



# FEEDBACK



NOVEMBER 2005

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## NOVEMBER MEETING NOTICE

The meeting for the month of November will be held at the Massillon Senior Center in downtown Massillon on November 4th 2005 at 8:00 PM.

Can you believe it? Here it is November already and we must finish a few projects before the winter months settle in and I for one am not ready for the white stuff! Yes you can bet at the meeting we will be hashing out the results of our "Hamfest 2005", good or bad. We will need the time to sort out what we are to do next year. Any improvements, criticisms, or suggestions will be welcomed and thought out and discussed carefully. One of this year's first for the club is holding a VE Exam at the Hamfest. As of this writing, the Hamfest has not occurred and we cannot report if it was successful or even if we will hold it next year at the Hamfest. That to will be thoroughly discussed at the meeting.

Since it is November, according to our "Code Of Regulations" we must begin to take nominations for new Officer's of the Massillon Amateur Radio Club for 2006. Accordingly we must elect a new Vice President, (the current Vice President, Igor K8INN moves up to the Presidency) a new Secretary, a new Treasurer, and one new Trustee as Don W8DEA's term as Trustee expires. In the past we have opted to reelect the current Secretary and Treasurer, if they so choose to run again for another term of one year. The current Secretary is Linda K8MOO and the current Treasurer is Anne N8GAF.

Yes it will be a very busy evening at the 'ole club house and if you have a friend or think someone would make a very good Officer, be sure to come to the meeting and nominate him of her to the Office!. See ya at the meeting!!

## --- SHORT SKIP ---

And now folks to better position our Amateur Radio Service for better growth in the years ahead, our FCC will be re-doing their exams. The goal is to write the exams at a reading level of a preteen child.

Gee Bunkey, I'd sure call that dumbing down, but that would be politically incorrect ....

73 de WB8OWM

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## **MARC MINUTES**

### **October 7,2005**

The Massillon Amateur Radio Club meeting was held at the Massillon Senior Center with 31 members present.

MARC President Joe WD8BGW opened the meeting at 8:00 P.M. The Pledge of Allegiance was given and a round of introductions was made. A motion was made to accept the September minutes as stated in the FEEDBACK by Scott N3JJT and second by Byron KF8UN.

MARC Treasurer Anne N8GAF gave the financial report for August and September. She also the results of the MARC Safety Break, GOOD JOB, everyone!! The Donut Connection was sent a thank you card on behalf of MARC for their supplying of donuts for the Safety Break.

MARC Vice President Igor K8INN gave the correspondence report. He had the normal news letters from other Amateur Radio Clubs. He reminded everyone the third all Stark County VHF contest which will be held on Sunday Dec.11,2005. Joe WD8BGW then asked for committee reports.

### **OLD BUSINESS.**

Terry N8ATZ gave the results of the Akron Marathon. He thanked Jason KC8LIN, Igor K8INN and Jim WA8GXM for their help.

Don W8DEF gave the fox hunt report. There will not be a hunt in October. When it resumes Don W8DEF with Dan N8DZM and Terry N8ATZ are considering having everyone meet at a park. There fore saving gasoline, there will be several foxes hidden, to be found on foot. Sarah KC8ZCS suggested an e-mail reminder sent out to everyone as to when the hunt will be.

Perry W8AU said, check next months FEEDBACK for information on signing up for the W8NP reflector.

The MARC Hamfest was next on the agenda. Gary WC8W talked about the VE Session to be held at the Hamfest, starting time will be 8:00 AM, testing to begin at 9:00AM.

Terry has ordered the extra tables needed. He is also checking into electric power strips needed. A motion was made by Rodger KA8FTS and second by Tim WB8HHP not to exceed \$250.00 for this purchase. A vote was taken and passed.

Check the MARCRADIO.ORG web site, Terry N8ATZ keeps the MARC Hamfest information updated.

Dan N8DZM had the flyers printed and mailed .He also had tickets printed. See him if you want one in advance.

Scott N3JJT will check with the Boy Scouts about helping with the parking of cars. He will also be in charge of Security.

Sarah KC8ZCS and Scott KC8ZCT will help with the MARC club table as Gary WC8W will be doing the VE session.

A vote was taken and passed about the Hamfest Auction. Perry W8AU will get a legal opinion in writing before October 30th.

Thanks goes to Jason KC8LIN, he will be doing mobile check-ins again this year.

### **NEW BUSINESS**

MARC needs someone to do the INFORMATION NET on Friday nights at 8:00 P.M. If you can help please contact Gary WC8W ASAP.

Perry W8AU will be doing a CW practice net on Thursdays at 7:30 PM on 3.560 MHz

Being October we had refreshments of cider and donuts. Igor K8INN then had a brief program.

Congratulations goes to Igor K8INN for winning the 50-50 for \$15.00.

**Minutes by Linda K8MOO**  
**Secretary MARC**

## ... Field Day 2005 Results Are Posted ...

The ARRL has officially released the results of the 2005 ARRL Field Day exercise and while the MARC operating under the club call W8NP did score well, I unhappily report that the Canton Radio Club has once again blown away the Class 2A Category with an outstanding score of 8,676 points on 2,370 QSO's placing them 15th in the overall standings.

The MARC final score was 4,290 points on 973 QSO's placing us in 12th place in Ohio and 97th in overall listings. A disappointment to say the least but it's the effort that really counts and that makes the difference. While the friendly rivalry we have made with the Canton ARC was meant to increase both clubs participation in this important annual event, it's the good times and fellowship shared by our club members along with the skills we develop that make this event what it is. The final score at the end of the day doesn't change the outcome, we still had a great time at this years Field Day exercise and look forward to next years event.

Keeping with tradition, the MARC will again attend the CARC's Annual Dinner in January to congratulate the victors and again award the coveted Field Day Trophy to the CARC. Wait till next year guys !

## MARC Listed In Massillon Community Guide

Did you know that the MARC is listed in the 2005 – 2006 Edition of the Greater Massillon Community Guide ? Produced each year by the staff of the Massillon Independent in cooperation with the Massillon Chamber of Commerce, this guide is distributed to thousands of area residents and is a great reference guide to the many city businesses, services, clubs and lots more. It details just about everything that goes on in the city of Massillon. The radio club is listed in the Volunteer Connection area under Clubs and Organizations in our community. The listing has our meeting details and lists Gary Kline – WC8W as contact person. It's nice to finally be listed in this popular Community Guide.

## .. ARRL Offers New Holiday Gifts ..

Looking for an early holiday gift to give that special ham operator ? The ARRL has announced two new items that would look great in any ham shack. The first is a brand new item, a 2006 ARRL Amateur Radio Calendar. The calendar features ARRL contests and other major ham radio events, moon phases, guides to ARRL services and a nice monthly planner. The cost is only \$12.95 plus shipping & handling.

The second is the release of the annual 2006 ARRL Handbook for Radio Communications. This book is considered the

desk reference for all radio operators and the 80th edition is a tribute to the innovations and advances made by radio amateurs and experimenters. It's \$ 54.95 in hardcover or \$ 39.95 in softcover. As a bonus you will get the handbook on CD Rom and a reproduction of the 1926 ARRL Handbook.

## .. Massillon Holiday Parade Needs Volunteers ..

It's hard to believe that the end of another year is right around the corner and it will soon be time for the club to participate in the 51st Annual Massillon Holiday Parade. This year's event will be held on Saturday, November 19th and is the longest running public service event completely handled by the club.

Sponsored by the Massillon Main Street and the Downtown Massillon Association, our main responsibility is staging the over 100 units that typically make up each years parade as well as providing safety communications, logistical support to parade sponsors and the Massillon Police Department and coordination of the WHS TV Production Control unit. We also expect to again display our Emergency Communications Trailer as a unit in the parade.

Communications coordinator Perry Ballinger – W8AU will soon be looking for volunteers for this years parade and will no doubt have a sign up sheet available at the November meeting. We normally need about 20 volunteers for this event, make sure you sign up to give us a hand at this great local parade.

That's it for now, catch you at the meeting!

**Terry – N8ATZ**



## NREN Training Topic

Walk into the average Emergency Operations Center (EOC) or mobile communications trailer and one is often confronted with an ARES radio installation more suited to DX contesting or casual operating than emergency communications. In some installations, the radio equipment is the focal point of the installation, consuming significant desk space, while at the same time, some basic "traffic handling" tools are often overlooked. Of course, this situation is to be expected as 90 percent or more of our time as radio amateurs is typically spent having fun!

In this week's training topic, we will discuss "key stations," which are typically located at club facilities or served agencies. However, many of the same rules apply when setting up a home station for ARES or traffic-handling work. Likewise, we will discuss a few useful accessories for traffic handling.

What type of radio?

When selecting communications equipment for an EOC or club station, one should select equipment that offers good performance with a minimum number of "bells and whistles." For example, in the case of a High Frequency radio, features that are advantageous for the DX contester are often of little value for the public service communicator. In most emergencies, one places a transceiver on a particular frequency for long periods of time. It is unlikely one will require the use of multiple VFOs for split operation, spectral displays, and the like! Furthermore, newer radios, with complex "menu-driven" controls are difficult to master in a short period of time. As such, operators arriving from outside the area to assist or even local operators who may use the radio only a few times a year during drills or exercises, may find it difficult to learn or "relearn" a complex menu structure.

For High Frequency communications, a basic radio, with volume, a simple VFO and a few filters is usually sufficient for reliable communications. VHF radios should likewise be simple. It is often best to program local and surrounding ARES frequencies into the memory so that all one has to do is rotate the knob until the desired repeater frequency appears. Therefore, when selecting radios for an EOC or similar facility, select a simple, reliable unit that is easy to master with just a few minutes briefing-time.

Dual band radios are often encountered in the field. However, a single "dual band" radio is not recommended. A failure involving a key component can result in both bands being unavailable at the location. However, when two dual band radios are present, they offer some limited redundancy by insuring both VHF and UHF are available on site. Ultimately, the basic rule is to select simple, reliable radios that are easy to master with just a few minutes briefing-time.

## Radio Placement

Unlike chasing DX, the primary activity of a traffic handler or emergency communicator is the management of information. As such, adjusting the radio is not the focal point of one's activity. Desk space must be available for logs, message forms, and the like. Radio gear can be placed above the writing/work surface using mobile mount brackets or a solid shelf. In the case of mobile command posts and similar facilities, all equipment must be solidly secured to withstand an emergency stop or sharp maneuvers that may occur when avoiding accidents.

When possible, it is best to separate voice positions with digital or CW positions in the radio room. This prevents voice operators from slowly and subconsciously increasing the volume and "talk level" as they compensate for ambient noise. All operators, voice or CW should have headphones available.

A CW station should always have a straight key available, as well as a few adapters, which permit operators to bring a favorite "bug" or personal paddles/keyer from the outside.

## Computers and Peripherals

The computer is an integral part of many modern communications centers, whether as part of a digital communications system or a simple administrative tool for transcribing messages and keeping radio logs. Regardless of the computer application, it is important to remember these basic rules:

1. Software should be simple and standardized. ARES groups throughout a Section or region should attempt to standardize software so that most operators are at least minimally familiar with a particular application. This again minimizes the "learning curve" for operators arriving on-scene.
2. A computer is worthless without a printer. As mentioned in an earlier training topic, public safety officials do not have time to linger over an amateur's shoulder trying to read a packet radio message before it scrolls away on screen. Be sure to have extra paper, printer cartridges and the like on-hand. A "generic" printer driver should be resident on the computer hard-drive so that any available printer can be pressed into service for basic text printing in the event of a primary printer failure.
3. Be sure the computer has a floppy disk drive and CD-ROM drive, which permits served agency officials to prepare a document on their own lap-top and then provide it to you on disk for up-load and transmission to a nearby facility.

## Message Forms

The beginning traffic handler will likely use the yellow "radiogram" forms extensively for traffic work. These are an excellent first choice because

they walk one through the process of constructing the message. However, for the experienced traffic handler, who is intimately familiar with radiogram format, other options exist.

A favorite is the Adams "Rapid Memo" pad stock number SC-1158. These pads, available at Office Max and similar retail outlets provide a carbonless form perfect for emergency use in the field. The top form can be removed for delivery to an official, whereas the bottom "yellow" form allows one to retain a carbon-copy of all messages handled. The form is set up with "text boxes," the top box can contain the service information, a "To" box contains the address, and a single large text box is available for the text and signature. The cost for a pad of 50 is less than seven dollars, and the booklets containing the message forms are small enough to be placed in a small "go-kit" or portable station case, making them ideal for portable operations.

When a computer and printer or a typewriter is available for transcribing messages, one may wish to consider the use of QMN Form 9701, downloadable from the NREN page. One can change the header to reflect the name of your local net or ARES group. Either way, this form allows one to place a blank form in a computer printer and print a neat copy of a message for delivery to a served agency either directly or via FAX.

#### Tally Counter

A useful tool for fixed or portable operation is the "tally counter." This is a small device that allows one to keep track of outgoing message serial number simply by pressing a button each time a message is drafted.

Two simple versions are available from the "Ben Meadows" Company ([www.benmeadows.com](http://www.benmeadows.com)). These are the desk-mount version, stock number 102996, and the hand-held version, 102954. Cost is approximately 12 dollars each. By the way, the Ben Meadows company, while catering primarily to the Forestry and Natural Resources community has a wide variety of items that may prove useful to the emergency communicator, ranging from arborists "throw bags" for tossing antenna line over tall tree limbs to back packs designed for GPS and surveying that are ideally suited for use in man-pack communications configurations. Best of all, their customer service is outstanding!

#### Printed accessories

The NREN Web Page has a variety of downloadable forms available. As mentioned before, the QMN form 9701 can be printed or used as a template for the printing of messages for hand delivery or facsimile transmission to a served agency. The Form 9805 radio log, "borrowed" from the Air Force, offers a simple, easily duplicated format for keeping an accurate radio log. The ARRL also offers some useful forms, such as the FSD-244 Disaster Welfare Message Form, the FSD-212 "Pink Card," and similar items.

Be sure to have a variety of these available for use in time of emergency.

#### Delivery Options

Today, served agencies use FAX machines, the Internet, and similar facilities as part of doing business. As such, the delivery of messages via these methods is considered both desirable and normal. These resources, when available in a key station or shack permit one to deliver neat, printed messages to a served agency. Just make sure they are told to expect the delivery via these methods. Otherwise, you may find out your message sat unread on a fax machine's output tray for a couple of days until long after the emergency situation passed!

#### Review and Preparedness Steps

1. When selecting communications equipment for a key station, select simple, reliable equipment that is easy to use and master in a short time.
2. Place radio gear above or adjacent to your work area. Work areas should be open for handling paper work, radio logs, and message forms.
3. Address issues of ambient noise. Separate voice positions with digital or CW positions. Provide "cans" (headphones) for operators.
4. Make sure adequate message forms are available. Use the option best suited to the circumstance. Portable operators may wish to use simple carbonless two-part pads, which are ideally suited to field deployment. Fixed stations may wish to use forms suitable for insertion in a mill (typewriter) or computer printer.
5. In the case of a key station or even a well-equipped home station, give some thought to alternate methods of delivery, such as FAX and e-mail delivery. These are part of the modern business environment and serve to improve accuracy and eliminate misunderstanding in the delivery process.

#### A final thought!

Remember that the quality of customer service is more important than the technology. Most public safety and relief agency officials care little about how you send or receive their traffic. Rather, they care about how well you send and receive their traffic. When an operator is well trained and messages arrive in a neat, timely, and consistent manner with all of the required information, Amateur Radio will be valued and highly sought-after. From the perspective of a served agency, we are first and foremost, a service, and not a conglomeration of technologies.

**WB8SIW**

(article submitted by Perry, W8AU)

## A note from Don, W8DEA

From: "Don Wade" <w8dea1@juno.com>

Date: Sunday, October 09, 2005 4:27 PM

Hi Gary,

I am still in Alabama working with FEMA helping applicants sign up for relief and assistance. Finding food water and shelter the first few weeks. Shelter is still a big problem and more so after Hurricane RITA also went thru. The local churches have been the most helpfull in my area with shelters, food(3 meals aday), and clothing for those that have lost everything. Many items donated from Kansas from a sister city to Foley,Al. we give out to the families that are really hurting. Small stuffed toys really brighted the day for the children of families with nothing at all left. This has been a different type of need from the hurricanes of last year. Much more dangerous and devastating .Many still cant even get back to their homes or have a crefew and drive 5-6 hours one way to work on whats left of their homes and have to leave again by 6 pm when they can get in.

I hate to say this but major areas have had as heavy damage or more as New Orleans and are NOT being given the help because they are not in spotlight of the politicians or the MEDIA. Because of that our hands are tied in helping some of these families. On top of all this is the Fraud going on. I have even had a case of fraud come thru our office here and the FBI and Federal Marshalls are after these folks. They(FBI) have been in the office checking up the past days.

Then you have the "rich" folks that thinks the government owes them everything and a few them will have to have some of it RECOUPED. Many folks that filed on line ,had the computer program give them 2 ID numbers even when they got dropped out half way thru the 7 pages it takes to register so they were DUPED and we had to straighten this out before any benefits could be given to them and this is still an ongoing problem.

I just got my laptop working on wireless from my room today(10/9) but will probably be moved to another location soon. I had to get Tetsus and Hepitisis ? shots before moving on which I had both now.

Sorry I cant be there for the HAMFEST this year.

Havent come across many hams other than RC workers passing thru or one or two displaced persons. I have worked with several Coast Guard Comm. Officers from Wash. DC on temporary duty assigned to our office here.

Well Thats all for now, Gary

**Don Wade, W8DEA**

## Tectopics: 20

### Writing, Three Wire Dipoles Or

### Where Do I Find Six Hundred Ohm Coax?

By the time you read this, summer memories will have faded into the purple haze of late fall, and if you've been following the adventures of the staff over at the Big KXR, you'll note this is the twentieth installments of the Tectopics Saga.

I don't remember exactly when I started this mini writing exercise, but I'm sure some old dog will do the research and remind me of the start of this excursion into writing about one of my favorite activities; a bit of spoofing, a touch of technical plausibility, all in good fun.

So, here we are again, another winter of operations, building, experimenting, hot coffee, and of course; yummy "Sticky Buns" from Missy Marilyn's galley, during op sessions with the 160 meter gang, or on six meters until the midnight hour. It is with excitement and anticipation that the KXR staff (Me and Missy Marilyn, of Sticky Bunn Fame, and hot chocolate too) looks forward to many hours on the air and at the workbench this winter.

But, what of summer past you ask? What happened over there at the Big KXR during those Dog Days of summer? Give us the word, Genial Gene, something to inspire, to assure us all is well, and the spirit and flavor of real radio is alive in that bastion of electronic heavy weights.

Well, fear not Ham Boys and Girls, all is well, and then some! For the faithful, recall there was word just a few short months ago of a 'three wire dipole' design working its way through the KXR Development Lab. Those geeky engineer types have not been wasting their time and this beauty, cut for 40 meters, is in the air at about 30 feet. With only the feed line yet to be routed to the shack via a remote manual switching system, it is a truly fantastic sight to behold!

Recall, all wire antennas at the Big KXR use 600-ohm feeders...sometimes referred to as balanced line, or

other arcane descriptions meaning parallel wires separated by six inch insulating spacers. All feed lines are constructed of number ten-stranded copper, and yes it is heavier than the usual Ham construction...but none built with this construction have ever come down in an Ohio winter (err...heavy frost as us Buffalo Boys regard the Weenie Winters here in Ohio).

But what's up with the "Three Wire" thing Genial Gene? Never heard of that...it's a waste of good copper, right? Well, maybe and maybe not...If you do a bit of reading, multiple wire dipoles were often used in the 'early days' with objectives being ease of feeding from typically balanced transmitter tank output systems of the day.

Another feature of the 'folded dipole' using two wires for the flat top, and using coax feed line, one might expect to see some degree of 'broad banding.' Look up the design in any ARRL handbook.... But, what about a three wire flat top? What's the point Mr. Smarty Pants Engineer?

Well, according to the literature...(that means, reference books for Ham Boys not used to reading stuff), additional wire added to the flattop may further increase the broadband properties of any standard dipole, and perhaps improve matching to the feed line. Some classic designs used four and more wires referred to as cages in some cases. Each time you add a wire however, the center feed point impedance changes too, so not all designs are good matches for typically available modern coax.

In the case of a three wire folded dipole, the feed point impedance is very close to 600 ohms. Not much coax available for that impedance, but wow, it's theoretically the perfect way to feed such an antenna at the Big KXR with its highly efficient 600 ohm tuned feed systems! You too can enjoy these benefits, by using a balanced tuner, and prepping some super efficient feed line.

But, here is a question.... and maybe you've already figured the rest of this story.... that is, if you're a true Ham Boy! In the bad old classic days of the Gray Beards, when CW reigned as king, most antennas were fed with single, or balanced feeders.... not coax.... ship board stuff, and heavy commercial stations of early design used transmitters with

balanced outputs...and so...there was no concern about SWR.

Yes, standing waves are present, really big ones! What gives, you ask? Low ohmic loss of the balanced feed line produces minimal power (heating) loss. The whole system was inherently broad banded because the whole system, including the feeder could be made to resonate with a proper tuning system. Yes, believe, and weep...SWR was not always the issue it is today, when using coaxial feeders.

The hyper hysteria with SWR comes only with the modern convenience of coax fed antennas that work from very specific 50-ohm outputs to antennas that look like something close to 50 ohms at their feed point. If one experiments with the basic folded dipole and coax feed, perhaps some additional SWR improvement can be seen, i.e., some broad banding. Your homework is to check 'the literature' for which coax might be used with a folded dipole? Gosh, you could even build one and do the checks your self! Imagine!

So, to the original question...what's the point of experimenting with a 'three-wire' dipole? Seems like a bloody lot of work you say, a waste of the highly stressed and exhausted engineering staff resources over at the KXR Development Lab.

Answers are simple and several: First, and perhaps most important; such experimentation is the heart and soul of Amateur Radio. If you are not willing to try something out for your self, then you are missing the essence of our hobby and

should try a new one, like collecting used drinking straws, or staying out of your own way (just kidding, staying out of my own way is a real problem at times). Seriously, you'll never savor the flavor and excitement of discovery on your own; and worse, you'll never have anything of substance to talk about on the air! When is the last time you heard anyone talking about real radio on the air, or at a club meeting, or anywhere?

Next, in the case of the three-wire dipole experiment...I don't know anyone locally who has done this. So, whether the system works or not, I will have had the fun and experience of trying it myself,

and of course have something to talk (write about) about beyond the usual, “check me in and check me out” mentality so common, and pointless, on some of our bands these days.

This antenna is also providing an experimental way to compare signals on forty meters to the east west oriented Inverted V, which is oriented 45 degrees to the dipole. This should be fun, especially for signals into the northwest, where propagation into Wisconsin, and Michigan, is like a pipeline on the V...but, with fewer strong sigs to the southeast? Why is that? Also, this antenna will be tied to a kilowatt SSB station dedicated to the Maritime Mobile Net on 20 meters from Area 53 at the Big KXR.

Other projects completed this summer included: painting the tower, calibrating the tri-bander and six meter beams against true north...burying coax and rotor control cables, installing a six meter vertical, and yes, using AM phone. Also completed a classic AM station with all KXR designed controls ready for operating a beautiful NC183D and HT 20. A Knight TR-106 was rebuilt and is operational on six A.M. several nights a week on 50.4 where there is a genial gathering of real Ham Boys.

Summer projects in progress include a 2-meter converter for a commercial grade receiver – Hammerlund SP 600 paired with an Ameco 6N2 xmtr. In spite of being down in attendance the Fests this year, produced a great haul of parts for these projects, nifty stuff there for the finding...

There was one other major project too...a full-length novel is finished, and undergoing final formatting, a totally enjoyable challenge. So, the project list was long, the summer fantastic, and progress satisfactory...well, almost...

The Staff at the Big KXR is looking forward to growing and refining the Mega Station as the magic of winter months takes us out of the antenna farm and into the lab. Marilyn and I hope you too have had an exciting and productive summer, and that you have great plans for your station too.

By dreaming, planning, and putting your hands on some experiments, no matter how humble, you can take great pride and satisfaction in knowing you are truly a part of and personally savoring a uniquely American heritage.

From The Engineering And Assembly Crew in The Antenna Farm,

**DE W8KXR**

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## HAMFEST STATISTICS

Here are some interesting statistics for our hamfest.. Every year since 1993 I have been collecting the addresses off the ticket stubs to use for our flier mailing each year for the hamfest.. Don't worry this information is only used for our mailing only. This information has never been given (or sold, loaned, donated, or any other way) to anyone else or every will be. That said here are some attendance figures. These numbers are based on figures from 1993 to 2004, 2005's have not been entered yet.

2122 total different persons from 1993 to 2005  
 598 last year (2004) attendance  
 752 our record year of 1996 (moved to Fairgrounds)  
 22 people that have attended every year since 1993  
 606 total non-hams for all years (29%)  
 109 non-hams last year (18%)

**73s Dan**

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## VETERANS DAY NOVEMBER 11th



# November 2005

## W8NP Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																																																						
		1 BD KC8IHR	2	3 Massillon Radio Net - CW and Traffic Handling Training, Freq - 3650 @ 2000	4 Massillon ARC Meeting, Massillon Senior Center, 8:00pm	5 ARRL CW Sweepstakes																																																																																																																						
6 ARRL CW Sweepstakes BD N8LCS	7	8 Election Day	9	10 Massillon Radio Net - CW and Traffic Handling Training, Freq - 3650 @ 2000	11 Veterans Day West Stark Info Net - 147.180 at 8:00 PM	12																																																																																																																						
13	14	15	16	17 BD KC8KIX BD WA8NZE Massillon Radio Net - CW and Traffic Handling Training, Freq - 3650 @ 2000	18 West Stark Info Net - 147.180 at 8:00 PM	19 BD N8GXO BD N8UDL Indiana State Convention, Ft. Wayne, Ctc 260-489-6700 Massillon Holiday Parade																																																																																																																						
20 Indiana State Convention, Allen County AR Technical Society, Contact 260-489-6700	21	22	23	24 Massillon Radio Net - CW and Traffic Handling Training, Freq - 3650 @ 2000  Thanksgiving	25 West Stark Info Net - 147.180 at 8:00 PM	26 BD W8PUC																																																																																																																						
27 VE Test Session, Warren ARA, 1900, Ctc.: William Showers, 330-872-1929, Newton Falls Community Center, Newton Falls	28	29	30	<table style="margin: auto; border-collapse: collapse;"> <tr> <th colspan="7" style="border: none;">Oct 2005</th> <th colspan="7" style="border: none;">Dec 2005</th> </tr> <tr> <th style="border: none;">S</th><th style="border: none;">M</th><th style="border: none;">T</th><th style="border: none;">W</th><th style="border: none;">T</th><th style="border: none;">F</th><th style="border: none;">S</th> <th style="border: none;">S</th><th style="border: none;">M</th><th style="border: none;">T</th><th style="border: none;">W</th><th style="border: none;">T</th><th style="border: none;">F</th><th style="border: none;">S</th> </tr> <tr> <td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none; text-align: center;">1</td> <td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none;"></td><td style="border: none; 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Please contact K8INN for updates, changes, or additions.