

Table 15. Least square means for lint yield, yield components, and fiber quality traits in the 2013 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	%	%		
LA09309116	2553	43.92	9.21	6.74	31.39	12.20	4.80	1.24	85.03	31.40	5.93	6.95	69.50	75.00
DP 393 ck	2413	40.64	7.62	5.89	31.54	11.00	5.10	1.16	83.78	31.50	5.63	7.38	35.75	60.75
LA10307140	2384	41.84	7.93	6.27	33.06	10.90	4.61	1.21	84.58	33.35	5.65	7.28	63.50	74.75
OA-33	2354	41.27	6.66	5.30	32.81	9.40	4.76	1.22	83.88	33.10	4.95	7.45	59.50	67.25
PX06520-42-2-1	2348	40.21	8.83	6.08	27.67	13.00	4.67	1.28	85.30	38.35	5.00	6.78	84.75	89.75
LA10307021	2344	43.32	8.71	6.32	31.52	11.30	4.46	1.20	83.78	32.25	3.80	7.48	57.50	67.25
AU51038	2264	42.84	7.64	6.20	34.60	10.10	4.56	1.25	83.30	33.50	4.60	7.25	72.50	69.25
LA10307108	2263	41.32	7.41	5.52	30.86	10.40	4.56	1.22	83.40	30.75	4.98	7.88	61.25	65.50
PD06078	2231	41.41	7.76	5.60	29.88	10.80	4.88	1.21	83.55	32.25	5.35	7.05	53.50	64.25
PX06520-42-2-3	2227	39.40	9.11	6.47	28.00	13.80	4.79	1.31	86.05	39.40	5.20	6.40	89.50	93.75
AU10090	2225	42.34	7.15	5.91	35.04	9.60	4.52	1.28	83.60	31.70	4.40	7.03	79.75	70.50
GA 2009100	2212	39.12	7.03	5.91	33.24	11.30	4.87	1.23	83.68	33.03	4.03	7.43	60.75	66.25
FM 958 ck	2211	41.33	8.85	7.83	36.57	12.40	4.94	1.19	83.28	31.78	3.60	7.58	46.00	60.75
GA 2009037	2203	42.03	7.76	5.80	31.66	10.60	4.61	1.20	83.40	30.75	5.20	7.50	53.00	63.75
MD 10-5	2197	43.52	7.28	5.49	32.82	9.30	4.79	1.18	83.68	31.88	5.53	7.10	46.50	63.75
GA 2008016	2183	44.54	8.20	5.48	29.66	10.10	4.72	1.23	83.18	31.60	3.85	7.50	59.75	63.75
MD 25-26ne	2183	40.46	7.77	6.69	34.76	11.30	4.51	1.27	85.05	33.03	4.73	6.95	81.75	78.75
MD-DC	2150	39.58	7.47	5.58	29.58	11.30	4.92	1.19	83.95	33.38	5.08	7.43	48.00	66.00
AU68036	2147	42.06	7.68	5.75	31.48	10.50	4.94	1.19	83.60	31.60	4.48	7.23	48.00	63.25
MD 10-6	2109	43.48	7.45	5.83	35.96	9.70	4.77	1.18	83.65	31.83	5.35	7.28	50.00	64.50
Ark 0506-47	2094	40.47	7.98	5.44	27.63	11.60	4.68	1.21	84.43	32.78	4.28	7.60	61.50	71.00
AU55052	2059	39.00	7.42	6.18	32.44	11.50	4.77	1.21	83.55	32.53	4.68	7.48	58.00	66.00
Ark 0502-37	2046	40.41	7.38	5.46	30.01	10.80	4.95	1.22	84.90	34.08	4.95	6.85	58.75	73.25
Ark 0517-54	2045	41.32	7.80	5.30	27.76	10.80	4.38	1.18	82.15	28.55	4.60	8.18	41.50	52.00
PD07092	2022	38.65	8.19	5.56	26.24	12.80	4.47	1.27	84.95	34.15	4.75	6.73	79.50	79.50
NM1302	2014	37.85	6.81	6.10	33.59	11.20	4.74	1.20	83.03	30.05	5.70	7.88	53.50	61.25
NM1301	1993	40.73	7.03	5.25	30.90	10.10	4.86	1.21	82.75	30.90	5.05	7.98	52.00	59.75
Acala 1517-99	1971	38.15	7.57	5.82	29.21	12.20	4.36	1.24	84.38	35.55	5.00	7.03	72.00	78.50
GA 2010098	1884	41.98	8.46	6.31	31.27	11.60	4.55	1.24	84.20	34.35	5.20	7.05	69.50	74.75
NM1303	1881	37.90	6.30	5.25	31.79	10.20	4.51	1.18	83.70	30.15	5.48	7.60	51.00	65.00
Ark 0504-4	1867	40.49	8.22	6.42	31.58	12.00	4.91	1.26	85.28	34.10	4.83	7.00	73.25	79.75
PD05069	1848	42.15	7.64	5.55	30.64	10.30	4.49	1.26	82.90	33.93	4.55	6.93	72.00	66.25
PD05064	1724	42.05	7.43	5.45	30.86	10.20	4.54	1.26	83.73	34.10	4.78	7.03	74.50	72.50
SG 105 ck	2284	39.35	7.35	5.32	28.38	11.20	4.97	1.19	84.65	30.28	5.35	7.17	49.25	68.75
Mean	2145	41.03	7.74	5.88	31.31	11.04	4.70	1.22	83.95	32.70	4.90	7.28	61.38	69.32
LSD (.05)	236	1.89	0.72	0.88	4.69	1.21	0.38	0.05	0.04	1.95	0.48	0.58	17.65	9.96
CV(%)	7.85	3.22	6.47	10.64	10.47	7.80	5.68	3.06	1.06	4.24	6.94	5.66	20.49	10.24
R-Square	0.69	0.70	0.74	0.56	0.44	0.69	0.44	0.58	0.58	0.77	0.79	0.60	0.62	0.68
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