

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Tallassee, AL. (Cooperator: David Weaver)

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	%	%		
AU51038	1518	43.98	6.95	5.22	33.11	8.76	4.48	1.21	83.35	31.60	4.70	7.50	70.25	65.75
LA10307108	1478	43.73	7.32	5.16	30.79	9.35	5.09	1.14	83.73	30.05	5.20	7.33	45.25	61.50
AU10090	1477	44.29	7.29	5.22	31.72	9.12	4.82	1.20	84.68	30.70	4.85	6.95	68.00	72.00
LA10307140	1464	44.07	8.31	5.75	30.50	10.48	5.01	1.18	86.18	32.85	5.83	6.48	64.00	78.50
Ark 0502-37	1453	44.65	7.26	5.09	31.52	8.93	5.36	1.14	83.83	31.80	5.38	7.18	39.75	60.00
MD 10-6	1451	46.41	8.02	5.17	29.97	9.17	4.88	1.12	82.73	32.40	5.58	7.30	38.00	55.25
GA 2008016	1397	41.44	7.45	5.41	30.19	10.44	5.27	1.17	84.65	32.00	4.35	7.15	51.50	67.25
LA09309116	1395	43.89	8.51	5.77	29.79	10.80	4.99	1.20	85.55	31.58	6.05	6.80	69.00	76.50
AU68036	1395	43.54	7.27	5.13	30.79	9.44	5.22	1.18	83.95	32.60	4.90	7.00	54.25	64.00
GA 2009100	1385	40.83	7.47	6.07	33.20	10.76	5.59	1.17	83.93	32.10	4.25	7.48	45.00	60.75
LA10307021	1377	43.17	8.01	5.73	30.96	10.46	4.56	1.18	84.03	31.68	3.85	7.30	64.50	68.50
MD 10-5	1369	46.08	8.10	5.60	31.84	9.39	4.96	1.14	82.88	31.68	5.58	7.18	45.00	57.25
GA 2010098	1356	44.48	7.54	5.17	30.50	9.35	4.47	1.22	84.33	31.98	4.53	7.05	76.50	72.50
Ark 0517-54	1348	44.06	7.71	5.22	29.85	9.72	4.98	1.12	82.88	28.25	4.98	7.88	36.75	47.50
MD-DC	1347	42.14	7.56	5.36	29.87	10.32	5.02	1.15	84.40	32.38	5.43	6.90	49.75	66.00
Ark 0504-4	1343	43.79	8.06	5.13	28.01	10.28	5.23	1.16	84.55	31.95	5.20	6.83	51.00	66.50
FM 958 ck	1336	42.88	8.04	5.82	31.10	10.63	5.06	1.14	83.23	30.28	4.13	7.65	42.75	58.25
OA-33	1326	43.90	7.58	5.27	30.64	9.60	5.37	1.17	84.28	31.63	5.18	7.28	50.00	64.25
AU55052	1308	40.12	6.83	5.44	31.96	10.13	4.87	1.18	84.25	31.50	5.20	6.95	61.25	68.00
GA 2009037	1303	42.78	7.78	5.40	29.70	10.33	5.20	1.14	84.05	30.08	5.43	7.20	44.75	62.75
Ark 0506-47	1279	41.98	7.58	5.12	28.36	10.40	5.26	1.19	85.18	33.08	4.78	6.85	60.75	72.75
DP 393 ck	1270	42.87	7.76	5.28	29.19	10.25	5.33	1.13	84.15	30.60	6.58	6.88	37.50	61.25
PD05064	1257	43.36	7.37	5.20	30.72	9.56	5.00	1.20	83.50	33.75	4.98	7.30	62.50	66.50
PD07092	1249	40.88	7.56	5.52	29.88	10.90	4.73	1.23	85.25	34.40	5.15	6.58	80.50	81.00
PD06078	1239	42.59	7.57	5.30	29.89	10.16	5.11	1.18	84.40	32.13	5.45	6.63	57.50	67.25
SG 105 ck	1203	43.05	8.01	5.06	27.23	10.54	5.31	1.13	84.68	29.93	5.73	6.90	40.00	64.75
NM1303	1194	41.05	7.28	5.10	28.78	10.41	5.21	1.18	84.35	31.43	6.00	6.98	55.25	66.50
NM1301	1194	43.43	7.20	5.07	30.62	9.31	5.28	1.14	81.78	30.43	5.20	8.20	36.00	49.50
PX06520-42-2-3	1171	40.82	8.26	5.66	28.16	11.93	5.03	1.26	86.18	36.58	5.78	6.43	87.00	92.50
PX06520-42-2-1	1168	42.29	7.95	5.63	29.96	10.77	5.00	1.25	85.43	34.75	5.40	6.68	82.25	82.50
NM1302	1142	41.24	7.22	5.24	29.87	10.24	5.14	1.17	84.13	30.55	5.88	6.95	53.50	65.00
PD05069	1120	42.62	7.54	5.21	29.62	10.07	4.75	1.27	83.65	33.53	4.98	7.03	85.75	71.75
MD 25-26ne	1097	41.96	7.52	5.73	32.01	10.34	4.79	1.25	85.78	34.28	5.28	6.65	86.00	83.50
Acala 1517-99	894	40.96	7.50	5.09	27.83	10.73	4.67	1.21	84.55	32.58	4.90	6.83	73.25	73.25
Mean	1303	42.92	7.63	5.36	30.24	10.09	5.03	1.18	84.25	31.97	5.19	7.06	57.79	67.38
LSD (.05)	232	1.32	0.59	0.40	2.61	0.82	0.28	0.03	1.18	1.49	0.37	0.51	13.50	9.85
CV(%)	12.71	2.19	5.51	5.26	6.16	5.80	4.02	2.02	0.99	3.32	5.01	5.16	16.65	10.42
R-Square	0.59	0.77	0.56	0.58	0.49	0.65	0.71	0.80	0.64	0.76	0.87	0.61	0.78	0.71
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