



BARC Newsletter

FIELD DAY 2022

SPECIAL EDITION

Volume 47— June 2022



[BARC 2022 Field Day Overview](#)

Amateur Radio's biggest annual operating activity is just a few days away.

The Bellbrook Amateur Radio Club invites and encourages all its members, prospective members, and friends of BARC to visit its 47th annual **Field Day** exercise Saturday and Sunday, June 25-26, located in and around Shelter #1 at Sackett Wright Park. 2022 marks the 24th straight year BARC has held its Field Day at Sackett Wright Park (or indoors nearby at the

BARC clubhouse when the park flooded), except for 2020 where Field Day was not held in public due to Covid-19 lockdown.

The Park entrance is located on SR-725 just east of Bellbrook, just east of the intersection of SR-725 and Lower Bellbrook Road. Enter the Park and turn left into the first parking lot on the left (at Shelter #1).

Field Day (FD) is an annual nationwide event in which over 2,500 amateur radio clubs and groups involving over 40,000 individuals across the

United States and Canada set up and operate temporary emergency-powered stations as might be required in the event of a disaster situation with extensive loss of electrical power and other infrastructure.

The first ARRL Field Day event occurred in June 1933. **BARC's 1st Field Day was held in June 1976** on the south lawn of what was the Bellbrook Grange and now is the Bellbrook Lions Club Clubhouse (southwest corner of Dayton-Wilmington Road at Conference Road).

To sharpen radio communication skills, the annual Field Day exercise also provides a challenge for field day stations to strive to make as many contacts with one another as possible during a 24-hour on-air operational period. However, Field Day is not a contest.

Field Day also provides an opportunity for clubs to set up a visitor exhibit and to demonstrate for the public the various modes of communication technologies permitted in the FCC Amateur Radio Service. BARC will set up four operational HF stations demonstrating voice, Morse code and data communications. A VHF Field Day voice station also will be operational.

The public has been invited to visit the site on Saturday & Sunday during daylight hours. BARC members and other hams are invited and encouraged to attend **any time** (keep in mind that we always can use additional operators and loggers for the overnight and early Sunday morning shifts).

Remember that Field Day is **NOT** a contest but an operating event to set up and operate communications capabilities as might be required in a disaster situation and to exhibit and demonstrate amateur radio technologies for the public, elected officials, and personnel of served agencies, and to also involve youth. Field Day also offers a great educational and training experience and a great opportunity for non-hams to get on-the-air and make some contacts under the supervision of a licensed operator.

The "Power Crew" will report directly to the park at 0800 to begin setting up the electrical power distribution system for the Field Day stations within the Shelter.

Other Members are also requested to **report directly to the Clubhouse at 0800** to help load

up BARC Field Day equipment and supplies for transport to BARC's Field Day Site at Sackett Wright Park.

A few other designated members, the "Site Prep Crew", have also been requested to **arrive at the park by 0800** to help with some of the preliminary set-up tasks—moving picnic tables out of shelter onto the paved area immediately in front of the Shelter and setting up canopies over those tables. They would also help to set up the coffee station and set up breakfast for the set-up crew at 0930.

Field Day On-Air Operations begins at 1400 local time (2 PM) Saturday and continues through 1400 local time Sunday. Take down will begin at 1400 Sunday and we expect the site to be cleaned up and secured by 1600 Sunday.

Sufficient help will be required on-site at 2 PM Sunday to take down and load up antennas and antenna supports (towers and masts) and to pack up tables, chairs, and station equipment to be transported to and unloaded at the Clubhouse. **Please plan to be available to help!**

BARC emphasizes ***Fun, Food & Fellowship*** in its Field Day activities. Plan now to participate!!

Schedule

| Saturday 25 June (all times are local—EDT) | |
|---|---|
| 0800 | <ul style="list-style-type: none"> All members (<u>except the Power Crew and Site Prep Crew</u>) report to the Clubhouse to help load up and transport Field Day equipment & supplies to the Field Day Site The Power Crew and the Site Prep Crew will report directly to the FD Site to begin preliminary setup: <ul style="list-style-type: none"> Set up the Keurig coffee station Move picnic tables out of the Shelter Install emergency and utility power distribution within the Shelter |
| 0915 | <ul style="list-style-type: none"> Start transporting Field Day equipment from Clubhouse to Field Day Site |
| 0930 | <ul style="list-style-type: none"> Set-up Crew gathers at Field Day Site for Breakfast (Sausage-Egg-Cheese Biscuits provide by Tudor's Biscuit World, Coffee and Orange Juice provided by BARC) |
| 1000 | Continue set-up of: <ul style="list-style-type: none"> Install Flag Pole (Mast 7) with Ringo Ranger 2m Antenna for Station 5 |

| | |
|---------------------------|---|
| | <ul style="list-style-type: none"> • Raise American Flag over BARC Field Day Site • Set up and activate Station 5 (Field Day Site Talk-in on BARC 147.045(+) 2m Repeater & On-site “Unicom Station” on 147.405 Simplex (bring your 2m HT) • Antenna Supports & Antennas • Generators & Electrical Distribution • Tables & Chairs • Stations • Overhead Lights • Logging System • Signage / Banners • Visitors Display • Food Tables / Coolers / Ice / Drinks • Picnic Area Canopies • Tarps • Other incidentals |
| 1200 | Lunch Break for Set-up Crew (coordinated by Tink & Steve Siwecki): Box Lunches |
| 1245 | Continue Set-up & Checkout of Stations |
| 1400 | Commence 24-hr On-Air Operational Period |
| 1730 | BARC Annual Field Day Family Picnic |
| 1830 | Continue On-Air Operations |
| Sunday 26 June | |
| Over-night Snacks & Lunch | <ul style="list-style-type: none"> • Leftover chicken and sides for overnight snacks & Sunday breakfast & lunch (or bring your own food/snacks) • Coffee will be available overnight • Soft drinks and water also available |
| 1400 | <ul style="list-style-type: none"> • Conclude 24-hr Operational Period • Secure Logging System (<u>DO NOT TURN OFF COMPUTERS UNTIL LOGS ARE SAVED!!</u>) • Begin Tear Down |
| 1545 | Transport Equipment to Clubhouse / Unload |
| Approx 1600 | Secure Field Day Site *** (a general inspection & clean-up of any trash/debris—to leave site as good as if not better than we found it) |

Stations

There will be **four HF Stations** set up on four 6-foot tables. All stations will have equal capability to operate SSB or digital modes. Please bring your own favorite key if you desire to operate CW. A key will be provided by BARC on Station 4.

One of the stations will be designated “Solar” and will have battery backup. It will be disconnected from the generators from time to time for solar power credit.

STATION 1 primarily will operate 80m (dipole).

STATION 2 primarily will operate 40m (dipole).

STATION 3 primarily will operate 20-15-10m (rotatable dipole).

STATION 4 primarily will operate 80-6m(vertical).

Site Coordinators will be responsible for managing the band and mode operated by each Station at any given time. ***A patch panel will allow stations to switch antennas, but please do not change band or mode without checking with Site Coordinator. Stations 1-3 have bandpass filters for the band of operation and switching bands without also switching filters will lead to unpredictable results. Thank you.***

BARC Operational Category

BARC will operate Field Day in the 4A category this year. The “4A” designates a Club or group with a maximum of **four HF transmitters** (Stations 1, 2, 3 and 4) operating simultaneously on emergency power and with maximum transmitter output power of 150 watts or less. We will identify as “W8DGN, 4-Alpha, Ohio”, and/or “Whiskey-8-Delta-Golf-November, 4-Alpha, Oscar-Hotel”

Two VHF/UHF “Utility” Stations will be set up on the Station 5 table. These three stations are not included in BARC’s Field Day Operational Category and QSO’s do not count for Field Day points.

- **2m FM Station** will be used for **TALK-IN** on the BARC 2m Repeater (147.045 +) and **ON-SITE UNICOM** on BARC Primary Simplex (147.405 S) – Bring your HT
- **VHF-UHF Winlink Station** will be used for Field Day message handling bonus points

Antennas & Antenna Supports

Six Antennas will be used for BARC's 24-hour Field Day operational period (4 HF and two VHF). Antennas 1 through 4 can be allocated to stations 1 through 4 via the antenna patch panel:

1. An 80m center-fed inverted-V dipole supported by approx. 35 feet stackable fiberglass mast.
2. A 40m center-fed inverted-V dipole supported by the antenna 1 mast, at right angles.
3. A 20-15-10m dipole (tri-band driven element) will be supported atop an "Armstrong Rotatable Mast" on the 35 foot aluminum tower.
4. A Cushcraft R-9 multi-band vertical.

Two other antennas will be used for the "utility" VHF/UHF stations 5-A/B and 5-C.

- A 2m Ringo antenna will be supported atop the 17' Flag Pole for Talk-in Station 5A and Unicom Station 5B
- A dual-band J-Pole antenna will be supported atop 19' mast for Winlink Station 5C.

Summary of FD Stations & Antennas*

| STN | BAND | MODE | ANTENNA |
|-----|-----------|-------|----------------------------|
| 1 | 80m | ALL** | 80m dipole |
| 2 | 40m | ALL** | 40m dipole |
| 3 | 20-15-10m | ALL** | 20-15-10m rotatable dipole |
| 4 | 80-6m | ALL** | Cushcraft R9 Vertical |

* Default configuration

** All = SSB or Digital or CW (bring your own key)

| UTILITY STATIONS | ANTENNAS |
|-----------------------------------|---|
| 2m FM TALK-IN Station (147.045 +) | 2m Ringo on 17' Mast that also supports the American Flag |
| 2m FM UNICOM Station (147.405 S) | |
| 70cm WINLINK Station (445.010 S) | 2m/70cm J-Pole on 19' Mast |

Logging

The N3FJP Field Day Logging Software (networked version) will be loaded on the four (4) Comm Center

Laptops configured in a network for logging all Field Day QSO's.

BARC Field Day Guest Operators

Both licensed and non-licensed visitors to BARC's Field Day site are invited to take a turn at operating one or more of the stations. Non-licensed visitors are permitted by FCC Rules & Regulations to operate under the guidance of a licensed amateur acting as Control Operator.

One way to get started and gain some experience is by "logging" for a station operator. You can learn by listening to what an experienced operator does and then give it a try. It's not difficult and it's OK if you don't do everything exactly right. That's how you learn. So come on out and do some operating!!

BARC Annual Field Day Family Picnic

Don't forget to invite your family to join us for BARC's Annual Field Day Family Picnic at 5:30 PM Saturday 26 June at the Field Day Site—Shelter # 1 at Sackett Wright Park.

The Club will provide Broasted Chicken from Dot's Market along with potato wedges. BARC members are asked to bring a side item or dessert (back to normal at last!).

BARC also will provide soft drinks, coffee, and water along with plates, cups, utensils, etc. Soft drinks include regular and diet Pepsi, Coke, and Sprite. If you desire something else, you are welcome to bring your own. No alcoholic beverages are allowed in the park or in the vicinity of a BARC activity.

If you plan to attend the picnic and have not already sent your RSVP to BARC's Field Day Food Coordinator Tink Siwecki KD8NUA, or replied to the BARC Field Day Survey, please email or call her ASAP (nsiwecki@woh.rr.com) or **937-478-7831**) and let her know how many will be attending in your party. A preliminary chicken order will be placed but can be adjusted as late as Saturday morning.

Coordinators

| | |
|---------------------------|--|
| Field Day Coordinator | Ray Hitt N8VMX |
| Antenna System | Roger Parrett NQ8RP John Westerkamp W8LRJ Paul Sushereba K9SUS |
| Station Setup | Ken Gunton W8ASA Greg Goffe N8DRG Stu Holzer K8ST |
| Power & Electrical | Jim Lusk KC8EFD Greg Goffe N8DRG John Rawson KE8HUV Don Parker KB8PSL |
| Site Coordinators | To be posted at site |
| Visitors' Exhibit | Tink Siwecki KD8NUA Steve Siwecki KD8NUC |
| Social Media | Tink Siwecki KD8NUA Steve Siwecki KD8NUC |
| Lunch & Picnic | Tink Siwecki KD8NUA Steve Siwecki KD8NUC |
| Mailings & Invitations | Ray Hitt N8VMX |
| Safety Officers | Jim Totten WA8HUB Jim Gifford KD8APT |
| Logging | John Westerkamp W8LRJ Stu Holzer K8ST |
| Press Release | Henry Ruminski W8HJR |
| Photography | Don Parker KB8PSL |
| Message Handling | John Westerkamp W8LRJ |
| Table & Chairs Logistics | Darryl Fowler KD8JQE |
| Tables & Chairs Transport | Jim Totten WA8HUB |
| Tower Transport | Jim Lusk KC8EFD |
| Night Shift | Jim Gifford KD8APT |
| Inventory | Ray Hitt N8VMX |
| Education Program | John Westerkamp W8LRJ |
| Copy W1AW FD Bulletin | BARC Members |

Emergency Power

Two 2000-Watt Honda 2000i generators, provided by Paul Sharp KD8OPN, will be alternated to provide near continuous 120VAC power for transceivers and other station equipment. A 100-ft 12-2 w/g extension cable will feed the generator output to the Over-Voltage Protection (OVP) at the Shelter. Individual 16-2 w/g extension cables will distribute power from the OVP outlet box to each station. A 120VAC

[emergency power] outlet strip will be available to power each station.

Commercial Power

120VAC commercial power will be used for logging computers, overhead work lights, fans, coffee pot, crock pots, food warmers, etc. 15A outlet strips will be dropped from ceiling outlets to stations and food tables. Clamp-on work light fixtures will be attached to ceiling joist over each station and plugged into ceiling outlets.

Logging

The N3FJP Field Day Logging Software (networked version) will be loaded on the four (4) Logging Laptops and configured in a network for logging all Field Day QSO's.

Internet Service

A secure Wi-Fi Router will be available at BARC's Field Day site for members and visitors. See John Westerkamp, Stu Holzer, or the sign at the Visitor Display Table for Username and Password. This internet "hotspot" will accommodate multiple users.

Shelter Layout Plan

Attached is a drawing of the Shelter Floor Plan showing the location of the Stations, the Visitor's Information Table, and the Food Tables. The Educational Program will be presented under the tent in the parking immediately in front of the Shelter but is not shown on the diagram.

Tables

The Shelter Layout Plan calls for nine (9) tables:

- Four 6-ft tables for Stations (BARC tables)
- One 6-ft table for Winlink / Talk-In (BARC) / Visitor Information Display (BARC tables)
- One 6-ft table for Food Support & Coffee Pot (Church tables)
- Two 6-ft tables for Food Set-out and Serving (Church tables)
- One 6-foot table for Education Program (located under BARC canopy) (BARC table)

Chairs

Sixteen (16) metal folding chairs will be transported for the station operating/logging positions and the Educational Presentation table.

Picnic Tables & Chairs

The picnic tables in the shelter will be moved onto the parking lot under tent and canopies for Field Day.

Members are requested to bring folding lawn chairs and portable tables to provide additional seating for members and guests during the Saturday BARC Annual Field Day Family Picnic.

Operators & Loggers

All BARC members are encouraged to take a turn at operating and logging. We will have plenty of stations so that everyone will have an opportunity to do some operating. We also recommend teams of two for each station—one to operate and one to log. Logging is an excellent way for newer hams and prospective hams to learn Field Day and contesting procedures and to gain experience. Operators and Loggers can trade off periodically as desired.

Training on equipment operation and the logging program will be provided, as needed, for both operators and loggers.

Headphones

Please use headphones when operating stations in the shelter to minimize ambient noise and distractions. With multiple stations operating in proximity, the use of headphones is very important. "Y"-adapters are provided to permit two sets of headphones per station. Feel free to bring your own headphones, or use the BARC-provided ones.

Operational Courtesy

During the Field Day operational period, **PLEASE hold your casual conversations and discussions away from the immediate vicinity of the stations and operators.** The picnic table area under the tent and canopies is an ideal area for casual conversations and socializing. This will reduce the background distractions within the Shelter and help operators focus on their QSO's.

Food Plan

Breakfast: Sausage-egg-cheese biscuit breakfast sandwiches, coffee and orange juice will be provided for the set-up crew at 0930 at the Field Day Site in the picnic table area. A big thank you to Tudor's Biscuit World for making the breakfast sandwiches.

Lunch: BARC will provide lunch for the set-up crew from around 12 noon to 1 pm, along with the usual variety of soft drinks, coffee, and water. Thank you to Tink and Steve Siwecki for providing the box lunches.

Picnic: The Club will provide broasted chicken and potato wedges from Dot's Market for the annual BARC Field Day Family Picnic at 5:30 PM. Members are asked to bring a side dish. Soft drinks, water, ice and coffee will be provided by the Club during Field Day set-up, operations and tear-down.

Snacks: Leftover broasted chicken and leftovers from lunch and the picnic will be stored on ice in coolers and available for overnight snacks and Sunday breakfast and lunch. Also, soft drinks, water, ice, and coffee will be available.

If you prefer something else, you are welcome to bring your own snacks, food, and drinks. Alcoholic beverages are not permitted in the park or in the vicinity of a BARC activity.

Coolers

Several large coolers will be used for storing soft drinks, bottled water, food leftovers and extra ice. BARC will provide the ice.

Each cooler will contain one specific beverage—Diet and Regular Coke, Pepsi and Sprite, and bottled water. Others will store left-overs.

Dining Canopies

Dining canopies will be set up on the paved parking lot in front of the shelter to cover the picnic tables and members' provided tables and chairs. BARC now owns two large 12' x 20' tarp canopies to use for this purpose.

Site Coordinators

A designated **Site Coordinator** will always be available to coordinate any band/mode changes. Each designated Site Coordinator will be an Extra Class licensee and will be responsible as **Control Operator** for all BARC's Field Day operations during his/her shift. Check with the Site Coordinator regarding any questions about frequencies, modes, transceiver operation, antenna matching, logging, or suspected problems, etc.

Field Day Equipment Transport

All Members (**except Antenna Crew, Power Crew and Site Prep Crew**) are requested to report to the Clubhouse at 0800 Saturday to load up and transport items to the Field Day site. Field Day items include tables, chairs, station equipment, antennas, coax, guy ropes, guy stakes, support items, food serving supplies and associated items. Most will be in totes and tubs ready to load up and transport, some of which are already loaded into the trailer.

Help will be needed again Sunday afternoon to take down antennas, pack equipment and return these items back to the Clubhouse. Please plan to help!

Field Day Points Scoring

A point system is used to evaluate the performance of Field Day sites and operational activities. This creates a sense of friendly competition between Field Day groups while honing technical operating skills and demonstrating ham radio for the public.

QSO Points:

- One point for each phone (Voice) contact.
- Two points for each CW (Morse Code) contact.
- Two points for each DATA contact.

Power Multipliers:

- Five point multiplier if **all** contacts are made using 5 watts or less transmitter power and using battery or alternate power source (only two points if using commercial or generator).
- Two point multiplier if **all** contacts are made using 150 watts or less transmitter power.
- One point multiplier if **any** contacts are made using transmitter power greater than 150 watts.

All BARC Field Day HF transmitters will operate at 100 watts or less and earn the 2X multiplier.

Bonus Points

Bonus points may be earned by accomplishing specific extra requirements. BARC's current Field Day Plan anticipates accomplishing the following bonus points:

100% Emergency Power: 400 bonus points earned for four HF transmitters operating on emergency power.

Media Publicity: 100 bonus points for press release to newspapers and for Bellbrook TV spot (now running on Bellbrook TV (Spectrum Cable Ch-5 in Bellbrook area).

Social Media Publicity: 100 bonus points for actively promoting BARC's Field Day Exercise on social media during Field Day operations.

Public Location: 100 bonus points for setting up at a public location (Sackett Wright Park).

Public Information Table: 100 bonus points for Visitors Display and Public Relations.

Message to SM or SEC: 100 bonus points for originating and sending the BARC Field Day report

to the Ohio Section Manager or Ohio Section Emergency Coordinator.

Message Handling: 10 bonus points each for up to 100 points max for originating, receiving or relaying messages in standard NTS format via RF from the Field Day site.

Site Visit by Elected Official: 100 bonus points for site visit by at least one elected official.

Site Visit by Served Agency Representative: 100 bonus points for site visit by at least one representative from a served agency.

W1AW Field Day Bulletin: 100 bonus points for accurately copying the special ARRL Field Day Bulletin transmitted by W1AW several times during Field Day weekend via CW, phone & digital modes.

Educational Activity: 100 bonus points for conducting a formal diverse educational activity related to amateur radio during Field Day.

Youth Participation: 20 bonus points for each person aged 18 or younger who completes at least one QSO from the Field Day site during the FD operational period (maximum of 100 bonus points). If a youth makes a contact, please annotate the paper log so we can claim credit.

Alternate Power Use: 100 bonus points for making five (5) QSO's without use of commercial or petroleum driven generator (for example, solar, wind, methane, water, hand-cranked generator, or battery charged by natural or alternate power source.

Safety Officer: 100 bonus points for having site Safety Officers observe all Field Day related activities, promote safety, and prepare an evaluation report for submittal with BARC's Field Day entry to ARRL HQ.

Web Entry: 50 bonus points for submitting BARC Field Day entry to ARRL HQ via web site

Winlink Station

A UHF Winlink Station will be set-up for Message Handling bonus points and to demonstrate Winlink. The BARC Field Day Winlink station will be used to send email messages through the Winlink amateur radio Global Email Network via the recently installed Greene County ARES W8GCA-10 UHF Winlink Gateway. A Winlink HF Station also may be used to access HF Gateway stations in the USA and other locations in North America.

BARC 2022 Educational Program

BARC will earn an extra 100 Bonus Points for presenting an Educational Program during its 2022 Field Day event.

The Field Day Education Program for 2022 will be an antenna lab. Jim Dean, W8UD is planning to construct a 10m dipole and then measure its performance with an antenna analyzer and/or NanoVNA.

[Bring Your Camera](#)

Please bring your digital camera to Field Day and help document the event. We would like more photos of people and things—set up, operations, meals, stations, equipment, operators, towers and antennas, educational activities, visitors, generators, signage and banners, etc. Compose some good shots that help tell the story of a BARC Field Day. Then, after Field Day, send your photos to the Field Day Coordinator for BARC's annual **Field Day Photo Review** at the August Club meeting and for BARC's Field Day archive. We also want to have a great Field Day photo presentation on our website, and the July *Full Quieting* Newsletter.

[BARC's 1st Field Day Event](#)

2022 marks BARC's 47th annual Field Day event. BARC's first field day was held on June 26, 1976, on the south portico of the Bellbrook Grange building located at the intersection of Wilmington-Dayton Road and Conference Road—near the Sugarcreek Reserve.

The set-up of one station commenced around 10:00 AM and Field Day on-air operation began at the usual 2:00 PM ET and continued to around 8:00 PM. Details are a little foggy at this time but Henry Bussey, Fred Stone, and a few other BARC "charter members" participated in this short but fun event. We've come a long way in the past **47** years!!

[BARC Turns 47 on the 4th of July](#)

Happy Birthday, BARC !!

The Bellbrook Amateur Radio Club was officially founded on July 4, 1976, our country's 200th birthday, by 20 charter members. However, the group was initially organized in the summer of 1974 as the **Communications Support Group** for the Bellbrook-Sugarcreek Disaster Plan established following the April 3rd, 1974 "Xenia Tornado."

[Questions, Suggestions, Feedback](#)

Questions, suggestions, feedback, concerns, and complaints are welcome to help BARC evaluate its

Field Day activities. Most of what BARC does for its Field Day activities and how it is done has been optimized over the past 47 years based on members' interest and preferences. Send your comments via email to BARC President Paul Sharp, KD8OPN at: psharp1@woh.rr.com or BARC Field Day Coordinator Ray Hitt, N8VMX at hittra@gmail.com.

[Field Day Talk-in Station](#)

BARC's Field Day Talk-in Station will be operational on BARC 147.045 (+) (no PL) Repeater as early as possible to help guide members and visitors to Sackett Wright Park on the west side of SR-725 just southeast of the intersection of SR-725 and Lower Bellbrook Road. Enter the park driveway and turn left into the first parking lot on the left—you'll see Shelter #1 there. Please leave the row of parking spaces in front of Shelter open for off-loading equipment and supplies—park in center of parking lot. Thank you.

[Dedication](#)

This Special Newsletter is dedicated to Fred Stone, W8LLY (sk). Fred devoted a significant part of his life to Amateur Radio and to his friends in the Bellbrook Amateur Radio Club. This Newsletter Special Edition is formatted the way Fred always preferred and reflects his unique style. 73's Fred, keep an eye on us, will you?



2022 BARC Field Day Shelter Layout