

I hope every one had a great Christmas and a Happy New Year. Welcome to 2020 and the new decade. Hopefully you all got everything you wanted to Christmas. I hope everyone enjoyed all of the ham radio activities in 2019.

Our first major event in the Northwest is of course the Puyallup Hamfest put on by the Mike & Key Amateur Radio Club. This is on March 7th this year at the usual venue, The Puyallup Fair & Events Center. Flyer can be found later in this issue and on the events page of the web site. We will see what the weather brings us this year. Our major February snowfall hindered attending last year. Hopefully mother nature will be nice to us this year at hamfest time.

We all look forward to Field Day in June. Usually this has corresponded with our Annual Meeting. Field Day this year is June 27-28th. I see ARRL web site has information about it online already. Take a look at arrl.org/field-day. I mentioned our Annual Meeting that has corresponded Field Day over the last several years. We have discussed possibly separating the two events. More on that as the date gets closer and should have info in the Spring Gazette as well as any club Field Day plans. Hopefully we will have a third annual tailgate hamfest in July at St. Paschal Catholic Church on Park Road. This has been very popular. Of course we always look forward to our hamfest in September. Our dedicated committee will be hard at work making plans for that great event. That is all for now. Again Happy New Year and enjoy all of our upcoming amateur radio events of 2020. Scott, KA7FVV





From the Ham Shack of our President

Kbara Members,

I sincerely hope all had a good hamfest last September (this might more properly have been addressed in the just previous issue of the newsletter. I explained some "timing" issues I have had in previous {President's letters, and, well, here they are in action again, as you can plainly see). Anyway, while I did not meet again/renew as many previous acquaintance's, more than what was usual, as a matter of fact, so, on the balance of things, it was all worthwhile, the grand climax to everything was, of course, the evening get together/dinner at the Timber Creek restaurant in Argonne Village at Montgomery and Argonne in the Spokane Valley.

Net controllers, remember that we are always on the lookout for new, dependable net controllers. Dependability is what we seek the most, things like style, flair, charm, and charisma are things that may come with time, but simply dependability is what we need and always look for initially. We will start you out doing a simple 10 or 15 minute net somewhere, and, if things look promising, will advance you to maybe doing a half or full hour long net, and, perhaps you will wind up, eventually, able to tell everyone that you have been doing a weekly hour long KBARA net for 7-8 years, just as I am able to do right now. It is a ham credential absolutely second to none, and I promise you will never regret having it. If your interested is aroused, get in touch with us.

Concurrently with net controllers, we also are in need of written stories/articles for the quarterly newsletter, anything, some experiences you've had, some particular expertise or skill(s) your ham experience has brought to you or just anything you simply feel inclined to write about. Again, I can never guarantee its actual publication, but I can absolutely guarantee its serious consideration for such. If you feel inclined to try your had at this, write or type your composition up and send it, preferably via email to Scott Harvey KA7FVV, ka7fvv@yahoo.com.

Speaking of written KBARA newsletter articles, Jim, N7WRR, submitted what struck me as a splendid written article, complete with pictures, for the Fall, 2019 newsletter edition. It appears just a few pages before the last. Yes, if you like, send pictures with yours too. I've already suggested to Jim, many times, that he maybe try to make a habit of this, as he is frequently out, along with others, helping effect repairs/alterations at our numerous repeater sites.

Anyway, Jim gives us a lucid picture of what call and frequently does transpire at times when site repairs/alterations/modifications must be made. If you ever find yourself gnashing your teeth wondering why a site repair is taking so long, look at Jim's article carefully. Actually, the actual repairs can frequently be easily and simply done. The delay, more often than not, comes because of the repeaters being quartered inside ramshackle and dilapidated structures, sometimes about to collapse completely. The cost of rehabilitating or repairing such structures is often far beyond KBARA's financial capability, and there seldom are around any other individuals and/or organizations ready and willing to take it on either. Hence it is delay, delay, delay, or perhaps ponder, ponder, ponder, until something can be worked out maybe involving KBARA and someone else. Then, almost immediately, jurisdictional and accessibility difficulties arise. It's almost a vicious circle of stalling, delaying, pondering, arguing when winter or inclement weather approaches, this seldom speeds things up.

Anyway, thanks again Jim. You recall the old adage, "a picture is worth a thousand words". Well, I've seldom seen it remonstrated as powerfully than in your very recent KBARA article. Very well done!

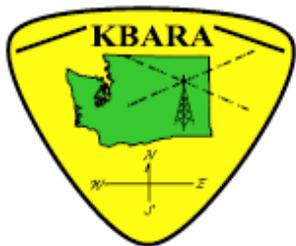
73, Dennis, KF7UTH President KBARA

Editors Note: The site that Dennis notes above is Lookout that has fallen into disrepair due to the harsh winters, the age of the building and we suspect snowmobiles driving over the roof. All of our other sites are solid structures and weather tight.



2019 Ham Radio
Holiday Luncheon
Longhorn BBQ
Restaurant

Camaraderie, just plain “rag chewing”, laughter, over-eating...yes, you guessed it...our annual Ham Radio holiday luncheon, held on December 21, 2019 at the Longhorn Barbecue Restaurant, Spokane Valley, WA. Attended by the local clubs, some 25-30 folks braved the elements to catch up with long-time friends & chow down on Spokane’s best BBQ ribs. This was the 19th annual holiday gathering.



Kamiak Butte Amateur Repeater Association
KB7ARA
PO Box 30801
Spokane WA 99223-3013



KBARA is a support group for several privately and club owned linked Amateur Radio repeaters. The system covers an area from NE Washington to NE Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, an interconnected group of repeaters located in western Washington and Oregon. The primary purpose of the KBARA repeaters is to provide a means for emergency communications within the above areas, and secondarily for routine radio traffic. It makes possible a single system of mobile communications coverage, extending the limited range provided by any single repeater operation. The KBARA FM repeaters operate in the VHF bands and are linked by UHF radios and IRLP. The repeaters' frequencies, call signs and locations are as follows:

- 147.380 MHz W7OE on Mica Peak near Spokane, WA, owned by John, W7OE
- 147.360 MHz K1RR on Stensgar (Stranger) Mt. near Chewelah, WA, owned by Glen, K1RR & John, W7OE
- 147.320 MHz (103.5 Hz tone) KA7FVV on West Twin near Moscow ID, owned by Scott, KA7FVV, & KBARA
- 147.280 MHz KB7ARA on Pikes Peak in the Blue Mountains near Walla Walla, WA, owned by KBARA
- 147.020 MHz KB7ARA on Lookout Pass on the Idaho-Montana border, owned by KBARA
- 223.900 MHz AK2O hub repeater on Stensgar (Stranger) Mt. near Chewelah, WA, owned by Karl, AK2O
- IRLP Node #3638 in Spokane WA owned by Glen, K1RR
- IRLP Node #3636 on East Tiger Mt, near Issaquah, WA owned by KBARA
- EchoLink KB7ARA-R (947272) in Spokane Valley, WA owned KBARA

All licensed Amateur Radio operators are welcome to use this open repeater system.

To support KBARA, please send your contributions to: **KBARA, P.O. Box 30801, Spokane, WA 99223-3013**

Name _____ Call Sign _____

Address _____

City/State _____ Zip _____

Telephone _____ Amount Paid _____

Email Address _____ ARRL Member? _____

Dues are \$15.00 per year for individuals and \$20.00 for a family (all must be living at the same address), but any amount will be greatly appreciated. Dues are due January of each year. If they are paid between September 1 - December 31, they will be applied through the entire following year. Also, any contribution to the Repeater Fund will be gladly accepted. For more info, please visit our website at www.kbara.org. See us on Facebook.



ANNOUNCING THE 39th ANNUAL MIKE AND KEY ARC ELECTRONICS SHOW & SWAP MEET

MARCH 7, 2020 @ 9AM
PAVILION EXHIBITION HALL

THE PUYALLUP FAIR & EVENTS CENTER

110 9th Avenue SW, Puyallup, WA 98371

ADMISSION - \$10 (UNDER 16, FREE w/ADULT)

TWO FLOORS WITH 44,000 Sq FEET OF EXHIBITION AREA (>300 tables)

TALKIN 146.82/22 (PL 103.5)

RADIO GEAR * COMPUTERS * CLUB & INFO TABLES * PARTS
SNACK BAR * FREE PARKING * CONSIGNMENT AREA
OVERNIGHT SC/RV Camping Available * LICENSE EXAMS

Table Reservation Information: (253) 631-3756, ddmdink@gmail.com or n7wa@arrl.net

VE Exam Information: (425) 788 0452, ag7t@arrl.net

CONTACT NAME: _____ CALL: _____ BUSINESS NAME (IF ANY): _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

TELEPHONE: () _____ E-MAIL: _____

REGISTRATION TIPS

REGISTER EARLY AS TABLES ARE ASSIGNED ON A FIRST COME, FIRST SERVE BASIS AS DETERMINED BY POSTMARK. SPECIFIC LOCATION REQUESTS ARE HONORED ONLY IF THE SPACE IS AVAILABLE. BE FLEXIBLE AND GET GROUP REQUESTS IN EARLY.

EXAMPLE ORDERS: 1 TABLE & 1 SELLER = \$34
1 TABLE & 1 SELLER & 1 HELPER = \$45
1 TABLE & 1 SELLER & 2 HELPERS = \$56
2 TABLES & 2 SELLER = \$68
1 BOOTH & 2 SELLERS \$130

Please note any location/group requests, special requirements, or additional information below:

(WALK-IN ONLY) Prefer to pickup Registration packet at Gold Gate NE corner of the Fairgrounds? Check Here ()

SELLER SETUP TIMES

MARCH 6 (FRIDAY) 2PM TO 7PM
MARCH 7 (SATURDAY) 5:30AM TO 8:30AM

MAKE CHECKS PAYABLE TO: MIKE & KEY ARC

MAIL FORM AND PAYMENT TO DIANE DINKELMAN 2222 148TH AVE SE, KENT, WA 98042

QTY	DESCRIPTION	\$
	COMMERCIAL BOOTHS @ \$112 EACH SELLER/HELPER Registrations NOT included, purchase below (200 SQ FEET, Four 8'X30" Tables included)	
	SELLER TABLES 8'X30" @ \$25 EACH SELLER/HELPERS Registrations NOT included, purchase below (Includes access to electricity, bring minimum 50' UL listed extension cord)	
	SELLER REGISTRATIONS @ \$9 EACH (Limit of ONE per table purchased)	
	HELPER REGISTRATIONS @ \$11 EACH (Limit of TWO per table purchased) (Limit of ONE per Info table)	
	DAY OF EVENT BUYER ADMISSIONS @ \$10 (HONORED @ 9AM, March 9th-SENT BY RETURN MAIL- NO ORDERS AFTER 02/22/20)	
	TOTAL ENCLOSED =	

ALL RESERVATIONS CONFIRMED BY RETURN MAIL (NO RESERVATIONS TAKEN OR CONFIRMED BY E-MAIL)

SECOND FLOOR INFORMATION TABLE REGISTRATION PACKETS WILL BE AT THE WALK-IN GOLD GATE UNLESS OTHERWISE REQUESTED CHECK DRIVE-IN: ()



Tidbits and Information

Wednesday Night Net Control Operators

We would like to expand our roster of net control operators for our Wednesday night net. We have a short list who rotate net control duties. It is a short net, usually about 15-20 minutes depending on comments and the number of check ins. The preamble and a software program to assist in identifying call signs and names is available on the On Air Nets page on the KBARA website. Come join the fun and get a little practice running the show for KBARA on Wednesday Nights.

The Radio Amateur's Code

The Radio Amateur is

CONSIDERATE...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.

PROGRESSIVE...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.

FRIENDLY...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

BALANCED...Radio is a hobby, never interfering with duties owed to family, job, school or community.

PATRIOTIC...His/[Her] station and skills are always ready for service to country and community.

- adapted from the original Amateur's Code, written by Paul M. Segal, W9EEA, in 1928

How's That? Little Known Amateur Terms!

by John Dempster W7OE

Band Pass Filter: Ear plugs used at the Lilac Parade
Club Call: Used in Neanderthal communication or by Tonya Harding
Cocox: A mutual agreed upon resignation
CW: Why people go to Bush rallies
Dielectric: Executions Texas Style
Dipole: Poles seen at barbershops
D-Layer Absorption: Remedial courses for poor students.
DX: What de judge calls de estranged spouse
Faraday Shield: Sunscreen lotion
Geomagnetic Field: Where you hunt gaussling
Grounded Grid: Natural Turf
Ground Plane: A Serbian Fighter Jet; Generic Coffee
Guy Wire: A telegram from a boyfriend
Hamstick: An Amateur Radio film played by the 3 Stooges
LID: Dubya's possible running mate
Log Periodical: A forestry trade journal
Long Path: The route home after spending paycheck on Ham gear!
Magmount: Magazine Rack
NASA: Never Assume Successful Arrival
Packet: What southern WTO protester do
Phase Shift: a nose job.
Plate Voltage: "careful, this plate is hot"
QCWA: Quality Club with Alzheimers
Ragchew: What moths do.
Rubber Duck: What WTO protestor yell when fired upon with rubber bullets!
Satellite: What horses prefer
Short Path: Another car's route to the only available parking spot!
Sine Wave: What you see at political conventions
Split: used to work the Banana Republics
TNC: Pebble Beach Golf Course
Top Band: If you said Glen Miller you belong in QCWA
Transequitorial Alignment: What the mechanic says to milk another \$100 out of ya!
AND - "YL" What an agnostic from Yorkshire contemplates!



West Twin Repeater

by Scott, KA7FVV

As everyone knows we have been having some trouble with West Twin this last fall. The repeater ran flawlessly for two years running an old Motorola GR1225 repeater that was donated by Art, WB7AUK. Trying to keep costs down I searched for a replacement. VHF models of this repeater are hard to come by. Finally found one, programmed it. A group of us, Duff, WB7BFN, Bill, KG7SJR, Jim, WA7VFQ and myself were able to get to the mountain the first week of November.

As we got closer to the repeater we started hearing it. At the time we had the Alaska Net active on the system. The repeater was still working with only the exciter transmitting and no final amplifier. The finals had gone bad even though there is a cooling fan that runs most of the time the repeater is keyed up.

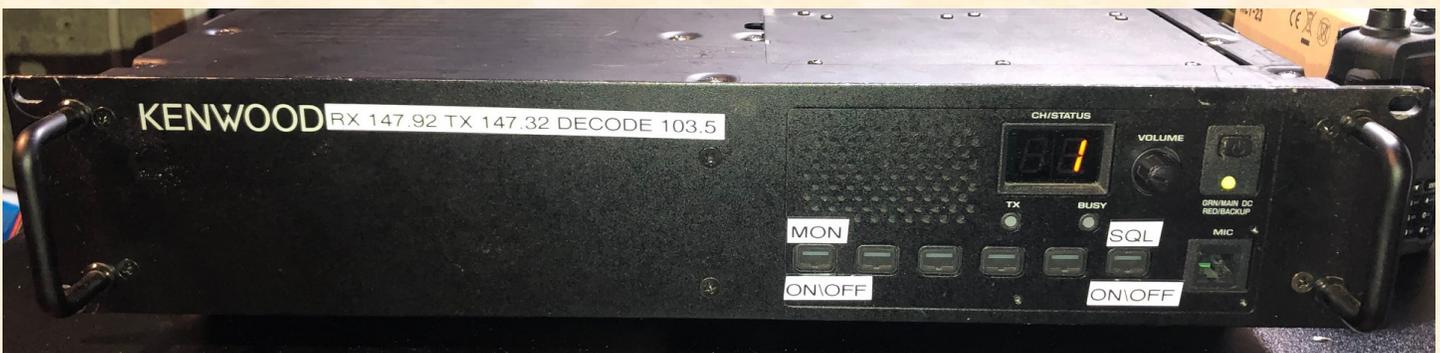
We installed the new repeater and with a little extra programming on site and Glen's help at his QTH had the new repeater up and running. Unfortunately two weeks later Jim reports that the repeater is once again silent. With Jim's help in troubleshooting we discovered the repeater was receiving. I could hear Jim through the system via the IRLP connection but he was unable to hear the repeater. We suspect finals again.

Back to searching for a replacement repeater. We are burned out on the Motorola's being old, hard to find and difficult to find someone to repair them. Glen and I started searching for a Icom repeater. We found one for a great price on eBay. We received that repeater. The same model that Glen knew and is currently in operation for 147.36 and 147.28 repeater sites. We had high hopes of a quick programming and testing and we would be up and running. We read the radio and saw it was configured for simplex 160 MHz railroad channels. Programming with the 147.36 file Glen had we soon found out it would not do the repeater split. It would do simplex just fine. We have discovered this was one of a batch of radios sold to the railroad. We have sent the radio off to Icom for evaluation. Once again we were in search of a radio.

In the mean time Jim, N7WRR had been talking with the group he has been working with in Montana for Lookout. They suggested Kenwood repeaters. They are running many of them without issues. He happened to remember and respond to an email from a gentleman offering amateur radio assistance. I was asked by Jim and Glen to talk with this gentleman and see what he had to offer. It ended up being a very long conversation but he works for a radio shop in Bellingham and helps out amateur clubs with equipment and possible repeater sites at their commercial locations. By the time the conversation was done he donated a Kenwood TKR-750 VHF repeater for West Twin. I have acquired the programming software and cable for this model. Also reached out to the Montana group for programming assistance for the RLC controller that I run on West Twin since they run multiple RLC controllers with their Kenwood repeaters. The repeater is currently sitting on my workbench operational as a stand alone repeater. Once programmed we will make a trip to West Twin weather permitting.



Replacing the Motorola Repeater on West Twin





Upcoming Hamfests and Events

Courtesy of N7CFO.com

February 15. Salem Hamfair & Computer/Electronics Swapmeet. Rickreall, OR at the Polk County Fairgrounds. *This is an ARRL sanctioned event.* <http://www.w7sra.com> . [Flyer in PDF](#). (247K)

March 7. Mike & Key 39th Electronics Show & Fleamarket. Puyallup fairgrounds exhibition hall, Puyallup, WA. *This is an ARRL sanctioned event.* <http://www.mikeandkey.org/index.php> [Flyer in PDF](#). (488K)

March 21. (Tentative Date) MicroHams Digital Conference. Redmond, WA. <https://www.microhams.com>.

April 18. Yakima Hamfest. Selah Community Center, Selah, Washington. <http://yakimaamateurradioclub.com/yakima-hamfest/>

April 25 & 26. Communications Academy. South Seattle Community College, Seattle, WA. *This is an ARRL sanctioned event.* <http://commacademy.org/>

May 3. Maple Ridge Swapmeet. Pitt Meadows, BC. <https://secure.eton.ca/rac/events/upcoming.php>

May 9. Stanwood Camano Amateur Radio Club Flea Market and Hamfest, Stanwood Middle School, Stanwood, WA. http://www.scarcwa.org/ham_fest.shtm Contact: Fred Laun, w7piq@arrl.net

May 16 & 17. River Radio Campout. Pateros WA. Sponsored by the Okanogan County Amateur Radio Club. Free "dry" camping along the Methow River at Pateros. Always the weekend prior to Memorial Day Weekend. w7orc1@gmail.com . <http://www.w7orc.com/> . Contact Mike W7MCM, skippermike53@gmail.com . (509)689-3164.

June. 52nd Annual Apple City ARC Hamfest. Apple City ARC. Dryden, WA. (Five miles east of Leavenworth on Hiway 2) <https://leavenworth.org/organizer/leavenworth-chamber-of-commerce/>). <https://www.applecityarc.com/>

June 5-7. SEA-PAC Hamfest and ARRL Northwestern Division Convention. Seaside Convention Center, Seaside, Oregon. *This is an ARRL sanctioned event.* info@seapac.org . www.seapac.org/.

June 19-21. Washington State Search & Rescue Conference, Ellensburg WA. <http://www.wasarcon.org/> / Pre-Conference June 15-18 2020, Conference June 19-21 2020.

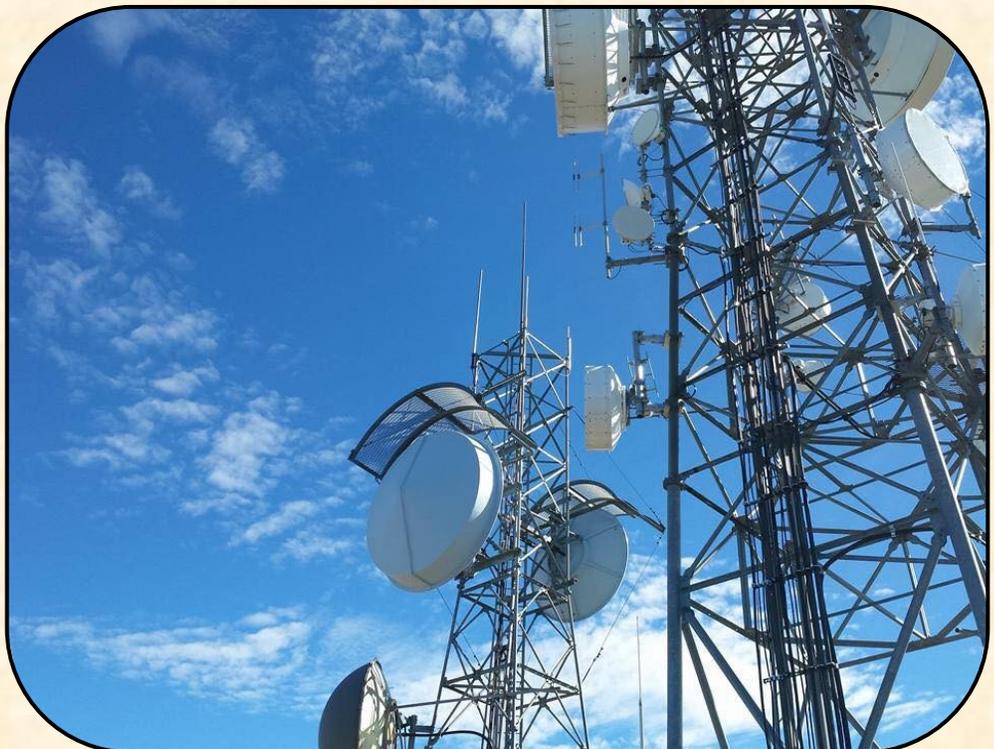
July 17-19. Glacier Waterton International Peace Park 85th annual Hamfest. (Always the third weekend in July) Glacier Meadows Campground, 13 miles west of East Glacier on MT Hwy 2. <http://www.gwhamfest.org/>

July 25. Chehalis Valley ARC 22nd Annual Ham Radio Tailgate Swapmeet. Southwest Washington Fairgrounds, Chehalis, WA. Contact John Ellington, K7OSK. k7osk@boatanchor.com . <http://www.cvars.org/> [Flyer in PDF](#). (188K)



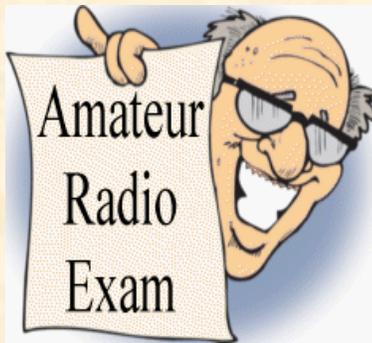
KBARA Repeaters and Echolink/IRLP Nodes

Frequency	CTCSS Tone	Location	Call sign	RF Link
Repeaters				
223.90 MHz	None	Stensgar Mtn	AK2O	Hub
147.38 MHz	None	Mica Peak	W7OE	AK2O—223.90
147.36 MHz	None	Stensgar Mtn	K1RR	Hard wired Hub
147.02 MHz	None	Lookout Pass	KB7ARA	W7OE—147.38
147.28 MHz	None	Pikes Peak	KB7ARA	AK2O—223.90
147.32 MHz	103.5	West Twin, Moscow	KA7FVV	IRLP
Links				
Echolink KB7ARA-R	N/A	Spokane, WA	KB7ARA-R	AK2O - 223.90
IRLP Node 3636	None	East Tiger Mt	KB7ARA	145.33 & Ref 9075
IRLP Node 3638	None	Spokane, WA	K1RR	AK2O—223.90 & Ref 9075



KBARA Membership / Support Information: The KBARA repeater system consists of several privately owned linked Amateur Radio repeaters. It covers an area from northeastern Washington to northeastern Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, an interconnected group of repeaters located in western Washington and Oregon. The primary purpose of the KBARA repeaters is to provide a means for emergency communications within the above areas, and secondarily for routine radio traffic. It makes possible a single system of mobile communications coverage, extending the limited range provided by any single repeater operation. The KBARA FM repeaters operate in the VHF bands and are linked by UHF radios. All licensed Amateur Radio operators are welcome to use this open repeater system. Your support would also be greatly appreciated. Please visit this site for more information:

<http://www.kbara.org> and visit http://groups.yahoo.com/group/evergreen_intertie



Testing is held the 3rd Wednesday of every month at Spokane Fire Station No. 4 at 1515 W 1st Avenue, Spokane. Brought to you by Glen, K1RR. If you have any questions please contact Glen at glen@k1rr.com or 509.216.0666.

To support KBARA, please send your contributions to:



KBARA
PO Box 30801
Spokane WA 99223-3013

Annual support is \$15 per calendar year for a single membership and \$20 for a family membership. Dues are due in January of each year and if paid between September 1 and December 31, they will be applied through the entire following year. Also, any contribution will be gladly accepted to the Repeater Fund. This can also be done via PayPal on our webpage at www.kbara.org.

KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION

PO Box 30801

Spokane WA 99223-3013

