

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Maricopa, AZ. (Cooperator: Andy French)

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	1700	42.33	7.08	4.41	26.63	9.57	5.41	1.16	82.30	31.50	5.10	8.03	48.33	61.67
LA10307140	1655	42.51	7.18	4.63	27.60	9.59	5.24	1.17	82.13	32.77	5.50	8.07	52.33	62.00
GA 2008016	1647	42.18	6.78	4.29	26.70	9.08	5.20	1.19	82.50	31.17	3.70	7.97	60.00	65.33
NM1301	1639	41.24	7.06	4.47	26.20	9.83	5.40	1.16	82.07	31.03	5.17	8.47	46.67	60.00
AU51038	1623	43.25	6.57	4.54	29.87	8.41	5.05	1.16	80.93	30.50	4.90	8.30	48.00	55.67
PD05064	1622	40.82	7.05	4.82	27.92	9.97	5.48	1.18	82.57	32.20	4.77	7.97	53.67	63.67
AU10090	1533	42.84	6.67	4.54	29.15	8.73	5.23	1.18	83.07	30.37	4.37	7.93	57.67	68.00
AU68036	1518	41.87	7.03	4.42	26.50	9.59	5.29	1.19	83.20	31.30	4.57	7.57	60.67	69.33
Ark 0506-47	1518	38.75	7.00	4.12	22.83	10.92	5.33	1.22	83.47	32.67	4.37	7.50	66.67	71.67
DP 393 ck	1518	40.53	6.68	4.31	26.13	9.64	5.39	1.12	83.27	31.27	5.97	7.67	40.33	65.00
GA 2009100	1515	38.19	6.84	4.87	27.26	10.87	5.68	1.19	82.03	32.17	3.83	8.17	51.00	59.67
GA 2009037	1511	40.55	7.17	4.46	25.26	10.23	5.39	1.15	82.40	30.40	4.90	8.07	45.00	61.33
GA 2010098	1484	42.54	7.57	4.73	26.67	10.04	5.25	1.18	82.33	31.80	4.73	7.93	54.67	63.33
MD-DC	1478	39.15	6.82	4.57	26.21	10.35	5.58	1.18	83.37	30.63	5.07	7.70	53.00	68.00
PX06520-42-2-3	1474	40.15	7.92	4.81	24.63	11.64	5.44	1.25	83.67	35.67	5.17	7.03	75.67	81.33
PD05069	1436	40.68	6.65	4.60	28.28	9.37	5.35	1.19	81.30	32.50	4.83	8.53	55.00	57.33
LA10307021	1433	42.78	7.97	4.10	22.12	10.39	4.77	1.12	82.37	29.23	3.53	8.10	46.00	63.33
Ark 0517-54	1410	39.73	7.00	4.20	23.86	10.41	5.09	1.13	82.67	28.77	4.70	7.93	42.33	55.00
LA09309116	1387	42.19	7.38	4.47	25.47	9.87	5.37	1.17	83.33	32.20	5.80	7.30	55.33	68.67
Ark 0502-37	1373	40.70	7.16	4.51	25.63	10.31	5.59	1.18	82.67	32.27	4.83	7.87	50.67	63.67
AU55052	1354	37.36	7.33	4.27	21.95	12.00	5.26	1.20	82.57	32.43	4.93	7.83	62.00	66.00
Acala 1517-99	1352	37.55	7.25	4.50	23.39	11.75	4.74	1.21	83.00	33.30	4.60	7.53	73.00	74.33
SG 105 ck	1351	40.04	7.43	4.32	23.28	10.97	5.54	1.15	83.43	29.13	5.57	7.37	45.00	66.67
PX06520-42-2-1	1345	40.74	7.61	4.55	24.57	10.84	5.50	1.21	83.03	35.00	4.87	7.93	62.67	74.00
LA10307108	1329	41.84	7.22	4.12	23.92	9.93	5.13	1.17	83.10	31.17	4.93	8.03	57.33	68.00
PD06078	1314	40.14	6.76	4.10	24.49	9.91	5.27	1.18	82.73	31.60	5.03	7.53	56.33	66.00
MD 25-26ne	1305	39.63	7.58	4.84	25.27	11.25	4.93	1.24	84.63	32.93	4.87	7.23	83.33	81.00
NM1303	1294	39.51	6.41	4.26	26.40	9.64	5.22	1.14	83.10	30.03	5.40	7.70	47.67	66.33
NM1302	1263	38.52	6.99	4.95	27.32	10.93	5.39	1.19	82.50	31.17	5.20	8.03	56.67	64.33
PD07092	1247	39.27	7.54	4.33	22.51	11.51	4.97	1.20	84.50	34.07	4.83	6.97	72.67	80.33
Ark 0504-4	1216	41.59	8.09	4.44	22.82	11.15	5.22	1.21	82.90	32.10	4.97	7.47	64.00	68.67
FM 958 ck	1208	39.56	6.69	4.59	27.09	10.01	5.37	1.13	82.10	30.77	3.43	8.20	39.33	60.00
MD 10-5	1202	41.66	7.29	4.29	24.51	10.04	5.17	1.18	82.53	32.83	4.93	7.30	58.33	65.67
MD 10-6	1176	42.56	7.12	4.26	25.47	9.47	5.17	1.12	83.00	31.90	5.30	7.73	42.67	64.67
Mean	1424	40.68	7.14	4.46	25.53	10.24	5.28	1.18	82.79	31.73	4.84	7.79	55.41	66.18
LSD (.05)	245	1.98	0.76	0.37	3.40	1.36	0.26	0.06	1.51	1.50	0.41	0.71	19.17	12.56
CV(%)	10.56	2.99	6.56	5.05	8.16	8.14	2.98	2.97	1.12	2.90	5.17	5.57	21.22	11.64
R-Square	0.67	0.72	0.54	0.69	0.60	0.62	0.74	0.61	0.49	0.80	0.89	0.54	0.59	0.52
Reps	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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