

Table 7. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Las Cruces, NM. (Cooperator: Jinfa Zhang)

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	%	%		
OA-33	2031	45.35	7.51	5.04	30.46	8.90	5.32	1.22	84.80	31.83	5.93	7.40	61.75	67.75
AU55052	1905	44.28	7.28	5.15	31.52	9.00	5.01	1.18	84.23	30.65	5.73	7.48	55.25	64.25
AU51038	1877	46.49	7.49	5.06	31.42	8.30	4.70	1.19	83.98	32.25	5.60	7.70	61.00	65.50
NM1301	1822	44.54	6.88	4.89	31.86	8.70	5.05	1.17	83.30	30.35	6.20	8.33	48.50	58.00
Ark 0517-54	1819	43.79	7.82	5.18	29.03	9.80	5.05	1.13	83.80	27.70	5.78	7.78	36.75	45.50
LA10307108	1762	44.58	7.56	5.13	30.31	8.80	5.15	1.19	84.73	30.20	6.10	7.70	55.25	66.50
GA 2010098	1745	46.36	7.55	5.15	31.65	8.40	4.68	1.18	84.40	31.98	5.25	7.43	60.50	67.50
MD 10-6	1738	46.43	7.46	5.28	32.83	8.20	4.92	1.16	84.38	32.10	5.93	7.15	51.00	64.50
SG 105 ck	1715	43.33	8.09	5.29	28.29	10.20	5.38	1.16	84.95	29.85	5.98	7.43	44.25	65.00
DP 393 ck	1697	44.17	7.65	5.42	31.31	9.40	5.19	1.16	85.18	31.13	7.00	7.08	48.00	67.75
LA10307140	1697	45.23	8.42	5.58	29.96	9.90	4.92	1.19	85.48	32.83	6.80	7.13	61.50	73.00
GA 2008016	1666	42.17	7.47	5.43	30.72	9.90	5.36	1.19	84.20	32.50	5.18	7.63	50.75	62.25
Ark 0504-4	1654	44.71	7.85	5.18	29.48	9.40	5.28	1.19	84.38	32.23	6.20	7.38	52.25	63.75
Ark 0502-37	1643	44.93	7.32	5.32	32.67	8.60	5.18	1.16	84.45	31.98	6.55	7.33	47.25	63.25
MD 10-5	1636	46.68	7.97	5.22	30.80	8.30	5.00	1.16	83.83	30.78	6.20	7.40	47.75	60.75
LA10307021	1631	44.13	8.56	5.56	28.74	10.20	4.44	1.21	84.98	31.98	4.43	7.35	72.00	73.25
LA09309116	1580	44.28	8.06	5.62	30.85	9.70	5.06	1.20	86.03	32.10	7.50	6.98	65.50	76.00
GA 2009037	1563	45.40	8.06	5.47	31.00	9.60	5.28	1.16	84.40	30.90	6.08	7.50	43.25	61.75
PX06520-42-2-3	1558	41.61	8.95	6.07	28.22	12.30	5.30	1.28	86.85	38.43	6.28	6.55	84.50	91.25
AU68036	1548	45.24	7.63	5.32	31.59	9.00	5.09	1.18	84.88	31.50	5.30	7.23	55.00	67.75
PD06078	1535	44.19	7.52	5.03	29.57	9.20	5.29	1.18	84.33	33.10	5.98	6.95	48.50	63.00
MD 25-26ne	1523	43.82	7.75	5.61	31.77	9.80	4.96	1.25	85.50	33.48	5.93	7.20	78.25	77.00
FM 958 ck	1520	42.85	7.76	5.72	31.59	9.90	5.03	1.17	83.73	31.00	4.55	8.10	48.50	60.25
PD05064	1496	43.56	7.45	5.56	32.53	9.10	5.20	1.23	84.68	33.83	5.60	7.30	66.75	71.00
NM1302	1492	41.30	6.85	5.02	30.29	9.40	5.00	1.17	84.55	29.43	6.48	7.73	49.50	56.25
NM1303	1485	41.53	6.69	4.99	31.03	9.00	4.96	1.16	83.95	30.13	6.45	7.65	49.75	61.75
PD07092	1470	43.38	8.01	5.46	29.57	10.30	4.81	1.24	85.73	35.08	6.05	6.83	80.25	82.75
PX06520-42-2-1	1464	42.53	7.97	5.60	29.89	10.30	5.29	1.22	85.10	35.70	6.10	7.38	65.50	77.25
MD-DC	1424	42.92	7.56	5.25	29.78	9.70	5.39	1.18	84.70	30.80	6.13	6.95	48.25	64.25
Ark 0506-47	1384	43.93	7.49	5.20	30.55	9.10	5.28	1.18	84.95	31.48	5.50	7.23	52.00	67.00
Acala 1517-99	1356	40.16	7.37	5.59	30.47	10.40	4.75	1.23	84.33	33.55	5.43	7.10	74.00	69.75
GA 2009100	1344	42.60	7.59	5.59	31.44	9.80	5.46	1.17	84.40	32.10	5.15	7.63	44.00	61.50
PD05069	1339	41.81	7.56	5.44	30.10	9.90	4.93	1.25	83.38	34.18	5.83	7.35	71.25	65.75
AU10090	1303	45.05	7.56	5.43	32.34	8.90	4.86	1.22	84.63	31.40	5.13	7.43	70.25	70.00
Mean	1601	43.92	7.67	5.35	30.70	9.45	5.07	1.19	84.62	32.01	5.89	7.37	57.32	66.85
LSD (.05)	377	2.18	0.67	0.34	2.44	0.56	0.20	0.03	1.03	1.32	0.39	0.54	12.16	9.60
CV(%)	16.77	3.54	6.27	4.52	5.66	4.26	2.77	1.96	0.87	3.07	4.77	5.22	15.12	10.23
R-Square	0.38	0.59	0.55	0.62	0.40	0.85	0.79	0.73	0.58	0.84	0.88	0.54	0.72	0.66
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