



# RRRC NEWS

MONTHLY PUBLICATION OF THE ROCK RIVER RADIO CLUB  
Founded in 1930



Volume 46 Number 2

www.rrrc.net

FEBRUARY 2025

## FEBRUARY 2025 RRRC

### Meeting Minutes



The monthly meeting of the Rock River Radio Club was held on FEBRUARY 4, 2025 using Zoom meetings by President Peter Frey, AD9DO. The meeting was called to order at 7:13 pm CST

**SECRETARY REPORT** Ray Teschke, KD9QLE, presented the minutes of the JANUARY meeting as published in the JANUARY Newsletter.

Motion to approve by: Jerry Arndt, NO9U

Second by: Ralph Hasler, N9WBL

Motion Carried

**TREASURER REPORT** Dave DePover K9MKP

Motion to approve by: Cameron Frey, KD9VGV

Second by: Ray Teschke, KD9QLE

Motion Carried

### COMMITTEE REPORTS

**ARES/REPEATER:** Dale Marks, WB9ADB

Nothing new to report.

**TRAILER:** Len Buchda, KB9GDY

Nothing new to report.

**REPEATER:** Dale Marks, WB9ADB

Fond du Lac now has a new D-Star repeater.

**FIELD DAY 2025: Dale Marks, WB9ADB**

**If you want a camping spot for Field Day June 28 & 29th you need to let Dale Marks know no later than by February 15th at the Valentines Party. If**

**you register for both Friday and Saturday nights, the club pays RRRC members for 1 night. You must pay for your site by February 15th.**

### OLD BUSINESS

Winter Field was held January 25 & 26. Several members and guests stopped out to check it out or participate. 550 QSOs were made in 47 States. A BIG thank you to Peter AD9DO, Cameron KD9VGV, Dave KC9REP and everyone else that helped!

### NEW BUSINESS

A request from President Peter Frey that the club purchase "Band Pass Filters" for the trailer. When doing Winter Field Day it was noticed that the close together frequencies interfered with each other. Brad Gehrt, KA9JDE said he would be willing to purchase one of the two required if the club would purchase the other one. Approximate costs \$40-80.  
Motion to approve by: Brad Gehrt, KA9JDE  
Second by: Ralph Hasler, N9WBL  
Motion Carried

**VALENTINE'S PARTY, 2/15/25 at 12:00 Mike DeJager's place, 111 N. High Randolph. Bring a dish to pass and a White Elephant gift. Bingo to follow.**

A discussion was held to divide the meeting into a business part held before the regular by the officers and a fun part. Officers would summarize and put items up for vote. Check out the YouTube video: [https://www.youtube.com/watch?v=6\\_aCmXNQchc](https://www.youtube.com/watch?v=6_aCmXNQchc)  
It was decided to table the idea until next months meeting.

#### President

Peter Frey AD9DO 920-344-1378

#### Vice President

Ryan Klavekoske KB9OWD 920-356-8757

#### Secretary

Ray Teschke KD9QLE 920-210-9540

#### Treasurer

Dave DePover K9MKP 920-210-2209

#### Club Historian

Gary Pedersen KA9BAE 920-386-4666

## 2025 Officers



#### Emergency Coordinator

Dale Marks WB9ADB 920-485-4234

#### Assistant Emergency Coordinator

Ryan Klavekoske KB9OWD 920-356-8757

#### Repeater Directors

Dale Marks WB9ADB 920-485-4234 (Trustee)

Dave DePover K9MKP 920-210-2209

Keith Lodahl, WJ9L 920-387-4675

Ray Teschke KD9QLE 920-210-9540

**Webmaster** Lucky Lasanske K9LUK 920-216-4268

(Meeting minutes continued)

Mike DeJager thought the food at Bayside was very disappointing this year. President Peter Frey to look into finding other options for next year. 6th Gear near Beaver Dam was a suggestion made.

### MOTION TO ADJOURNED

President Peter Frey, AD9DO heard no further business and requested the meeting be adjourned.

Motion to adjourn by: Ralph Hasler, N9WBL

Second by: Jerry Arndt, NO9U

Motion Carried

### MEETING ADJOURNED AT 8:03 pm

Respectfully Submitted

Raymond Teschke, KD9QLE

Secretary, Rock River Radio Club.

**REMINDER: GET YOUR CAMPING RESERVATIONS FOR FIELD DAY (4<sup>th</sup> weekend in June) INTO DALE MARKS BY THE VALENTINES PARTY ON FEBRUARY 15<sup>th</sup>.**



### SUPPORT YOUR LOCAL RADIO CLUB!

#### What does that mean?

- Come to club meetings and activities
- Pay your \$20/yr membership fee (\$25/yr for a family). See last page to join / renew for 2025
- Participating in club nets

**Friendly Reminder: It is time to pay your 2025 dues. Only \$20 for an individual or \$25 for a family. The form is on the last page of the newsletter.**

The monthly RRRC breakfast get-together will be on Saturday, MARCH 8<sup>th</sup> at the Village Garden Restaurant in Juneau. All are welcome, so join us at around 8:00 AM for a pleasant informal gathering.



**THE NEXT MONTHLY MEETING OF THE RRRC WILL BE HELD IN-PERSON ON TUESDAY, MARCH 4<sup>TH</sup> AT 7:00 PM AT MIKE DEJAGER'S PLACE, 111 N. HIGH STREET IN RANDOLPH,**

If you are unable to join us in-person (we would love to see your smiling faces), a link to join via Zoom Meetings will be emailed out to you the day of

### RRRC FEBRUARY 2025 MEETING ATTENDANCE

(in alphabetical order)

Art Schregardus, N9TSC, Randolph  
Brad Gehrt, KA9JDE, Rush Lake  
Cameron Frey, KD9VGV, Beaver Dam via Zoom  
Carl Smit KE8SLS, Randolph  
Dale Marks, WB9ADB, Burnett  
Dave DePover, K9MKP, Juneau  
Dennis Weigel, KC9ICA, Horicon  
Derek Granquest, SWL, Randolph  
Fred DeJager, SWL, Randolph  
Gary Pedersen, KA9BAE, Juneau  
Jean DeJager, SWL, Randolph  
Jerry Arndt, NO9U, Watertown via Zoom  
Len Buchda, KB9GDY, Randolph  
Mike DeJager, KB9LXP, Randolph  
Peter Frey, AD9DO, Beaver Dam via Zoom  
Ralph Hasler, N9WBL, Oconomowoc via Zoom  
Ray Teschke, KD9QLE, Horicon via Zoom  
Rod Fritz, WB9KMO, Mesa, Arizona via Zoom  
Seth Smit, KE8SLU, Randolph

### RRRC VALENTINE'S DAY PARTY All are welcome!

Saturday, February 15<sup>th</sup> at NOON  
at KB9LXP's place in Randolph  
111 N. High Street

Mike's providing plates, silverware, cups, napkins and DECAF coffee  
**PLEASE BRING A DISH TO PASS!**

We're playing bingo!  
Please bring a white elephant gift



# LETTER FROM THE PRESIDENT

February '25 Edition

Good day all. It's been a cold and lingering winter at this point of the year, but green grass is right around the corner. I personally can't wait.

There's been some good goings on with the club lately and I'm happy to be a part of it. We are toying with streamlining our monthly meetings as well as looking into what it would take to obtain bandpass filters for our use. Especially during Field Day. Upcoming we have a Spring Fox Hunt to look forward too as well. If anyone has any ideas for activities or presentations, don't be shy! We're all ears and would like to hear it.

One thing I'd like to bring up, the repeaters are awfully silent as of late. Take a moment out of your day to give a holler. If we all do it enough times it will gain traction in the area as a hot area and draw in more folks, I'm sure.

With that, I look forward to seeing you all for our Valentines Day gathering!

All the best,

Peter AD9DO



## RRRC's WINTER FIELD DAY IN DOWNTOWN JUNEAU – JANUARY 25<sup>th</sup>-26<sup>th</sup>



*The RRRC Amateur Radio Emergency Service trailer*



*Cameron KD9VGV racking up contacts (QSOs) during the contest*

*Future ham radio operator Pete III – aka Cameron's 6 year old brother, was a popular voice on the bands!*



Winter Field Day is an annual Amateur (Ham) Radio Field Exercise where club members set up portably on emergency power. The goal is to make as many contacts (QSOs) as possible from 10 AM Saturday – 4 PM Sunday.



This year our team made 530 contacts in 47 states! How cool is that? A big “thank you” to everyone that helped with event! Special thanks to Peter AD9DO, Cameron KD9VGV, Peter III (SWL). Ray KD9QLE and Dave KD9REP for letting us set up on his property!

Mark your calendar: Summer Field Day is the last full weekend in June at Derge Park!

## Here is a list of RRRC members that are willing to help you with ham radio related topics

|  |                        | RRRC Elmer (helper) list as of 2-10-25 |
|---|------------------------|--|
| Category  | Names                  | Contact Info                           |
| General ham radio help  | Ray Teschke KD9QLE     | rkteschke@att.net                      |
|   | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |
| 6 meter operating   | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
| Amateur Television - ATV  | Rod Fritz WB9KMO       | wb9kmo@gmail.com                       |
| Antenna building  | Jay Brendemuehl AC9AS  | 1958wt@gmail.com                       |
| Antenna repair / tower projects   | Ray Teschke KD9QLE     | rkteschke@att.net                      |
| Contesting  | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
|   | Kevin Hanks WI9WIS     | kevin.hanks@gmail.com                  |
| Dxing   | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
|   | Kevin Hanks WI9WIS     | kevin.hanks@gmail.com                  |
| Emergency communications ARES   | Dale Marks WB9ADB      | dmarks@powercom.net                    |
|   | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
|   | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |
| Field Day operation   | Jay Brendemuehl AC9AS  | 1958wt@gmail.com                       |
|   | Peter Frey AD9DO       | alphadelta9deltaoscar@gmail.com        |
| FT8 / FT4   | Doug Iverness AC9XW    | ripondoug@gmail.com                    |
|   | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |
| Getting on the air for the first time   | Ray Teschke KD9QLE     | rkteschke@att.net                      |
|   | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |
| Kit building  | Jay Brendemuehl AC9AS  | 1958wt@gmail.com                       |
| Learning Morse Code   | Jay Brendemuehl AC9AS  | 1958wt@gmail.com                       |
|   | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
| Logging   | Kevin Hanks WI9WIS     | kevin.hanks@gmail.com                  |
|   | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
| Mesh networking   | Rod Fritz WB9KMO       | wb9kmo@gmail.com                       |
| Net Control operation   | Ryan Klavekoske KB9OWD | ryantiff@charter.net                   |
| Other digital modes such as PSK31, JS8CALL, RTTY, VarAC                           | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |
| Packet Radio  |                        |  |
| POTA (Parks On The Air)   | Doug Iverness AC9XW    | ripondoug@gmail.com                    |
|   | Peter Frey KD9UVX      | kd9uvx@gmail.com                       |
|   | Jay Brendemuehl AC9AS  | 1958wt@gmail.com                       |
| Passing traffic   | Keith Lodahl WJ9L      | lodahlkh@charter.net                   |
| Short Wave Listening  | Dale Marks WB9ADB      | dmarks@powercom.net                    |
| Satellites - working the birds  | Peter Frey KD9UVX      | kd9uvx@gmail.com                       |
| Slow scan TV  | Len Buchda KB9GDY      | kb9gdy@spectrum.net                    |
| SOTA (Summits On The Air)   | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |
| SSB operation   | Kevin Hanks WI9WIS     | kevin.hanks@gmail.com                  |
| Weather spotting  | Jay Brendemuehl AC9AS  | 1958wt@gmail.com                       |
| WinLink via VHF, HF, Telnet   | Len Buchda KB9GDY      | kb9gdy@spectrum.net                    |
|   | Brad Gehrt KA9JDE      | ka9jde@gmail.com                       |

If you want to get added or deleted from the RRRC Elmer List,  
please email Brad at [ka9jde@gmail.com](mailto:ka9jde@gmail.com),



# WHY JOIN THE ROCK RIVER RADIO CLUB???

*(you don't need to have a ham radio license to join)*



- ☐ CHALLENGE YOURSELF TO LEARN SOMETHING NEW!
- ☐ LEARN ABOUT HI-TECH LOCAL AND WORLDWIDE COMMUNICATIONS.
- ☐ WHEN THERE IS NO ELECTRICITY, CELL PHONE SERVICE OR INTERNET, HAM RADIOS ARE LIKELY TO STILL WORK.
- ☐ LEARN HOW TO HELP WITH SEVERE WEATHER SPOTTING.
- ☐ WE ARE EXPERIMENTERS!
- ☐ JOIN IN ON FUN ACTIVITIES!
- ☐ THIS IS NOT YOUR GRANDPA'S HAM RADIO HOBBY!
- ☐ MORSE CODE IS NO LONGER A LICENSING REQUIREMENT.



How do I join the RRRC?

Our Individual Regular membership is only \$20/year.  
See application on last page of this newsletter



## A Tour of 10 Meters

Scott Freeberg, WA9WFA

As Cycle 25 approaches its peak, now is the time to get on 10 meters. The band is available to all classes of amateur radio licensees, and offers something for everyone. Read on to learn more about the characteristics of this band, from the bottom to the top.



**R**ecently, I tuned into 10 meters and found the band filled with signals. In fact, for 2 days the band was wide open and I made contacts on CW, FT8, RTTY, SSB, slow-scan TV, and FM. Plus, I copied many CW beacons and listened for satellites. The day after this adventure, the band was dead — I didn't hear a peep from anyone, anywhere.

### A Quiet Band May Not Be a Dead Band

Ten meters often sounds dead — devoid of activity — yet the underlying propagation may actually be good. I think a lot of hams take a quick listen to our favorite portion of the band, hear nothing, and declare it dead without ever taking the initiative to call CQ. It takes some effort to find out whether band propagation is viable. FT8 is now my go-to indicator for checking 10-meter propagation, because it seems like FT8 is the first mode I hear when the band starts to *open* (meaning propagation is favorable for that band), and the last mode I can still hear as the band *closes* (meaning propagation is not favorable for that band). If there is any useful propagation to be had, there will be some FT8 signals, and it's time to call CQ and see who responds.

Remember, a quiet band doesn't necessarily mean a dead band. It might just mean we might need to test the waters by calling CQ. There are probably other people out there, listening to the silence — call CQ and give them something to respond to! Additionally, the propagation boost the band is getting from Cycle 25 makes right now a good time to get on 10 meters and make worldwide contacts.

### Every HF Mode is Allowed

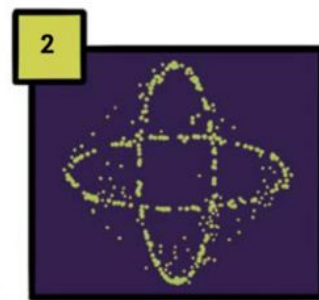
All HF modes are allowed somewhere on the 10-meter band, including CW, digital modes such as FT8 and radio teletype (RTTY), CW beacons, single sideband (SSB), slow-scan television (SSTV), amplitude modulation (AM), frequency modulation (FM), and satellite downlinks. There is something for everyone on 10 meters. Which modes you have access to depends upon your license class. Modern radios often provide all of these modes with the simple press of a button.



### Old and New Digital Modes

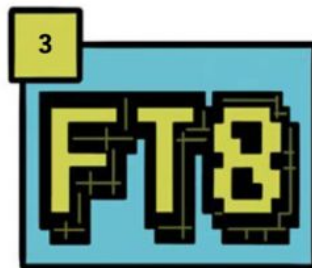
One morning I started listening at the *bottom* of 10 meters (where the band begins; the *top* of the band is where the band ends), in the CW portion (between 28.000 and 28.070 MHz). I was surprised at the large number of signals I heard. I contacted plenty of European countries and rare DX entities in the CW portion of the band.

A bit farther up the band, generally from 28.080 to 28.100, is where the RTTY folks hang out. That day it was quiet and no one answered my RTTY CQ, but during

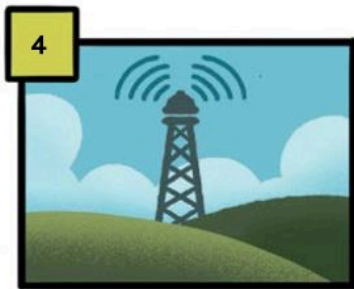


the RTTY contests, it is common to hear hundreds of RTTY signals crammed into that portion of the band.

I tuned higher up in the band and landed on the FT8 digital mode frequency of 28.074 MHz, which was full of European and African stations. I contacted several European countries, some islands, and an African kingdom. Farther up the band I encountered FT4 DX stations at 28.180, and contacted several of them.



ARRL Members  
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magazines!



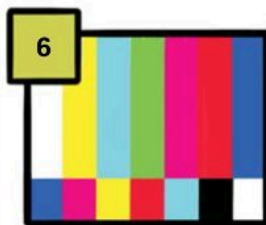
### Propagation Beacons — Useful and Fun to Listen For

Tuning farther up the band, I encountered the CW propagation beacons. This portion of the band (28.200 to 28.300 MHz) is where hams set up low-power CW beacons as a way to help all of us assess propagation. These low-power beacons often chirp away 24 hours a day, 7 days a week, and are a good way to find out if the band is open, or at least open to your part of the country. I copied about 20 beacons ranging from California, through Texas, and all the way to Florida.



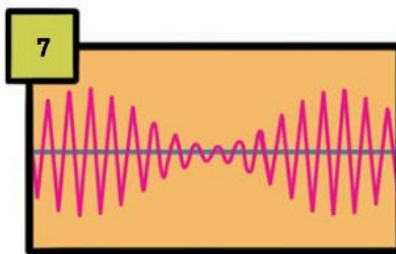
### SSB Galore

Moving up the band, I entered the SSB portion of 10 meters (28.300 to 28.600 MHz), and it was loaded with strong signals from Europe and US stations. There were rapid-paced DX contacts taking place, but I heard many folks casually chatting about their ham gear, antennas, and weather, so it can be relaxing as well. Novice- and Technician-class licenses have privileges in the SSB portion of the band.



### Slow Scan Television (SSTV)

Farther up the band I came across some slow-scan television from France and England on 29.600 MHz, so I stopped and contacted them. Signals were excellent, and it was fun to see photos from friends across the Atlantic.



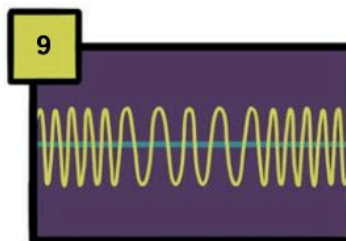
### Amplitude Modulation (AM)

Approaching 29.000 MHz is where the 10-meter Amplitude Modulation (AM) crowd hangs out. The AM portion is generally around 29.000 through 29.200 MHz. High power is not needed here. Many of the stations I contact on 10-meter AM are running 5 to 200 watts, with some converted CB transceivers being heard.



### Satellite Downlinks and Beacons

Generally, in the 29.300 to 29.510 MHz range is where a few 10-meter satellite downlinks and beacons still operate. You can use online tools (such as [asamsat.org/track](http://asamsat.org/track)) to predict when and where a satellite will pass, and listen for those outer space stations. I didn't hear any satellites that day.



### Frequency Modulation (FM)

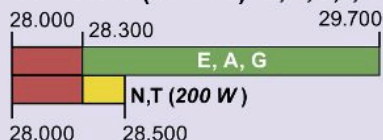
Up toward the top of the band are the Frequency Modulation (FM) simplex calling frequencies of 29.500 and 29.600 MHz. There are also several repeaters operating just up the band. Repeater outputs are in the 29.620 to 29.68 MHz range, while the repeater inputs are 100 KHz lower, in the 29.520 to 29.580 MHz range. Ten-meter FM operation is similar to 2-meter FM except that you may be chatting with someone across the country or down in the Caribbean, instead of across town. Most modern HF rigs include 10-meter FM so you don't need to buy a special radio for it.

### See The Big Picture of 10 Meters

Check the March/April 2022 issue for a graphical representation of the various parts of the 10-meter band — from Morse code to FT8, from AM to satellites, there really is a little bit of everything on this band!

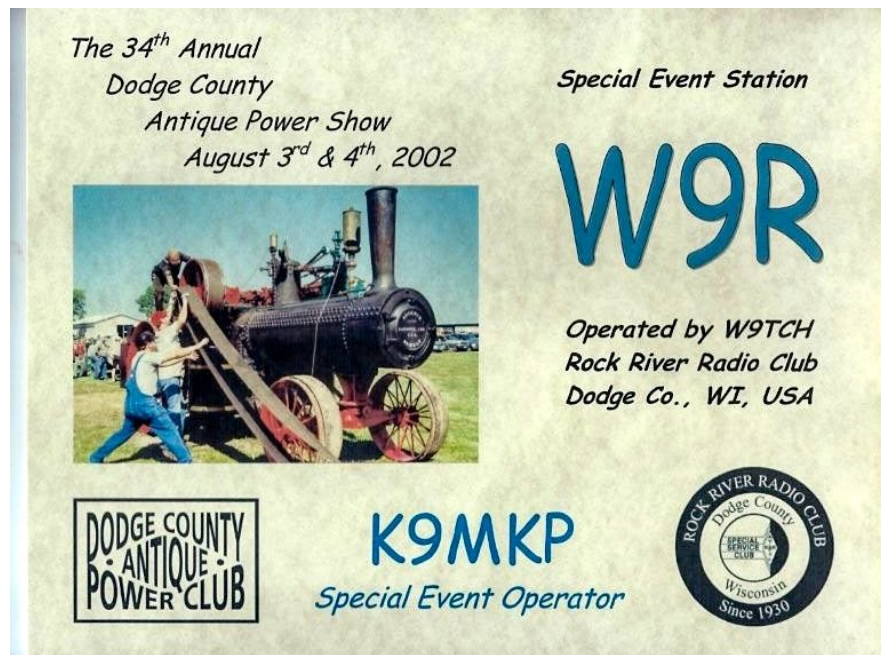
*Scott Freeberg, WA9WFA, was first licensed in 1968 as WN9WFA and now holds an Extra-class license. Scott has a BS in electrical engineering from the Milwaukee School of Engineering, and recently retired after 41 years in the medical device industry and 6 years in the US Navy Reserve. In retirement, he enjoys getting on the air, building ham radio gear, and sailing. He is an ARRL Life Member, and can be reached at [wa9wfa@gmail.com](mailto:wa9wfa@gmail.com).*

### 10 Meters (28 MHz) E,A,G,T,N



### 10-Meter Frequency Allocations

Every amateur radio license class is allowed to operate somewhere on the 10-meter band. The 10-meter section of the ARRL band chart shows which modes and frequencies are allowed for each license class. Amateur Extra, Advanced, and General class can operate in the entire band from 28.0 to 29.7 MHz and use all modes, while Novice and Technician class can operate from 28.0 to 28.5 MHz on the specific modes allowed for those classes. Note that there are output power restrictions of 200 watts or less for Novice- and Technician-class operators.



## HERE IS AN IDEA!

By RRRC Treasurer Dave K9MKP

Here's some history!

Maybe the RRRC Emergency Trailer could be at the Dodge County Antique Power Club Show on the first weekend of August 2025? The event is for 3 days.

We could apply for a special event call sign, such as W9R or similar. But you can't wait to July to get one.

## FROM THE RRRC ARCHIVES

By RRRC Treasurer Dave K9MKP



Longtime RRRC members and founding fathers Roy Petersen K9FHI and Duane Haas W9TCH posing in front of our emergency communication trailer back at Field Day, Derge County Park, June 23, 2000

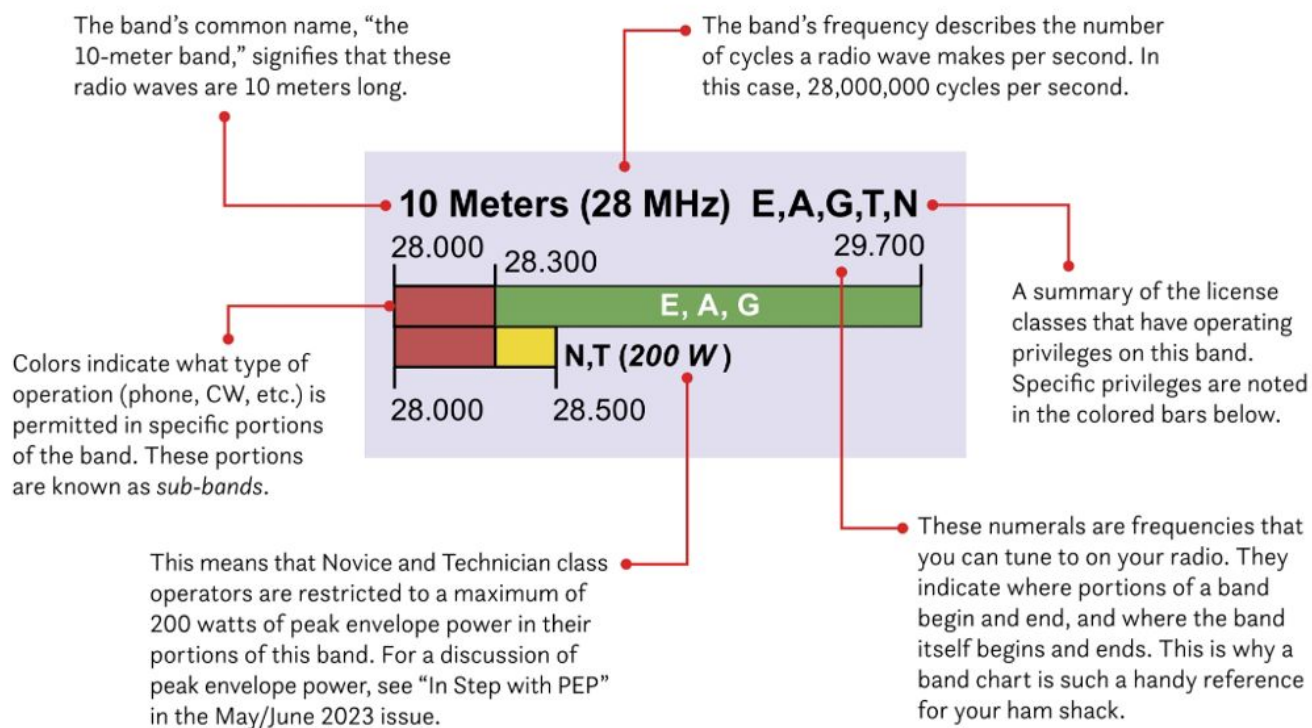
## THE BIG PICTURE

# Demystifying the Band Chart

Amateur radio operators in the United States have operating privileges that run the gamut from very low frequencies to the edge of visible light itself. The Federal Communications Commission (FCC) allocates our privileges according to frequency and mode (FM, SSB, etc.), and according to the operator's license class.

All these variations make it exceedingly difficult to condense the information into a single chart. We include a band chart in every issue of *On the Air*, and we do our best to make the information on it as clear as possible. Even so, we understand that plucking the information you need from a band chart can be a challenge.

Let's demystify some of the details with a few examples, starting with a walk through the information presented on the chart.



Most hams keep a copy of the band chart available at their operating position. It's not just for beginners — even hams who have been on the air for 50 years or more find themselves consulting the band chart from time to time.

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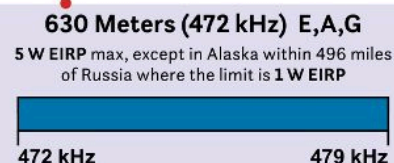
# A Few More Examples

## 630 Meters

The 630-meter band is a relatively new allocation. It “resides” just below the AM broadcast band. Notice the letters E, A, and G in the first line. These are the license classes that have privileges on this band: Amateur **E**xtra, **A**dvanced, and **G**eneral. Technician-class licensees cannot use this band, otherwise you’d see the letter T as well.

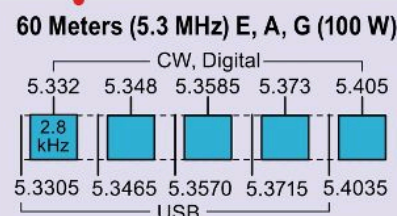
But what is an Advanced-class license? This is a discontinued license class; the FCC stopped issuing Advanced licenses many years ago. However, there are still thousands of hams who have this license, and their Advanced privileges still apply. That’s why they are shown on this chart.

You’ll also notice some nearby text that provides more information about 630-meter operating. Hams are restricted to only 5 watts effective radiated power unless they live within 496 miles of Russia. Those amateurs can only radiate 1 watt!



## 60 Meters

Sixty meters is an oddball allocation, and it isn’t easy to depict in a chart. It is the only HF band that restricts amateurs to operating on five specific frequency channels. The Amateur Extra, Advanced, and General-class amateurs who use this band can only radiate 100 watts of power and operate upper sideband voice (USB), CW, or digital. As the text explains, 60-meters is a “secondary” allocation for hams, meaning that we must share the frequencies with other services.



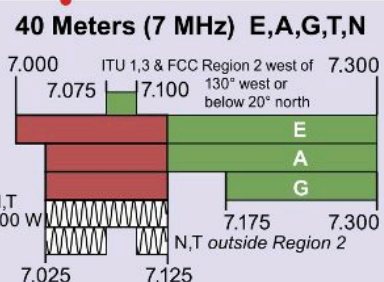
General, Advanced, and Extra licensees may operate on a secondary basis with a maximum ERP of 100 W (relative to a half-wave dipole antenna).

## 40 Meters

Forty meters is among the most popular “lower” HF bands and all amateurs have privileges here. That’s why this part of the chart is somewhat complicated. You’ll see that **N**ovices (**N**) and **T**echnicians (**T**) are restricted to CW at 200 watts maximum output. The Novice is another license the FCC no longer issues, but there are still a few thousand Novices on the air.

Amateur Extra, Advanced, and General licensees can operate teletype (RTTY) and other digital modes on some frequencies; voice and image modes must be used by these amateurs on other frequencies. The chart doesn’t show CW allocations for these license classes because those amateurs are permitted to operate CW at any frequency on every band.

The International Telecommunications Union (ITU) has divided the world into three regions. Hams living in the United States are in Region 2, which is why the 40-meter portion of chart notes restrictions that apply to Region 2 only.



# US Amateur Radio Bands

**US AMATEUR POWER LIMITS** — FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

Amateurs wishing to operate on either 2,200 or 630 meters must first register with the Utilities Technology Council online at <https://utc.org/plc-database-amateur-notification-process/>. You need only register once for each band.

## 2,200 Meters (135 kHz)



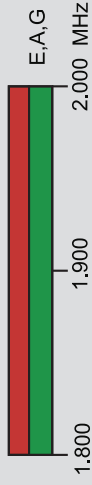
## 630 Meters (472 kHz)

5 W EIRP maximum, except in Alaska within 496 miles of Russia where the power limit is 1 W EIRP.

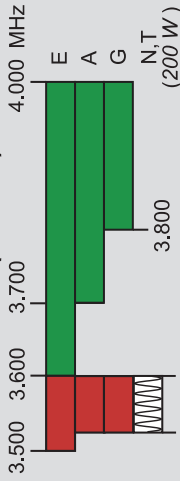


## 160 Meters (1.8 MHz)

Avoid interference to radiolocation operations from 1,900 to 2,000 MHz



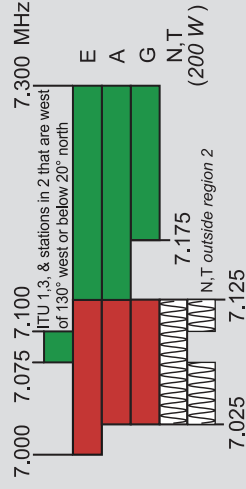
## 80 Meters (3.5 MHz)



## 60 Meters (5.3 MHz)

CW, 5332 - 5348 kHz  
Dig 5348.5 - 5373 kHz  
USB 5373.5 - 5405 kHz  
5405.5 - 5436.5 kHz  
5437.5 - 5403.5 kHz  
General, Advanced, and Extra licensees may operate on a secondary basis with a maximum ERP of 100 W (relative to a half-wave dipole antenna).

## 40 Meters (7 MHz)



See Sections 97.305(c), 97.307(f)(11) and 97.301(e). These exemptions do not apply to stations in the continental US.

## 30 Meters (10.1 MHz)

Avoid interference to fixed services outside the US.



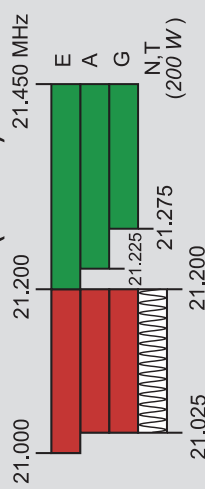
## 20 Meters (14 MHz)



## 17 Meters (18 MHz)



## 15 Meters (21 MHz)



## 12 Meters (24 MHz)



## 10 Meters (28 MHz)



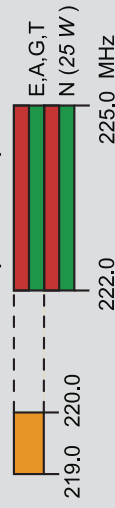
## 6 Meters (50 MHz)



## 2 Meters (144 MHz)



## 1.25 Meters (222 MHz)



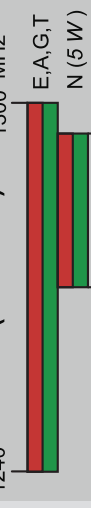
## 70 cm (420 MHz)\*



## 33 cm (902 MHz)\*



## 23 cm (1240 MHz)\*



All licensees except Novices are authorized all modes on the following frequencies:

|               |                 |                   |
|---------------|-----------------|-------------------|
| 2300-2310 MHz | 10.0-10.5 GHz ‡ | 122.25-123.0 GHz  |
| 2390-2450 MHz | 24.0-24.25 GHz  | 134-141 GHz       |
| 3400-3450 MHz | 47.0-47.2 GHz   | 241-250 GHz       |
| 5650-5925 MHz | 76.0-81.0 GHz   | All above 275 GHz |

‡ No pulse emissions



### KEY

**Note:** CW operation is permitted throughout all amateur bands.

**MCW** is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz. Test transmissions are authorized above 51 MHz, except for 219-220 MHz



E = Amateur Extra

A = Advanced

G = General

T = Technician

N = Novice

See [www.arrl.org/band-plan](http://www.arrl.org/band-plan) for detailed band plans.

## ARRL

### We're At Your Service

ARRL Headquarters:  
860-594-0200 (Fax 860-594-0259)  
email: [hq@arrl.org](mailto:hq@arrl.org)

Publication Orders:

[www.arrl.org/shop](http://www.arrl.org/shop)  
Toll-Free 1-888-277-5289 (860-594-0355)  
email: [orders@arrl.org](mailto:orders@arrl.org)

Membership/Circulation Desk:

[www.arrl.org/membership](http://www.arrl.org/membership)  
Toll-Free 1-888-277-5289 (860-594-0338)  
email: [membership@arrl.org](mailto:membership@arrl.org)

Getting Started in Amateur Radio:

Toll-Free 1-800-326-3942 (860-594-0355)  
email: [newham@arrl.org](mailto:newham@arrl.org)

Exams: 860-594-0300 email: [vec@arrl.org](mailto:vec@arrl.org)

# WISCONSIN WINTER SUMMITS ON THE AIR ADVENTURE!

By Brad KA9JDE



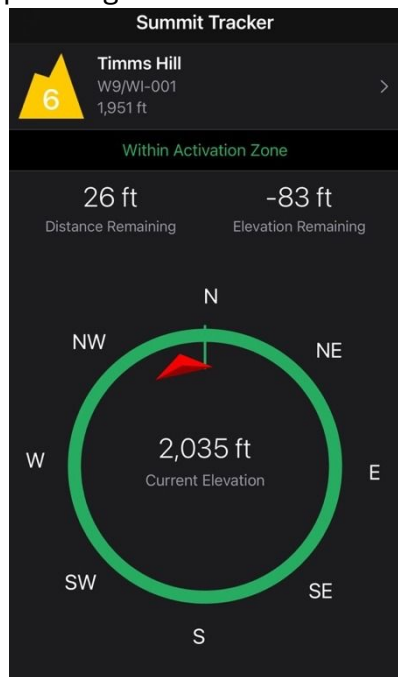
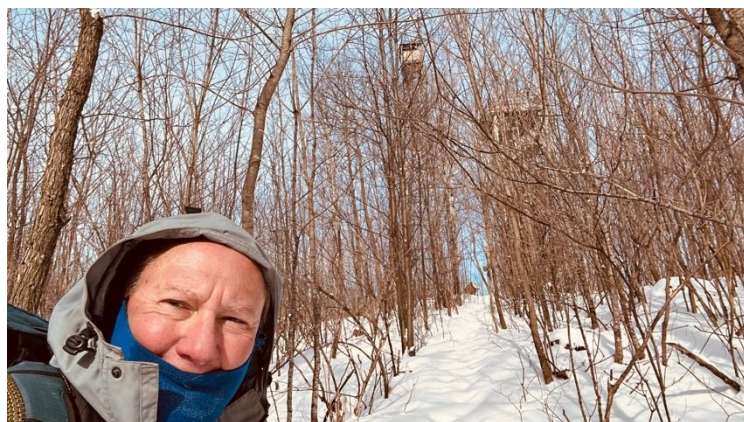
On Wednesday February 5<sup>th</sup> I decided to do a Summits On The Air (SOTA) activation on Timm's Hill, Wisconsin's highest point

SOTA is a fun ham radio activity that started in Great Britain in 2002. The program encourages portable operation from mountain and hilltops around the World. All bands and modes may be used making it an ideal objective for the newly licensed and old timers as well. Wisconsin has 42 SOTA summits!

My adventure started with about a 3 hour drive. Timm's Hill is located about 30 miles west of Tomahawk in Price County. It is a county park that has a lookout tower at the peak. The road that goes through the park is closed during winter. The area is open, however, for hiking, snowshoeing and cross-country skiing.

Yes, there is a reason I decided to activate Timm's Hill in the middle of winter. Also known as SOTA summit W9/WI-001, it normally is a 6 point summit. From December 1<sup>st</sup> to March 1<sup>st</sup>, you get a 3 point winter bonus! 🧊

The adventure came with a couple of hiccups. When I set up my lovely Icom IC-705 rig on the summit, one of the Anderson power connectors came undone. Lesson learned: always buy true Anderson brand connectors to avoid poorly made knockoffs. Fixing the issue in 16 degree weather on a summit is frustrating, but thankfully, I was able to fix the issue. The second problem is that when I hiked back to my truck, the battery in my key fob was dead! I tried to manually open my door – no go! I tried to manually open the back gate – no go! Lastly, I tried to manually open the passenger door and woohoo – it worked!



Due to the cold weather, my activation was done quickly. With 10 watts on 20 meter SSB with my homebrew dipole antenna made of simple speaker wire, I talked with hams in California, Arizona, Oklahoma, Indiana, New York and Minnesota. I had hoped to work a few RRRC members on 40 meters, but I decided not to switch bands because I was really cold! This activation brings me up to 844 SOTA points. Woohoo! To learn more about SOTA, go to: <https://www.sota.org.uk/>. Here is Brad's short video from the summit:

<https://vimeo.com/user2403081/timms-hill>

# UPCOMING HAMFESTS

## Tri-County WI HamFest 2025

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03/16/2025

**Start Date:** 03/16/2025

**End Date:** 03/16/2025

**Location:** Jefferson County Fair Park, Activity Center  
P.O. Box 321

Fort Atkinson, WI 53538

**Website:** <https://www.W9MQB.org>

**Sponsor:** Tri-County Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 145.49

**Public Contact:** Michael Zore , AE9MZ

P.O. Box 321 Fort Atkinson, WI 53538-0321

Phone: 414-455-5493

**Email:** [MZore@SterlingTech.net](mailto:MZore@SterlingTech.net)



## Madison Hamfest

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04/26/2025

**Start Date:** 04/26/2025

**End Date:** 04/26/2025

**Location:** Mandt Community Center

400 Mandt Parkway

Stoughton, WI 53589

**Website:** <https://w9hsy.org/>

**Sponsor:** Madison Area Repeater Association

**Type:** ARRL Hamfest

**Talk-In:** 147.15 MHz (+600) pl 123.0

**Public Contact:** Paul Anderson , WB9QVV

459 N. Arthur Circle Verona, WI 53593

Phone: 608-354-1025

**Email:** [pda53593@gmail.com](mailto:pda53593@gmail.com)

## ORC 45th Annual Spring Indoor Swapfest

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04/26/2025

**Start Date:** 04/26/2025

**End Date:** 04/26/2025

**Location:** Ascension Columbia St. Mary's Center (Milwaukee Curling Club)

W67N890 Washington Avenue

Cedarburg, WI 53012

**Website:** <https://www.ozaukeeradioclub.org>

**Sponsor:** Ozaukee Radio Club, Inc.

**Type:** ARRL Hamfest

**Talk-In:** 146.97 MHz (- offset), CTCSS 127.3 Hz

**Public Contact:** Tom Trethewey , KC9ONY

W69N905 Evergreen Ct. N., #202 Cedarburg, WI 53012-1170

Phone: 262-421-6351

**Email:** [swapfest@ozaukeeradioclub.org](mailto:swapfest@ozaukeeradioclub.org)



# AA7HW<sup>VE</sup> Team

## Yes, you CAN take your License Exam Online using Zoom

from the comfort of your own home or office

Our team of Volunteer Examiners has administered nearly 2000 friendly, efficient online amateur radio license exams since May 2020

- We offer online exams most weekdays.
- We can often schedule exams at other times if our existing schedule does not meet your needs.
- New license or upgrades.
- Take multiple exams for the same low price.
- Friendly and efficient.
- You can generally have your license two days after passing your exam.
- Our Portland-based team is a 501(c)(3) non-profit organization.



<https://www.aa7hw.org>

Herb Weiner, AA7HW  
herbw@wiskit.com  
(503) 771-1400

Local contact:  
Brad Gehrt, KA9JDE  
W5YI Volunteer Examiner  
ka9jde@gmail.com  
(920) 210-1620

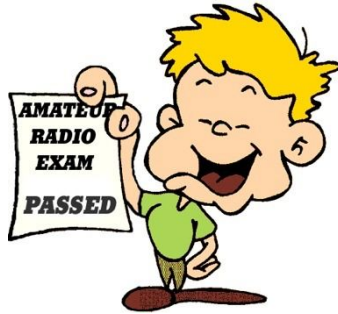
## HAM RADIO LICENSE TESTING DATES

If you are looking to get your ham radio license or upgrade your current license, here is the info you need. Tests can be taken In Person or Virtually via Zoom in the comfort of your home. The choice is yours!

### UPCOMING NEARBY "IN PERSON" EXAMS:

More can be found at:

<https://www.arrl.org/find-an-amateur-radio-license-exam-session>



02/22/2025

Sponsor: Fond du Lac ARC

Date: Feb 22 2025

Time: 9:00 AM (Walk-ins allowed)

Contact: Douglas J. Schultz

(920) 922-3088

Email: schultz74@charter.net

VEC: ARRL/VEC

Location: Moraine Park Technical College

235 N National Ave

Room 0-122

Fond Du Lac WI 54935-2884

Website: <https://fdlhams.com/>

02/22/2025

MILWAUKEE

Sponsor: MRAC VEC, INC.

Date: Feb 22 2025

Time: 9:30 AM (Walk-ins allowed)

Contact: Tom Fuszard

Email: [mracvec@gmail.com](mailto:mracvec@gmail.com)

VEC: Milwaukee WI

Location: Ham Radio Outlet

5710 W Good Hope Rd

Milwaukee WI 53223-4736

Website: <https://www.mracvec.org/>

03/01/2025

Sponsor: Four Lakes ARC

Date: Mar 01 2025

Time: 8:00 AM (Walk-ins allowed)

Contact: Frederick Baguhn

(608) 437-8937

Email: [w9goc@arrl.net](mailto:w9goc@arrl.net)

VEC: ARRL/VEC

Location: Univ of WI Space Place

2300 S Park Street

Villager Mall Lower Level

Must have FRN at time of exam.

Madison WI 53715-2143

Website: [www.w9jz.org/exam/](http://www.w9jz.org/exam/)

03/08/2025

Sponsor: Sheboygan Cty WI VE Team

Date: Mar 08 2025

Time: 9:00 AM (No Walk-ins / Register or Call ahead)

Contact: Michael B. Gottsacker

(920) 565-2672

Email: [mgottsac@tds.net](mailto:mgottsac@tds.net)

VEC: ARRL/VEC

Location: Salem United Church of Christ (Enter from East parking lot, off Kensington Ave)

217 Salem Dr (Handicap Accessible)

Please put "VE Exam" in the email subject line

Plymouth WI 53073-2032

03/22/2025

Sponsor: Fox Cities ARC

Date: Mar 22 2025

Time: 8:00 AM (Walk-ins allowed)

Contact: Richard R. Kosiorek

(920) 809-1010

Email: [wj9k.mail@gmail.com](mailto:wj9k.mail@gmail.com)

VEC: ARRL/VEC

Location: Maplewood Middle School

Door 17 Community Rm

1600 Midway Rd

Menasha WI 54952-1228

Website: <https://fcarc.club/>

### UPCOMING VIRTUAL EXAMS:

Brad, KA9JDE, is a member of the AA7HW Volunteer Examiner Team under the W5YI VEC. With over 40 Volunteer Examiners on the team, we offer virtual testing via Zoom. The cost of the exam is \$14. For more info or to schedule an exam, go to [aa7hw.org](http://aa7hw.org).

Testing is done virtually via Zoom usually Monday-Thursday at 4pm and Friday at 8:30pm. To schedule your exam session, go to: [aa7hw.org](http://aa7hw.org)  
Also, feel free to contact Brad KA9JDE with any questions at [ka9jde@gmail.com](mailto:ka9jde@gmail.com).

The best way to get your ham radio license is to use <http://hamstudy.org/> Be certain that you are in **STUDY MODE**. This mode asks you test questions you are **NOT** getting right, to avoid a false sense of security. It really works!

## **RRRC Weekly Nets**

**Monday A.R.E.S. Net 7:30 PM**

**RRRC 2-Meter Repeater 146.64 MHz**

**Net Control Stations**

**February 10, 2025    Peter - KD9UVX /  
                                 Cameron KD9VGV**

**February 17, 2025    Ted - W9LUQ**

**February 24, 2025    Ryan - KB9OWD**

**March 3, 2025        Gary - KA9BAE**

**Repeater Backup 147.585 MHz Simplex**

**160-Meter HF Net Wednesday 7:00 PM**

**1.908 MHz Lower Side Band**

**(1.920 MHz backup frequency)**

**70-Centimeter Net RRRC Knowles  
Repeater 442.975**

**Thursdays at 7:30 PM**

**75-Meter HF Net Saturday 10:00 AM**

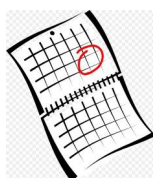
**7.278 MHz Lower Side Band**

**Alternate Frequency 3.947 MHz**

## **Calendar 2025**

**VALENTINE'S DAY PARTY Feb 15th**

**FIELD DAY 2025 - Derge County Park—on the  
4th full weekend in June**



## **RRRC Repeaters**

**2-Meter Located in Juneau, WI**

**146.640 MHz Output**

**146.040 MHz Input**

**(Duplex, Standard Negative Offset)**

**123.0 Hz PL Tone**

**70-Centimeter Located in Knowles, WI**

**442.975 MHz Output**

**447.975 MHz Input**

**(Duplex, Standard Positive Offset)**

**123.0 Hz PL Tone**

**Standard FM and**

**Yaesu System Fusion (C4FM) Capable**

## **Rock River Radio Club Mailing Addresses**

### **Send Bills / Club Business to:**

**R.R.R.C.**

**P.O. Box 26, Juneau, WI 53039-0026**

### **Send Newsletter Related Items to:**

**Raymond Teschke KD9QLE**

**617 Mohawk Cir, Horicon, WI 53032**

**rkteschke@att.net**

### **Send Club Dues to:**

**Dave DePover K9MKP**

**W7657 Stone Rd, Juneau WI 53039**

**Website: [www.rrrc.net](http://www.rrrc.net)**

**Webmaster: Ray (Lucky) Lasanske K9LUK**

**k9luk@sbcglobal.net**

**Annual Membership Dues**  
**Rock River Radio Club of Wisconsin**  
**PO Box 26, Juneau WI 53039-0026**



Last Name: \_\_\_\_\_

First Name(s): \_\_\_\_\_

Call(s): \_\_\_\_\_

Phone: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Email: \_\_\_\_\_

ARRL:        YES        NO

State: \_\_\_\_\_ Zip: \_\_\_\_\_

| Description                                      | \$ Each | Quantity | Total |
|--|---------|----------|-------|
| RRRC 2025 Membership - Family                    | \$25.00 |          |       |
| RRRC 2025 Membership - Individual Regular        | \$20.00 |          |       |
| RRRC 2025 Membership - Individual Associate      | \$10.00 |          |       |
| RRRC Badge                                       | \$10.00 |          |       |
| A.R.E.S. Communication Trailer Fund Contribution |         |          |       |
| GRAND TOTAL:                                     |         |          |       |

Send to:                      Dave DePover  
                                    Attn: RRRC treasurer  
                                    W7657 Stone Rd.  
                                    Juneau, WI 53039