

Table 14. Least square means for lint yield, yield components, and fiber quality traits in the 2014 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	%	%		
Ark 0614-49	1858	40.47	7.23	5.83	32.66	10.45	4.95	1.22	85.00	31.38	4.80	7.18	71.25	76.25
PX06520-42-2-1	1856	42.03	8.00	6.26	32.95	10.85	4.96	1.23	84.73	35.33	4.38	7.70	78.75	82.50
LA11309040	1757	43.62	7.42	4.74	28.05	9.30	5.00	1.15	83.08	30.60	4.75	8.43	47.00	61.00
AU91411	1735	38.89	6.93	5.68	31.91	10.75	4.57	1.18	83.75	32.98	4.48	7.73	65.50	69.50
DP 393 ck	1721	41.58	7.32	5.47	31.12	10.10	4.91	1.17	85.13	31.98	5.30	7.53	61.75	75.75
GA 2010074	1657	41.23	7.18	4.94	28.35	10.10	5.07	1.14	83.28	30.68	4.35	8.15	44.75	61.25
MS 0040-19 -4	1655	40.45	7.04	4.90	28.31	10.15	4.60	1.15	81.90	30.15	4.23	8.48	51.50	57.00
MS 0043-28 -1	1630	40.84	6.75	5.00	30.26	9.55	4.82	1.13	83.45	30.38	4.43	8.08	46.50	63.25
MS 0045-14 -5	1595	41.28	7.22	5.66	32.40	10.10	4.92	1.13	83.78	30.15	4.15	7.70	47.75	65.00
OA-185	1584	40.65	6.91	5.34	31.48	9.85	4.55	1.16	83.68	32.28	4.50	8.05	58.75	67.75
FM 958 ck	1563	41.78	7.80	5.55	29.75	10.70	4.72	1.16	84.05	31.00	3.50	8.00	60.25	69.75
Ark 0614-34	1548	39.65	7.85	6.15	31.45	11.75	5.04	1.21	85.15	30.58	5.25	7.38	69.75	76.50
SG 105 ck	1534	38.93	6.64	4.87	28.51	10.30	4.80	1.15	84.20	30.10	4.43	7.73	55.75	69.25
UA 222 ck	1523	41.08	7.02	5.21	30.44	9.85	4.37	1.17	83.38	30.05	5.55	8.25	64.00	67.50
GA 2009037	1516	41.42	7.03	5.07	29.89	9.75	4.79	1.16	82.83	30.70	4.00	8.35	52.00	60.75
LA11309005	1508	39.76	6.45	5.36	32.92	9.55	4.59	1.14	82.80	31.05	3.78	8.38	54.00	62.50
Ark 0615-38	1504	39.60	6.96	5.52	31.36	10.50	5.18	1.15	83.30	32.45	4.40	7.85	43.75	60.50
MD10-6	1467	41.77	6.76	5.10	31.82	9.15	4.54	1.13	83.33	31.45	4.25	8.00	51.50	64.50
OA-173	1444	39.38	6.43	5.33	32.86	9.70	4.64	1.21	83.98	32.38	4.25	7.88	72.25	72.00
GA 2009100	1416	38.79	6.80	5.56	31.71	10.55	5.06	1.20	84.38	32.95	3.45	7.73	64.25	71.25
AU51038	1400	41.82	7.38	5.59	32.04	10.10	4.32	1.19	82.75	32.60	4.00	8.38	65.75	64.50
AU52034	1365	40.77	7.07	5.27	30.44	10.05	4.79	1.21	84.48	35.20	4.55	7.40	74.50	80.50
DP 491 ck	1362	41.18	6.89	5.43	32.32	9.55	4.76	1.18	83.60	31.90	3.85	8.13	59.25	66.50
NM12Y1004	1356	47.96	9.60	5.11	25.51	10.15	4.71	1.14	83.30	29.95	4.05	8.20	52.25	64.00
LA11309062	1235	40.79	7.00	6.05	35.38	9.95	4.87	1.19	84.75	32.33	4.80	7.40	67.25	74.75
NM12Y1005	1225	45.01	8.31	4.64	25.19	9.70	4.61	1.08	83.05	29.93	4.10	8.30	36.25	50.50
PD 07066	1205	34.36	6.64	6.36	32.89	12.50	3.85	1.24	84.20	35.63	3.33	7.75	80.25	80.25
NM12Y1002	1199	39.05	6.14	4.66	29.67	9.45	4.49	1.17	83.90	32.10	5.30	8.25	65.75	71.00
PD 08039	1182	34.84	5.74	5.34	32.41	10.55	4.44	1.24	83.33	32.20	4.20	7.80	78.25	70.00
PD 07116	1026	38.23	6.25	5.47	33.43	9.95	4.34	1.20	83.80	33.28	3.83	7.85	69.00	71.00
Mean	1488	40.57	7.09	5.38	30.92	10.17	4.71	1.17	83.74	31.79	4.34	7.93	60.32	68.23
LSD (.05)	177	1.89	1.02	0.76	3.44	1.20	0.41	0.04	1.40	1.61	0.45	0.66	15.34	11.36
CV(%)	8.49	3.31	10.23	10.06	7.91	8.38	6.13	2.43	1.19	3.60	7.43	5.96	18.09	11.84
R-Square	0.79	0.83	0.58	0.49	0.54	0.48	0.63	0.69	0.47	0.72	0.79	0.43	0.62	0.53
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