Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2012 RBTN trial conducted at Lubbock, TX [1]. (Cooperator: Jane Dever)

Cultivar	Lint Yield lbs/a	Lint Percent %	Lint Index grams	Boll Size grams	Seed per Boll #	Seed Index grams	MIC mic	UHM inches	UI %	STRN g/tex	ELO %	SFC %	QS1†	QS2†
NC11AZ01	1235	38.46	6.59	5.84	34.08	10.03	4.93	1.16	81.85	32.78	4.25	8.45	63.25	66.25
PD06001	1194	36.23	6.20	5.48	32.08	10.45	4.86	1.13	81.20	30.08	4.80	8.58	52.50	60.50
AU90915	1176	38.79	6.91	5.59	31.40	10.43	5.29	1.14	82.28	31.03	6.38	8.08	52.50	65.00
MD 10-5	1155	39.19	6.31	5.63	34.97	9.30	4.77	1.15	82.00	33.20	5.55	7.93	62.00	67.25
NM11Q1008	1130	36.07	5.48	4.97	32.77	9.30	4.92	1.11	81.03	29.40	5.23	9.08	44.50	57.75
DP 393	1094	38.09	6.84	5.95	33.14	10.63	4.95	1.14	82.60	31.40	6.80	7.78	58.00	68.75
Tamcot 73	1068	36.23	6.20	5.59	32.67	10.48	4.76	1.16	82.78	33.90	5.68	7.80	69.00	74.00
Acala 1517-08	1067	35.37	6.49	5.50	29.98	11.35	4.90	1.19	82.53	35.40	5.30	7.85	74.00	77.50
PD05071	1063	35.28	6.68	6.16	32.48	11.80	4.89	1.14	82.70	31.78	5.00	7.60	60.75	70.50
LA08310066	1058	35.96	6.09	5.37	31.69	10.25	5.17	1.10	80.90	30.38	5.63	8.70	37.50	54.75
MD 26ne	1045	36.94	6.86	6.04	32.54	11.25	4.87	1.22	83.90	34.03	5.30	7.40	85.25	82.50
Ark 0409-17	1025	38.33	7.21	5.98	31.81	10.80	5.37	1.08	82.23	28.40	6.30	8.08	34.25	51.25
FM 958	1005	36.25	6.48	5.59	31.42	10.70	5.15	1.14	82.98	30.50	5.90	8.00	56.00	69.75
Arkot 0407-4	977	38.34	7.41	6.46	33.45	11.25	5.25	1.11	82.60	31.25	4.65	8.10	45.50	65.50
Ark 0409-16	974	37.65	7.16	5.80	30.54	11.23	5.09	1.08	81.20	27.85	5.55	8.88	30.00	36.00
AU90810	974	34.73	6.27	5.72	31.69	11.30	4.82	1.18	83.13	30.73	5.20	7.93	74.75	75.75
MD 87	961	37.25	7.42	6.17	30.96	11.85	5.04	1.16	83.20	33.95	4.75	7.68	64.50	75.75
TAM 06WE-62-1	952	34.67	7.25	7.25	34.67	12.90	4.81	1.21	84.20	38.45	5.73	7.28	87.00	93.50
GA 2004143	951	40.31	6.64	5.02	30.46	9.45	4.84	1.16	81.83	31.75	4.80	8.18	63.00	66.25
PD05064	940	36.96	6.41	5.80	33.48	10.35	5.07	1.16	81.65	33.15	5.35	8.35	58.00	63.50
PD05074	934	37.04	6.65	5.49	30.61	10.65	5.01	1.15	82.13	33.03	5.28	8.08	58.75	66.50
NM11Q1157	898	34.44	5.98	5.09	29.28	10.70	4.73	1.13	81.53	33.18	6.13	8.23	56.25	63.75
Barbren 713	867	34.06	6.29	5.57	30.19	11.73	4.94	1.08	80.85	30.83	5.18	8.40	37.25	55.25
Arkot 0410-32	848	35.41	6.52	5.46	29.71	11.33	5.37	1.13	83.93	31.43	5.75	7.50	53.25	73.75
SG 105	846	36.54	6.92	6.11	32.27	11.43	4.85	1.15	81.95	32.68	4.45	8.18	61.25	66.50
AU91111	842	37.58	6.39	5.30	31.21	10.38	4.95	1.16	81.83	30.30	5.75	8.40	61.50	65.50
AU91411	781	35.67	6.70	5.83	30.99	11.50	4.96	1.18	82.30	33.53	5.73	7.83	67.75	69.50
PD06078	760	37.39	6.56	5.43	30.95	10.50	5.14	1.17	82.98	32.55	5.63	7.43	65.50	71.75
AU91215	722	36.17	6.23	5.40	31.37	10.43	5.12	1.12	81.28	29.45	5.73	8.53	46.75	58.75
GA 2008057	718	36.28	6.16	4.95	29.16	10.45	4.77	1.15	82.43	32.68	6.20	7.75	65.00	70.00
Ark 0403-3	652	36.01	5.75	4.70	29.37	9.73	5.29	1.14	82.43	32.45	5.35	8.08	52.00	65.25
GA 2008083	.	37.46	6.45	5.27	30.67	10.20	5.24	1.19	83.25	33.25	5.58	7.45	69.00	74.00
GA 2009100	.	38.97	6.70	5.64	32.72	9.83	4.76	1.16	81.93	32.38	4.98	8.13	64.75	67.25
Mean	965	36.79	6.55	5.64	31.66	10.72	4.99	1.15	82.29	32.03	5.45	8.05	58.52	66.96
LSD (.05)	288	2.10	0.57	0.45	2.01	0.72	0.17	0.03	0.87	1.19	0.35	0.44	10.99	10.67
CV(%)	18.41	4.06	6.20	5.72	4.51	4.78	2.47	1.82	0.76	2.56	4.53	3.92	13.37	11.35
R-Square	0.55	0.58	0.63	0.77	0.65	0.77	0.78	0.79	0.74	89.00	0.88	0.74	0.80	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).

[1]Stressful conditions during emergence resulted in failed stands for GA2008083 and GA2009100 (all four reps); PD05074 (three reps); NM11Q1008, GA 2008057, and Ark 0409-16 (two reps).

† 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