

Table 10. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at Maricopa, Arizona (Cooperator: Alison Thompson).

Entry	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
	lb/A	%	grams	grams	#	grams	mic	inch	%	g/tex	%	%			
UA 222 CK	1095	41.86	6.90	4.62	28.03	9.24	5.26	1.11	82.95	29.50	6.43	8.48	53.75	60.75	59.50
Ark 1004-38	1093	40.67	7.25	4.72	26.49	10.12	5.06	1.13	82.23	28.75	5.65	9.33	62.00	58.75	69.00
TAM 13S-03	1070	41.12	6.87	4.40	26.37	9.43	5.21	1.08	82.68	28.80	6.28	8.73	44.25	54.50	51.25
LA14063075	1050	41.68	6.24	4.28	28.64	8.36	5.12	1.12	82.60	30.05	5.78	9.03	57.50	59.75	64.00
LA11309040	1039	43.51	7.09	4.53	27.80	8.84	5.44	1.06	82.00	29.28	6.43	9.20	34.00	42.75	41.25
Ark 1005-41	1038	41.45	7.54	4.95	27.30	10.31	5.35	1.12	83.38	31.93	6.20	8.23	58.00	65.25	61.75
Ark 1005-35	1034	38.50	6.53	4.75	28.03	10.05	5.45	1.13	83.63	31.73	5.88	8.30	58.50	67.25	61.75
DP 393 CK	1015	41.75	6.87	4.51	27.44	9.17	5.24	1.07	82.18	29.70	6.45	8.60	40.50	49.75	49.50
Ark 1015-42	1009	42.95	6.72	4.26	27.23	8.53	5.18	1.12	82.38	30.15	6.00	8.70	57.00	58.00	63.75
LA14063083	1008	41.24	6.71	4.59	28.25	9.16	5.26	1.09	82.43	29.00	6.38	8.73	48.00	54.75	55.50
Ark 1007-15	997	40.60	7.30	4.83	26.88	10.30	4.95	1.11	79.70	26.73	5.80	10.90	44.00	23.25	46.25
DP 493 CK	989	43.10	6.47	3.99	26.67	8.23	5.68	1.08	81.53	30.10	5.50	9.23	34.50	41.25	43.50
GA 2015024	951	41.81	6.43	4.37	28.38	8.62	4.91	1.17	82.60	30.00	5.75	8.60	74.50	66.50	79.75
TAM 12J-39	942	41.95	7.28	4.95	28.55	9.66	5.50	1.06	82.05	30.93	5.73	9.15	32.50	46.00	42.25
MS 2010-87-5	939	42.57	7.15	4.90	29.20	9.28	5.19	1.11	82.70	30.20	5.65	8.83	55.50	59.50	61.75
PD2011026	934	38.76	6.71	4.66	26.88	10.22	5.13	1.14	83.48	32.35	5.88	8.38	66.50	69.75	69.50
GA 2012141	912	41.20	7.00	4.10	24.14	9.61	5.10	1.10	82.73	28.63	5.98	8.80	51.75	56.75	57.00
TAM LBB150921	873	36.90	6.73	5.57	30.63	11.22	5.36	1.17	84.25	35.78	6.73	7.85	74.50	81.50	77.75
PD2011021	817	38.45	6.51	4.73	27.95	10.10	5.19	1.08	83.10	30.50	5.90	8.45	47.75	59.25	53.50
FM 958 CK	797	38.94	6.77	4.75	27.47	10.23	5.08	1.10	82.03	29.93	5.50	8.90	52.00	53.25	60.25
TAM LBB150107	756	39.75	6.40	4.32	26.87	9.39	5.35	1.15	85.03	34.55	6.28	7.58	71.50	84.00	72.00
16-13P1115	729	37.89	6.83	4.83	26.84	10.73	4.55	1.13	83.88	34.73	5.50	8.20	72.50	78.25	78.00
TAM LBB150824	695	37.59	7.05	5.15	27.61	11.40	5.19	1.24	83.33	36.80	5.95	7.68	83.50	80.25	89.50
PD2011081	687	35.76	6.06	4.28	25.33	10.58	4.91	1.12	83.48	29.70	6.03	8.20	64.50	68.50	68.25
Mean	936	40.42	6.81	4.63	27.46	9.70	5.19	1.11	82.76	30.82	5.98	8.67	55.79	59.98	61.52
LSD (.05)	122	1.19	0.55	0.37	2.69	0.94	0.22	0.03	1.16	1.90	0.19	0.64	12.24	13.28	11.32
Entry (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0308	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	9.27	2.08	5.76	5.73	6.95	6.84	3.01	2.18	0.99	4.37	2.21	5.27	15.56	15.69	13.04
R-Square	0.79	0.89	0.54	0.71	0.40	0.70	0.75	0.79	0.70	0.82	0.90	0.76	0.78	0.76	0.77
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 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).