

Table 16. Least square means for lint yield, yield components, and fiber quality traits in the 2018 RBTN at West Side, California (Cooperator: Bob Hutmacher).

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	%	%			
Ark 1007-15	2436	40.58	8.55	5.97	28.37	12.45	4.56	1.25	83.48	31.98	6.00	8.33	61.00	49.25	72.50
LA14063075	2435	42.04	6.84	5.31	32.87	9.35	4.50	1.30	86.63	36.00	6.18	6.65	85.00	81.50	88.00
MS 2010-87-5	2428	44.26	8.35	6.05	32.12	10.43	4.72	1.23	85.83	33.40	6.05	7.10	61.50	64.50	67.00
LA11309040	2386	42.92	7.75	5.68	31.55	10.20	5.12	1.20	84.68	33.23	6.98	7.48	42.25	49.50	52.50
DP 393 CK	2357	41.01	7.55	5.97	32.81	10.75	4.86	1.22	85.30	32.83	7.23	7.25	52.50	57.25	60.25
GA 2012141	2338	42.36	8.52	5.71	28.47	11.50	4.98	1.22	85.55	32.58	6.58	7.18	52.50	58.75	58.75
UA 222 CK	2338	41.65	8.16	5.86	30.01	11.30	4.97	1.22	84.73	31.98	7.18	7.35	51.00	52.50	60.00
Ark 1005-41	2290	42.50	8.43	6.37	32.13	11.30	5.15	1.25	85.75	34.00	6.73	7.13	57.00	62.25	62.25
GA 2015024	2290	42.15	7.19	5.36	31.38	9.80	4.71	1.25	84.35	33.23	6.58	7.43	61.25	55.00	70.00
Ark 1015-42	2279	44.33	8.67	6.02	30.77	10.80	4.93	1.25	85.28	33.35	6.40	7.33	60.50	60.75	67.50
Ark 1005-35	2271	38.87	7.37	5.85	30.93	11.50	5.37	1.23	86.05	35.88	6.38	6.95	50.75	63.50	56.75
FM 958 CK	2247	40.46	7.92	6.00	30.80	11.55	4.98	1.19	84.83	33.53	5.68	7.50	43.00	51.00	53.25
TAM 13S-03	2227	39.12	7.20	5.36	29.12	11.10	4.75	1.21	85.38	33.48	7.38	7.03	53.75	58.50	61.25
Ark 1004-38	2222	41.38	8.85	6.14	28.77	12.40	5.02	1.26	86.30	33.33	6.10	7.18	64.00	68.00	68.75
LA14063083	2222	42.13	7.59	5.95	33.00	10.35	4.88	1.25	85.98	34.05	6.85	7.33	64.50	66.75	69.25
TAM LBB150921	2165	37.47	8.13	6.91	31.92	13.40	4.97	1.35	87.13	37.50	7.05	6.13	89.50	88.25	91.00
PD2011021	2062	38.55	7.79	5.91	29.17	12.35	4.70	1.22	85.00	34.90	6.40	7.20	55.75	57.50	64.50
TAM 12J-39	2052	40.09	8.18	7.04	34.59	12.10	4.97	1.16	84.83	36.33	5.85	7.18	35.75	49.75	48.00
PD2011026	2005	37.68	7.49	6.11	30.75	12.30	4.95	1.26	86.18	36.40	6.55	6.85	66.00	71.00	71.75
DP 493 CK	1948	42.50	6.55	4.75	30.87	8.75	4.97	1.16	83.88	32.75	5.93	7.88	31.75	39.50	44.75
PD2011081	1911	36.65	7.07	5.92	30.73	12.15	4.63	1.22	85.38	34.15	6.25	7.18	58.00	60.75	66.00
TAM LBB150824	1780	37.61	8.16	6.92	31.88	13.45	4.70	1.37	86.20	38.03	6.63	6.18	92.00	83.00	96.75
TAM LBB150107	1694	41.23	7.38	5.14	28.77	10.40	5.06	1.27	87.23	36.28	6.60	6.60	71.25	80.75	73.25
16-13P1115	1580	37.96	8.03	6.71	31.77	13.05	4.44	1.27	87.00	39.58	6.00	6.53	79.75	84.50	84.25
Mean	2165	40.65	7.82	5.96	30.98	11.36	4.87	1.24	85.54	34.53	6.48	7.12	60.01	63.08	67.01
LSD (.05)	262	1.28	0.71	0.44	2.88	1.08	0.30	0.05	1.45	2.23	0.46	0.56	16.68	14.95	13.58
Entry (P>F)	<0.0001	<0.0001	<0.0001	<0.0001	0.0018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV(%)	8.53	2.22	6.45	5.23	6.60	6.71	4.41	2.61	1.20	4.57	5.04	5.61	19.71	16.80	14.37
R-Square	0.69	0.89	0.68	0.82	0.47	0.79	0.59	0.78	0.59	0.69	0.74	0.68	0.72	0.69	0.73
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).