Second Annual 3905 Century Club
Mobile Antenna Shoot Out
Kansas City, MO 2 AUG 2003

This year's event in Kansas City was very exciting. We had 20 participants, and many more interested spectators. The assortment of systems exceeded last years numbers, and a great time was had by all.

Our test set up used the same Rxer as last year, but the data collection part of the system Was improved and included colorful meter displays on a laptop screen for all to view. As a backup, Steve (WK5S) had also constructed a loop rxer and ran parallel results to the official rxer / recording setup. Steve's system was measuring raw AC RF voltage where the official rxer was measuring DC which had been converted inside the rxer box.

Our test xmtr setup was similar to last year. We used an IC706 mounted on a pallet with a cig lighter plug attached. The end of the coax in the vehicle under test was connected to one side of an antenna switch. The other side of the antenna switch was connected to a dummy load. The xmitter was keyed and set to 50 watts out into the dummy load and verified by a Bird 43. The ant switch was then turned to select the system under test, and the xmtr keyed again. At this time, readings were taken at the rxing end of the range. More than one reading was taken to insure repeatability at this time. Contestants were allowed to reposition their vehicles and retain the highest reading as their score.

Our antenna range was not as desireable as last year, but certainly the set up where a vehicle could drive up to the line, test, then turn and exit via the circular drive was much more time efficient.

The recorded voltages have stymied the experts !! We have no explanation as to why the "suspected superior" antennas were trounced so soundly. We neither have an explanation as to why recorded voltages continued to decline as the event progressed or why re-tests on a couple of previously tested systems came in with such lower results than on their initial run. It's my take that committing the "cardinal sin" of having obstructions (trees, other objects) within the immediate test range area corrupted the recordings. Possibly the soaking rain the day before drying up in the midday sun --- Gravel road/wet trees/wet ground in Rxer path ?? Only the Shadow knows...

However, one must keep in mind that these same obstructions were there and equal for everyone. Hopefully, future eyeball coordinators will consider including space for the developing annual antenna shootout when evaluating potential eyeball locations.

I would like to recognize and thank:

WQ1H KM8U WK5S KS9WI AC6LU KA9JAC and AA0ZP for all their help and support in conducting the shootout.

A big thank you to Harlan, KM8U for helping me pick up after everyone else had left the range.

Thanks to Lon for a fine job and all the CCers who supported us.

73, Tom AA1NZ **SEE YOU NEXT YEAR !!!**

2003 OFFICIAL RESULTS

Callsign	Antenna	Vehicle	Mount	Recorded Voltage(mV)
WQ1H	Hustler	mid size car	rear trunk	126
KM8U	Hustler	SUV	roof rack	120
K0WJ	Predator	SUV	rear bumper	99
WK5S	Bugcatcher	Lg pickup	rear bumper	91
K9TWV	Screwdriver	f/s jeep	side bumper	84
N0PUI	Hustler	f/s car	rear side	68
KA9JAC	Hustler	mid size car	center rear	66
KS9WI	Tar Heel	f/s pickup	rear bumper	65
K7NZ	Lg Screwdriver	Lg pickup	rear center	62
K0HNM	Sm screwdriver	mid size car	rear bumper	58
AK8R	Screwdriver	f/s pickup	rear center	44
K0MRC	Bugcatcher	18 wheeler	drivers mirror	42
AC6LU	Hamstick	minivan	top rear	37
AA1NZ	Hi-Q	f/s pickup	rear center	31
NT4Z	Hamstick	f/s size car	rear bumper	26
KB0OKS	Bugcatcher	18 wheeler	drivers mirror	23
KE3NR	Outbacker	compact car	rear trunk	20
AA0ZP	Hamstick	minivan	rear top	17
WK5R	Bugcatcher	mid size p/u	rear center	13
WA0ROH	did not test			

ADDED NOTE:

The following are a couple pictures Tom – AA1NZ furnished us and stated there would more pictures to follow. This information is posted permanently in the **Technical Corner** section of the 3905 Century Club's web site. Last year's results are also posted there if anyone would like to compare the results, etc. Jim-KD3O

	
Tom-AA1NZ Antenna Shoot Out Official	**K0WJ and his Predator Antenna Used in the Antenna Shoot Out.**