

Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2016 RBTN trial conducted at College Station, TX. (Cooperator: Richard Percy)

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	1417	42.82	7.40	5.68	32.84	9.84	5.16	1.09	84.50	31.55	4.73	7.40	31.50	48.00	41.00
Ark 0824-89	1383	41.01	8.35	5.74	28.18	11.94	5.72	1.18	84.75	35.80	5.40	7.10	43.00	56.00	51.25
GA 2011113	1383	41.36	6.63	4.58	28.60	9.24	5.44	1.16	85.28	35.88	4.98	7.20	44.50	60.00	51.75
Ark 0818-23	1366	40.57	7.57	5.75	30.90	10.96	5.21	1.21	85.15	34.00	4.93	7.23	61.50	64.75	66.75
TAM13Q-18	1353	37.04	6.42	5.16	29.77	10.78	4.98	1.21	84.50	35.68	4.90	7.43	62.00	62.00	70.50
Ark 0812-87ne	1339	41.03	7.94	5.89	30.49	11.30	5.32	1.21	85.05	34.35	5.50	7.35	58.75	63.25	64.50
GA 2012050	1324	40.41	7.36	5.90	32.47	10.68	5.04	1.23	85.75	36.35	5.53	7.00	70.00	74.00	74.25
GA 2012141	1322	40.45	6.88	5.01	29.45	10.02	5.13	1.20	85.70	34.20	5.43	7.55	61.00	68.25	64.25
Ark 0822-48	1311	39.76	7.95	5.62	28.10	11.96	5.54	1.23	84.83	34.30	5.83	7.55	59.50	61.50	65.25
AU77082	1310	40.23	7.29	5.21	28.82	10.74	5.49	1.18	84.23	33.68	4.83	7.63	43.50	51.00	52.50
AU82074	1292	38.07	6.95	5.66	30.98	11.14	5.08	1.21	84.85	34.63	4.65	7.35	62.25	63.25	68.25
FM 958 CK	1291	38.98	7.47	5.79	30.21	11.52	5.26	1.17	84.15	34.18	4.10	7.90	44.75	51.25	54.25
UA 222 CK	1264	39.86	7.66	5.34	27.80	11.36	5.45	1.21	85.08	34.03	6.12	7.15	57.00	62.75	62.25
SG 105 CK	1260	39.50	7.52	4.96	26.04	11.40	5.56	1.16	85.40	33.60	5.43	7.13	41.75	58.50	47.25
MS 0043-28-1	1243	39.99	7.02	5.28	30.12	10.46	5.46	1.14	83.48	33.60	4.98	7.73	32.50	41.50	45.00
DP 393 CK	1239	40.06	7.37	5.22	28.30	10.88	5.43	1.17	84.40	34.65	5.63	7.40	43.25	52.75	52.50
GA 2012082	1231	41.45	7.79	5.20	27.65	10.92	5.19	1.18	85.03	31.88	5.28	7.48	53.00	59.75	58.50
DP 493 CK	1225	42.50	6.43	4.40	29.05	8.62	5.60	1.13	83.93	34.18	4.58	8.00	28.50	43.00	39.75
NM 13G1029	1202	39.51	6.19	4.87	31.26	9.28	4.63	1.21	84.28	34.68	4.93	7.70	65.00	60.25	73.00
MS 0152-3-11	1196	40.56	7.42	5.19	28.41	10.68	5.24	1.22	85.35	33.73	4.78	7.38	63.50	66.75	67.50
MD 16-2	1196	38.92	7.38	5.98	31.50	11.44	4.38	1.21	84.50	38.10	5.13	7.35	69.25	66.75	79.00
Ark 0819-89	1151	36.95	6.82	5.49	29.79	11.46	5.53	1.21	85.85	36.45	5.55	7.00	58.00	70.00	62.75
NM 13G2019	1112	37.66	6.62	5.20	29.61	10.88	5.06	1.24	85.40	36.75	5.43	7.08	73.25	73.50	79.00
PD08028	1089	36.71	6.41	5.61	32.13	10.90	5.03	1.21	84.60	36.00	5.03	7.28	61.25	62.50	69.50
PD07040	1087	37.87	6.23	5.24	32.36	10.18	5.06	1.19	84.20	32.45	4.58	7.70	54.50	55.00	63.00
PD09084	1055	35.73	6.15	4.79	27.88	10.98	5.20	1.21	86.23	38.40	4.98	6.75	66.25	77.75	71.00
TAM11L-24	1023	34.50	6.13	5.07	28.59	11.44	4.67	1.30	86.00	37.05	4.48	6.35	89.75	84.50	92.50
PD09046	784	32.20	5.05	4.29	27.35	10.48	4.85	1.27	84.25	36.73	3.88	7.25	77.50	67.25	86.00
Mean	1230	39.13	7.02	5.29	29.59	10.77	5.20	1.20	84.88	34.89	5.05	7.33	56.30	61.63	63.32
Cultivar LSD (.05)	152	0.93	0.49	0.48	3.04	0.79	0.24	0.03	0.95	1.92	0.35	0.52	12.56	11.32	10.41
Cultivar (P>F)	0.0003	<0.0001	<0.0001	<0.0001	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	8.77	1.69	4.92	6.38	7.31	5.22	3.34	1.87	0.80	3.91	4.97	5.03	15.85	13.05	11.68
R-Square	0.75	0.95	0.86	0.71	0.48	0.75	0.83	0.85	0.63	0.68	0.85	0.60	0.82	0.73	0.84
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).