

Table 9. Least square means for lint yield, yield components, and fiber quality traits in the 2016 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 ¹	QS2 ¹	QS3 ¹
	lbs/a	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%	%	%	%
MD 16-1	927	36.21	7.55	6.46	31.09	10.18	5.17	1.15	84.05	32.15	6.13	7.80	51.75	61.25	56.75
NM 13G2019	885	34.77	6.50	5.38	28.80	9.23	4.93	1.17	83.03	32.33	5.73	8.23	60.00	57.50	67.50
DP 493 CK	866	37.94	6.75	5.41	30.39	8.58	5.17	1.16	83.63	32.45	5.98	8.20	53.25	59.00	59.50
MD 16-2	865	32.89	7.06	6.34	29.61	11.13	4.86	1.14	83.13	31.90	6.20	8.13	49.00	54.25	57.50
Ark 0822-48	802	32.54	7.13	6.20	28.38	10.98	4.81	1.18	83.55	32.10	6.48	7.98	62.75	62.50	68.75
GA 2011113	790	35.31	6.70	6.18	32.60	8.90	4.98	1.18	83.60	31.83	6.53	7.95	61.00	62.25	67.00
UA 222 CK	788	32.99	7.11	5.69	26.44	11.05	5.08	1.19	83.10	33.58	6.37	8.12	61.25	59.75	69.00
Ark 0812-87ne	775	33.98	7.63	6.27	27.91	11.25	4.93	1.17	83.58	32.53	5.75	7.95	61.25	62.25	67.50
Ark 0818-23	772	33.99	7.45	6.44	29.42	10.90	5.22	1.16	84.10	32.08	6.00	7.98	53.00	62.25	57.75
SG 105 CK	768	31.84	6.67	5.70	27.24	10.93	5.03	1.16	83.55	32.03	6.45	7.95	54.50	59.00	61.00
GA 2012082	766	35.19	7.64	6.40	29.51	10.58	5.00	1.15	83.35	32.75	6.28	8.00	54.25	58.50	61.75
TAM13Q-18	754	30.73	6.36	6.40	30.85	11.00	5.00	1.15	82.60	31.28	6.10	8.73	51.25	51.25	60.25
AU77082	741	32.79	6.78	6.04	29.21	10.18	4.86	1.20	83.83	33.05	5.88	7.65	67.25	66.00	71.75
AU82074	738	31.96	6.89	6.21	28.89	10.98	4.90	1.18	84.03	31.88	6.53	7.78	65.50	66.75	69.75
Ark 0824-89	735	33.76	7.77	6.85	29.66	11.53	5.09	1.17	84.45	31.73	6.63	7.80	60.75	67.75	64.00
DP 393 CK	729	33.43	6.81	6.23	30.60	10.23	4.68	1.20	84.25	33.20	6.05	7.53	69.00	71.00	73.75
FM 958 CK	724	32.26	6.82	6.46	30.60	10.93	4.97	1.17	84.00	33.05	5.90	7.85	60.50	65.00	65.75
Ark 0819-89	717	31.06	6.43	5.74	27.72	11.15	5.05	1.16	84.23	33.30	6.00	7.68	58.50	67.25	64.00
PD07040	704	30.92	6.49	6.25	29.70	10.95	5.00	1.16	83.70	31.85	6.40	7.95	57.25	61.25	63.00
GA 2012141	684	34.28	7.06	6.13	29.76	10.18	5.13	1.17	83.88	31.93	6.43	7.80	59.00	63.00	63.75
MS 0152-3-11	651	33.44	7.15	6.33	29.61	10.65	5.15	1.15	84.08	31.48	6.38	7.73	53.25	62.25	58.25
MS 0043-28-1	609	33.54	6.85	5.93	29.04	10.48	5.15	1.13	83.10	30.80	6.25	8.25	44.75	52.00	53.00
NM 13G1029	599	35.57	6.92	5.33	27.36	9.60	5.03	1.17	83.65	31.20	6.13	8.03	59.00	61.75	65.25
TAM11L-24	558	27.05	6.24	6.61	28.63	12.38	4.70	1.19	83.23	34.18	5.83	7.93	64.75	62.25	72.75
PD09046	536	28.92	5.79	5.96	29.80	10.73	4.99	1.16	83.15	31.93	5.95	8.38	54.50	56.25	62.00
PD09084	533	28.83	5.95	6.62	32.13	10.90	4.89	1.19	83.93	32.73	5.93	7.80	65.25	67.00	70.25
PD08028	527	29.24	5.97	6.86	33.55	11.00	5.11	1.17	83.90	31.20	6.30	7.98	57.75	63.00	63.25
GA 2012050	507	34.22	7.28	6.92	32.58	10.35	4.99	1.15	82.93	31.80	6.20	8.18	50.75	53.25	59.00
Mean	716	32.84	6.85	6.19	29.68	10.60	4.99	1.17	83.63	32.22	6.17	7.97	57.89	61.27	64.06
Cultivar LSD (.05)	174	1.54	0.45	0.62	2.95	0.60	ns	ns	ns	ns	ns	ns	ns	ns	ns
Cultivar (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.6226	0.9075	0.6514	0.8720	0.8422	0.6241	0.8958	0.8689	0.8305
CV(%)	17.28	3.32	4.69	7.06	7.06	4.03	5.75	6.30	1.19	5.91	9.80	6.56	25.23	16.31	19.47
R-Square	0.62	0.87	0.78	0.57	0.48	0.83	0.26	0.22	0.24	0.20	0.19	0.26	0.23	0.22	0.25
Reps	4	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).

¹ QS1, QS2, and QS3 - 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 (0.15), and strength (0.10) ; QS2 - fiber length (0.2), mic (0.1), UI (0.4), and strength (0.3); QS3 - fiber length (0.45), mic (0.25), UI (0.0), and strength (0.3).