

Table 6. Least square means for lint yield¹, yield components, and fiber quality traits in the 2013 RBTN trial conducted at Keiser, AR. (Cooperator: Fred Bourland)

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	%	%		
MD 10-5	718	40.72	6.50	4.24	26.62	9.11	5.09	1.14	84.20	35.78	5.68	7.05	48.00	66.00
PD06078	604	38.41	6.51	3.98	23.45	10.08	4.97	1.16	84.55	36.18	5.78	6.78	54.00	69.75
GA 2010098	550	40.26	6.82	3.93	23.37	9.68	4.91	1.17	83.50	34.75	5.18	7.38	57.50	63.50
LA10307021	516	40.24	7.76	4.65	24.10	11.25	4.68	1.17	85.10	37.18	4.73	6.88	67.00	78.25
AU51038	507	39.78	6.20	4.25	27.41	8.92	4.51	1.17	83.60	35.63	5.10	7.55	61.25	66.50
LA10307140	492	40.93	6.86	3.52	20.97	9.53	4.93	1.12	84.45	36.60	6.45	7.18	45.00	68.25
AU10090	482	39.85	6.58	3.81	23.20	9.71	4.88	1.22	84.75	34.20	4.83	7.08	74.25	72.50
PX06520-42-2-3	461	38.87	7.31	4.61	24.48	11.14	5.12	1.24	85.68	43.60	6.23	7.03	79.75	87.00
MD 25-26ne	452	38.45	6.11	3.82	24.16	9.41	4.61	1.21	86.25	38.00	5.95	6.90	81.50	87.75
NM1301	451	38.45	5.66	3.61	24.55	8.79	5.02	1.13	83.25	34.80	6.35	7.95	43.50	58.75
LA09309116	424	40.14	6.93	3.88	22.60	10.00	4.92	1.19	85.40	35.63	7.35	6.80	68.00	76.75
Ark 0502-37	413	38.58	6.13	4.28	26.96	9.35	4.80	1.15	83.68	34.70	5.78	7.58	54.25	63.75
MD 10-6	412	41.53	6.79	3.99	24.45	9.16	4.87	1.12	83.80	35.48	6.25	6.88	44.00	63.25
LA10307108	408	39.09	6.17	4.04	25.61	9.29	4.73	1.16	83.98	34.10	5.98	7.40	57.25	65.75
PD05069	398	39.43	6.60	4.51	26.97	9.76	5.04	1.18	84.45	37.13	5.68	7.03	62.25	72.00
FM 958 ck	398	40.87	7.35	4.84	26.92	10.25	5.11	1.12	83.90	34.08	4.80	7.83	40.50	60.50
Ark 0504-4	394	40.05	6.94	3.10	17.82	10.09	5.18	1.20	84.88	35.53	5.85	7.13	63.75	71.75
OA-33	394	39.92	5.86	3.32	22.55	8.51	4.74	1.16	84.55	33.98	5.60	7.30	61.25	70.25
MD-DC	385	38.35	5.91	4.30	27.98	9.27	4.98	1.15	84.30	35.23	6.08	7.13	53.25	66.75
AU55052	379	36.78	6.04	3.92	23.81	10.06	4.99	1.15	84.35	35.15	5.95	7.08	53.00	67.25
GA 2008016	378	40.80	6.18	3.99	26.37	8.54	4.70	1.16	84.78	36.03	4.98	7.20	61.50	73.75
SG 105 ck	364	39.55	6.57	3.76	22.67	9.56	5.24	1.12	83.95	33.43	5.93	7.23	39.00	59.75
GA 2009037	343	39.48	6.30	4.26	26.86	9.36	4.88	1.16	85.23	35.00	6.05	6.88	59.00	73.50
GA 2009100	340	37.48	5.66	4.24	28.07	9.12	5.03	1.17	84.50	36.68	4.83	7.33	58.00	71.00
NM1302	339	35.70	5.43	3.89	25.65	9.42	4.27	1.18	84.90	35.53	6.30	7.28	71.00	75.75
AU68036	334	39.87	6.76	4.41	26.05	9.85	5.17	1.15	84.78	35.53	5.40	7.03	49.75	68.75
Acala 1517-99	332	36.69	6.29	4.34	25.38	10.51	4.54	1.23	85.15	38.58	5.33	6.80	83.00	83.75
PD05064	330	39.44	6.09	3.85	24.93	8.99	4.66	1.18	83.33	36.98	5.68	7.30	64.00	67.50
Ark 0517-54	328	40.38	6.36	4.00	25.43	9.09	4.63	1.15	84.68	30.85	5.63	7.40	58.75	69.25
Ark 0506-47	300	39.42	6.78	4.00	23.31	10.08	5.24	1.18	83.55	34.70	4.73	7.73	52.75	60.75
PX06520-42-2-1	298	39.24	7.24	3.99	21.59	10.88	4.89	1.22	85.15	41.73	6.38	7.38	76.50	83.50
NM1303	289	35.30	5.62	3.41	21.44	9.88	4.36	1.20	84.68	34.63	6.30	7.10	74.25	74.25
PD07092	284	36.63	6.58	4.19	23.33	10.87	4.63	1.21	85.18	39.85	6.45	6.68	81.25	85.25
DP 393 ck	270	39.58	6.29	4.19	26.54	9.22	5.16	1.12	84.38	34.03	6.80	7.30	41.25	63.25
Mean	405	39.13	6.45	4.03	24.58	9.67	4.87	1.17	84.49	35.92	5.77	7.19	59.98	70.77
LSD (.05)	-	1.55	0.51	0.68	4.24	0.65	0.36	0.03	1.23	1.84	0.49	0.56	13.13	9.13
CV(%)	36.05	2.83	5.62	11.93	12.29	4.82	5.23	2.07	1.04	3.66	6.10	5.54	15.60	9.20
R-Square	0.38	0.72	0.75	0.52	0.52	0.75	0.57	0.73	0.48	0.82	0.82	0.47	0.72	0.68
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

¹LSD value for lint yield not reported due to poor growing conditions and excessive variability.

[†] 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