

# THE eQRM

JULY 2024

## Happy 4th of July!



## The BVARA in Beaver County Pennsylvania



Beaver Valley Amateur Radio Association

W3SGJ

2M Repeater

145.310

PL 131.8



**On the Cover:** As we celebrate our independence please be safe and have a great time with friends and family.

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### Check into our nets

**Wednesday 2 Meter**

**8:30PM on 145.310 MHz PL 131.8**

**Wednesday 10 Meter**

**9:00PM on 28.470 MHz**

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# Who We Are

## 2024 BVARA OFFICERS

President: Jack Spencer, KZ3Z

Vice President: Dan Grazulis, KB3VSP

2nd Vice Pres.: Doug Lawrence, K3GTX

Treasurer: Pam Spencer, W3PMS

Secretary: Tom Stoops N3XC

Director: Tony Pavilonis, K3AHP

Director: Jim Allen, KC3IXE

Trustee: Doug Hanna, N4YKQ



## MONTHLY MEETINGS

E-Board meetings are now held the Saturday before the monthly club meeting.

VE testing begins at 5:00 PM.

Regular meetings are at 6:30 PM

All meetings are held at the Beaver County Emergency Services Center (A.K.A. The 911 Center)  
351 14th Street  
Ambridge, PA 15003  
on the second Thursday of every month (unless otherwise stated).

2024

Jul 11

Aug Club Corn Roast

Sep 12

Oct 10

Nov 14

Dec Club Christmas Party

2025

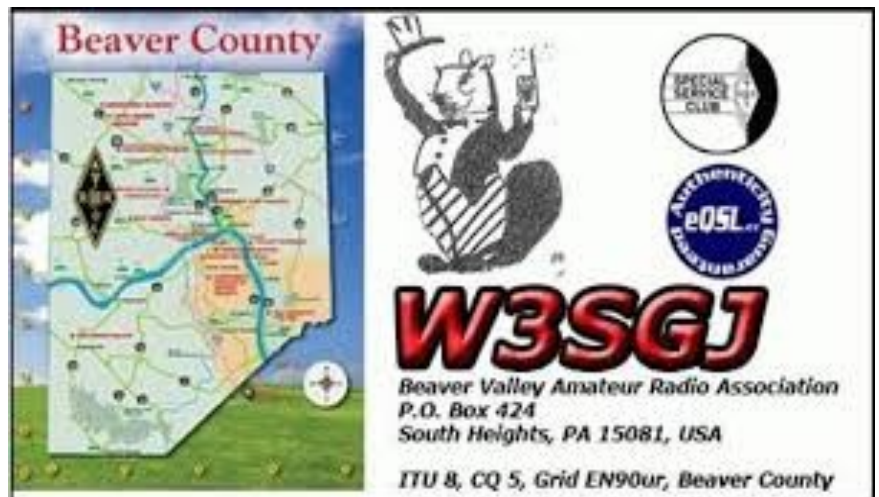
Jan 09

Feb 13

Mar 13

Apr 10

May 08





# This Month

## *This Month:*

### *Speaker:*

Rich Soltesz, K3SOM  
Extra Class Ham, licensed since 1962  
B.S. Electrical Engineering

## **Our Changing Field Day**

Continuing with our BVARA Presentation Series this year, our topic this month is about Field Day 2024 and the new direction that we took. Just as Field Day has changed considerably since it first began in 1933, so too has our emphasis this year. With the improving sunspot cycle with one or two more years left for peak conditions, our attention shifted away from competitive numbers; with the heat and humidity conditions, we simply decided to do our best in 2024.

First, we'll discuss the numerical results that we did achieve. Then we'll look at the advertising and related emphasis in who we are and what we do. The results were quite positive.

But wait, there's more! We'll compare the results of each year since 2012. It's always interesting to look at several key factors, some of which may just surprise you.

Please view our information this year, as we ignored the 95-degree temperatures and the threat of severe winds, thunderstorms, and rainfall. We concentrated on people and their contributions to a very successful Field Day with many new and some old visitors. You just might be amazed at the big footprint that we left in the media walkway of Beaver County and beyond!

**Details for July 11th:** VE Testing: 5:00 pm, Meeting: 6:30 pm, Presentation: 7:00 pm



# More this Month

## Weekly

The Freedom Square Diner in Monaca has a great wait staff. Come let them take your order.

Thursday Morning Breakfast  
(or you can have lunch)

**Come join us!**



**BREAKFAST**

The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.



## See you

**RACES / ARES**  
The eQRM Urges All County Hams to Participate.

The eQRM urges all Beaver County licensed amateurs to participate in the County's RACES and ARES programs. Any Beaver County Amateur that is interested in participating in the RACES/ARES programs can do so by checking into the Beaver County Public Service Net which meets every Monday evening at 8:30 PM local time on the WW3AAA 146.850 MHz repeater (131.8 PL)



# Get your License or Upgrade

If you are interested in getting your first FCC license or upgrading your current amateur radio license, the Beaver Valley Amateur Radio Association holds VE Test sessions (Volunteer Examinations) the second Thursday of each month at the Beaver County Emergency Services Center in Ambridge Pennsylvania prior to our BVARA Club meeting. If there is no meeting there is no test session. Please come take your test with us!

For more information, contact :  
Rich Soltesz, K3SOM  
(724) 847-0610  
k3som@arrl.net



## VE TEST SESSIONS

Beaver County Emergency Services Center 351 14th Street Ambridge, PA 15003.  
Tests begin promptly at 5 pm on the same day as BVARA Club Meetings  
(the second Thursday of the month).  
All classes of amateur radio license tests are administered.



ALL candidates MUST bring ALL of the following:

1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash only.
6. Your FRN Number. (free from the FCC, call for details)





# New License and Upgrades

BVARA VE Testing

## Testing this Month :



### June 2024 VE Test Session Results

Our June VE Test Session had two candidates, with both achieving their license or an upgrade of their license class. Our electronic filing system once again worked superbly.

Testing was conducted at our normal location at the Beaver County Emergency Services Center in Ambridge, PA. Our next VE Test Session will be on July 11<sup>th</sup>, 2024.

Congratulations to:

John Dinkel, N3ZLQ, Extra Class, Aliquippa, PA  
Paul Berendt, KC3TZW, General, Wampum, PA

If you hear them on the air, please congratulate them on their achievement!

All of our BVARA testing would not be possible without the help of the following Extra-Class VE Team members:

Keith Custard – KC3TMC  
Reg Genola – W3REG  
Tony Pavilonis – K3AHP  
Scott Pelkofer - KC3KYZ  
Mick Pyzoha – N3OJP  
Bart Stack – KB3NFM  
Ron Victorelli – KC3TZT  
Bob Winkle – N3AZZ and  
Frank Witkowski – W3FJW

73 from Rich Soltesz – K3SOM, VE Liaison



# Membership Information

By becoming a BVARA member you help secure the future of Amateur Radio in Beaver County. Additionally, the BVARA receives a portion of each ARRL membership you purchase!

## Join the BVARA and ARRL

Sign up for:	Price	
<input type="radio"/> BVARA full membership	25.00	_____
<input type="radio"/> BVARA student membership	15.00	_____
<input type="radio"/> BVARA associate membership	10.00	_____
<input type="radio"/> BVARA Child under 21 at home membership	5.00	_____
One year ARRL membership	49.00	_____
A Club Donation		_____
ARRL Member?    Yes    No	Total    Enclosed	_____

Your License Class (If you have one.)

<input type="radio"/> Technician	Name _____
<input type="radio"/> General	Address _____
<input type="radio"/> Advanced	_____
<input type="radio"/> Extra Class	Email _____
	Phone _____
	Your Call sign _____
	Your Signature _____

Make check or money order payable to:

The Beaver Valley Amateur Radio Association, P.O. Box 424  
South Heights, Pa 15081



# Hamfests & General Announcements



## 2024 NWPA Hamfest Saturday July 13th

Same great location! Open **8:00 am - 12:00 PM** Tailgate setup Starts at **7:30 am** Rain or Shine. **(Inside spots available if it rains.)**

### Amateur Radio, Computers, Fun & Fellowship

Sponsored by the **Wattsburg Wireless Association**

An American Radio Relay League - ARRL sponsored event.

### Greene Township Municipal Building

9333 Tate Road, Erie, PA. 16509

**Talk-ins on 147.315 - 147.915 PL:186.2**

Visit our web page at <https://www.wattsburgwireless.org> for more details and updated information.

**NOTE: 2024 SPECIAL** - Free Hamfest no charge for Tailgaters/ Vendors or attendees. Tables are also free if you need one.

### Highlights:

**FREE Hamfest**

**Tired of Being Stuck in The House?**

**Come on out with something to sell or just come out to visit.**

-Admission Gate Fee—Free

-Tailgating & Parking Area - Free

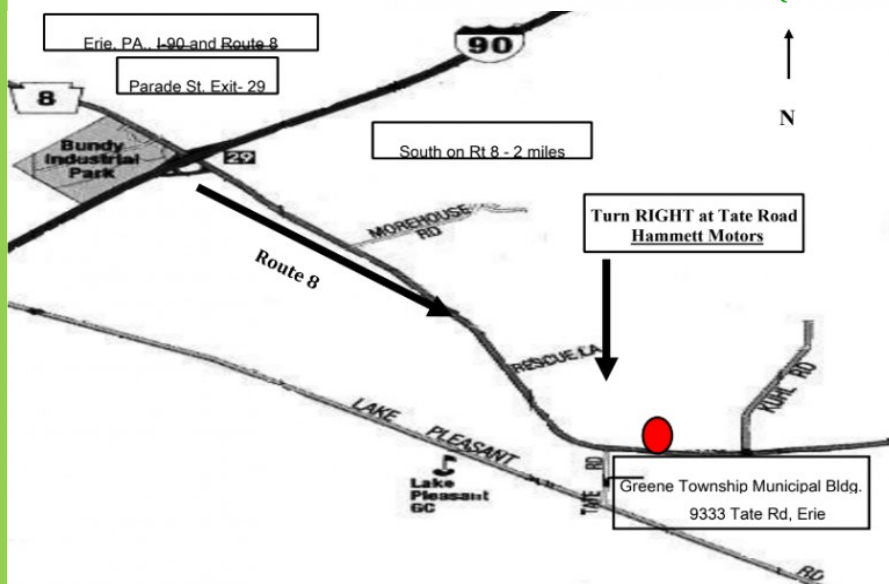
-Flea Market Tables—Free

-RAIN or SHINE

- Coffee, Donuts, Burgers, Hot Dogs,

Pop and Water will be there for sale

\*\*\*\*\* **VE Exam at 9 AM (Prevailing Fees Apply)** \*\*\*\*\*



# Hamfests & General Announcements



## CUMBERLAND VALLEY HAMFEST



**General Admission**  
(16 yrs. & Under Free)

\$ **5.00** Donation

Tailgating

\$ 10.00 Donation

**VE Testing Available**

Register on  
**W3ACH.com**

# July 27, 2024

## 8-2 P.M



### Vendors Info

Indoor Tables:

\$ 15.00 each

(\$ 10.00 each  
5th and up)

(Set up starts  
at 6:00 A.M.)

Special request set up  
maybe  
available

Fri. 6:00 P.M- 9:00

### [ 6 ft Tables ]

Large Show Grounds

Tailgating Area

Indoor Table Spaces

Hourly Door Prizes

Main Prizes: 1:00 P.M

( Must be present to win.)



### VE Testing

Walk-ins Welcome

**Computer & Craft Vendors Welcome**



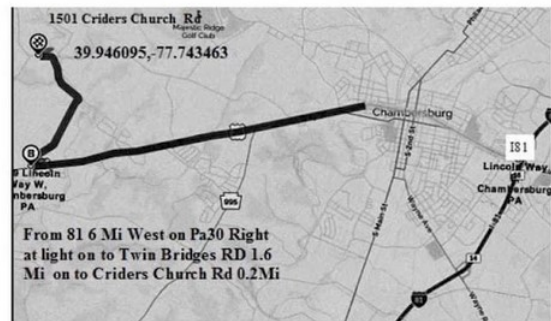
Food will be available for purchase!



Rain or Shine! (No over nighting on grounds)

### Location:

Cumberland Valley  
Engine &  
Machinery  
Association  
(CVEMA)  
Show Grounds



Contact: Cvarcw3ach@gmail.com  
Reserve your table Now!

1501 Criders Church Rd.  
Chambersburg, PA 17202

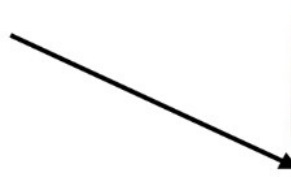
Talk-In 147.120+100pl



# Of Interest to All

Remember back when you could communicate by “Pay Phone” for ten cents? This page is for anyone who wants to communicate with the BVARA community and beyond.

Please send me your article that you would like posted on this page. Please, only topics and language in good taste. As the editor I reserve the option to post it or ignore it. Send your dime to me at: [kc3bxc.73@gmail.com](mailto:kc3bxc.73@gmail.com)





# Of Interest to All



## Field Day 2024 Results and Photos

### Background

The BVARA Field Day event was quite different from previous recent Field Day efforts. Weather was a primary factor in that temperatures reached the mid-90s on Saturday with high humidity and the threat of both high winds and severe thunderstorms on Sunday. As a result, participation was lower than expected. Fewer operators were available or willing to operate, even though radios were available. The BVARA operated W3SGJ with Class 4A and WPA Section from the Old Economy County Park.

The club reserved Shelter 1, as the shelter is high within the park, is more isolated because it is at the loop at the end of the road, and because it has some high trees for shade and for wire antennas for 40 and 80 meters.

The new SpiderBeam Yagi for 10, 15, and 20 meters had been successfully used for the 100<sup>th</sup> Anniversary Event back in April 2023 and for Field Day in June 2023. Because of a personal tragedy in the family of one of the club officers, the intense heat & humidity also a mix-up in locating some key mast parts, members decided not to use of the SpiderBeam. This is what Field Day is all about; the event tests the ability of a club to overcome adverse situations and find ways to fix the problems to continue with the task, whether it be Field Day or a “real world” disaster situation.



# Of Interest to All

It is also an excellent venue for trying out new equipment and antennas while ‘showing the ropes’ to new hams.

Propagation conditions were very good and the band QRN was reasonably low. The next year or two should be even better than what was experienced in 2024. With the exception of 6M, the bands were in very good shape with a large amount of Sporadic E propagation as we predicted.



Here is a view of the site from the side as we prepare to put up a 10-meter Yagi antenna.

## **Pot Luck Dinner on Friday**

Over 24 members and significant others actively participated in the Pot Luck Dinner on Friday evening. Quite a variety of foods enabled an enjoyable dinner and many good conversations, as usually happens at these events.



# Of Interest to All

Here are Jim, Doug, and Doug attaching the roll of plastic table covering to each picnic table in preparation for the arrival of club members and their significant others.



Many conversations between both old and new friends helped to promote a fun evening for everyone. Here are some photos from each end of the shelter.





# Of Interest to All



Some of the couples and groups are shown below.



# Of Interest to All





# Of Interest to All



Just prior to the beginning of Field Day around 1:30 PM, we gathered for some group photos.



# Of Interest to All

Here three BVARA members pose for a photo with Beaver County Commissioner, Jack Manning in the black shirt. Commissioner Manning, thank you for taking time from your busy schedule to come spend time with this 2024 BVARA field day event .



## Site Field Day Preparations, Activities, Visitors, and Cleanup

Following safety practices in generator placement, grounding, antenna locations and caution markings, preparations moved smoothly and the main shelter was used for social conversations and refreshments of food and plenty of fluids during the extreme heat. External shelters were used in various shady areas with fans to make the temperatures more bearable.

The Field Day Server and four clients all functioned with near perfection the entire contest period. Below are photos of each Station.



# Of Interest to All

Station 1 was the 40-meter SSB station with Spencer, KC3YHD during a hot calling CQ streak with Doug, N4YKQ doing the logging. Spencer's mother and brother look on as well as Jim, KC3IXE, as our rookie ham broke all previous records with a peak rate of 156 contacts per hour!



Station 2 was primarily our 20-meter SSB station with Rich, K3SOM taking a moment out to snap a picture of other hams putting up the 10-meter Yagi for SSB. In the background, the left-most tree holds up the 90-foot Vertical Antenna with an SGC Remote Coupler at the base with nine radials of various lengths as long as about 120 feet. The third tree from the left shows the red-colored 1KW Honda Inverter/Generator that powered both Station 2 and 3.





# Of Interest to All

Station 3 used a 10-meter monoband Yagi at about 20 feet above ground. You can see the crowd of hams busy at work in safely putting the antenna together and raising it to a suitable height.



Here is Station 4 with Tom, N3XC operating his Yaesu FT-891 on 15 meters at 100 watts, CW to a Wolf River Coil vertical antenna from a LiFePo4 battery.

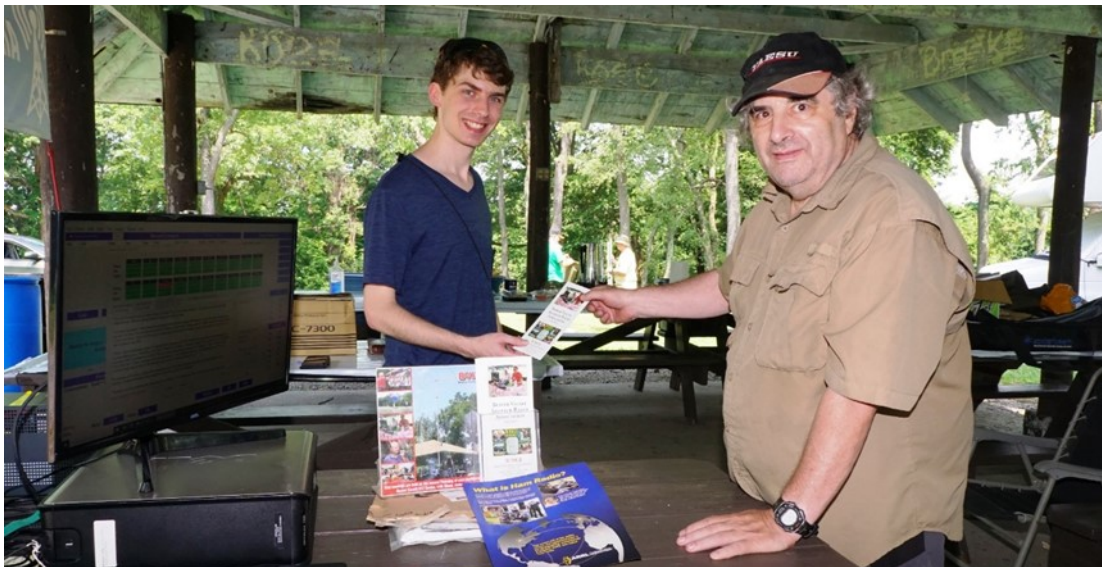


# Of Interest to All

Our Visitor Center was a convenient tool for providing an informative flier for visitors that described our club, what activities we do, and how we interact with the community for local events and possible disaster situations.

Even with the high temperatures and humidity, we had many passersby who stopped to find out what we were doing. We took time to inform them and answer their questions. That interaction is something that we always enjoy.

Spencer, KC3YHD takes one of our BVARA brochures from our Event and Public Relations Officer, Jim Allen, KC3IXE



The photo below shows our Trustee, Doug, N4YKQ shaking hands with Richard Kulbicki, KC3TOO in a red shirt and hat who is employed by the Red Cross in Beaver County with his Red Cross identification badge.

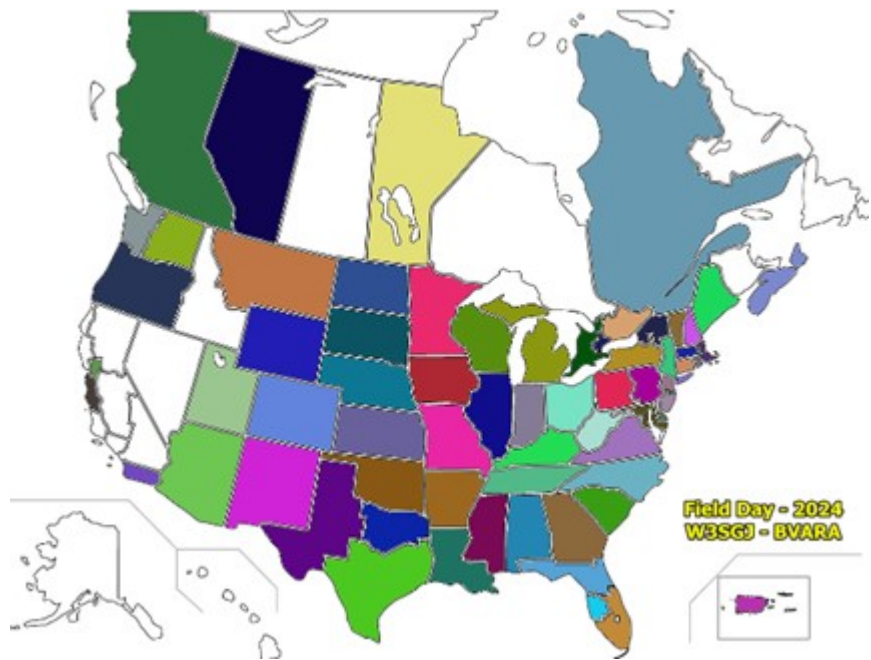


# Of Interest to All

## By the Numbers – Wrap Up

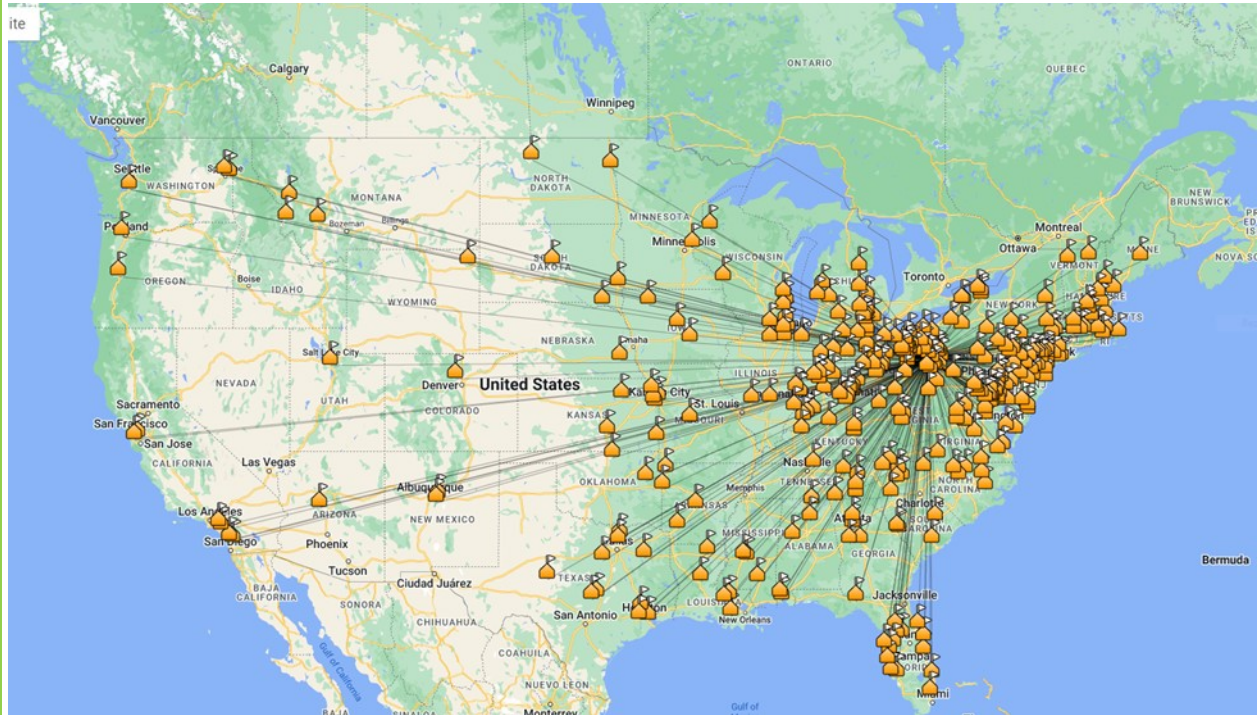
Here are some tables and our map that summarize our results.

Year	2024
<b>Mode</b>	
CW	7
Phone	381
Digital	0
<b>Total</b>	<b>388</b>
<b>Band</b>	
160	0
80	0
40	247
20	116
15	10
10	14
6	1
<b>Country</b>	
USA	354
Canada	25
Puerto Ric	1
Hawaii	0
Alaska	0
US Virgin I	0
Other	8
<b>Misc.</b>	
Operators	7
Class	4A



# Of Interest to All

This map shows where our US contacts were located.



Our July 11<sup>th</sup> 2024 presentation goes into much more depth in reviewing factors that have influenced our performance over the last 13 years.

Our BVARA members always help to take down antennas and restore the shelter for use as customarily expected by the next user. With enough people, these tasks becomes much easier.

## Footnote

Our pro membership to [www.Flickr.com](http://www.Flickr.com) is now being filled in with the missing photos when we had to pause additional uploads. With this professional version, very soon our pictures are being loaded into the Photostream and then into specific Albums that represent our specific club activities. Many more photos are being added and with choices in the resolution of any photos that you wish to download.

Our unexpected visitors from last year that required us to be careful in packing up our gear returned this year.



The BVARA  
Always Has a Great  
Field Day

Rich – K3SOM



# Of Interest to All

**BVARA**



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## July

**The Annual 13 Colonies Special Event, July 1<sup>st</sup> – 11<sup>th</sup>**

**IARU HF World Championship, July 13<sup>th</sup>, CW & PH**

**North American QSO Party, July 20<sup>th</sup> – 21<sup>st</sup>, RTTY**

**Indianapolis Motor Speedway, W9IMS Special Events:  
July 15 - 21: NASCAR 200 at the Brickyard - Operator Schedule**

**Alabama QSO Party, July 27<sup>th</sup> – 28<sup>th</sup>**

**POTA, POTA**

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## August

**BVARA Corn Roast, Old Economy County Park, Shelter 1, August 10<sup>th</sup>, 5:00 PM**

**POTA, POTA**

# Bits and Pieces

Hello everyone,

I have not forgotten about getting my horizontal loop antenna put up. I have had so much to do on the farm, it has taken priority over the antenna build. I will get to it. I just have some other responsibilities to take care of first...

There has been so much that has taken place since last month's newsletter. Field day was one of the biggest events! This year was very hot and muggy! This had a negative effect on all the field day activities. The heat & humidity were bad enough, we had the threat of strong winds and thunder storms too.

We still had a good time with those that participated and the others that showed up to support this year's BVARA field day. All things considered it was a good event! I am already looking forward to next year.

The oppressive heat was a huge factor in not erecting the Spider Beam antenna. Everyone was feeling undesirable effects of the weather and we decided on a simple antenna set-up. Everything radio turned out just fine. We were a little short of operators. It was HOT, even in the shade. I am certain we will all visit about this year's field day at our next Club Meeting. This will help in planning for next year.

One of our big supporters that didn't even have an amateur radio license passed away. Pam and Jack Spencer lost Pam's mom, Shirley Spence. She was always at our BVARA events. Shirley supported our radio events with her donations of enthusiasm, time, food, money and kindness. Some of her support was "behind the scene" most of us didn't even know how she helped. She may not be a silent key but she will be sorely missed. On behalf of all your radio family, Pam & Jack, we are so very sorry for your loss; you have our deepest sympathy.

Till next month, happy radioing and be safe in your hobby activities.

Clear on your final, but I will be monitoring.



73 KC3BXC





# Radio Sport

## Contest Corral

## July 2024

Check for updates and a downloadable PDF version online at [www.arrl.org/contest-calendar](http://www.arrl.org/contest-calendar).

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

	Start - Finish		Bands	Contest Name	Mode	Exchange	Sponsor's Website
	Date-Time	Date-Time					
1	0000	1 2359	1.8-28, 50,144	RAC Canada Day Contest	CW Ph	RS(T), VE pro/terr or serial	<a href="http://www.rac.ca">www.rac.ca</a>
1	1900	1 2030	3.5	RSGB 80m Club Championship, CW	CW	RST, serial	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
2	0000	2 0200	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	<a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>
2	0100	2 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM-YL-youth YL-youth)	<a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>
2	0800	2 0859	3.5	ZL Sprint	CW Ph	RS(T), outside temp (C)	<a href="http://www.nzart.org.nz">www.nzart.org.nz</a>
3	1700	3 2100	144	VHF-UHF FT8 Activity Contest	FT8	4-char grid	<a href="http://www.ft8activity.eu">www.ft8activity.eu</a>
4	0000	5 0300	7	Walk for the Bacon QRP Contest	CW	RST, SPC, name, mbr or pwr; 13 WPM max	<a href="http://qrptest.com/pigwalk40">qrptest.com/pigwalk40</a>
4	1800	4 2200	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid	<a href="http://nrau.net">nrau.net</a>
4	2000	4 2200	1.8-28,50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
5	0145	5 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
6	0000	6 2359	1.8-28	Venezuelan Independence Day Contest	CW Ph Dig	RS(T), serial	<a href="http://radioclubvenezolano.org">radioclubvenezolano.org</a>
6	0800	7 1100	3.5	NZART Memorial Contest	CW Ph	RS(T), serial	<a href="http://www.nzart.org.nz">www.nzart.org.nz</a>
6	1200	7 1200	50,144, 432	TA VHF/UHF Contest	CW Ph	RS(T), serial, 6-char grid	<a href="http://trac.org.tr">trac.org.tr</a>
6	1400	7 1400	1.8-28	Marconi Memorial HF Contest	CW	RST, serial	<a href="http://www.arifano.it">www.arifano.it</a>
6	1500	7 1500	3.5-14	Original QRP Contest	CW Ph	RST, serial, pwr	<a href="http://www.qrpcc.de">www.qrpcc.de</a>
6	2000	7 2000	7	PODXS 070 Club 40m Firecracker Sprint	Dig	RST, SPC	<a href="http://www.podxs070.com">www.podxs070.com</a>
9	0100	9 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM-YL-youth YL-youth)	<a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>
9	1800	9 1929	3.5,7	DARC RTTY Sprint	Dig	RST, (DOK/"NM") or serial	<a href="http://www.darc.de">www.darc.de</a>
10	1700	10 2100	432	VHF-UHF FT8 Activity Contest	FT8	4-char grid	<a href="http://www.ft8activity.eu">www.ft8activity.eu</a>
10	1900	10 2030	3.5	RSGB 80m Club Championship, SSB	Ph	RS, serial	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
12	0145	12 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
13	1200	14 1200	1.8-28	IARU HF World Championship	CW Ph	RS(T), IARU HQ soc or ITU zone	<a href="http://www.arrl.org/iaru-hf-world-championship">www.arrl.org/iaru-hf-world-championship</a>
13	1200	14 2359	1.8-28,50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
14	2000	14 2300	1.8-28	QRP ARCI Summer Homebrew Sprint	CW	RST, SPC, mbr or pwr	<a href="http://qrparci.org">qrparci.org</a>
15	0000	15 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or pwr	<a href="http://www.4sqrp.com">www.4sqrp.com</a>
15	1900	15 2030	3.5-28	RSGB FT4 Contest	FT4	Signal report	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
16	0100	16 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM-YL-youth YL-youth)	<a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>
17	1700	17 2100	1.2G	VHF-UHF FT8 Activity Contest	FT8	4-char grid	<a href="http://www.ft8activity.eu">www.ft8activity.eu</a>
18	0000	19 0300	14	Walk for the Bacon QRP Contest	CW	RST, SPC, name, mbr or pwr; 13 WPM max	<a href="http://qrptest.com/pigwalk20">qrptest.com/pigwalk20</a>
18	0030	18 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, (NAQCC No./pwr)	<a href="http://naqcc.info/sprint_rules.html">naqcc.info/sprint_rules.html</a>
18	1900	18 2000	3.5-14	NTC QSO Party	CW	RST, SPC, mbr or pwr	<a href="http://pi4ntc.nl/ntcqp">pi4ntc.nl/ntcqp</a>
19	0145	19 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
20	0000	21 2359	1.8-28	LABRE DX Contest	CW Ph	RS(T), 2-ltr state or 2-ltr continent	<a href="http://www.labre.org.br">www.labre.org.br</a>
20	0000	28 2359	1.8-28	Maidenhead Mayhem Contest	CW Ph Dig	4-char grid	<a href="http://w9et.com/rules.html">w9et.com/rules.html</a>
20	0700	20 1459	7,14,21,28	Russian Radio Team Championship	CW Ph	RS(T), mbr code or ITU zone	<a href="http://srr.ru">srr.ru</a>
20	0800	20 1400	1.8-7	Trans-Tasman Low-Bands Challenge	CW Ph Dig	RS(T), serial	<a href="http://www.wia.org.au">www.wia.org.au</a>
20	1000	20 2159	3.5-28	YOTA Contest	CW Ph	RS(T), age	<a href="http://www.ham-yota.com/contest">www.ham-yota.com/contest</a>
20	1200	20 1359	1.8-28,50	Feld Hell Sprint	Dig	Mbr, SPC, 4-char grid	<a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>
20	1400	21 1400	70	IARU Region 1 70 MHz Contest	CW Ph	RS(T), serial, 6-char grid	<a href="http://www.iaru-r1.org">www.iaru-r1.org</a>
20	1800	21 0559	3.5-28	North American QSO Party, RTTY	Dig	Name, SPC	<a href="http://www.ncjweb.com">www.ncjweb.com</a>
20	1800	21 2100	50,144	CQ Worldwide VHF Contest	CW Ph Dig	4-char grid	<a href="http://www.cqww-vhf.com">www.cqww-vhf.com</a>
21	0900	21 1600	3.5-14	RSGB International Low Power Contest	CW	RST, serial, pwr	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
21	2300	22 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	<a href="http://qrptest.com/pigrun">qrptest.com/pigrun</a>
23	0100	23 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM-YL-youth YL-youth)	<a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>
24	0000	24 0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
25	1900	25 2030	3.5	RSGB 80m Club Championship, Data	Dig	RST, serial	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
27	0000	28 2359	1.8-28, 50,144	MARAC US Counties QSO Party	CW Ph	RS(T), state and county or "DX"	<a href="http://www.marac.org/contests.htm">www.marac.org/contests.htm</a>
27	1200	28 1200	50	ARAM 50 MHz Contest	CW Ph	RS(T), serial, 6-char grid	<a href="http://www.aram.pt">www.aram.pt</a>
27	1200	28 1200	3.5-28	RSGB IOTA Contest	CW Ph	RS(T), serial, IOTA no.	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
27	1500	28 0300	3.5-28	Alabama QSO Party	CW Ph	RS(T), AL county or SPC	<a href="http://alabamacontestgroup.org/aqp">alabamacontestgroup.org/aqp</a>
28	1700	28 2100	7,14,21,28	ARS Flight of the Bumblebees	CW	RST, SPC, pwr, or Bumblebee number	<a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>
30	0100	30 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM-YL-youth YL-youth)	<a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>