



Yavapai Signal

The Yavapai Amateur Radio Club – Prescott, Arizona – DM-34 – Volume 35 – No. 9 – September 2020

Upcoming Club Events				
Event	Date	Time	Place	Contact / Info:
General Meeting	September 3, 2020 Thursday	To Be Determined	Virtual via Zoom	Prior notification by email
YARC Breakfast	September 17, 2020 Thursday	0800 MST 8 a.m.	BackBurner Restaurant, Prescott Valley	Don WB7TPH or Jeff WB7RFY
Transmitter Hunt	September 5, 2020 Sunday	1300 MST 1 p.m.	OneAZ Credit Union parking lot, Gail Gardner Way & Willow Creek Rd., Prescott	Pete K6VVR or John WB9VGJ
Amateur Radio License Testing — See the Vice President's message on page 3.				
Breakfast and Lunch Gatherings — See page 10.				

YARC:	Badges	Patches	Shirts
Features:	Name & Call	Club Name & Logo	With or Without Name & Call
Contact Person(s):	Sam Prather K7SCP	Sam Prather K7SCP	Pete Morrison K6VVR
Cost:	\$8.00 each	\$3.00 each	Without Name & Call \$20.00 — With Name & Call \$24.00 each

Club Website Registration
In order to receive the <u>Signal</u> (the club's official newsletter), you must be a member of the club. Make sure your email is correct by logging into our website (www.w7yrc.org), then clicking on the members tab and viewing your profile.

Welcome to the Yavapai Amateur Radio Club

The Yavapai Amateur Radio Club (YARC) is an ARRL affiliate Special Service Club. The club participates in many activities in the quad-city (Prescott, Prescott Valley, Chino Valley, and Dewey-Humboldt) area by providing communications for local events, emergency communications, and promotion of the hobby throughout the community.

Membership in YARC is open to any interested amateur or non-amateur alike. Dues are \$20.00 per year (full-time students \$15). YARC general meetings are usually at 1900 MST on the first Thursday of every month at the Danny Freeman Building, Prescott Rodeo Grounds, 840 Rodeo Drive in Prescott.

www.w7yrc.org

YAVAPAI AMATEUR RADIO CLUB – PO BOX 11994 – PRESCOTT AZ 86304-1994

Club Nets

Band	Mode	Frequency	PL	Night	Time
2M	FM	146.880 MHz	- 100.0 Hz	Wednesday	1900 MST
2M	SSB (USB)	144.250 MHz	N/A	Wednesday	2000 MST
10M	SSB (USB)	28.444 MHz +/- QRM	N/A	Thursday	2000 MST
70cm	FM	447.650 MHz	-100.0 Hz	Wednesday	1900 MST
70cm	FM	447.650 MHz	-100.0 Hz	Saturday	0900 MST

Yavapai County ARES/RACES Nets

2M	FM	147.260 MHz	+103.5 Hz	Monday	1830 MST
2M	FM	145.290 MHz	-127.3 Hz	Monday	1900 M

Club Repeaters

2M	FM	146.880 MHz	-100.0 Hz	Open Use 24/7	Open Use 24/7
70cm	FM	447.650 MHz	-100.0 Hz	Open Use 24/7	Open Use 24/7

Submission Deadline for the Yavapai Signal

from editor Loren Singh, AE7CG

The usual deadline for submission of articles and photos to appear in the Yavapai Signal is the 18th calendar day of each month. That gives me time to edit and format submissions, and to have the newsletter available for distribution to the club membership by the 20th calendar day of each month. The aim is to have the newsletter in the hands of club members approximately 10 days or so before the holding of the general meetings on the first Thursday of each month.

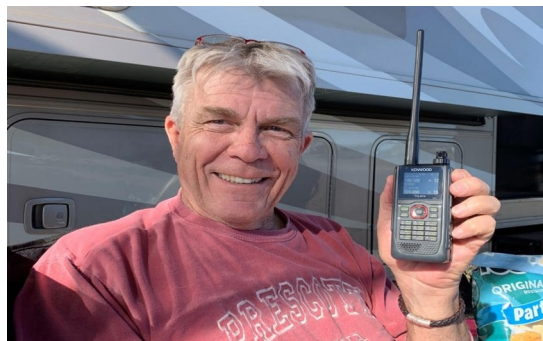
ae7cg@arrl.net

Share Your Surplus Items

Bring any ham related surplus items that you no longer need to the next club meeting. There will be a table at the meeting where your items can be placed. Let your fellow club member take those things that they want. The table will be available at each monthly meeting.

Canned Food Donations

Bring your non-perishable food items to the monthly club meetings and Terry Pemberton KB7TRE will take them to the local food bank. Give your bagged items to Terry.



From the Vice President's Ham Shack by John Snedden, KT7P

.Summer is in the last phase and we are still caught up in the pandemic shutdown but with a little light beaming through the tunnel in the phased reopening of sorts. It seems we are headed in the right direction again so let us hope we do not repeat the past cycle! It is good to be in Yavapai County and now that schools are back in session, in some form anyway, we will only be a destination area on the weekends. Hope all of you are safe and staying healthy the best way possible!

Some of the YARC's activities are now in play. The Third Thursday Breakfast at the BackBurner has returned following the guidelines for restaurants. The Elmer Group is doing what they can and when they can, with surveys, installs and even removals. Fill out the request online and maybe they can help. Testing has been a big success with new Technicians, Generals and Extras coming out of the July 25 testing date. Again, sign up online so the appropriate precautions can be made. Next testing date is Saturday, August 29, 2020 at the Jeep Posse Building. If you know someone who wants to take the Technician exam or if anyone would like to move up the food chain to General or Extra, now is the time! Fox hunts are back and folks are having some fun! Next one is on a Saturday, September 5 at 1:00 p.m. starting at the One AZ Credit Union at Gail Gardner and Willow Creek. See the link on the W7YRC website.

Thanks to Doug, NO1D, we had our YARC Meeting via Zoom on August 6, 2020. There were 47 participants and it was really good to see those faces on the screen. A few were flaunting their hair growth too! We were able to approve the Treasurer's reports and Minutes from the last real meeting we had in March 2020. Also, after a bit of discussion the club approved the YARC By-Laws changes your Board had worked on during the lock-down. We are looking for volunteers to assist with the Policy and Procedures portion that will provide the finer parts of how YARC operates. The By-Laws provide the outline and the Policy and Procedures provide the story line for the Club's operation. I am not sure if the Zoom meeting was recorded or not. We can record the next one and post for members to view. The minutes should be posted on the website for review. Most members that participated wanted more of it, so we will have our September meeting on the regular date, 9-3-2020. We normally have a different date because of the State Fair, but Zoom won't care about that. So, watch for a Club email with the information for signing in and joining the group.

We are looking to bring information for new hams and new members via the Mentor Program and interested members as to basic information on what is available, basic repeater information, modes, activities, etc. and even a CW slow speed class as interest and requests came to light after the last meeting. Stay tuned for more.

YARC elections are coming up in just a few months and we are looking for interested members who would like to become more involved in the club. President, treasurer, and two board member spots will be up for election in November. Step on up and join the team!

The YARC Wednesday Net is same time, 7:00 p. m., but via different repeaters! In fact, several stations thanks to the Repeater Committee. During the month of August we are using the 146.880 MHz repeater linked with the 447.650 MHz repeater and also threw in W7YRC-R for an Echolink connection and two AllStar nodes to test the coverage. So far we have had more check-ins and involvement of club members and guests. Now you can be anywhere and have access to the repeaters via Echolink and AllStar nodes. We will decide at the end of the month to stay this way or switch back, but it is looking like we may stay with this combination. It gets a little tweaking each week and is just getting better and better. Thank you, Repeater Committee, for your hard work — it is much appreciated!

OK, far too long for me, so everyone stay safe and make healthy choices for yourself and loved ones. We will be back and probably even better than before and we want all of you back too. So stay "radioactive," join us on Zoom; watch for the club emails; and keep checking our website, W7YRC.org and enjoy the SIGNAL each month. — 73!

Meeting Minutes

By decision of the board of directors, minutes of the board and general meeting minutes will no longer appear in the Yavapai Signal. They are posted online at the club's website:

www.w7yrc.org → Members → Login → Reports

- |
- Board Minutes
- Club Minutes

Mentor / Buddy

Our club is in need of help for new and no so new inexperienced Hams. There are a number of club members that have passed their license test but are asking, "Now what?".

Anyone interested in helping our club members in need or, if you are someone who needs help, please contact:

Dave Erlach W7VSX at w7vsx@w7yrc.org .

Mentor Buddies

Name	Call Sign	E-mail	Telephone
Don Bauer	WB7TPH	dbauer2250@aol.com	928.775.4690
Frank Bender	K8FB	fhb47@hotmail.com	928.379.5575
Pete Morrison	K6VVR	pm-service@cableone.net	928.899.8555
Bill Noe	WG7W	wq7w@arrl.net	928.710.6925
Dick Hughes	W6CCD	w6ccd@arrl.net	928.759.0337
Ron Purcell	KI7EVK	728rwp@gmail.com	707.849.7099
Jack Szelka	AI1K	radioaik@gmail.com	401.580.0330
Mike Reid	N7IEP	n7iep@arrl.net	480.250.6093
Sandy Meadowcroft	KF4JHC	sandymeado2@yahoo.com	928.660.8323
Mike Belanger	W1DGL	Fix_broke_airplanes@hotmail.com	928.771.2565
Jerry Warzaha	KØFC	jerry.warzaha@hotmail.com	612.205.3810

447.650 MHz Repeater by Loren Singh, AE7CG

Thanks to Art Protas KG6AY, I now am able to access and to transmit via the 447.650 MHz club repeater. I try to monitor the repeater at 1200 MST (noon) on Wednesdays and at 0900 MST (9 a.m.) on Saturdays. I would be very happy to exchange eQSLs or traditional QSL cards to confirm 70cm QSOs.



Drive-in VE Test Session
by Forest C. Immel, N1BBQ — Castleton, Vermont

My club just did our first drive-in VE session, resulting in three new Technicians and one one new Extra!

We required everyone to pre-register, so we had all of the paperwork pre-filled out ready for them. This greatly cut down on the amount of interaction. We handed them a clipboard with the 605 form for them to sign, the answer sheet, scratch paper, and the test booklet. Once they were finished they flagged a VE down and we collected ieverything and graded the tests assembly-line style.

One candidate did a triple, completing Technician, General, and Extra tests! It was well worth the 90-minute drive to the test site for him.

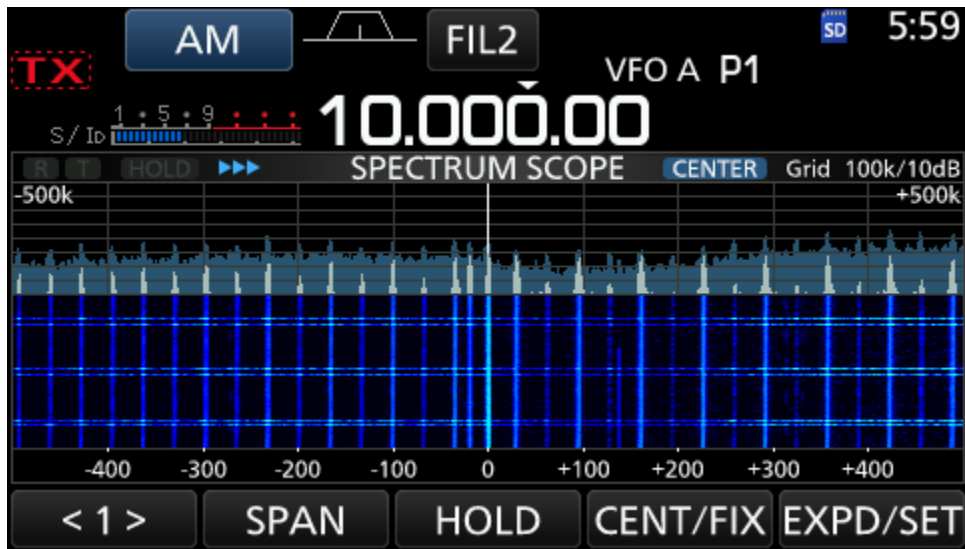
We are planning another test session for mid-October. Hopefully it will not be too cold then!



NR5M Contest Station — p. 5 Yavapai Signal September 2020



KH6AN / Portable



Noise Spike



August 2020 Foxhunt
by John Broughton, WB9VGJ

The August 2020 foxhunt was held Sunday August 9, 2020. The foxes were Jeff WB7RFY, Keith KI7GTX, and John WB9VGJ.

There were three teams for this hunt: 1) Bob WB6ODR and Linda KD7EEO; 2) Robert WA6FBA; and 3) Pete K6VVR and Gary K6JXM.

The results of the hunt were:

Finish	Team	Time
1	K6VVR and K6JXM	44 min.*
2	WA6FBA	44 min.*
3	WB6ODR and KD7EEO	1 hr. 22 min.

Note: * Tie in time taken. K6VVR and KJ6JXM drove fewer miles, 13.8 compared to WA6FBA's 14.4, so they won. A tie in time taken is broken based on the miles drive.

The foxes hid the transmitters at the clubhouse of a news section of the Dells subdivision south of SR 89A. The clubhouse is near the old SR 89A which is a little ways south of it.

There are some good views from the clubhouse. We thought the hunt might be challenging due to the location and the winding streets to get to the location. However, all three teams found the transmitters which always makes for a successful hunt. It was convenient for us foxes as we relaxed in our chairs on the patio in the shade.

At first we thought all three teams had arrived at the same time as a white Subaru just like the one WB6ODR has and the other two teams drove past the clubhouse all three in line. It turned out that only two teams actually arrived at the same time and the Subaru was not WB6ODR's. This was one of the few times, maybe the first, where two teams tied in the time they took to find the primary transmitter and the winner was decided by the miles driven by the teams that tied, with the fewest miles being the winner.

<https://tinyurl.com/YARCFoxhuntAugust2020>

Due to coronavirus concerns, we did not go anywhere for socializing after the hunt. We invite anyone interested in foxhunting, especially anyone who has not done it before, to join us. Those new to the hobby can ride with an experienced hunter. We always have a good time, win, lose or draw.

Tech Classes Move Online

by Dan Romanchik, KB6NU

I've been teaching ham classes for more than a dozen years now. My specialty has been the one-day Tech class. In this type of class, you review all of the questions in the question pool with the students over the course of six to eight hours, and then immediately give them the test before they can forget anything.

I would hold these classes three or four times a year and regularly have 20 – 30 students in each class. The pandemic, of course, has put the kibosh on these classes. The last one I taught was in January.

Frankly, I was wondering if I'd ever teach one again. A little over a month ago, however, I was approached by a fellow in Portland, Oregon about teaching an online class for some folks that he'd corralled there. After giving it some thought, I said yes.

So, now, in place of face-to-face classes, I'm teaching online Tech classes. There are plusses and minuses to this approach. One negative is that I miss the face-to-face interaction with the students. On the plus side, teaching online allows me to offer classes more frequently. My first was in June. Last week, I completed the second class, and in August, I will teach a third class.

I have had to make some changes to the format. Making people sit in front of a computer for six hours or more seemed like cruel and unusual punishment. So, instead of a one-day class, the online class consists of four, two-hour sessions, spanning two weeks:

- Session 1
 - Electrical Principles
 - Electronic Components and Circuit Diagrams
- Session 2
 - Radio Wave Characteristics
 - Antennas and Feed Lines
- Session 3
 - Amateur Radio Signals
 - Electrical Safety
 - Amateur Radio Practices and Station Setup
- Sessions 4
 - Station Equipment
 - Operating Procedures
 - Rules and Regulations

This seems to be working out pretty well. I'm using Zoom, and most people have been able to attend without too much hassle. To simulate the whiteboard that I use extensively in the face-to-face class, I'm using the Autodesk Sketchbook program (<https://www.sketchbook.com/>) and sharing my screen with the Zoom meeting attendees. To write on the "whiteboard," I'm using a Gaomon M10K2018 drawing tablet.

Sketchbook allows me to build up a document in layers, and the result is kind of a hybrid PowerPoint presentation and whiteboard. I can make layers appear when I start discussing a particular topic and then write over them. For example, when I go over the questions that use Ohm's Law to calculate current in a circuit, I display the later with "E = I x R" and on a second layer, show how to calculate the answers to the questions

To take the test, students have to sign up for an online test session. Fortunately, several VE groups are offering online, remote testing. To sign up for one of these sessions, all students have to do is go to <https://hamstudy.org/sessions> . For the first two classes, the W5YI VEC scheduled a special test session.

I foresee teaching these classes monthly until the demand wanes. The next class will start on Monday, August 3. To register for the class, go to <https://www.kb6nu.com/product/next-online-tech-class/>. To find out when these classes will take place in the future, potential students can sign up for my mailing list by going to <https://landing.mailerlite.com/webforms/landing/m616t4> .

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not teaching ham radio classes, he likes to operate CW on the HF bands, go for long walks around Ann Arbor, MI, and volunteer for Rotary Club service projects.



W7YRC 2m / 70cm FM Net — 146.880 (-) MHz / 447.650 (-) MHz — Wed., 1900 MST

Note: NCS = Net Control Station

Call	Name	07/22/20	07/29/20	08/05/20	08/12/20
K6VVR	Pete	X	X	X	X
KF7FPD	Jerry	X	X	X	X
W7HAM	Ralph	X	X	X	X
WA6AQK	Ken	X	X	X	X
WN7E	Tom	X	X	X	X
KG7EWD	Patrick	X	X	X	
WA6FBA	Robert	X	X	X	
K7LMJ	Mike	X	X	X	X
W7WWB	Ron	X	X	X	X
KJ7WED	Bob	X	X	X	X
N7IEP	Mike	NCS	X	NCS	X
KT7P	John	X	NCS	X	X
WA6SCW	Pat	X	X	X	X
K6PSR	Tony	X	X	X	X
NO1D	Doug	X	X	X	X
WG7W	Bill			X	
KG7SDY	Stephen	X		X	X
KF2TM	Arnott		X	X	X
KA1SQW	Cathy		X		
KA9CLD	Mike	X	X		
KF7PQV	Dan			X	X
KG6AY	Art			X	
KC4UVA	Rick	X			X
K7PRS	John			X	X
KJ6KMK	Kathy	X		X	NCS
W6TSH	Tish				X
WB6ODR	Bob			X	
N7NRE	David			X	
KF7INF	Dennis	X			X
K7PVY	Tim				X
KN6OW	Bryan				X
KG7DKN	Tom				X
KE6AKY	Rich		X		



Donald Weiser, KG5RA — Midwest City, Oklahoma

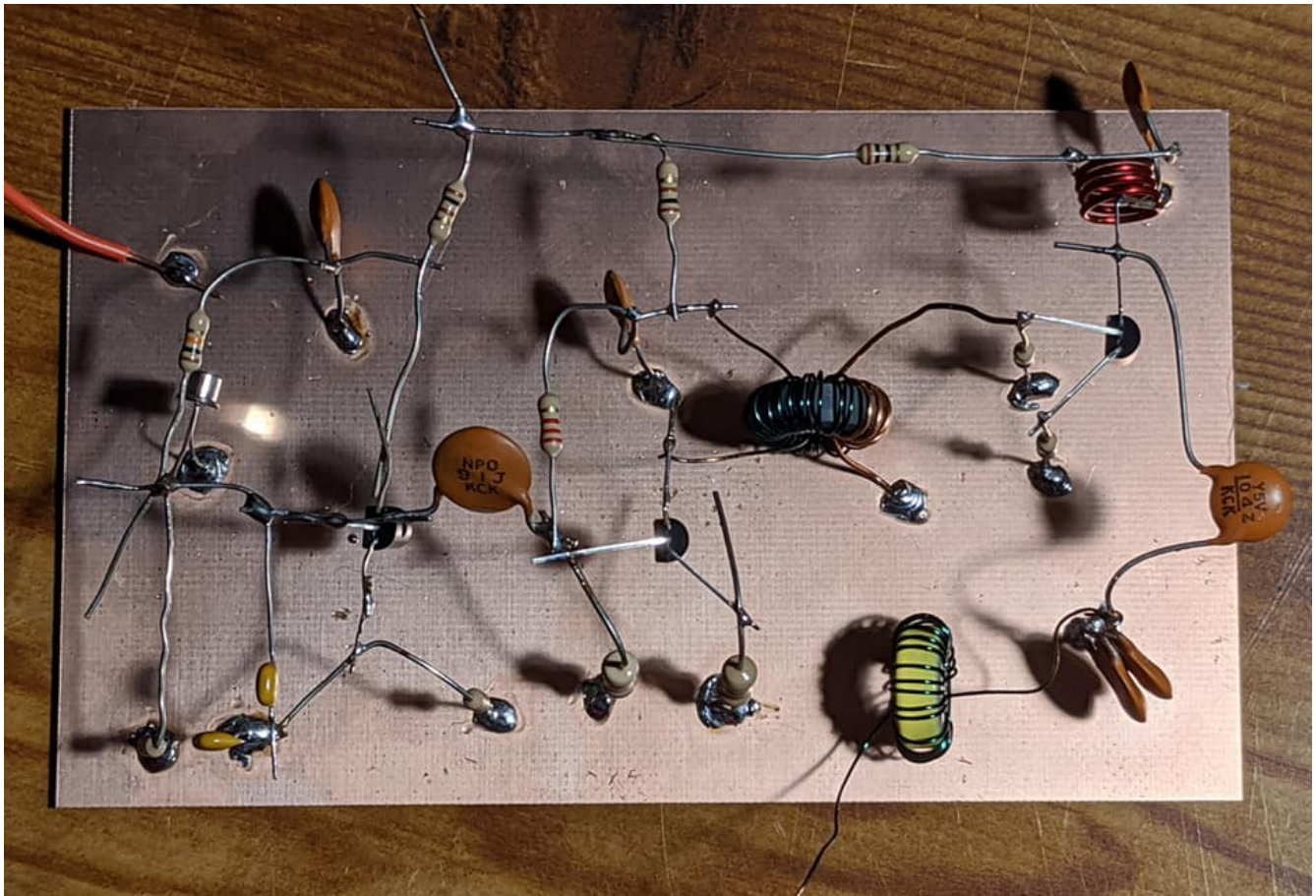
Breakfast and Lunch Gatherings

There are a number of lunch and breakfast gatherings in the area that are open to all radio amateurs and interested persons. Please let us know of any updates or corrections at info@w7yrc.org .

Third Thursday of the Month – **YARC** holds an informal **breakfast** gathering at the **BackBurner** Restaurant at 0800 MST. The restaurant is at 8400 Long Mesa Drive in Prescott Valley. Contact Don Bauer WB7TPH or Jeff Hanna WB7RFY.

Second Tuesday of the Month – **Quarter Century Wireless Association (QCWA)** brunch gathering, 1030 MST to 1230 MST at the **Golden Corral** Restaurant in Frontier Village in Prescott, off Highway 69. You do not have to be a QCWA member to attend.

Every Wednesday – **Breakfast** at 0700 MST at the **Manzanita Grill** at the Antelope Hills Golf Course, near the Prescott airport.



Crystal Oscillator Build

I caught my son chewing electrical cords.

- So I had to ground him. He's doing better currently, and now conducting himself properly.
- That's shocking. I wonder if it Hertz a lot ?
 - Don't underestimate his capacity.
 - Glad to hear there was no resistance.
- I coulomb believe this joke has so many puns! It's a real joule.
- Glad he's so positive about it. Some kids get all amped up over it.
 - What was his reactance?



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Club Officers, 2020

Officer	Name	Call Sign	Email Address
President	Bill Noe	WG7W	wg7w@arrl.net
Vice President	John Snedden	KT7P	vice.president@w7yrc.org
Treasurer	Sam Prather	K7SCP	treasurer@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Director	Dave Erlach	W7VSX	w7vsx@w7yrc.org
Director	John Laing	K7PRS	k7prsextra@gmail.com
Director	Sandy Meadowcroft	KF4JHC	sandymeado2@yahoo.com
Director	Kathy Laing	KJ6KMK	kj6kmk.yarc@gmail.com
Director	Mike Reid	N7IEP	n7iep@arrl.net
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Editor	Loren Singh	AE7CG	ae7cg@arrl.net
Webmaster	Randy Dashiell	W6TYV	webmaster@w7yrc.org

Yavapai Amateur Radio Club — W7YRC Club Station Access List — Effective March 4, 2020

Permanent Station Access (defined by YARC role) —

Name:	Call:	Lic. Class	Notes:	Telephone:
Billi Noe	WG7W	E	YARC President	928.710.6925 – Do not contact for access
Frank Bender	K8FB	E	Station Manager	928.379.5575 – OK to contact for access
Pete Morrison	K6VVR	E	W7YRC Trustee	928.899.8555 - Do not contact for access
Bud Semon	N7CW	E	ARES/RACES DEC	928.899.7400 - Do not contact for access
Rob Redford	KG7LMI	G	ARES/RACES EC	623.252.3980 - Do not contact for access
Jo Schultheiss	KF7WOT	G	ARES/RACES EC	928.925.0956 - Do not contact for access
Jim Zimmerman	N6KZ	E	Elmer Group	928.713.0542 - OK to contact for access
Art Protas	KG6AY	E	Elmer Group	928.227.2954 - OK to contact for access
Doug Freeman	KV8TD	E	N7GMH Trustee	928.759.0958 - Do not contact for access

Building Access for Other Reasons (includes station access) —

Donald Bauer	WB7TPH	E	VE Chair	928.775.4690 - Do not contact for access
Kathy Laing	KJ6KMK	E	License Classes	928.778.2526 - Do not contact for access

Rotating Access (changes every July 1st)

This category is limited and consists of volunteer members —

Mike Belanger	W1DGL	E	Rotating Member	928.771.2565 - OK to contact for access
Jim Custer	WØHJ	E	Rotating Member	507.720.4053 - OK to contact for access
Tony Jackson	K6PSR	G	Rotating Member	562.644.0528 - OK to contact for access

Note to YARC Members —

**For station access, first try to contact the Rotating Access members.
If you are not able to contact the Rotating Access members, then try to contact the other “OK to contact for access” members.**

