

**2013**  
**Texas Gulf Coast**  
**Monster Variety Trials**

**Table 7. Hidalgo Monster Cotton Variety Trial, 2013**  
**Texas A&M AgriLife Research and Extension Center, Weslaco, Texas**  
**Dr. Dan D. Fromme, Associate Professor and Extension Agronomist**  
**Rudy Alaniz, Technician**  
**Clinton Livingston, Technician**

Variety	Lint (lbs/acre)		Turnout (%)		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre)	
PHY 499WRF	2581	a	45.68	bcd	4.93	b-e	1.17	ijk	32.90	bcd	84.95	b-f	52.56	abc	1358.18	a
DP 1252B2RF	2472	ab	46.83	a	4.83	c-f	1.16	jk	30.28	i	84.45	c-g	53.76	a	1329.15	ab
ST 4946GLB2	2471	ab	43.30	gh	5.05	abc	1.17	ijk	33.43	abc	84.50	c-g	51.86	bcd	1281.39	a-d
DP 1048B2RF	2468	ab	45.58	bcd	4.73	ef	1.20	e-h	30.30	i	84.98	b-f	53.78	a	1327.07	ab
PHY 44413WRF	2463	ab	46.20	ab	4.13	j	1.30	a	31.38	f-i	85.85	ab	54.04	a	1331.36	ab
AT NB502-54TCV	2416	ab	45.00	cde	4.68	fg	1.20	fgh	31.25	f-i	84.15	d-g	53.81	a	1300.38	abc
PHY 339WRF	2396	abc	44.58	ef	4.43	hi	1.20	e-h	32.73	b-e	84.60	c-g	53.93	a	1291.95	a-d
PHY 575WRF	2394	abc	41.70	kl	4.48	ghi	1.24	bc	31.18	f-i	85.38	abc	53.86	a	1289.56	a-d
NG 1511B2RF	2384	a-d	46.13	ab	5.18	a	1.15	kl	31.83	d-h	83.98	fg	50.84	d	1212.58	b-e
DP 12R242B2RF	2370	a-d	45.93	b	5.05	abc	1.20	e-h	31.10	f-i	86.13	a	51.89	bcd	1229.25	a-e
DP 1219B2RF	2361	a-d	43.00	hi	4.68	fg	1.24	bcd	33.93	ab	84.30	c-g	53.19	ab	1257.14	a-e
PHY 3122-40WRF	2358	a-d	44.90	def	4.68	fg	1.21	d-g	31.13	f-i	85.03	b-f	53.85	a	1270.23	a-e
AT Nitro 44B2Rf	2353	a-e	41.98	jk	4.33	ij	1.26	b	34.35	a	85.83	ab	54.00	a	1270.55	a-e
DP 12R224B2RF	2293	b-e	43.23	gh	4.75	def	1.19	ghi	31.48	e-i	84.73	c-g	53.88	a	1235.65	a-e
PHY 375WRF	2287	b-e	44.05	fg	4.70	efg	1.17	ijk	30.25	i	83.65	g	52.99	ab	1211.84	b-e
ST 6448GLB2	2286	b-e	42.23	ijk	4.98	a-d	1.23	cd	30.98	ghi	84.70	c-g	53.15	ab	1214.37	b-e
NG 1550B2RF	2268	b-e	43.33	gh	5.13	ab	1.13	l	28.73	j	84.13	efg	51.28	cd	1161.79	de

FM 2989GLB2	2268	b-e	40.93	l	4.93	b-e	1.22	cde	32.33	c-f	84.30	c-g	53.16	ab	1204.84	b-e
FM 1944GLB2	2259	b-e	41.65	kl	4.93	b-e	1.22	c-f	32.05	d-h	84.10	efg	52.21	bcd	1179.55	cde
AT NB502-68TCV	2258	b-e	44.08	fg	4.75	def	1.20	e-h	32.25	c-g	85.13	a-e	53.25	ab	1202.07	b-e
AT CT13125B2RF	2258	b-e	44.38	ef	4.83	c-f	1.22	c-f	31.98	d-h	85.85	ab	53.29	ab	1201.98	b-e
PHY 367WRF	2155	cde	42.70	hij	4.63	fgh	1.18	hij	32.33	c-f	84.48	c-g	53.89	a	1161.08	de
DP 1044B2RF	2139	de	42.33	ijk	4.85	c-f	1.16	kl	31.58	d-i	84.43	c-g	53.15	ab	1138.28	e
NG 5315B2RF	2112	e	45.85	bc	4.78	def	1.19	ghi	30.75	hi	85.23	a-d	53.80	a	1136.10	e
LSD (P=.05)	245.706		0.876		0.244		0.025		1.342		1.091		1.481		134.9628	
Standard Deviation	173.74		0.619		0.172		0.0177		0.949		0.771		1.0472		95.4331	
CV	7.44		1.41		3.62		1.48		2.99		0.91		1.97		7.69	
Grand Mean	2336.24		43.98		4.76		1.2		31.68		84.78		53.14		1241.51	
Treatment Prob(F)	0.0379		0.0001		0.0001		0.0001		0.0001		0.0002		0.0002		0.0327	

Planting date: 3/11/13

Harvest date: 8/15/13

Harvest Method: machine (picker)

Irrigated: yes-furrow

Row spacing: 38 inches

Plot sizes: 2 rows by 40 feet

Each variety was replicated 4 times in a RCB design.

**Table 8. Matagorda Monster Cotton Variety Trial, 2013**  
**Matagorda County**  
**Cooperator: Bill and Mike Hansen**  
**Brent Batchelor, County Extension Agent-Agriculture and Natural Resources**  
**Dr. Dan D. Fromme, Associate Professor and Extension Agronomist**  
**Rudy Alaniz, Technician**  
**Clinton Livingston, Technician**

Variety	Lint (lbs/acre)		Turnout (%)		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value (\$/acre)	
ST 4946GLB2	1515	a	42.33	h-l	5.28	a-e	1.09	i-l	33.63	e-k	84.58	d-l	50.16	i-n	760.81	abc
DP 1359B2RF	1514	a	44.03	b-f	5.18	d-i	1.12	f-i	34.65	cde	84.25	f-o	50.99	e-k	771.90	a
PHY 375WRF	1479	ab	42.88	f-i	5.03	h-m	1.10	hij	31.33	q	84.03	g-o	51.49	e-j	762.68	ab
DP 12R249B2R2	1445	abc	43.50	c-h	5.08	f-k	1.10	ij	33.38	f-m	83.98	h-o	50.64	g-m	731.64	a-f
PHY PX312240WRF	1439	abc	44.80	abc	5.05	g-l	1.12	f-i	32.50	k-q	85.45	a-e	51.46	e-j	742.55	a-e
PHY PX444413WRF	1391	a-d	45.18	ab	4.70	pq	1.19	ab	34.13	d-g	85.68	a-d	53.96	a	750.42	a-d
NG 1511B2RF	1357	a-e	44.03	b-f	5.45	a	1.07	k-n	33.53	e-l	83.90	i-o	49.03	n	666.16	b-k
AT NB502-55TCV	1355	a-e	42.83	f-j	5.40	ab	1.12	f-j	35.50	bc	84.90	b-j	49.75	k-n	674.35	a-j
PHY 499WRF	1346	a-f	45.45	a	5.20	c-h	1.06	mn	34.13	d-g	84.75	c-k	49.40	lmn	665.43	b-k
SSG HQ 210 CTCV	1339	a-f	39.00	q	5.30	a-d	1.06	mn	33.10	g-n	83.10	op	49.33	mn	660.27	b-k
AT Nitro 44B2RF	1302	b-g	40.45	nop	4.60	q	1.17	a-d	36.68	ab	85.10	a-h	53.94	a	702.45	a-g
PHY 575WRF	1301	b-g	41.30	l-p	4.88	l-p	1.13	e-h	31.33	q	84.68	c-k	53.84	ab	700.56	a-h
DP 12R224B2R2	1299	b-g	42.20	h-m	5.23	b-g	1.10	hij	31.55	opq	84.80	c-k	50.50	h-n	655.74	d-l

DP 1219B2RF	1297	b-g	42.03	i-m	5.00	i-n	1.14	c-f	35.53	bc	84.08	f-o	51.16	e-k	663.76	b-k
AT NB503-55TB2RF	1292	b-h	43.00	f-i	5.10	e-j	1.11	g-j	33.80	e-j	83.78	j-o	51.08	e-k	659.99	b-k
AT 11-1551B2RF	1289	b-h	42.53	h-l	4.78	opq	1.14	c-f	35.20	cd	85.80	abc	53.94	a	695.31	a-i
AT NB503-60TB2RF	1288	b-h	45.00	ab	4.83	nop	1.06	lmn	32.18	m-q	83.73	k-p	52.39	b-e	674.72	a-j
PHY 339WRF	1277	c-i	43.23	e-i	5.08	f-k	1.12	f-i	33.08	g-n	84.23	f-o	51.66	e-i	660.29	b-k
SSG UA 222CV	1275	c-i	40.90	m-p	5.20	c-h	1.14	c-f	33.83	e-i	84.13	f-o	51.15	e-k	652.39	d-l
DP 1044B2RF	1257	c-i	41.50	j-n	4.95	j-o	1.10	hij	32.63	i-p	83.23	nop	52.11	c-g	657.55	c-l
AT CT13125B2RF	1256	c-i	42.90	f-i	5.10	e-j	1.13	e-h	33.15	g-n	85.03	b-i	51.19	e-k	643.15	e-l
ST 6448GLB2	1225	d-j	42.15	h-m	5.33	a-d	1.14	d-g	31.40	pq	83.50	l-p	50.31	h-n	616.06	g-n
AT NB503-51TB2RF	1221	d-j	42.55	g-l	5.08	f-k	1.17	a-d	35.25	cd	84.78	c-k	50.91	e-l	621.67	g-n
AT NB502-17RCV	1216	d-j	42.10	i-m	5.35	a-d	1.12	f-j	33.83	e-i	84.23	f-o	50.43	h-n	612.89	g-n
AT NB503-74TB2RF	1216	d-j	40.05	opq	4.90	k-o	1.17	abc	34.28	c-g	84.98	b-i	53.23	a-d	646.35	d-l
AT NB502-47TCV	1210	d-j	42.55	g-l	5.20	c-h	1.10	ijk	31.93	n-q	82.60	p	50.06	j-n	606.53	g-n
NG 1550B2RF	1210	d-j	42.43	h-l	5.25	b-f	1.05	n	29.28	r	83.33	m-p	48.98	n	593.59	i-n
AT NB502-18RCV	1193	e-j	42.78	f-j	5.38	abc	1.09	j-m	32.78	h-o	83.78	j-o	49.89	k-n	595.56	i-n
AT 11W351B2RF	1174	e-j	42.73	f-k	5.18	d-i	1.14	c-f	34.50	c-f	83.88	i-o	50.84	f-m	596.48	h-n
AT 11-1545B2RF	1173	e-j	40.03	pq	4.70	pq	1.19	a	37.90	a	86.25	a	53.99	a	633.28	f-m
12R242B2R2	1166	e-j	43.90	b-g	5.45	a	1.11	hij	32.15	m-q	85.03	b-i	49.89	k-n	581.78	j-n
DP 1048B2RF	1161	f-k	43.35	d-i	5.08	f-k	1.12	f-i	32.25	m-q	85.18	a-g	51.73	d-h	600.87	g-n
FM 1944GLB2	1127	g-k	41.40	k-o	5.05	g-l	1.16	a-e	32.55	j-q	84.35	e-n	51.18	e-k	576.81	j-n

SSG UA 103CV	1100	h-k	40.30	n-q	5.10	e-j	1.17	abc	36.60	b	85.00	b-i	51.23	e-k	563.35	k-n
ATNB503-62TB2RF	1092	ijk	44.65	a-d	5.03	h-m	1.06	n	31.43	pq	84.10	f-o	50.64	g-m	552.93	lmn
PHY 367WRF	1088	ijk	41.23	l-p	5.00	i-n	1.11	f-j	34.03	d-h	84.78	c-k	52.28	c-f	568.95	k-n
DP 1252B2RF	1045	jk	44.53	a-e	5.18	d-i	1.10	hij	32.20	m-q	84.88	b-k	50.90	e-l	531.62	mn
DP 1032B2RF	1036	jk	42.85	f-j	5.22	b-g	1.11	hij	32.85	h-n	84.48	e-m	50.58	h-m	524.10	n
AT 11W155B2RF	970	k	42.70	f-k	4.83	nop	1.16	b-e	31.55	opq	85.23	a-f	53.89	ab	522.62	n
NG 5315B2RF	769	l	44.05	b-f	4.85	m-p	1.14	c-f	32.33	l-q	86.03	ab	53.29	abc	408.35	o
LSD (P=.05)	192.803		1.356		0.182		0.0307		1.254		1.157		1.5291		104.7108717	
Standard Deviation	137.709		0.968		0.13		0.0219		0.896		0.826		1.0921		74.7896651	
CV	11.08		2.27		2.56		1.96		2.69		0.98		2.13		11.73	
Grand Mean	1242.64		42.63		5.09		1.12		33.35		84.49		51.33		637.65	
Treatment Prob(F)	0.0001		0.0001		0.0001		0.0001		0.0001		0.0001		0.0001		0.0001	

Planting date: 4/2/13

Harvest date: 8/22/13

Harvest Method: machine (picker)

Irrigated: no

Row spacing: 40 inches

Plot sizes: 2 rows by 35 feet

Each variety was replicated 4 times in a RCB design.