

Table 8. Least square means for lint yield, yield components, and fiber quality traits in the 2015 RBTN trial conducted at Lubbock, TX. (Cooperator: Jane Dever)

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	%	%	%	%
GA 2011124	1314	40.99	6.44	4.46	28.43	8.38	4.33	1.13	81.48	29.60	6.93	8.30	58.00	68.75
UA 222 CK	1255	38.91	7.13	5.46	29.79	10.35	3.72	1.18	81.20	30.63	7.87	8.80	66.50	67.75
GA 2010102	1239	38.98	6.91	5.03	28.36	10.35	4.24	1.18	81.60	33.38	6.10	8.53	73.75	73.50
DP 491 CK	1195	39.97	6.75	5.49	32.52	9.33	3.98	1.16	80.63	32.43	6.33	9.28	64.25	65.25
DP 393 CK	1182	39.77	6.90	5.42	31.26	9.78	4.15	1.14	81.93	30.68	8.05	8.45	60.25	71.25
LA12306010	1181	39.11	7.11	5.44	29.95	10.38	3.94	1.21	81.78	33.35	6.30	8.45	82.00	75.50
Ark 0707-33	1166	39.39	7.85	5.93	29.73	11.18	4.10	1.13	81.95	30.80	8.15	8.35	61.00	71.75
Ark 0711-2	1160	39.25	6.84	5.17	29.66	9.78	4.43	1.17	81.63	32.60	5.70	8.55	68.50	71.00
GA 2011004	1153	42.95	7.08	4.64	28.22	8.38	4.32	1.14	81.05	30.45	7.05	8.55	60.75	66.75
MS 0045-14 -5	1126	37.63	6.58	5.53	31.60	10.15	4.21	1.12	81.65	31.08	6.20	8.65	57.25	69.75
Ark 0705-46	1125	39.52	7.27	5.61	30.46	10.38	4.47	1.11	81.03	30.23	7.08	8.65	50.50	64.50
LA12306017	1120	38.91	6.91	4.95	27.87	10.05	4.20	1.17	81.48	32.70	6.65	8.78	71.00	71.50
MS 0043-28 -1	1108	39.90	6.81	4.99	29.22	9.60	4.65	1.09	81.00	29.23	7.00	8.88	41.75	62.00
SG 105 CK	1105	39.19	7.05	4.96	27.70	10.35	4.30	1.13	82.18	29.68	6.98	8.55	60.25	73.00
MS 0045-14 -8	1083	37.92	6.69	5.76	32.66	10.18	4.09	1.15	82.20	32.05	6.63	8.15	66.75	74.50
Ark 0701-17	1076	39.59	7.64	6.50	33.77	10.95	4.10	1.14	81.38	30.78	6.60	9.10	60.75	68.50
LA12306028	1067	36.83	6.86	5.46	29.33	10.98	4.10	1.20	82.30	35.18	6.50	8.23	81.75	83.25
PD 07092	1027	37.62	6.57	4.91	28.15	10.15	3.80	1.22	82.95	34.78	6.48	7.93	84.75	85.00
Ark 0712-9	1021	39.60	6.72	5.36	31.56	9.68	4.34	1.12	80.23	28.53	7.25	9.88	49.00	59.25
FM 958 CK	1021	38.82	6.57	5.52	32.81	9.45	4.04	1.13	81.03	31.55	5.65	9.18	55.00	65.50
MS 0042-3 -7	1018	37.12	6.44	5.44	31.35	10.23	3.63	1.16	81.33	31.98	6.90	8.93	60.25	66.75
PD 07040	1017	37.91	6.49	5.35	31.25	9.90	4.21	1.15	81.30	31.20	6.70	8.60	60.50	68.00
NM 13W3007	1003	37.05	6.58	5.85	32.98	10.53	4.07	1.12	80.58	32.15	6.65	9.35	54.50	63.25
Acala 1517-08	926	34.42	6.00	4.69	26.87	10.40	4.02	1.19	81.65	34.58	6.15	8.15	76.25	77.00
NM 13P1088	892	37.33	6.69	5.04	28.03	10.70	4.07	1.15	82.13	33.78	7.38	8.10	67.00	75.00
PD 07116	885	38.44	6.68	5.61	32.29	9.98	4.31	1.15	81.48	31.73	5.78	8.65	65.25	70.00
PD 07105	835	35.63	5.79	5.35	33.20	9.80	3.59	1.20	80.38	33.08	5.05	9.05	65.75	62.75
NM 13W3017	581	34.45	6.23	5.99	34.47	11.08	4.00	1.18	80.80	31.68	4.58	9.40	71.00	67.50
Mean	1067	38.47	6.77	5.35	30.48	10.08	4.12	1.15	81.44	31.78	6.59	8.69	64.08	69.95
Cultivar LSD (.05)	132	1.71	0.58	0.65	4.56	0.78	0.34	0.03	1.08	1.42	0.45	0.60	12.29	7.77
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0367	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	8.08	3.17	6.09	8.65	10.65	5.49	5.92	2.08	0.94	3.17	4.85	4.88	13.64	7.90
R-Square	0.76	0.74	0.58	0.54	0.35	0.66	0.56	0.69	0.46	0.78	0.89	0.59	0.63	0.60
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Values in bold are not significantly different from highest value according to LSD(0.05).

[†] Gin turnout used in lint yield calculations

[‡] 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 as follows: QS1 - fiber length (0.5), mic (0.25), UI (0.1), and strength (0.15) ; QS2 - fiber length (0.1), mic (0.1), UI (0.3), and strength (0.5)