

Table 13. Least square means for lint yield, yield components, and fiber quality traits in the 2011 RBTN trial conducted at Tallassee, AL . (Cooperator: David Weaver)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 [†]	QS2 [†]
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%		
AU3095	1461	42.89	7.13	4.96	29.79	9.40	4.80	1.15	83.28	29.60	4.98	7.43	54.00	61.75
AU3111	1780	43.24	7.24	5.15	30.80	9.38	4.91	1.14	83.55	29.53	4.83	7.10	51.00	62.50
AU3202	1488	41.81	7.50	4.89	27.21	10.35	4.80	1.15	83.80	30.15	5.00	7.25	57.25	65.75
AU3223	1356	43.63	7.33	4.89	29.06	9.37	4.82	1.16	83.70	29.38	6.08	6.95	58.75	66.25
Acala 1517-08	1091	38.46	6.88	5.21	29.22	10.86	4.87	1.20	84.20	35.75	5.05	6.55	72.50	76.50
Ark 0304-23	1264	40.30	7.54	5.66	30.31	11.06	4.62	1.17	84.90	32.65	4.50	6.60	66.75	73.75
Ark 0305-07	1573	42.13	7.48	5.18	29.16	10.17	4.55	1.18	83.78	32.70	4.43	7.45	68.00	68.75
Ark 0309-31	1129	38.93	6.93	5.58	31.60	10.76	4.15	1.19	84.28	35.35	4.88	7.10	74.00	76.50
Ark 0316-36	1282	42.29	7.18	5.05	29.70	9.69	4.78	1.14	83.78	31.33	5.43	6.93	53.50	64.75
Ark M222-07	1417	40.06	7.43	4.70	25.26	11.01	4.86	1.13	83.88	30.53	4.80	6.83	49.25	64.00
DP 393	1444	41.39	7.05	5.47	32.04	9.88	4.99	1.11	84.25	32.38	6.43	6.53	43.25	64.50
FM 958	1127	39.94	8.74	5.52	26.98	11.65	4.64	1.14	84.08	34.68	3.65	6.85	56.75	69.25
GA 2004143	1635	44.44	6.90	4.53	29.10	8.51	4.53	1.17	83.33	32.25	4.18	7.25	63.50	64.75
LA06307025	1563	44.07	7.95	4.56	25.45	9.94	5.00	1.16	83.43	32.38	5.03	6.85	55.00	62.75
LA07307106	1531	42.73	8.03	5.71	30.46	10.64	4.92	1.19	84.70	32.68	6.35	6.65	68.50	72.75
MD 25-26ne	1347	39.87	7.49	6.00	31.91	11.21	4.76	1.24	86.30	35.58	5.00	6.55	89.25	90.50
MD 25-27Y	1386	40.58	7.26	5.69	31.81	10.54	4.37	1.16	85.00	33.60	4.38	6.58	69.00	76.75
MD 25-87Y	1172	38.47	7.33	5.24	27.55	11.61	4.27	1.18	85.10	37.28	4.63	6.58	75.25	85.25
NC08AZ21	1280	38.55	6.04	4.52	28.92	9.47	4.81	1.13	83.38	29.80	5.20	7.00	48.75	61.25
NM08N1084	1224	41.33	6.86	4.50	27.44	9.64	4.52	1.14	84.05	34.35	5.15	6.73	59.25	70.25
NM08N1562	1407	39.15	6.54	4.91	29.50	10.09	4.78	1.18	84.45	31.83	5.63	7.00	68.50	71.50
NM08N1564	1399	39.58	6.28	4.74	29.94	9.47	4.79	1.14	83.88	30.63	5.33	7.13	54.25	65.25
PD 05069	1336	41.95	7.92	5.50	29.31	10.89	4.98	1.18	84.28	34.93	4.88	6.78	63.75	72.50
PD 05070	1431	41.78	7.29	4.81	27.47	10.09	4.83	1.14	83.90	32.78	4.58	6.73	54.25	66.50
PD 06001	1611	39.06	6.69	5.17	30.20	10.36	4.82	1.18	83.98	32.58	4.68	6.90	65.00	68.25
SG 105	1469	40.35	7.07	5.03	28.72	10.36	5.19	1.13	84.30	31.25	5.70	6.78	44.75	64.00
Tamcot 73	1250	39.39	6.71	5.29	31.02	10.21	4.82	1.17	84.78	35.23	5.05	6.63	65.00	76.25
Mean	1387	40.98	7.21	5.13	29.26	10.24	4.75	1.16	84.16	32.63	5.03	6.88	61.07	69.73
LSD (.05)	265	3.95	0.85	0.67	3.67	0.89	0.37	0.03	1.16	2.02	0.57	0.50	12.39	9.07
CV(%)	13.56	2.37	8.40	9.33	8.90	6.17	5.46	1.94	0.98	4.40	7.98	5.20	14.41	9.24
R-Square	0.54	0.83	0.54	0.51	0.43	0.67	0.52	0.67	0.48	0.76	0.77	0.45	0.66	0.63
Reps	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Shaded Values are not significantly different from highest value according to LSD(0.05).

[†] QS1 & QS2 = 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 (0.1), and strength (0.15) ; QS2 - fiber length (0.1), mic (0.1), UI (0.3), and strength (0.5)