

Mount Vernon Amateur Radio Club

August 2024

2024 Edition 8



Mount Vernon

An Innovative Community; Authentically Hometown



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MVARC Repeaters

K8EEN
146.790 MHz
- 600KHz / PL = 71.9 Hz
K8EEN-R Echolink Node:
809800
K8EEN
444.600 MHz **OFFLINE**
+5 MHz / PL = 71.9 Hz

Meeting Notice

August Meeting— July 12th at 7:00 pm at the Academy Building.

President's View

Frank Counts, KC8EVS



As usual I am late getting this off to Terry. I hope everyone is doing well, it's been hot and dry down here in the south end of the county. I haven't been on HF much since my radio gave up its magic smoke 2 or 3 weeks ago. Good news, Roger replaced the Schottky diode and that went well. Replacing the Schottky diode revealed another component that failed a transistor just after the Schottky diode which turns on the radio when you push the power button. So now the wait for that part, should be here by Wednesday. It seems that the rest of the radio is working fine. Let's hope.

I'm writing this just after we attempted our second First Friday. Thanks to all that helped, Terry KI8N and his wife, Roger K8ICI, Michael KE8HGE, Wendell KE8NUX. We got everything set up and off to a good start and it wasn't too hot. It seemed to me that the attendance was down from last year, probably for a good reason. It started to cloud up and about 7p it started to rain, and it rained hard for a while. The first good break in the rain we decided to close and head home. We will give it a try next year.

As I write this, I have not heard from the Apple Valley folks concerning the Family Palooza. Hopefully they will get with me on the first of the week so we can set something up.

I'm going to cut this short to get it to Terry. Hope to see everyone at the meeting coming up August 12th at 7p in the Academy Administration Building, 290 Fairgrounds Road. Enter through the back up to the third floor.

73!

Training Class Schedule

G. Michael Jacobs, KE8HGE



Study Session Schedule, 2024

Sessions meet weekly, every Tuesday evening, starting at 6:30 pm.

◆ Technician Class license: October 22 to December 10,

testing session on December 18.

Study Session Schedule, 2025

- ◆ Technician Class license: February 25 to April 15, testing session April 16.
- ◆ General Class license: July 1 to August 19, testing session August 20.
- ◆ Technician Class license: October 28 to December 16, testing session December 17.



Every Sunday night on the Mount Vernon 146.79 repeater for our weekly MVARC ARES Sunday Night Net. Check-in starts at 9 pm.

Unable to access the repeater from where you are? We are on IRLP (EchoLink) K8EEN-R Node 809800.

Meeting Minutes

Bill Stroud, KD8WHQ



The July 2024 meeting of the Mt. Vernon ARC was called to order by Frank, KC8EVS at 7:00 pm.

17 members attended the meeting. We also had John Tharp, KF8BCO, Stephanie Tharp, Jen Taylor, N8QKE and David Weigold,

N8DPW from the Mansfield Club. They were interested in seeing how the club operated.

Meeting Minutes

The minutes for last month were presented. There were no changes. A motion by Scott, N8SY and seconded by Roger, KE8ICI to accept the minutes as read. The motion passed.

Treasurers Report

Terry, K18N provided an account of the current balance of all bank accounts and expenditures through June 2024. There were no additions or corrections. A motion by Scott, N8SY and seconded by Roger, KE8ICI to accept the Treasurers Report as read. The motion passed.

Committee Reports

ARES

We are looking at setting up a Net for a training session sometime this fall.

ARRL

Scott, N8SY, talked about the ARRL website being hacked and LOTW needed to be rebuilt. He will be attending the ARRL board meeting in July. He will have more on what was discussed at the August meeting.

Repeaters

Roger, KE8ICI reported that there could be an issue with the antenna at the water tower. A climber from Vasu will be coming and climbing the water tower to check the antenna. Roger and Steven will be installing the Hytera repeater soon. They may install the amplifier at the same time.

MESH / EchoLink

Don, W8PEN was on vacation so there is no report. Others reported that EchoLink is working fine.

Old Business

Michael, KE8HGE, has started a General License Class with two people attending.

Directors

Directors met and discussed what to do with the Yaesu repeaters. One was sent back to Yaesu to see why it was not working. If not worth repairing both repeaters will be sold as is.

The WiresX box will be offered to club members first, if no one buys it, it will be sold.

New Business

First Friday August 2. A spot has been paid for. Terry will be setting up a digital station and a 2-meter station will be set up.

Coming Events

Family Palooza is August 10 from 3pm to 7 pm at the Apple Valley Community Center.

Ohio State Parks On the Air – Sept. 7 for more info <https://ospota.org/> We will be at Mohican State Park.

Meeting Adjourned

A motion to adjourn was made by Scott, N8SY and seconded by Evan, KF8APC. The motion passed.



“Hardest pill I swallowed was realizing I meant nothing to people that meant a lot to me. That was a hard lesson to learn. It hurt a lot, but I am going forward one step at a time.” Unknown

Personnel present at the 6/10/2024 meeting		
Michael Jacobs, KE8HGE	Scott Yonally, N8SY	Larry Howell, AC8YE
Bill Stroud, KD8WHQ	Emery Bennett, W8TW	Don Bunner, KB8QPO
Steven Harvey, N8RLW	Barry Butz, N8PPF	Tyler Sheets, KF8AVA
Frank Counts, KC8EVS	Roger Gorrell, KE8ICI	Evan Koonz, KF8APC
Tom Evans, KD8HSA	Terry Windsor, KI8N	Michael Deane, W8OIO
Ralph Dunmire	Kevin Adams, KD8NGV	

Contact MVARC

MVARC

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How well does a triband antenna work in this orientation?



August 2024



Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2 9:00 am— Breakfast Foundation Park	3
4 9:00 pm ARES Sunday Night Net—Don (W8PEN)	5	6	7 4:45 pm Dinner	8	9 9:00 am— Breakfast Foundation Park	10 Family Palooza 3—7 pm Apple Valley
11 9:00 pm ARES Sunday Night Net	12 7:00 pm MVARC Meeting	13	14 4:45 pm Dinner	15	16 9:00 am— Breakfast Foundation Park	17
18 9:00 pm ARES Sunday Night Net— Michael (KE8HGE)	19	20	21 4:45 pm Dinner 6:30 pm License Test Session	22	23 9:00 am— Breakfast Foundation Park	24
25 9:00 pm ARES Sunday Night Net	26	27	28 4:45 pm Dinner	29	30 9:00 am— Breakfast Foundation Park	31

[Link to: Ham Radio Contest Calendar](#)

Radio Activity

Don Russell, W8PEN



I have been sitting here, fingers on the keyboard, trying to think of something inspirational to talk about this month. Due to time restraints and the Field Day report article, there was no Radio Activity column last month. One of those rare times.

This year's fishing trip to the New York Erie State Park was a blast. There was a total of seven family members this year. This annual fishing event started in 1977 with just me and my dad. Dad and I, with a few exceptions because of work schedules would go to a campground along Lake Erie just about 10 miles from the NY/PA border. Starting out, we did not stay at Lake Erie State Park. It was a small campground that just happened to have a couple of small cabins available.

My dad was good friends with the owner of this campground, and we always visited in mid-September to early October. Mostly it depended on when I could schedule my vacation from work. Since this was off season and the campground was closed, dad's owner/friend would let us stay in one of the cabins for about \$50 for the week. Sweet deal.

Eventually the owner of the campground decided to sell it and retire. The new owner removed the two cabins to make more trailer space. We had nowhere to go. Dad's friend rescued us by letting us stay at his brand-new personal cabin that he had not even moved into yet. For free! Luxury cabin too. Two bedrooms, living room, kitchen, dining room, and two baths. Nice.

The following year, we had to find a new place to stay. This is when we were introduced to Lake Erie State Park in New York. With our off-season adventures, the park was empty during the weekdays. On weekends, it would partially fill up. Dad and I had a phone number to call during the weekdays and nights in case we had a problem. It was eerie at night, us being the only two people there. Kind of suits camping along the shores of Lake Erie. Pun intended.

During those early years Dad and I fished pretty much from about 8:00 in the morning until dark. Rarely did we go back to the cabin without a limit of Small Mouth Bass and Walleye, with a Rainbow Trout thrown in occasionally.

My brother Chuck (sk, WA8ONN & AC8R) started fishing with my dad and I sometime in the 1990's. Then, when my Dad passed away in 1994, Chuck and I continued the family tradition of the New York fishing trips.

Now, with my brother gone, there are seven of us who make the trip each year. This year, my nephew on my brother's side, and his son drove up with me. We occupied one cabin. A few days later, my two nephews from my sister's side arrived with their sons and occupied another cabin.

Fishing was great this year and well worth going.

Usually, I would take an HF rig of some sort. Perhaps simply my FT-817 QRP rig. This year I had an HF mobile and could use a mobile antenna or set up something better. Band conditions were not very good the two days I tried. I was operating Parks on the Air from Lake Erie State Park. To be honest though, fishing wore me out enough that I did not try hard.

Maybe next year after a few health issues are figured out I will have a bit more energy.

I know this was not much about ham radio. Thanks for letting me relive some very good times.

I mentioned Parks on the Air. I have had a lot of luck using an end fed antenna that I built a few years ago. I was checking it with my antenna analyzer the other day and realized that it wasn't close to being resonant on any band except for 20 meters, where it hangs around 2.3:1 SWR. I am surprised that my antenna tuner handles the mismatch.

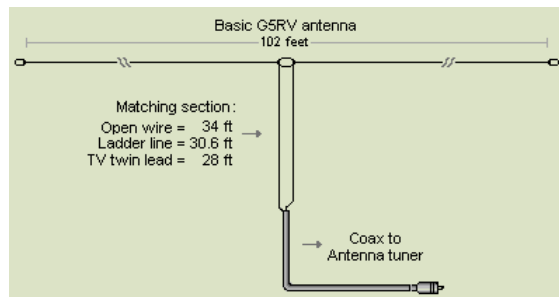
So, I was thinking about the G5RV Junior antenna I have stored in the go box for my FT-817. I have not used it much, but it seems effective when I do use it. I will have to get it out and check the SWR on all the bands. I don't think it would be much harder to set up than the end fed antenna.

For those not familiar with this version of the G5RV antenna, the design is like the 80 - 10 G5RV antenna. The difference is that this antenna is half the size and only covers 40 - 10 meters. This seems fine for POTA activations. I do not use 80 meters a heck of a lot.

For those wanting to check out the G5RV full sized antenna, or the Junior sized antenna, look at this web page: [G5RV Multiband HF Antenna](#)

I might have to miss the August meeting. I will be having a heart valve replaced on August 5th. Darlene will probably make me stay home. We'll see what happens.

73, Don, W8PEN



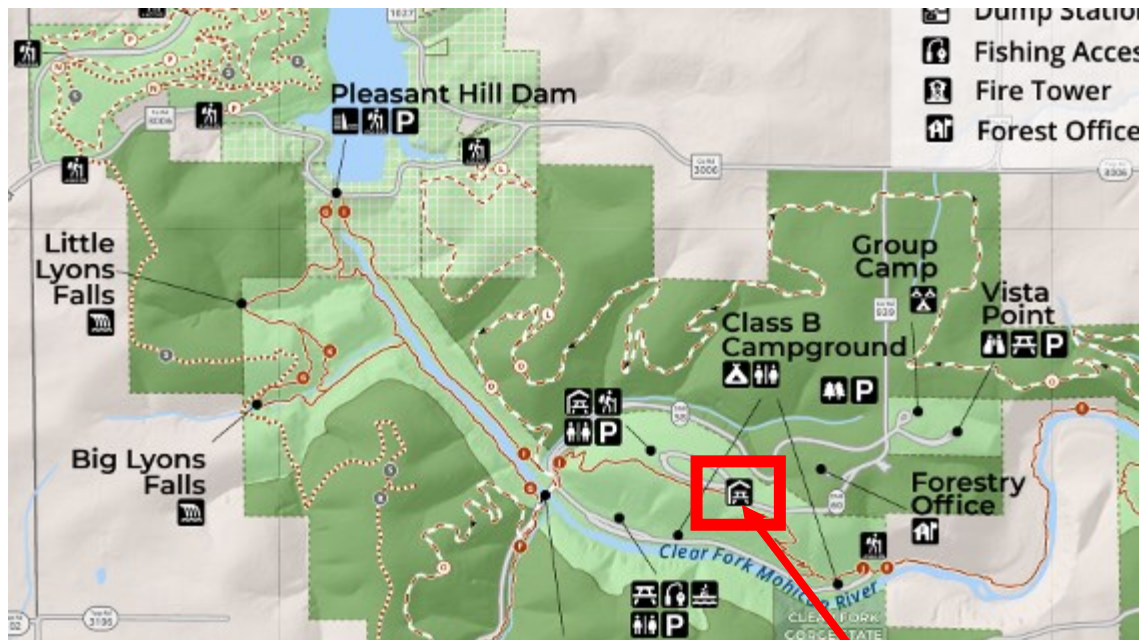
Russell Family 2024 Fishing Expedition



Biggest Fish of the Week



MVARC will participate in OSPOTA from Mohican State Park. [Map](#)



- Dump Station
- Fishing Access
- Fire Tower
- Forest Office

The Portage County Amateur Radio Service, Inc. (PCARS) announces the 17th annual

Ohio State Parks On The Air



17th annual Ohio State Parks On The Air contest

Saturday, September 7, 2024, from 1400 UTC to 2200 UTC
(10 am to 6 pm Eastern Time)

There are **75** Ohio State Parks
Make a day of it and join us in the **FUN!**

Visit a beautiful Ohio State Park
and have some
Amateur Radio Fun at the same time!



Rules? Entry Forms? Logs? Ohio State Park Information?
Check out all the details at: www.OSPOTA.org

Also, visit the OSPOTA IO Group at: <https://groups.io/g/OSPOTA>
While you're at it, check out the PCARS web site at: www.portcars.org

January 2024

Location of
MVARC OSPOTA
activity.
HOPE to see **YOU**
there!

Miscellaneous Rambling

Terry Windsor, KI8N



I know this is starting to sound like a broken record but still no progress on getting my tower back upright. Just wasn't a priority last month. Have a plan together and hope to execute it in August.

I really haven't been very active on the radio anyway so

not missing not having the triband and dipole antennas in the air. Instead I focused on completing projects that have been on my to-do list for at least a year.

I did participate in POTA Support Your Parks weekend 7/20. I activated Mohican State Park from the shelter we will be using for OSPOTA. I made 71 contacts in my tenth activation at this park. I used an Icom 7100 with Hustler Resonators mounted on a tripod.

Most of July I spent working on projects that have been delayed and I knew I should be able to complete. The first was painting the interior and cabinets in the motorhome. Everything was a dark color and it felt like a cave when the sun set. Went with white walls and lite blue (atmosphere) cabinets. Seems so much brighter than it was.

Next, I painted the wooden walls inside the large 40 x 60 building (external garage) behind the house. I again went with white paint. Needed to brighten the interior instead of either unpainted plywood or faded white plywood with staining bleed through. Turned out to be a much larger project, time consuming wise, than I thought it would be. This also led to clearing out some unneeded items that were either given away or tossed.

My latest project was replacing the carpet, padding, and seat belts in the 1969 Mustang. The old carpet and padding had a very musty smell that made the interior unpleasant. I bought the new molded carpet before I got sick so this project had been on my schedule for over a year. It is exhausting taking the seats, center console, kick panels, seat belts, and back seat trim panels out of the car. This is especially true with my lagging energy and stamina levels and then add in the heat and humidity.

I also added sound deadener/insulation to the floor in hopes the car will be quieter and a little cooler without engine and exhaust heat radiating upward. However, with the new three point seat belts the car should be

safer to drive instead of just having lap belts. I just finished this project on August 1 and the interior of the car is much nicer looking.



My next project is to pull the engine out of the 1964 Galaxy 500. This is another project that has been on my list for over a year. I want to clean and paint the engine, replace the oil pan, change a bunch of gaskets to eliminate leaks, and detail the engine bay. I had thought I would have this done last winter and be driving the car by now but God had other plans for me.

Moving into something radio related, if you would like to listen to or participate in discussing POTA activities the Black Swamp Amateur Radio Club located in Ohio has a weekly net just for this.

Black Swamp POTA Net is a weekly net held at 7:30pm EST (currently 23:30) every Tuesday. The Net is comprised of 1 round of POTA related topics and hosted by Mark Raine KB8QJF, all licensed amateurs are welcome to check in. The node numbers to join in the conversation, or simply just listen in, are: K8BSR-L Allstar - 501240 and EchoLink-7550.

I haven't attended one of their sessions yet but keep intending to. July just went by too fast and usually by 7:30 pm I was worn out. But, I am interested and plan to listen in to at least one of their nets in August.

Another activity I usually try to participate in is coming up this month on the 24th; the [Ohio QSO Party](#). I enjoy giving out Morrow County as it is rarely represented and becomes a sought after multiplier. Click on the link to see the rules, times, modes, and bands.

My last item is Don's mention that he is having a heart valve replaced 8/05. Keep him in your thoughts and prayers that the procedure goes well and he heals quickly.

Now back to your regularly scheduled day, me working on my project list, and hoping everyone is radio active!

"Be safe and Ham it UP"!



August First Friday

Terry Windsor, KI8N



The Mount Vernon First Friday event, 8/02, was attended by five club members: Frank, KC8EVS, Michael, KE8HGE, Roger, KE8ICI, Wendell, KE8NUX, and Terry, KI8N and Cath.

We had a KX3 set up as an FT8 station, a CW keyer and oscillator and an HT programmed for the Mount Vernon 2-meter repeater. Along with several handouts from MVARC and the ARRL.

We had a few people stop by and ask about ham radio, testing, and some took the trifold brochure and ARRL information.

However, about 7:15 pm a massive thunder storm rolled into the area. Strong winds tried to move the canopy but with assistance from Frank's daughter-in-law and grand children we were able to hold it in place. The rain came down in buckets which effectively rained out First Friday activities. Around 7:45 pm we were able to retrieve our vehicles and pack up the canopy and equipment.

The event started as a good set up, saw people we knew, talked to some people about ham radio, and it was initially nice outside. Then, the storm slid in and put a halt to First Friday.

Hopefully we will be able to do this again next year and just maybe a few more club members will assist.

"Thanks for letting me relive some very good times." Don, W8PEN



August First Friday
Photos by Frank, KC8EVS



ARRL VEC

ARRL VEC Program's Future

This article is from the July ARRL "QST Magazine" page 79, Maria Somma, AB1FM.

The role and importance of the VEC system have not diminished over the years: most hams today never had the experience of sitting for an exam in front of an FCC official at an FCC field office. The VEC exam sessions provided are far more convenient and plentiful than any FCC-commissioned examinations. VE teams can administer exams online at any time or in person at any location according to local needs.

Today, our VEC program is more than just amateur radio examinations. We also serve the FCC and support the amateur radio community in many functions. We are special event call sign coordinators, club call sign administrators, question pool writers, and a knowledgeable information source for a wide range of licensing matters.

2024 will be the last year that the ARRL VEC will create, print, and ship new examination booklets (for the ever-changing question pools). This will move us one step closer to our complete digital transformation. VE teams using paper tests will need to transition to the online exam platform in 2025. Shifting teams to this system will reduce VEC printing, storage, shredding, and shipping (both to and from the team).

We hope our VE's are willing to take on this endeavor with us as we continue to move toward electronic testing, as it is vital to the amateur radio community. We will be here every step of the way to ensure a smooth transition as we remain committed to offering quality programs and services, providing a superior experience for our customers, and demonstrating our capabilities and value to the public.

These strategies will help our program remain strong and active in the amateur radio community. Our commitment to delivering a fast, easy, and affordable solution allows teams to speed up FCC license grants for customers. Hopefully, this will give us the traction to grow the amateur radio community more than ever.

Stronger results will be attained by meeting our VE teams' and examinees' expectations, being less dependent on the US Postal Service and paper filings, and

achieving higher customer satisfaction due to the shorter wait times for license issuance.

The COVID-19 pandemic served as a catalyst to accelerate changes that were already under way. We know that we must keep an eye on our future and new technology, and we must be poised to thrive in the electronic testing world.

We recognize the need to create a better digital experience for our customers and members, and we are committed to providing an honest, reliable examination system. Overall, we are proud to serve the community. We've accomplished so much in the past 40 years, and continuing to move forward will protect amateur radio for future generations.

Editors Note: MVARC VEC and VE Considerations

Based on the above ARRL VEC article will MVARC move forward with technology—electronic testing— or will we be forced to terminate our testing program?

Our Directors and VEC need to meet and determine a plan for future testing. To change from paper to electronic testing will require a monetary outlay to have functioning computers available and consistent internet access.

Further, will this electronic change mean the club needs members certified as CVE's with Exam Tools and VE's registered with Exam Tools? One last question, what will this do to our current classes if we are not going to provide testing opportunities?

MVARC Directors time to step up, the ball (and future) is in your hands.



FM Repeater Nets In And Around Knox County

County	Net	Frequency	Day and Time
Coshocton	CCRA	147.045 PL 71.9	Every Sunday 9:00 PM
	ARES	147.045 PL 71.9	Every Monday 8:00 PM
Delaware	Monday Night Net	145.170 PL 74.4	Every Monday 8:00 PM
Knox	ARES Sunday Night Net	146.790 PL 71.9	Every Sunday 9:00 PM
Licking	N8RA Tuesday Night Net	146.880 PL 141.3 444.500 PL 141.3	Every Tuesday 9:00 PM on the 146.880 except for the last Tuesday of the month they check in on the 444.500 repeater.
Morrow	Morrow County Information Net	146.775 PL 107.2	Every Sunday 9:00 PM
Richland	IRAC Net - Mansfield	146.940 PL 71.9	Every Wednesday 8:00 PM

Join us every Sunday night on the Mt. Vernon 146.79 repeater for our weekly **MVARC ARES Sunday Night Net. Check-in starts at 9 pm.**

Unable to access the repeater from where you are? We are on IRLP (EchoLink) K8EEN-R Node 809800.



“We had a few people stop by and ask about ham radio, testing, and some took the trifold brochure and ARRL information.” Terry, K18N

Final Takeaway

How do you do research for new, or at least to you, ham radio items such as; radios, tuners, antennas, power supplies, software, and coax? Hopefully you do your research prior to purchase and not just buy and hope it works like you planned. Let's start with radio purchases. The first place I go to review a radio is the manufacturers web page. Each manufacturer will have manuals, brochures, and other related manuals on their resource page. You can look up each model and compare base rigs, HTs, or mobile radios. Check out the specifications and methods to upgrade firmware. Usually there is also a listing of additional items for that specified radio.

[Icom](#)—[Yaesu](#)—[Kenwood](#)—[BridgeCom](#)—[Alinco](#)—[TYT](#)

Another method of comparing radios is to look at individual retailer web pages. Looking at specifications, prices, rebates, and availability. My favorite retailer web pages are; [DX Engineering](#), [HRO](#), [R&L](#), [Main Trading Company](#), and [Gigaparts](#). Most of these retailers will also list accessories that work with these radios and if there are any rebates available.

Another place to locate information about the radio(s) you are interested in is to search on [YouTube](#). There are typically a wide range of good and bad videos showing unboxing, hooking up, adjusting the menus, and operating.

Finally, I check the reviews for the radios I am interested in; [eHam.net](#). After all buying a new radio is a hit to the budget and the entire point of researching and checking reviews to ensure you only spend your money on a radio that meets your needs.

Perhaps another part of the process is to check with member's of the club regarding their knowledge and experiences. However, one the most annoying questions is; What is the best radio—accessory—antenna—coax out there? No one can accurately define what is best as this varies on your use and expectations.

All of the above research works for each major component you plan to purchase. I especially like to look through ham radio catalogs reading about various items. Note that some retailers are moving away from expensive to print catalogs and only have a webpage to peruse. Another place to check on radio related items is QST Magazine. Each month has a review of some piece of equipment where the lab puts the item through its operation and usage. If you are an ARRL member then you can search the QST archives for information.

Discontinued Menus:	Portable Rx	Tabletop Rx	Wideband Rx	Scanner Rx	Speakers	Decoders	HTs	Mobiles	Base	Multi	Amps	Tuners
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ALINCO	HT	DJ-190T	DJ-190T	DJ-120T	DJ-160T	DJ-167T	DJ-175T	DJ-180T	DJ-191T	DJ-195T
		DJ-196T	DJ-280T	DJ-296T	DJ-460T	DJ-500T	DJ-580T	DJ-582	DJ-596T	DJ-C1T
		DJ-C4T	DJ-C5T	DJ-C7T	DJ-F1T	DJ-F4T	DJ-G1T	DJ-G5TH	DJ-G7T	DJ-G9T
		DJ-MD5T	DJ-MD4B	DJ-S40T	DJ-S11T	DJ-S45T	DJ-V5TH	DJ-V17T	DJ-V27T	DJ-V47T
		DJ-V57T	DJ-VX50T							
	Mobile	DR-03T	DR-06T	DR-110T	DR-112T	DR-119T	DR-130T	DR-135T	DR-140T	DR-150T
		DR-235T	DR-410T	DR-430T	DR-570T	DR-590T	DR-599T	DR-600T	DR-605T	DR-610T
		DR-620T	DR-635T	DR-638T	DR-735T	DR-B185HT	DR-M03SX	DR-M06T		
	Base	DX-701H	DX-77T	DX-SR8T	DX-SR9T					
	Receiver	DJ-X2T	DJ-X3T	DJ-X7T	DJ-X10T	DJ-X11T	DJ-X30T	DJ-X3000T	DX-R8T	

However, if you are purchasing an older radio and want to find information about this item then the [Universal Radio Quick Radio Index](#) is a good place to look. Here radios are listed by manufacturer and then broken down by HT, Mobile, base, and receiver. Just note that newer radios may not be listed as Universal Radio is no longer in business and updates to the index may not be performed. Please note there is also a menu bar at the top of the Quick Radio Index that lists discontinued products which is handy for really old ham radio products.

One of the hardest items to connect to a radio is an external headset or microphone. Almost always an adapter is needed to interface the product with the radio. This is especially true with [Heil Sound](#) products. Their webpage has a section for amateur radio and an [adapter selector](#) for either the cable or headset/microphone.

One last thing is to be sure you are not being scammed or taken advantage of. Beware of eBay listings for radios with low prices as these may be Japanese market radios and will not work correctly on US band plans. There is no way to change/modify/update these radios to US frequency allotments.

Ohio ARRL Sanctioned Hamfests

The current listing of [Ohio Great Lakes Division ARRL Sanctioned Hamfests](#) coming in August and September 2024.

08/03/2024

[2024 Columbus Hamfest](#)

Location: Grove City, OH

Sponsor: Aladdin Shrine Audio Unit

Website: <https://aladdinshrine.org/hamfest/>



08/10/2024

[Cincinnati Hamfest](#)

Location: Owensville, OH

Sponsor: Milford ARC

Website: <https://cincinnatihamfest.org/>

08/18/2024

[Warren Hamfest](#)

Location: Cortland, OH

Sponsor: Warren Amateur Radio Association

Website: <https://w8vtd.com/>



09/08/2024

[Findlay Hamfest](#)

Location: Findlay, OH

Sponsor: Findlay Radio Club

Website: <https://findlayradioclub.org/>

09/22/2024

[Cleveland Hamfest](#)

Location: Berea, OH

Sponsor: Hamfest Association of Cleveland

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



“Our Directors and VEC need to meet and determine a plan for future testing.” MVARC VEC Article

General Exam Sample Test Questions

G5B09 What is the RMS voltage of a sine wave with a value of 17 volts peak?

- A. 12 volts
- B. 34 volts
- C. 8.5 volts
- D. 24 volts

G5B01 What dB change represents a factor of two increase or decrease in power?

- A. Approximately 2dB
- B. Approximately 3dB
- C. Approximately 6dB
- D. Approximately 9dB

G4B09 When is an analog multimeter preferred to a digital multimeter?

- A. When high precision is desired
- B. When measuring the frequency of an oscillator
- C. When testing logic circuits
- D. When adjusting circuits for maximum or minimum values

Extra Class Exam Sample Test Questions

E6B03 What property of an LED's semiconductor material determines its forward voltage drop?

- A. Junction depth
- B. Band gap
- C. Intrinsic resistance
- D. Junction capacitance

E6C07 What best describes a pull-up or pull-down resistor?

- A. A resistor that ensures that an oscillator frequency does not drift
- B. A resistor in a keying circuit used to reduce key clicks
- C. A resistor connected to an op-amp output that prevents signals from exceeding the power supply voltage
- D. A resistor connected to the positive or negative supply used to establish a voltage when an input or output is an open circuit

E6E07 What type of transmission line is often used for connections to MMICs?

- A. Miniature coax
- B. Microstrip
- C. Parallel wire
- D. Circular waveguide

These test questions are from the current test pools for their respective license classes. How did you do? The answers are on the last page. Practice tests for all license classes can be found here: <https://www.qrz.com/hamtest/>.

Editors Notes

The MVARC Newsletter is delivered to club members via email containing a link to the MVARC webpage, 2024 Newsletters button. We could really use your input - help eliminate missing articles on club events!



Thanks to all for your assistance with the MVARC Newsletter; in 2023 we were selected as fourth best newsletter in the Ohio Section.

Contact email for the MVARC newsletter is: admin@mvarc.net.

MVARC CQ is the official newsletter of the Mount Vernon Amateur Radio Club.

MVARC

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Practice Amateur Radio Exam Question Answers

G5B09—A

G5B01—B

G4B09—D

E6B03—B

E6C07—D

E6E07—B

OUR TOWN



“The rain came down in buckets which effectively rained out First Friday activities.” Terry, KI8N
