

Table 4. Least square means for yield components¹ and fiber quality traits in the 2018 RBTN at College Station, Texas (Cooperator: Lori Hinze).

Entry	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 ²	QS2 ²	QS3 ²
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
16-13P1115	.	42.99	7.97	4.81	26.03	10.40	4.27	1.17	84.30	36.90	5.65	7.75	76.00	83.00	79.50
Ark 1004-38	.	43.35	8.43	5.49	28.28	10.78	4.87	1.24	83.28	31.78	5.70	8.50	84.00	75.25	85.75
Ark 1005-35	.	42.23	7.51	4.90	27.58	10.12	5.03	1.19	83.53	34.08	5.95	8.50	70.00	73.00	73.00
Ark 1005-41	.	44.02	8.65	5.68	28.97	10.74	5.09	1.20	84.33	33.43	6.35	7.83	73.25	78.75	73.50
Ark 1007-15	.	43.96	8.00	4.82	26.63	9.96	4.50	1.15	81.75	30.33	5.78	9.50	58.25	49.50	63.25
Ark 1015-42	.	46.20	8.15	4.69	26.65	9.28	4.81	1.23	84.20	33.08	6.05	8.18	84.75	82.00	84.25
DP 393 CK	.	44.19	7.94	4.69	26.12	9.80	4.84	1.13	82.10	30.63	6.58	8.73	51.00	54.50	59.75
DP 493 CK	.	46.54	6.67	4.11	28.77	7.44	5.06	1.05	81.10	29.03	5.70	10.03	24.75	31.75	34.00
FM 958 CK	.	43.31	7.43	4.81	28.12	9.54	4.64	1.16	82.43	31.35	5.55	8.70	65.00	62.00	71.50
GA 2012141	.	44.36	7.56	4.57	26.88	9.32	4.65	1.14	83.38	31.05	6.10	8.70	60.75	67.00	65.00
GA 2015024	.	45.20	7.21	4.57	28.67	8.62	4.61	1.14	81.08	28.88	5.88	9.38	54.00	47.25	63.00
LA11309040	.	47.42	7.97	4.81	28.68	8.72	4.94	1.11	81.63	29.55	6.73	9.18	42.75	47.75	53.25
LA14063075	.	45.14	6.75	4.36	29.33	7.98	4.50	1.16	82.00	31.05	5.80	9.33	64.50	59.00	72.50
LA14063083	.	44.62	7.33	4.72	28.72	8.92	4.68	1.13	82.20	30.30	6.48	8.70	55.25	57.00	63.75
MS 2010-87-5	.	46.04	8.04	5.14	29.53	9.24	4.76	1.15	82.43	30.58	5.65	8.83	58.00	55.50	61.75
PD2011021	.	41.15	7.16	4.89	28.13	10.08	4.63	1.13	81.88	32.18	6.13	8.78	53.75	54.00	62.75
PD2011026	.	41.01	7.01	4.73	27.73	9.84	4.78	1.19	83.20	34.78	5.98	8.38	73.75	73.00	78.50
PD2011081	.	39.59	6.23	4.50	28.76	9.34	4.52	1.12	81.98	29.63	5.88	9.03	53.00	54.25	62.00
TAM 12J-39	.	45.36	8.36	5.56	30.15	9.84	4.93	1.11	83.15	34.15	5.68	8.38	48.00	62.00	55.00
TAM 13S-03	.	43.54	7.27	4.49	26.88	9.24	4.53	1.12	81.78	28.25	6.68	9.18	48.00	40.75	49.75
TAM LBB150107	.	43.59	6.78	3.89	25.03	8.60	4.97	1.14	83.68	33.15	6.50	7.90	57.25	67.25	60.75
TAM LBB150824	.	43.59	8.38	4.94	25.77	10.60	4.72	1.20	82.00	35.50	6.00	8.73	73.25	65.75	82.50
TAM LBB150921	.	40.67	7.86	5.53	28.70	11.28	4.91	1.23	84.73	35.98	6.78	7.63	84.25	88.00	86.00
UA 222 CK	.	43.73	7.56	4.55	26.30	9.56	4.79	1.15	81.93	31.40	6.68	8.75	55.25	55.00	64.25
Mean	.	43.82	7.59	4.80	27.77	9.55	4.75	1.16	82.67	31.96	6.09	8.69	61.20	61.80	66.89
LSD (.05)	.	1.47	0.62	0.38	2.36	0.78	0.20	0.04	1.33	2.11	0.28	0.75	14.64	16.69	14.59
Entry (P>F)	.	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	.	2.37	5.76	5.65	6.03	5.82	2.97	2.37	0.14	4.67	3.26	6.09	16.95	19.15	15.46
R-Square	.	0.83	0.76	0.78	0.56	0.79	0.75	0.77	0.65	0.77	0.85	0.64	0.72	0.66	0.66
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

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

¹ Trial was not harvested for yield due to excessive rainfall late in the season.

² QS1, QS2, and QS3 (Quality Score) - a measurement 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 (0.50), mic (0.25), UI (0.15), and strength (0.10)

QS2 - fiber length (0.20), mic (0.10), UI (0.40), and strength (0.30)

QS3 - fiber length (0.45), mic (0.25), UI (0.00), and strength (0.30).