

K9MCE Officers:

- President: Mark Lewis, KD9EFO
- Vice-President: John Nalezyty, KD8KVO
- Secretary: Mark Kerhlikar, WD9HBF
- Treasurer: Tim Coonrod, KC9HQA
- Trustee: Skp Riba, WS9V
- Board of Directors:
- Mark Osborn, WA9SXK
- Bill Ogle, W9FJ
- Jim Pitchford, N9LQF
- Ron Ochu, KO0Z
- Webmaster: Isaac Pizzo, WX9SRV

Macoupin County ARC 129 East First Street PO Box 253 Carlinville, IL 62626-0253

Inside this issue:

Club Christmas 3 Party

FD Results! 4

Beaver Dam Dash 4 &

Last Scout Stand- 4 & ing 7

IDEN Node 5

Homebrew Night 5

SSB Net Forming 8

K9MCE QSN

Volume 6, Issue 12

December 2018

K9MCE Club Meeting on Wednesday 5 December



Carlinville square decked out for the holidays!

Mark your calendars now and plan on attending this month's meeting of the Macoupin County Amateur Radio Club at 7:00 pm on Wednesday, December 5th.

We will be gathering at Reno's Restaurant in the Carlinville Square for our annual Christmas Party! Happy hour begins at 5:30 pm and dinner at 6:00 pm.



Page 2 K9MCE QSN

K9MCE TRY GRIDS HONOR ROLL

Try Grids Certificate Of Achievement

This certificate is awarded to

Your name Your Call



In recognition of making two way communications using VHF/UHF simplex frequencies with three grid



Date

"These club
members earned
the Try Grids
Award and are
Honor Roll
members."

Wayne, KC9ZYQ is in EM58 and Dirk, W9OSI is in EM49 and these gentlemen are available for VHF skeds for those working for the Try Grids Award



HONOR ROLL MEMBERS:

Jim Pitchford, N9LQF
Mark Kerhlikar, WD9HBF
Jeff Naville, KC9WZO
Paul Durand, KC9YCP
Ed Kallbrier, KC9QHJ
Bill Ogle, W9FJ
Skip Riba, WS9V
Mark Lewis, KD9EFO
Lou Bartels, KC9YFU
Debbie Ochu, KC9ULA

Dave Reynolds, WA9OEX Judy Reynolds, KA9ACM Ron Ochu, KO0Z

The K9MCE Try Grids Award was established two years ago to encourage Macoupin County ARC club members to experience the joys of VHF/UHF communications. Members are encouraged to learn more about VHF/UHF propagation, antennas and coax and to im-

prove their stations. Towards that end the award was created and the goal is to successfully establish two-way VHF/UHF contacts either from your QTH or mobile with amateurs in three grids. More information pertaining to grids can be found at this ARRL

webpage: http://www.arrl.org/grid-squares QSL cards confirming the Qs need to be presented to the committee and then you, too, will be eligible for this prestigious accolade at a club meeting and to have your call inscribed in the

Macoupin County ARC Mission Statement:

We, the undersigned, being desirous of securing for ourselves the pleasures and benefits of the association of persons commonly interested in Amateur Radio, by promoting civic interest, specific application, social activities and developing individual efficiency, while improving the general interest in amateur radio, do ordain and establish this Constitution and By-Laws of the Macoupin County Amateur Radio Club Inc., a non-profit corporation. We do further agree that in pursuit of these purposes, this organization shall be non-sectarian, non-partisan and that it shall lend neither support or influence to any political party or candidate for office. The Macoupin County Amateur Radio Club, Inc., shall afford all persons, regardless of race or creed an equal opportunity to join, participate, hold office and enjoy in the benefits of this organization and the challenges of amateur radio.

WS9V Presents at November Meeting

Members in attendance at the November club meeting were treated to a very informative presentation over low-band receiving antennas such as beverages, bogs and loops by Skip WS9V.

Skip has extensive experience with these antenna systems and he is very active on 160 and 80 meters with a number of countries worked and confirmed on the low bands!

Skip told the audience that beverage antennas are the best for low-band work, but they do require a lot of real-estate. WS9V is able to use the farm field behind his QTH for his beverages after harvest and before planting season resumes.

BOGs (beverage on the ground) are the next best antenna for low-band work. 200 feet seems to be optimum for this antenna.

4 square loops are another good choice for a low-band DXer as are directional loops such as the K9AY, Flagg and Pennant antennas.

Skip described a diamond loop that he used for a number of years before going to beverages. It's not hard to make and it does a very reasonable job and a simple TV rotator will turn it towards a desired direction.

Skip is checking into procuring the parts (at cost) to get a club antenna project going. There is a lot of interest in building this antenna. Skip estimates the cost to be in the \$30.00 range.

An antenna similar to WS9V's can be found on page 12 for illustration purposes.



WS9V presenting on antennas.
WD9HBF Photo

Club Christmas Party at Reno's Pizzeria

Wednesday, December 5 will be the annual club Christmas party instead of the monthly club meeting. At the November meeting, club members voted to have the Christmas party at Reno's Pizzeria. Happy hour will begin at 5:30 pm and dinner at 6:00 pm.

Reno is providing a back room to the club at no cost and he will provide the banquet which will consist of Chicken Marsala, Italian Pork Chops, Italian Salad, Spinach Lasagna, Fettuccine Alfredo, Dinner rolls and Tiramisu dessert! Best of all, the club is picking up the tab for current club members!

Entertainment will be provided by our special guests from the Okaw Valley ARC, AD9OV. They will be returning the Field Day Traveling Trophy to Macoupin County!

See you at the party!



"K9MCE will
cover the
banquet costs for
club
members...Merry
Christmas!"

Your ARRL Central Division Contacts:

Director: Kermit Carlson; w9xa@arrl.org 630-879-0983

Vice Director: Carl Luetzelschwab, K9LA, k9la@arrl.org; 260-

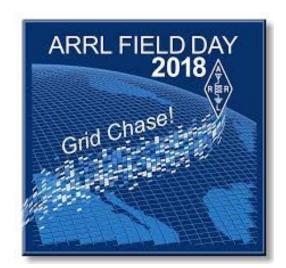
637-6988

Illinois Section Manager: Ron Morgan, AD91,

AD9I@comcast.net



Page 4 K9MCE QSN



Who's Your Daddy?

Field Day 2017 taught K9MCE members not to underestimate Murphy. That year we were plagued with many obstacles. In spite of those set-backs, club members worked through them, stayed on the air and managed a respectable score. Our score wasn't good enough to overcome the Okaw Valley ARC, AD9OV juggernaut and the traveling FD trophy returned to Greenville.

2018 will be another year. FD chairman, Mark WD9H

FD chairman, Mark WD9HBF again took the reins, forgetting that he vowed never to do this

again, but this time we came to FD loaded for bear. We girded our radio loins, put on war paint and set about the task of not being daunted. It helps when there's dedicated FD K9MCE club members to operate. We had two stations running for most of the twenty-four hours and three operating a good part of the time. We operated phone, FT8 and CW.

K9MCE: 4,344 points!

AD9OV: 2,566 points

Trophy returns to Carlinville! We your daddy!

Beaver Dam Dashing Through The Snow

"Dash organizer

Matt Dunn is

very appreciative

of K9MCE's

support."

K9MCE has provided communications support for the Metro Tri-Club runners for the past four years. Each year, we were blessed with fantastic, fall weather and temperatures except for this year.

Old Man Winter visited a day before the dash and deposited approximately 2 inches of snow. The morning of the dash, Saturday, November 10 began with 18 degrees F and dash time was postponed one hour until 10:00 am. The temp was now a balmy 20 F. This year, Chuck Baker, N9LVY performed net control and he did an excellent job. Four com positions were filled: Com I, Jared KC9ZMD, Com 2: unfilled, Com 3: Debbie KC9ULA, Com 4: Ron KO0Z, Com 5: Jim N9LQF and Com 6: Nolan KA9VKC from the Lewis and Clark club.

In past years we've had a field of a few hundred dashers. This

year about 60 dashers participated in the 5K and 10 K dash. Fortunately, there were no cold related injuries, but we were ready to provide race officials with emergency communications if necessary.

The dash was over before noon (two hours) and we grabbed a bite to eat at Full Throttle. Dash organizer Matt Dunn is very appreciative of K9MCE's support. Pictures appear on page 6.

Last Scout Standing



Saturday, November 3 all the planning, all the preparation, all the sweat and all loose ends were coming together to present area scouts with "Last Scout Standing."

"Last Scout Standing" challenges experienced, senior boy scouts with eleven challenges. K9MCE club members, Jim N9LQF, Mark WD9HBF and Ron KO0Z offered their time and resources to make this event memorable for the

scouts. Jim N9LQF was involved with the event's inception. Mark WD9HBF provided "Howling Acres" woods for the scouts to camp and to build rope bridges and Ron KO0Z provided scouts with a DF (direction finding) and Morse code challenge. Scouts started off Saturday morning, bright and early. These young men are go-getters!

The first team of scouts (4 to a team), 8 teams arrived at Ron's

station mid-morning. Ron had hidden a 2 meter transmitter and scouts needed to locate it to get a password that would allow them proceed to the Morse Code challenge. Scouts used flashlights to send half of a scrambled message and their team mates sent the other half. Unscrambling the messages told them of their next challenge which was to paddle their canoes northward in Otter Lake to Howling Acres and WD9HBF. Pictures on page 7.

Macoupin IDEN Node Arriving Soon

IDEN (Illinois Digital Emergency Network) exists to offer radio amateurs another tool to pass emergency traffic back and forth to IL EMA officials. IDEN is a wireless backbone system that is independent of the internet; however, it does have internet accessibility through "gateway stations." IDEN operates statewide on 145.610 MHz using packets (AX.25).

Carlos W9FE has a gateway station that is internet accessible and is part of the IDEN network. W9FE's IDEN VHF signal covers southern Macoupin and northern Madison county on 2 meters. Central and northern Macoupin county could use an IDEN 2 meter

Arrangements have been made with the county to use the 911 tower north of Carlinville to put the node. WS9V is coordinating the placement of a repurposed, 100 watt, state police VHF radio combined with a raspberry pi computer and TNC (terminal node controller) with internet capability

with county officials. The omni-directional antenna will be located at 180 feet and it should provide excellent coverage county wide and with adjacent counties.

Packet protocol uses FM and to the casual listener, packet sounds like a quick burst with a "burrupt" sound.

The new IDEN node will have the club's callsign, K9MCE with an identifier after it; such as K9MCE-10. This tool should greatly aid digital emergency communications.



Director Kermit Carlson W9XA Reelected

ARRL Central Division Director Kermit Carlson W9XA was declared reelected on Friday, November 16th.

Kermit was challenged by Valerie Hotzfeld NV9L.

W9XZ received 1898 votes and NV9L received 1755 votes.

Illinois, Indiana and Wisconsin comprise the ARRL's Central Division.

W9XA will be serving a three-

year term as our voice at ARRL HQ.

Carl Luetzelschwab K9LA was unopposed as vice-director and he is declared reelected.



"Kermit Carlson
W9XA reelected
as ARRL Central
Division
Director."

Homebrew Night Returning to K9MCE



Club members voted at November's meeting to bring back K9MCE Homebrew Night. No, homebrew night is NOT making reference to homemade liquor. Rather, it is a Do-lt Yourself (DIY) term for building your own ham radio equipment. The club is talking about offering prizes in the following categories: Transmitter-receiver-transceiver; antennas and station accessories. Station accessories include items such as Morse code keyers, TR switches, power supplies, etc.

Although "homebrew" implies made from scratch, kits are acceptable for homebrew night. A date and details haven't been worked out, but this event is certainly at least two months away which is plenty of time to select a homebrew project, get the soldering iron hot, and melt some solder!

Stay tuned for more details!

Page 6 K9MCE QSN

Beaver Dam Dash 2018





Debbie KC9ULA and Kippy Com 3





Above: Com plan map. Below: Kippy on watch Com 3







Chuck N9LVY (net control) in car and Nolan K49VKC standing.





Ron KO0Z, Debbie KC9ULA, Nolan KA9VKC, Jared KC9ZMD, Jim N9LQF and Chuck N9LVY.



Old Man Winter provided snow and 18 F temps for the dashers this year.

"Last Scout Standing 2018"





Left picture: Jeromy WV9L shows Tim video from his drone hovering over the various scout teams.

Right picture: The first scout team arrives at Challenge 5 (Morse code and DF).





Middle left picture: HTs used to find the fox and flashlights for to send
Morse coded messages.
Middle right picture:
Scouts are sending Morse code messages back and forth between the park benches.





Left: Scouts decoding the message.

N9LQF keeping warm with hot, fresh coffee.





Another scout team decoding the message.

Scouts on to Challenge 6 which is canoeing up Otter Lake



Page 8 K9MCE QSN

Weekly 2 Meter SSB Net Formed

Last month after the weekly Thursday ARES Net, Mark KD9EFO wanted to test out his Yaesu FT 857 on two meter SSB. In between the ARES net and the K9MCE weekly net, Mark, Dave, Ron and Tony met on two meter sideband. It was so much fun that the group decided to form a weekly 2 meter sked/net on Thursday evenings at 7:30 pm local time on 144.200.

Although 144.200 is the national 2 meter calling frequency, this time of year there isn't a lot of activity and the group felt that as the saying goes, "make some noise, others may join us!" If needed, we will gladly QSY up or down the band.

Everyone is invited to participate. Most of us will be horizontally polarized and there's a loss of 20 dB operating cross polarization, but if a vertical antenna is your only antenna, by all means, give the sked a try. Who knows, someone may just hear you. Relays are FB!



2 meter SSB Sked

Thursday evenings at 7:30

144.200 USB



A homebrew, plumber's delight 2 meter loop antenna.

K9MCE QSL Cards Ordered

Hopefully, by the Christmas party, KOOZ will be delivering the club QSL cards. The new cards are on good cardboard stock and in full color. The front of the QSL depicts the club's logo and the backside has all the pertinent QSL information along with a color photo of the Macoupin County Courthouse.

1000 cards were ordered for a total cost of \$120.00 from the QSL shop. These are high quality QSL cards which members can be proud of when QSLing.

SkyWarn Training January 22, 2019

Tuesday, January 22, 7:00 pm, Blackburn College Auditorium, NWS Storm Spotter Training. Free admission.

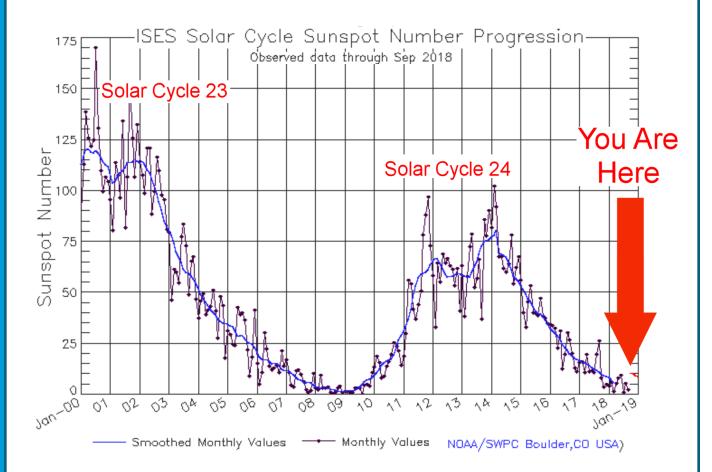




Happy Holidays

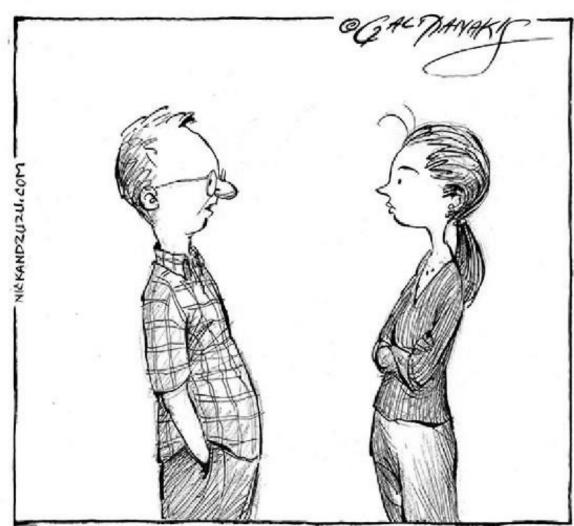
Page 10 K9MCE QSN

Solar Cycle 24, Where are You?



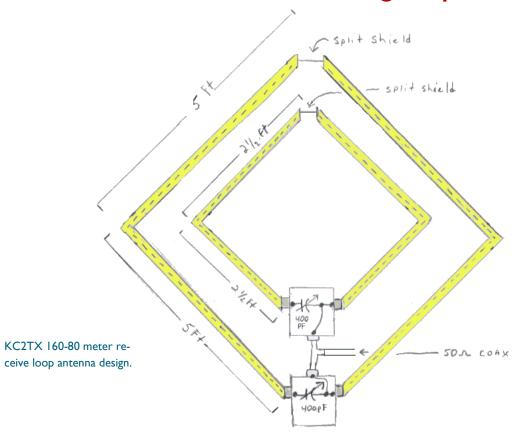
At the November club meeting, Skip WS9V gave a great, informative presentation over low-band (160-80 meter) antennas. Hams in the know, know that we're bottoming out in our current II year solar cycle # 24. This means that Earth's ionosphere won't be as ionized due to reduced solar UV and X-ray activity. Consequently the MUF (maximum useable frequency) decreases resulting in fewer long distance openings on the higher bands such as 10, 12 and 15 meters. 20 meters is still active, but it will open later and close earlier to North America. 30, 40, 80 and 160 meters now become the work-horse bands. Especially, so during the fall and winter months because thunderstorm static is minimal in the northern hemisphere.

The big question facing solar pundits is how long will it take for Cycle 25 to start and begin to ramp up? Cycle 23 ended and it took 3 years before our current Cycle 24 began to ramp up. Even longer, if you look at the Sunspot Numbers. 10 meters will stay open almost every day when the smoothed sunspot numbers reach 100 or higher. Below 100 ten meters is open, but not for as long. In other words, we have a ways to go before 10 and 15 meter activity will become daily, workhorse bands again.



"How can I possibly annoy you by disappearing into my radio shack for hours on end?" Page 12 K9MCE QSN

160-80 Meter Receiving Loop Antenna

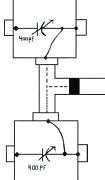


At the November meeting, Skip WS9V gave a very informative presentation over Beverage, Bog and Loop low-band receiving antennas. Club members are interested in building a low-band receive loop as a club project. Skip is looking into procuring the parts and coax, at cost, for the club project. Chuck N9LVY is looking for a heated work area for club members to assemble once the loop parts are procured.

Here is a website description of an antenna similar to what Skip presented at the club meeting.

To construct the 160m loop you'll need 20ft on RG-59. Fold the RG-59 in half. On the 160m loop would be about 10ft from the end. On the 80m loop, it would be about 5 ft. from the end. You mark the center, then measure 1/2 an inch on both sides. Strip away the outer cable, the braid

To construct the 160m loop you'll need 20ft on RG-59. Fold the RG-59 in half. On the 160m loop, it would be about 10ft from the end. On the 80m loop, it would be about 5 ft. from the end. You then mark the center, then measure 1/2 an inch on both sides. Strip away the outer cable, the braid, and then the foil covering the center conductor insulation. I then usually use heat strink to weatherproof what I've cut away. Then cut some schedule 40 one inch pvc pipe into 3 lengths. Each should be 45 inches long. Cut one to 56 inches. That one will be the mast. Assemble the lengths you cut into a "T" configuration. Measure from the center 43 1/4 inches on the three 45inch lengths. Drill a hole large enough to pass through the RG-59. For the 80m loop. Drill three holes 20 1/2 inches measured from the center of the "T". Loop the 20ft RG-59 through the holes drilled at 43 1/4 inches, then loop the 10ft length through the holes drilled at 20 1/2 inches. Install the male type "f" and weather boots on the RG-59 you just looped through the "T". Attach the 20ft cable to the 160m matching box. Also do the same with the 80m box. I find it easier to aim the 160m box with the SO-239 down. And the 80m box with the SO-239 up. That way the it will keep the harness short. Drill the mounting holes through the box, once you pull the loop tight. To tune the loops, attach each loop separately to your transceiver. DO NOT APPLY RF TO THE LOOP. This will damage the components, and probably your transceiver. Place the dial of your transceiver to the part of the band you want to use the loop on. Then adjust the trimmer capacitor for maximum noise. Do this for both loops. Then attach the harness. The loops should be ready for use. I usually weatherproof the boxes and frame. And I add a wood dowling to strengthen the mast.





The St. Louis and Suburban Radio Club

Winterfest 2019

January 26, 2019 at the Gateway Convention Center, One Gateway Drive, Collinsville, Il 62234.

We are announcing that advance tickets are now available for purchase online at the SLSRC Store. Save \$2.00 by purchasing them online, in advance. To purchase tickets/tables visit http://www.slsrc.org/shop/.

Prizes for 2019 include:

Grand Prize \$500

 Ist Prize
 \$300

 2nd Prize
 \$200

 3rd Prize
 \$100

New for 2019 (See Winterfest website for more details):

Forum Speaker is Richard George, KD4CAE - on AUXCOMM and Amateur Radio Winterfest will continue to have VE testing at 8:00am, courtesy of the Cliff Cave Testing Team.

Additional Information:

Tables and tickets: http://www.slsrc.org/shop/
Information: http://winterfest.slsrc.org/
Contact us: winterfest@slsrc.org

-or-

Rebecca Carroll, KC9CIJ

Page 14 K9MCE QSN





Dave O'Dell LUTCF 145 E. Jackson St., Virden, IL 62690 217-965-5888 Annuities, Auto, Financial Planning, Home. Life & Mutual Funds

Longtime supporter of the West Central Illinois Hamfest!

K9MCE QSN Contact Information:

K9MCE QSN is a monthly publication of the Macoupin County Amateur Radio Club. Our club meets on the first Wednesday of the month at 7:00 pm on the second floor of the Macoupin County Sheriff Department in Carlinville, IL

Editor: Ron Ochu, KO0Z. ronochu.sky@gmail.com Repeaters: 444.250 (103.5 pl); 146.865 (103.5 pl).

Website: www.k9mce.org

Webmaster: Isaac Pizzo, WX9SRV

Testing: Lou Bartels, KC9YFU, 618-977-4658



Macoupin County Amateur Radio Club P.O. Box 253 Carlinville, IL 62626-

0253

K9MCE December 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						$oldsymbol{1}_{ARRL~160~M~Contest}$
2 Okaw Valley ARC Net@9:00 pm, 444.250 K9MAF Net 146.805 @ 9 pm ARRL 160 M Contest	Lewis & Clark ARC, K9HAM 8 pm 145.23 (79.7) W9VEY Memorial Net @8:30 pm, 146.820	401d Capital ARC, Vandalia, 146.745, 88.5 pl, 8:00 pm	5 Reno's Restaurant, 6:00 pm Christinas	6 Macoupin County ARES Net, KOOZ net control 147.480 MHz simplex @ 8pm KSMCE Club net, WD9HBF Net Control, 444.250 @8:30 pm	7	$8_{\scriptscriptstyle ARRL~10~M~Contest}$
Okaw Valley ARC Net@9:00 pm, 444.250 K9MAF Net 146.805 @ 9 pm ARRL 10 M Contest	10 Lewis & Clark ARC, K9HAM 8 pm 145.23 (79.7) W9VEY Memorial Net @8:30 pm, 146.820	1 1 old Capital ARC, Vandalia, 146.745, 88.5 pl, 8:00 pm	12	13 Macoupin County ARES Net, KOOZ net control 147.480 MHz simplex @ 8pm K9MCE Club net, WD9HBF Net Control, 444.250 @8:30 pm	14	15
16 Okaw Valley ARC Net@9:00 pm, 444.250 K9MAF Net 146.805 @ 9 pm ARRL Rookie Roundup CW	17 Lewis & Clark ARC, K9HAM 8 pm 145.23 (79.7) W9VEY Memorial Net @8:30 pm, 146.820	1801d Capital ARC, Vandalia, 146.745, 88.5 pl, 8:00 pm	19	20 Macoupin County ARES Net, KOOZ net control 147.480 MHz simplex @ 8pm K9MCE Club net, WD9HBF Net Control, 444.250 @8:30 pm	21	22
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K9MCE QSN BACKPAGE



Macoupin County ARC 129 East First Street PO Box 253 Carlinville, IL 62626-0253



Local weekly nets:

Sunday: Okaw Valley ARC, 444.250 @9:00 pm Sunday: N9MAF Net, 146.805 @ 9:00 pm.

Monday: Lewis and Clark ARC, 145.23 @ 8:00 pm Monday; W9VEI Memorial Net, 146.820 at 8:30 pm

Tuesday: Old Capitol ARC, Vandalia 146.745 @ 8:00 pm

Thursday: Macoupin County ARES, 147.480 @ 8:00 pm Thursday: Macoupin County ARC Net, 444.250 @ 8:30 pm.

IL NOAA NWS WX Radio Stations

Ward Silver, NOAX makes it a point to program his VHF/UHF FM radios with the seven frequencies nationally assigned to NWS so that when he is on the road he is within the coverage area of a NWS transmitter. These frequencies are 162.400, 162.425. 162.450, 162.475, 162.500, 162.525 and 162.550. Keep in mind that not all NWS transmitters have the same output power. For instance, KD089 out of St. Louis and WXJ75 out of Springfield, IL have 1000 watts; whereas, KXI79 in Hillsboro runs 300 watts. A good URL to see the various NWS stations and their respective output power is

http://www.nws.noaa.gov/nwr/Maps/PHP/IL.php

Besides being up to date with the latest NWS information these stations can also serve as good VHF propagation beacons. Listen to the various frequencies and see where and how well the station is coming in to your location.

Springtime and summer months brings enhanced VHF propagation during the morning and evening hours.



Illinois HF Traffic Nets, Times and Frequencies...

Illinois Side Band Net - Net Manager WB9QPM Daily on 3905 at 1800 local time

Illinois Emergency Net - Net Manager K9HEZ & Illinois Phone Net Sunday on 3940 at 0800 local time

North Central Phone Net – Net Manager K9HEZ M-F on 3912 at 0700 local time

Illinois CW Net (ILN) Net Manager WB8SIM
W9NXM reporting
Daily on 3838 at 1915 local time

Illinois ARES Net
First and third Sunday of the month
3.905 MHz at 16:30 local.

