31.75	4.53	7.83	67.75	67.25
GA 2004143	2483	45.54	8.40	5.51	29.86	9.77	5.04	1.18	82.25	32.35	4.58	7.58	64.00	65.00
Tamcot 73	2449	41.61	8.16	5.94	30.32	11.22	5.10	1.19	83.30	34.60	5.40	7.30	68.75	72.75
AU90810	2442	41.12	7.83	6.22	32.72	11.00	5.27	1.20	84.08	33.05	5.35	7.10	70.50	75.50
MD 10-5	2441	44.63	8.53	5.77	30.39	10.34	5.23	1.14	83.23	32.80	5.58	7.38	51.50	67.00
PD05074	2441	42.94	7.99	6.02	32.42	10.40	5.30	1.11	82.35	32.28	4.68	7.75	39.00	58.75
GA 2009100	2439	44.86	8.28	5.73	31.09	10.02	4.48	1.17	82.73	32.95	4.73	7.65	68.00	69.75
PD06078	2436	41.83	7.48	6.02	33.68	10.26	5.25	1.17	83.23	33.03	5.50	7.28	60.75	68.25
PD05064	2409	43.29	8.04	6.44	34.85	10.30	5.02	1.18	82.28	33.83	4.78	7.78	63.00	66.50
AU91111	2408	41.23	7.50	5.66	31.20	10.49	5.09	1.18	82.78	31.90	5.85	7.63	64.75	67.00
DP 393	2385	42.26	8.12	6.15	32.07	10.88	5.11	1.14	83.48	33.03	5.45	7.28	54.25	69.50
MD 26ne	2345	42.82	8.39	6.14	31.35	11.01	4.90	1.24	83.95	34.43	5.13	7.15	87.00	80.25
Ark 0409-16	2334	43.59	8.85	6.04	29.77	11.28	5.36	1.09	81.68	28.83	5.35	8.18	29.00	39.50
GA 2008057	2315	41.84	7.26	5.52	31.95	9.86	5.02	1.15	83.13	31.53	5.60	7.33	56.50	67.75
SG 105	2314	42.21	8.49	5.76	28.63	11.44	5.31	1.13	83.20	31.00	5.53	7.30	47.00	65.00
NC11AZ01	2307	43.60	8.15	5.88	31.54	10.30	5.00	1.15	82.58	32.93	4.18	7.85	55.25	66.00
FM 958	2282	44.34	9.48	6.72	31.39	11.74	5.13	1.13	82.88	31.20	4.18	7.48	49.75	64.75
Acala 1517-08	2246	40.39	8.06	6.50	32.67	11.74	5.07	1.17	83.13	34.28	4.68	7.48	63.75	73.50
NM11Q1157	2159	39.52	7.48	5.70	30.14	11.29	4.80	1.10	82.40	33.70	5.90	7.28	46.50	63.50
TAM 06WE-62-1	2132	40.62	9.01	7.77	34.96	13.03	4.83	1.19	84.10	36.68	5.35	6.98	75.25	84.50
PD05071	2092	39.06	6.92	5.94	33.75	10.57	4.76	1.12	82.43	31.18	5.08	7.60	48.50	62.25
Barbren 713	2069	38.78	7.44	6.40	33.55	11.56	4.73	1.11	80.70	30.30	4.68	8.48	44.25	54.00
Ark 0403-3	1996	41.13	7.50	6.06	33.12	10.56	5.13	1.15	83.33	33.28	5.08	7.43	57.75	70.75
Arkot 0407-4	1885	42.54	8.76	7.06	34.30	11.61	4.99	1.14	82.68	31.30	4.43	7.68	54.75	64.75
Arkot 0410-32	1831	41.55	8.43	5.93	29.21	11.66	5.50	1.17	83.65	32.55	5.55	7.15	55.75	68.75
Mean	2352	42.04	8.14	6.13	31.83	11.02	5.07	1.15	82.99	32.56	5.07	7.53	57.74	67.60
LSD (.05)	167	2.11	1.08	0.76	4.62	1.55	0.41	0.05	1.41	2.47	0.78	0.60	20.27	13.89
CV(%)	5.07	3.58	9.46	8.83	10.34	10.00	5.80	3.22	1.20	5.38	10.85	5.67	24.91	14.58
R-Square	0.81	0.64	0.54	0.51	0.33	0.41	0.41	0.57	0.47	0.62	0.56	0.51	0.50	0.51
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)