



# YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 26 - No. 8 • August 2011

Hello once again!



Summer monsoons remind us all to properly ground our antennas and to be mindful of lightning danger when working up high. August is shaping up to be a busy month for YARC and its operators. We have quite a few things in the mix.

For friends and family who are unlicensed there's the Technician class Saturday July 23, 2011 from 8am to 5pm at the Jeep Posse Building. YARC is also sponsoring the testing to follow on Friday, August 5, 2011 (Jeep Posse Bldg) at 6:00 PM. The testing is open for all license classes for those interested in upgrading their operating privileges.

ARES/RACES will be participating in a mass casualty exercise on August 16 and there are a number of special events coming up in September as well (March of Dimes, Sept 10 and Tour de Pee Vee half marathon, Sept 24<sup>th</sup> and others). Also, as children will be returning to school in August, the school club at Granite Mountain Middle School is expected to gear up again for a new year.

This month's presentation will be given by Bud Semon (N7CW) detailing his adventures during the very popular DXpedition to Kanton Island, Central Kiribati (T31A).

With profound gratitude to our board, supporting member stations, organizers and operators that have made the activities of the Yavapai Amateur Radio Club such a resounding success so far this year,

Creighton  
AD7YR

## AUGUST PROGRAM

Bud Semon, N7CW will describe his experience as a team member on the T31A Kanton Island 2011 DXpedition.



### YARC Officers for 2011

<b>President</b> Creighton Grotbeck, AD7YR <i>president@w7yrc.org</i>	<b>Vice President</b> Ellis Rackoff, KE7NAP <i>vice.president@w7yrc.org</i>
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<b>Secretary</b> George Imburgia, AD7RL <i>secretary@w7yrc.org</i>	<b>Treasurer</b> Tom Griswold, WN7E <i>treasurer@w7yrc.org</i>
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### Board of Directors (includes Club Officers)

Pete Morrison -- K6VVR  
Will Taylor -- AD7WW  
Neil Vince -- K7SEN

**Newsletter Editor:** Joe Oliver, AC6AA  
*newsletter@w7yrc.org*

## Upcoming Events

- **Aug. 5, 2011** - VE Testing Session
- **Aug. 16, 2011** - Prescott Regional Response Exercise
- **Sept. 9-11, 2011**- ARRL So.Western Div. Convention
- **Sept. 10, 2011** - March of Dimes for Babies
- **Sept. 24, 2011** - Tour de Pee Vee ½ Marathon
- **Sept. 24, 2011** - Groom Creek Classic ½ Marathon

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## Welcome to the Yavapai Amateur Radio Club

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

Membership in the YARC is open to any interested amateur or non-amateur alike. Dues are \$20.00/year (Full-time students \$15). The YARC meets at 7:00 p.m. local time on the first Thursday of every month in the Technology Room 404, at the Granite Mountain Middle School, 1800 Williamson Valley Road in Prescott. It is about ½ mile north of Iron Springs road, and all amateurs and non-amateurs as well are invited. Programs of interest are included as part of the meeting.

The weekly Net is held every Wednesday at 7:00 p.m. local time on 146.880- repeater. All amateurs are invited to participate, and visitors are always welcome.

The Yavapai County ARES/RACES Net is held on Monday nights approximately at 7:00 p.m. local time on the 145.290- repeater on Mingus Mountain. A PL of 127.3 is required.

### Club Repeater

The YARC 146.880- repeater is located on the hill above Willow Creek road and requires a PL of 100.0 Hz. Our deepest gratitude to Bill Kafka, W2YAV for allowing us to acquire the original club repeater.

## Minutes of July 7, 2011 Board Meeting



Meeting was called to order at 1815 hrs. by the President, AD7YR. Also in attendance: K6VVR, AD7WW, K7SEN, KE7NAP, WN7E, and WB7RFY.

Resignation of WB7UZV addressed; KE7NAP appointed to fill V.P. position; Board will solicit and appoint now vacant at large Board seat.

Readdressed need to establish contact persons for major events (initiate standing committees) such as statehood, NRA, Field Day, Party, etc... and explore Rodeo, Hamfest, etc...; will present to membership. Also want to expand role of welfare committee to include gratitude; believe formal thanks are occasionally being overlooked. Board members asked to write out what they do (have done) to update operating manual. Goal to move club forward.

Ron Shumway, KI7IE, exN7NZZD, SK, bequeathed his estate to forward ham equipment to YARC. Board gratefully accepts with proper respect.

Noted CADXA will operate a state centennial station from the square in September; YARC will endorse and offer assistance. Readdressed club calendar options.

Meeting adjourned at 1858 hrs.

## Minutes of July 7, 2011 General Meeting

Meeting was called to order at 1905 hrs. by the President, AD7YR. Following the Pledge of Allegiance, in-

roductions were made. Attendance: 83 of whom 66 signed in.

New member KF7QVG, Jerome O'Connor, was unanimously welcomed on motion of WB9VGJ, second of K6VVR.

New member KF7PQZ, Scott Underwood, was unanimously welcomed on motion of WB6ODR, second of KE7NAP.

Minutes of the June meeting were approved as published on motion of KF7ING, second of K7POF and no dissenting.

Treasurer's report was approved as read, with ending balance of \$4660.35 and repeater fund of \$1329.22; on motion of KF7ING, second of K6VVR and no dissenting.

### COMMITTEE REPORTS:

**ARES/RACES:** WA6ZZJ reported on and discussed concerns on upcoming events, noting Mass Casualty exercise simulation with many involved agencies on Tuesday, August 16th. See report in July newsletter.

**VE:** AB7NK reported on excellent applicants at June 24 session, 7 new techs, and many upgrades. Next scheduled on Aug 5<sup>th</sup>, 6 PM. Walk-ins welcome, but pre-registration preferred. Info at [testing@w7yrc.org](mailto:testing@w7yrc.org).

**AZ Worked All Counties** award, sponsored by YARC (info on club website); requirements are easy to fulfill; remember statehood AZ-QSO party in October to fill any missing contacts.

**Newsletter:** AC6AA thanks all contributors for articles; deadline is 21<sup>st</sup> of each month.

**Shirts:** K6VVR has club shirts on hand.

**Badges:** WB6ODR reports our long term provider is retiring; will look for new provider(s).

**Repeater:** WB6ODR reports all in order; trying to schedule a 'tune-up and inspect' trip.

**Refreshments:** K6UWV has provided drinks and treats; please recycle.

**Elmers:** K7SEN reports all OK.

**Nets:** K7SEN reports on 146.88 nets: Sunday slow code, 7:30 pm; club net every Wednesday 7:30 pm needs net control stations for 2011; only February and October currently signed for; one time or month. All please check in and sign up to be a net control station for a month or single session. [K7SEN@arrl.net](mailto:K7SEN@arrl.net).

**T-hunt:** K6VVR reminded monthly hunt is Sunday after club meeting; 1:00 pm start at Credit Union, Gail Gardner and Willow Creek. Lots, lots of fun; if not ready to hunt alone come ride along; learn some hints and tricks. Getting lots of participation; come join in, every month is a unique adventure.

**Food Bank:** KB7TRE reminds us that any time is good to contribute to community food bank; please continue to bring non-perishable items to each meeting.

**School Clubs:** KB7TRE reports K7GMG had a great year; program is down for summer break.

**Classes:** KD5VRW reminds all a technician class is scheduled for July 23; info on [www.W7YRC.ORG](http://www.W7YRC.ORG), refer all interested family, friends, neighbors and strangers. [classes@wryrc.org](mailto:classes@wryrc.org)

**PARTY:** January 15<sup>th</sup> at St. Michaels; food, fun, prizes and surprises. KE7NAP is contact.

### OLD BUSINESS:

**Field Day:** Everyone reports on a great event: 3 stations; good food and friends. Special thanks to WB7UZV (chairman), K7POF, K7SEN, KI6AHH, W5VJH, WA6ZZJ, AD7WW, K6VVR, and all who pulled together to make FD and picnic a success. National estimate is 2.5 million contacts, YARC had over 400. No response to call for other old business.

### NEW BUSINESS:

President regretfully announces that WB7UZV has resigned from position of Vice-President. KE7NAP has been appointed to fulfill remaining term. A new Board member is needed; please contact any Board member if you are interested in serving.

President reports that Ron Shumway, KI6IE, ex N7NZZ (SK), directed his estate to forward Ham equipment to YARC and offered considered thanks for the thoughtfulness of our late friend.

Need to develop contact persons for our main events such as statehood day, NRA, Field Day and others. Would act only as contact person to gather resources. Please contact AD7YR if you will take on an event.

Noted Win system 449.750- now has PI of 123.0. No response to call for other new business.

**TONIGHTS' PROGRAM:** Loren Singh, AE7CG will tutor us on the fun and quirks of QRP operation.

**50/50:** \$64.50 was won by WB6ODR.

Adjourned at 1950 hrs. on motion of N7RIS, second of KF6SPS, and no dissenting.

Respectfully submitted,

George Imbrugia, AD7RL  
YARC Secretary

## VE TESTING

By Mary Vince, AB7NK

Congratulations to everyone who participated in the Friday, June 24, 2011 test session. There were thirteen applicants from various parts of Yavapai and Maricopa Counties who left with smiles on their faces. We have seven new Technicians and four upgrades to General.



Thank you to the VE's who made this test session possible as well as the Jeep Posse Bldg for the use of their facility.

The next test session will be held Friday, **August 5, 2011** at 6:00 p.m. at the Jeep Posse Bldg. Another test session is scheduled for Saturday, **November 5, 2011** at 9:00 a.m.

All license classes will be tested and walk-ins are welcome. If you plan on testing on this date an email sent to [testing@w7yrc.org](mailto:testing@w7yrc.org) would be appreciated.

Please make a note of this new email address for testing, pre-registration, questions, etc. ■

## Arizona Worked All Counties

Have you checked your logs lately?

If you've worked all fifteen Arizona counties, email



[az-wac@w7yrc.org](mailto:az-wac@w7yrc.org)

for an application and rules.

**YAVAPAI AMATEUR RADIO CLUB**

**July 2011 Treasurer's Summary - Tom Griswold WN7E**

**Income**

Date	Callsign	Name	Code	Check #	Amt. Paid	G. F. Amt.	Rep.Fund	ARRL
07/01/11	KF7ANX	Frank Strassell	R	cash	**			
07/01/11	W6RLS	Ron Steinert	R	2683	\$20.00	\$18.00	\$2.00	
07/01/11	KE7MQB	Don Beezley	R	cash	\$20.00	\$18.00	\$2.00	
07/07/11	KE7JEQ	James Elizy	A R	4037	\$67.00	\$20.00	\$2.00	\$45.00
07/07/11	KE7JEM	Brent Elizy	A F					
07/07/11	K7SEN	Neil Vince	A R	5108	\$47.00	\$2.00		\$45.00
07/07/11	AB7NK	Mary Vince	A F					
07/07/11	KF7INF	Dennis Grady	R	5238	\$20.00	\$18.00	\$2.00	
07/07/11	KF7QVG	Jerome O'Conner	N	cash	\$20.00	\$18.00	\$2.00	
07/07/11	KF7QVG	Jerome O'Conner	A N	cash	\$39.00	\$15.00		\$24.00
07/07/11	KF7PQZ	Scott Underwood	N	cash	\$20.00	\$18.00	\$2.00	
07/07/11	KF7QPQZ	Scott Underwood - sm patch		cash	\$3.00	\$3.00		
07/07/11		Patches 1 large/1 small		cash	\$6.00	\$6.00		
07/07/11	K7CJW	Bob Tilman	R	4257	\$20.00	\$18.00	\$2.00	
07/07/11	WA7YUL	Bob Ower	R	cash	\$20.00	\$18.00	\$2.00	
07/07/11	KE7D	John Blitch	R	cash	\$20.00	\$18.00	\$2.00	
07/07/11	AD7UR	Richard Myers-TS430S(donated rig)		5206	\$350.00	\$350.00		
07/07/11	KF7PQY	Patty Perkins - shirt		cash	\$19.00	\$19.00		
07/07/11		50./50		cash	\$129.00	\$129.00		
<b>Income Totals</b>					<b>\$820.00</b>	<b>\$688.00</b>	<b>\$18.00</b>	<b>\$114.00</b>

**Expenses**

07/07/11	K6UWV	David Passell - Refreshments		1064		\$11.89		
07/07/11	KE7KWH	Ken Henson - Ice/field day		1065		\$29.68		
07/08/11		Allegra - newsletter		1066		\$28.22		
07/08/11	WB6ODR	Bob Smith - 50/50		cash		\$64.50		
07/13/11	K6VVR	Pete Morrison - field day food etc.		1068		\$301.79		
<b>Total Expenses</b>						<b>\$436.08</b>		
Beginning Balance					<b>\$4,660.35</b>			
July Income					<b>\$688.00</b>			
				June End Repeater Fund		<b>\$1,329.22</b>		
				July 2011 Repeater Fund		<b>\$18.00</b>		
Sub Total				Inter-est				
				June 30, 2011		\$0.16		
Expenses				July Repeater Fund Bal.		<b>\$1,347.38</b>		
				ARRL Payments	Ck 1067			<b>\$114.00</b>
General Fund Balance				July Income		\$820.00		
				Cash out 50/50		\$64.50		
Net Loss/Gain				Deposit		\$755.50		

\*\* Money (\$20) deposited in June deposit in error due to mistaken identity.

June treasurers report failed to show expenses of \$43.50 paid out to 50/50 winner K6UWV.

Income shown in June also \$20 short due to spreadsheet not picking up all income boxes, (K6UWV's donation).

# Field Day 2011

By Jim Ball, WB7UZV

Well another Field Day has come and gone and it was a great one. Thanks to Neil (K7SEN) and Bob (K7POF), the three stations they set up worked flawlessly. About two dozen helpers showed up for Saturday's setup and everything went off as planned.

Will (AD7WW) and I loaded up his barbecue at 8:00 AM, headed for the Hilltop Ramada behind the Heritage Park Zoo, and had it unloaded by 8:30.



Pete (K6VVR) and I had purchased the food and condiments the day before at Cosco and I loaded up the drinks, food, condiments, etc from my house and headed for the Ramada round 9:00 AM. By the time I had arrived at 9:30 AM, Ken (KE7KWH) had unloaded a dozen bags of ice. So the drinks were soon cold in the coolers provided by Pete (K6VVR) and Terry (KB7TRE) who also brought his camper.

At 11:00 AM sharp all three stations were on the air manned by Bob (K7POF) 6 METERS- Tony (KI6AHH) 40 METERS- and Jeff (WB7RFY) 20 METERS- who also provided log sheets and water proof scripts for all three stations.



So I headed to Frys for the rest of the food as Will (AD7WW)- John (W5VJH)- and Barbara (W5GBG) started cooking the hamburgers.

Everything came together by 12:00 noon when the rest of the members arrived for the Y.A.R.C. picnic and filled up on great side dishes, Hamburgers, and Fried Chicken.

Pete (K6VVR) provided a low power transmitter for the afternoon T-Hunt which was won by John (WB9VGJ).

The following morning after a night of SSB and CW contacts, we were all tired and hungry, so Terry (KB7TRE) cooked up his famous breakfast consisting of brats, potatoes,



cheeses, eggs, and other stuff that only Terry can make!!! Along with strong black coffee it was more than enough to get us back on the radios for the final push.

There were lots of people that showed up for the 11:00 AM breakdown, including Roy (AD7FW) who rode into the Ramada on his new motorcycle.

The Ramada was left cleaner than we found it, so hope to see everyone again next year. ■

73 Jim

Photos Courtesy of Frank Stephenson, KB7AAH



(More photos by WB9VGJ at: <http://tinyurl.com/6gclttg> )



**By Lloyd, WA6ZZJ**

## **ARES/RACES.....**

There is still the Prescott Regional Response Exercise set for Tuesday, August 16, 2011. This will be a large scale exercise with several agencies from the area involved and ARES/RACES will play an important part in it as well. The scenario is a two plane crash at Love Field involving mass casualties.

## **SPECIAL EVENT COMMUNICATIONS.....**

September is the kick-off for our 'second season' of Special Event Communications with the following events scheduled at this time:

The first event will be the March of Dimes March for Babies on Saturday, September 10, 2011. This event is fully staffed at this time.

Once again we will have two events in one day with the rest of the schedule as follows:

Saturday, September 24, 2011 The Tour de Pee Vee ½ Marathon

Saturday, September 24, 2011 The Groom Creek Classic ½ Marathon. Patti, KD7VBG, will be coordinating this event.

Friday and Saturday, September 30<sup>th</sup> & October 1<sup>st</sup> will be the Prescott Road Rally. Check the website <http://www.prescott rally.com/> for more information.

Saturday, October 15, 2011 -- Americas Walk for Diabetes. John, WB9VGJ, will be coordinating this event.

## **OPERATING DURING SPECIAL EVENT COMMUNICATIONS.....**

The job of net control is to make sure traffic flows smoothly. Just as a traffic cop stands in the middle of the intersection and directs vehicles, the Net Control operator is placed in the middle of a event net. Each case requires visi-

bility to carry out the job. A traffic officer sees cars approaching and directs them according to the flow of road traffic. The Net Control operator directs message traffic so it flows in a smooth manner. Net Control is a traffic facilitator.

**ALWAYS LISTEN BEFORE YOU TRANSMIT.** It is quite annoying for someone to start talking right in the middle of someone else's conversation; it wastes air time, causes confusion, and tends to make the Net Control very unhappy!

Always give the identification of the station you wish to call first, followed by your call. For example, "Net Control, this is Water Three."

Net Control operators keep written logs of everything that occurs on the net, including a summary of everything you say. You, as an event station operator, should also keep a log of important traffic from your locations. The logs are useful as a reference during the event to answer questions that might come up. They are also the only legal documents kept about an incident and have been invaluable when questions arise later about such things as accidents.

Keep a copy of your event information or assignment sheet with you. This helps you to determine what operators are assigned to each location. When you need to pass traffic to another location, ask Net Control to "go direct" with that operator. For example, "Net Control, Water Three, request direct with Water Four." Net Control will say, "Go Ahead". You may then call your station direct. At the conclusion of the exchange, each operator should sign off with his / her FCC call sign.

Net Control is frequently very busy, sometimes with work on the other frequencies, or other tasks. If you call Net Control and don't get an immediate reply, be patient and call again in 30 to 60 seconds. If it is an emergency, say so. If you still get no answer, proceed with emergency traffic without Net Control. However, the reason you don't get an answer may be that you are possibly in a bad location and not being heard; try moving to another spot and try again.

If you have emergency traffic, use your tactical call and state "with emergency traffic". All communicators should immediately cease use of the frequency and yield to the station with emergency traffic. If you have traffic that is not emergency in nature, yet is of utmost importance, use your tactical call and state "with priority traffic".

Sometimes several stations have traffic or messages at the

same time. Net Control usually likes to solve one problem before moving to another. If you are asked to stand by, please do so. The Net Control will get to you either in the order of your call or by the priority of your traffic.

If you must move off your assigned frequency for some reason, advise Net Control when you leave and again when you return.

If someone is having trouble with a radio, or some other kind of question comes up, don't jump in to help unless you are asked! It often causes much confusion, so let Net Control handle it.

When your assigned location is being closed and you are ready to leave your position, "check out" with Net Control. Also, when possible, check again with Net Control when you arrive at home. This insures we can account for all of our people.

Now, have fun with Amateur Radio Special Event Communications..... ■

## Need a Hand?

If you need assistance, we want to help you. If you are just starting out in ham radio, or simply have run across something that you could use a hand with... technical assistance or answers to questions about the Yavapai Amateur Radio Club, are available from knowledgeable club members.

**Don't Hesitate to Ask for Help!!**

**CALL:**

**Neil Vince, K7SEN** at: (928) 775-2158

**Jim Ball, WB7UZV** (928) 445-2997

**Will Taylor, AD7WW** (928) 445-1717

### Membership Count:

1st Thurs. in June.....	177
Gain/Loss.....	+1
1st Thurs. in July.....	178



## July 10, 2011 T-Hunt

By John Broughton, WB9VGJ and Jeff Hanna, WB7RFY

Bryan, W7BNW, came in first, with Bob, WB6ODR, coming in second and Pete, K6VVR coming in third.

While team WB6ODR was first in area of the hidden transmitters, on & near the old railroad bridge, team W7BNW won July hunt by a slim time margin. 15 hunters approached from multiple directions, even from below. All had a great time and shared after hunt discussion & refreshments. See expanded photo story at <http://tinyurl.com/5w7m735> courtesy of WB9VGJ.

**Editors Note: T-hunt frequencies are now listed on Page 12.**



## Need Cards Checked for ARRL Operating Awards?

Jim Zimmerman, N6KZ can check your QSL cards for DXCC, WAS, VUCC, WAC, etc.

For information contact Jim at: (928) 713-0542.

Jim's QTH is at: 778 Grapevine Lane,

## Amateur Radio Newsline

Bob Sitterley, K7POF is transmitting the Amateur Radio Newsline daily at 0800 MST on his 449.250 Repeater.

Also, the Newsline is transmitted on 147.000 Tuesdays at 1855 MST, just preceding the 147.000 weekly net at 1930 MST.



## Hallicrafters

From "Boat Anchor Manufacturers", at <http://www.ominous-valve.com/ba-mfrs.html>

The Radio Man's Radio," Hallicrafters was the personal creation of Bill Halligan in 1932. Halligan's early radios were hand crafted, and even signed by whichever employee built them. Hence the name, "Hallicrafters."

Bill Halligan is yet another of the old-time radio people. He served as a wireless op in WW I, and built spark transmitters. In 1928, he started his first company, the precursor to Hallicrafters. It moved around, as RCA licenses became available, and ultimately located in Chicago. Its first communication receiver was the S-1 Sky Rider, a regen made in 1934. This bandswitching radio, still fairly innovative for the time, was the first in a line that lasted until the 1970s. Most of the comm radios had S- numbers, though for a long time the ones with crystal filters became SX-. Later still, when up-conversion came in and crystal filters went out, SX- seemed to label all of the top-line ham receivers, like the SX-101 and SX-115. The latter was not a state of the art design, and some consider it overrated, but it was a darn good radio for the ham bands. Not many were sold, as Collins and Drake had already put an end to the battleship era. Today the set has a certain mystique which is hard to explain, fetching absolutely ludicrous eBay prices.



**S-38D  
RECEIVER**

Smart new styling in this world-wide performing compact receiver.

Fine for the new amateur or as a reliable standby set. Communications-type controls for standard broadcast plus 3 short-wave bands, 1650 kc. to 22 mc. Sensitive built-in speaker. Headphone tip jacks. CW oscillator. Engineered throughout to give years of good service.

S-38D, complete with tubes. \$49.95

Hallicrafters collecting is something of a hobby within a hobby, and it's easy to see why. The company always made a whole line of shortwave radios, clear from the bottom-end Sky Buddy, which kids could afford, to the inexpensive (OK, cheap) S-38/S-120, through mid-priced equipment, to gee-whiz high-tech gear which looked and sounded as formidable as anything ever made anywhere.

The result is a dizzying array of Sky Buddies, Sky Riders, Sky Couriers, Sky Trainers and Sky just about everything else, all aimed at the consumer market, and in addition all the numbered models that could be used in the home or the shack. The company sold an awful lot of radios. They turn up in some very unlikely places. For example, the 'air band radio' seen in the office on the Wings TV series was an old Hallicrafters receiver, though they made a real aero radio that is something of a classic as well.

Anyone making this sheer volume of gear needs to make certain compromises, especially if they like staying in business. Hallicrafters tended to use generic, mass produced parts, which is good news and bad news today. The good news is that there are fewer custom parts for the restorer to locate. The bad news is that many a collector or user has opened up their Hallicrafters and recoiled. It looks like a cheap Silvertone in there!

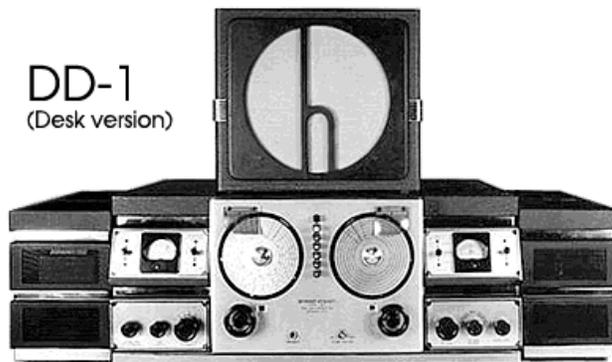


**HALLICRAFTERS SX-100 RECEIVER.**  
Less speaker. Net.....\$295.00

Even so, Hallicrafters made some incredible radios. One good example is the legendary DD-1, an absolutely visionary super-DX receiver that looks more like a 1930's movie space ship control panel. It's a double-diversity radio, covered with dials and meters. Basically, the intent was to incorporate into a production ham set the diversity concept being experimented with by amateurs looking for a solution to fading

of AM phone DX. They never intended to sell a lot of them, as much as they intended to earn Hallicrafters the respect of the real hard core radio people. Therefore, only a couple hundred were made, and these cost as much as a new car. A good history of this high-end amateur set, along with photos that will make you drool, is [right here](#). The DD-1 is definitely a major prize in any boat anchor collection. [The preceding paragraph was updated and corrected in June 2007. -Hugh]

**DD-1**  
(Desk version)



Hallicrafters also made some great transmitters, both for government/military and amateur. These tended to be true boat anchors, with some of the heaviest chassis in the industry, until they slimmed down considerably in the late 60s/early 70s. The ham line started with 1937's classic HT-1, in the same awesome case as the DD-1. This evolved into the legendary HT-4, an enormous, 350-watt, practically commercial-grade, transmitter weighing 400 pounds.

When WWII came, Hallicrafters quickly adapted the HT-4B into a somewhat more rugged military version, the BC-610. A lot of these were incorporated into a self-contained HF comm station made for the Signal Corps. Despite its boat anchor gear and large antenna, the station was completely mobile in a truck, even towing its electric generator behind. Hallicrafters made a lot of these, and other military gear for all services. The company was justifiably proud of its Army/Navy "E" pennants for war production efficiency.

After the war, Hallicrafters hit the ground running with a revived HT-4B, selling for \$1500 in 1950. Back on earth, hams could buy the more modest HT-6, with an 807 final, and the midsize HT-9. These were followed by the modest little HT-17 and HT-18 beginner's rigs, a larger HT-19, and another 1950 heavyweight entry with the "TVI-proof" HT-20. (Hallicrafters, like Collins, addressed the new problem of television interference by increasing shielding and adding a built-in LP filter.) The HT-30 followed in the mid-50s, with somewhat more streamlined styling which carries over in the classic HT-32/32A-B of the 60s. The '32s are definitely in the best boat anchor tradition, weighing at least 85 pounds, and they are excellent radios.

The HT-37 was quite a bit lighter (I could carry mine by myself, though just barely), mostly because Hallicrafters had skimped on the power supply and the materials used in the case. It fit into a mid-level ham line also including the SX-111 receiver and HT-41 linear. However, the HT-37 is highly prized today, because its balanced-modulator section, with phasing-mode sideband generation, is one of the nicest sounding rigs ever made. Use a suitable mike, like the high-Z D-104 without the preamp, keep the gain down, and you can be confident of having the best SSB audio on the band.

Amplifiers were the HT-31, in a heavy case resembling the HT-20, and the HT-33/33A-B series, companions to the HT-32 and using progressively more powerful tubes which easily made the "full gallon."

In the 60s the beginner's rig was the HT-40/40A, then finally the trend away from the real boat anchors produces the interesting HT-44 and HT-46. There's also a lightweight, 3-400Z linear in this period, the HT-45 Loudenboomer, which came from an earlier product marketed by Radio Industries.

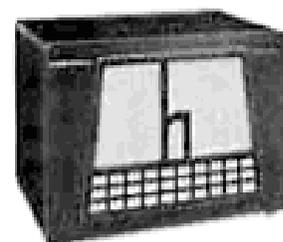
A popular early electronic keyer was the Hallicrafters "T.O. Keyer," in a large case with built-in sidetone speaker. Unlike most such keyers in that era, it was a heavy-duty unit that could handle -65 volt grid circuits in big tube rigs.

Many Hallicrafters general-coverage receivers, and even the ham-only SX-101/101A, had what became something of a trademark for this company, namely the giant, etched glass, slide-rule dial. Think Zenith Trans-Oceanic, then think way, way, WAY bigger. If you break one of these, you will need to cannibalize another radio for a replacement. They are practically church windows.

The largest such dial was probably on the popular SX-62, an entertainment receiver which covered .540 to 108 MHz, continuously, switching to a separate IF strip with an FM discriminator on the higher bands. Yes, you could hear the cops on this one. It was a living room version of the turret dialed SX-42, which was itself derived from countermeasures receivers made in the war. The '62 has the classic, shortwave dial, covered with markers for Rome, Paris, Moscow, and other cities which may or may not have ever actually broadcast there.

The SX-62 and 62A are extremely complicated sets, hard as hell to work on, though at least there's a Sams Photofact on it. It's prone to shaft stripping on the 12-section bandswitch, and Lord help you if the tuning drive cord needs restringing. However, I've actually used one for a ham radio, with an external relay to switch the antenna and speaker. The crystal filter does a nice job, though since the ENTIRE 40 and 20 meter bands are about half an inch wide, if anyone bumps the radio, your station is gone forever. It's a somewhat more practical set for MW AM DX, with the right antenna.

Also look out for Hallicrafters speakers, the R- series. They match the output impedances of the receivers, and just generally look cool. The enormous R-42, designed to work with the SX-42's 8-watt 6V6 audio section, has a hi-fi/ communication response switch and a real sci-fi bass port. The SX-62, with a similar audio output, can use it too, though by then there was a slightly more domesticated R-46, the one with that famous Hallicrafters "h" all the way up the grille. Of course, there was a small communication-audio speaker too, the little R-47, which looks suspiciously like the ones Motorola sold with its VHF cop radios.



**R-46 Speaker**

Hallicrafters also made a rather extensive line of consumer electronics. While some of this was pretty ordinary stuff, there were some classics. When TV came in, Hallicrafters made a desktop set with a small (12"?) screen and radio-style push buttons, in a case that looks a great deal like the one used for the SX-62. This TV, the T-54, is really hip right now, and you see it in a lot of design books. They study its looks in art schools. It's kind of halfway between 50s high-tech and 60s camp. Probably doesn't hurt that it had a channel 1, even after the FCC eliminated it in 1948. It was followed by the T-505, in a more living-room-friendly wooden box, then by a more standard line of larger screen TVs.

WWII's spectacular production output left Hallicrafters a large company with 2500 employees at several big factories in the Chicago area. For most of the fifties, they kept up this output, selling most of the short wave receivers used by the public. Seems as if everyone had an old S-38 around somewhere.

Ultimately, though, things seemed to decline. Northrop bought Hallicrafters in 1966, and tried to refocus it on military gear. The last amateur product was discontinued in 1972. Subsequently, Hallicrafters had a succession of new owners, and it now appears to have completely dissolved. Bill Halligan died in 1992, at age 93. The name has been re-registered and is now property of Professional Electronics Company, Inc. ■



## Wednesday Evening Net

All club members are invited to check into the Wednesday evening net at 7:00 p.m. on the 146.880 repeater. There is a pilot tone of 100 Hz.



Thank you to those who signed up to take the net in July thru August 17. **Net controls are still needed for the remainder of August, all of September, November and December.** You can sign up for a week, a couple weeks or the entire month. It is a great experience and you're with friends. The preamble and roster are available on the website, [WWW.W7YRC.ORG](http://WWW.W7YRC.ORG), under the Weekly Net Tab.

The club participates in numerous public service events throughout the year. Checking into the net is a great way to make sure your radio equipment is functioning properly as well as keeping your radio skills top notch.

Various subjects are discussed on the net and if you have an idea, question or wish to sign up as net control, contact Neil, K7SEN at 775-2158 or [k7sen@arrl.net](mailto:k7sen@arrl.net)

## Club contacts - At a Glance

President - AD7YR	<a href="mailto:president@w7yrc.org">president@w7yrc.org</a>
Vice President - KE7NAP	<a href="mailto:vice.president@w7yrc.org">vice.president@w7yrc.org</a>
Secretary - AD7RL	<a href="mailto:secretary@w7yrc.org">secretary@w7yrc.org</a>
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Field Day Chairman	<a href="mailto:field.day@w7yrc.org">field.day@w7yrc.org</a>
Fox Hunts	<a href="mailto:fox.hunt@w7yrc.org">fox.hunt@w7yrc.org</a>
License Classes	<a href="mailto:classes@w7yrc.org">classes@w7yrc.org</a>
Membership Application	<a href="mailto:membership@w7yrc.org">membership@w7yrc.org</a>
Newsletter Editor	<a href="mailto:newsletter@w7yrc.org">newsletter@w7yrc.org</a>
Program Inputs	<a href="mailto:programs@w7yrc.org">programs@w7yrc.org</a>
Public Service - DEC	<a href="mailto:public.service@w7yrc.org">public.service@w7yrc.org</a>
Repeater Trustee	<a href="mailto:repeater@w7yrc.org">repeater@w7yrc.org</a>
Special Events	<a href="mailto:special.event@w7yrc.org">special.event@w7yrc.org</a>
VE Test Liaison	<a href="mailto:testing@w7yrc.org">testing@w7yrc.org</a>
YARC Party Coordinator	<a href="mailto:yarc.party@w7yrc.org">yarc.party@w7yrc.org</a>
Webmaster	<a href="mailto:info@w7yrc.org">info@w7yrc.org</a>
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# 2011 ARCA / WILLIAMS HAMFEST

By Mary Vince, AB7NK

The weather couldn't have been better for the 2011 Williams Hamfest. Early mornings were a bit chilly with reports of overnight temperatures dropping to the low 40's. For the three day event not a drop of rain fell and the breeze was a welcome one by mid day.

Attendance appeared to be down from last year but didn't dampen the camaraderie. Everywhere you looked were groups of hams doing what hams do best – swapping stories! Those who did attend were enjoying themselves, and seemed to be happy with the purchase of their sought out treasures.

Friday's fox hunt was held with limited participants. I won't give out how it was hidden in the event someone would like to use the unique location on an upcoming event.

The indoor pavilion looked a bit sparse partly due to two of the larger vendors, DX Engineering and Icom having to pull out at the last minute. Arizona Section Manager, Tom Fagan, K7DF, his daughter, Beth, KE7ZPI and others manned the ARRL booth answering questions. RF Stuff, Wired Electronics, Fue Industries, an engraver and ARCA filled the remaining tables.

Prizes were given away every half hour with the grand prize being an Icom IC-718 HF rig and second prize was an Icom IC-2200H.

VE testing was held Saturday as well as numerous meetings and gatherings throughout the day. Several new hams earning their upgrades as well as eager new technicians were spotted on Saturday.

The annual BBQ attendance was a bit above average with everyone having a great time. The 2011 Hamfest came to a close with several participating in the train ride. ■



Photo by Beth Fagan, KE7ZPI

Bryan Whipp, W7BNW with Dave Drown, WN7L in the background - - inside the indoor pavilion.

## NOTE ABOUT THE SSN/FRN NUMBER ON THE NCVFC FORM 605

By Mary Vince, AB7NK

When you complete an NCVFC Form 605 application for an amateur radio license at a VE session, you will be required to enter either your Social Security number, or a Federal Registration Number (FRN) on the form.

If you are upgrading, you will already have an FRN number assigned (Shown on your license.)

If applying for the first time, (technician license) and you would rather not use your SSN, you should pre-apply for a FRN number from the FCC in advance of the test session. You do not have to hold any kind of license to apply for an FRN. This can be done on-line at:

[http://wireless.fcc.gov/uls/index.htm?job=about\\_getting\\_started](http://wireless.fcc.gov/uls/index.htm?job=about_getting_started)

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You'll be glad to know your tower now conforms to the community's maximum height limits ---what is it you hams say, "Happy Dxing"

## Area Repeaters

### Weekly Breakfasts



#### **Wed. Morning Breakfasts:**

**7:00 a.m. at**

**Iron Horse Restaurant**

*(Hwy 89 in Chino Valley)*

*(N 34°43'56.5" W112°27'15.4")*

\*

*informal – all are invited*

**8:00 a.m.**

**Masonic Lodge**

*(1280 Willow Creek Road,*

*2<sup>nd</sup> Floor; above Bank of America)*

*informal – all are invited*

\* Location data (per WGS84) provided

by Fred Zimmermann, N7PJN

Freq.	PL	Location	Owner/Club	Auto-Patch	Rem. BaseOr Linked	Vo IP	Notes:
52.560-	100.0	Mt. Union	N7NGM			IRLP	Node 3301
145.290-	127.3	Mingus Mtn.	ARES/RACES				
146.780-	91.5	Williams Mtn.	BWARC			IRLP	
146.880-	100.0	Prescott	YARC				
146.980-	162.2	Flagstaff	CARC				
147.000+	162.2	Mingus Mtn	MMRG				
147.140+	162.2	Flagstaff/-Mt. Elden	ARA		Linked to Mt. Ord		Mt. Ord=147.36
147.220+	162.2	Mingus Mtn	VVARA				
147.260+	103.5	Mt. Union	ARES/RACES				
224.080-	156.7	Mt. Union	WA7JC				
442.150+	100.0	Mingus Mtn	W10Q/Northlink				
442.350+	100.0	Glassford Hill	N7KPU			IRLP	
448.475-	100.0	Flagstaff-Elden	ARA	Yes			
448.875-	100.0	Flagstaff-Elden	Northlink		Linked		
449.175-	100.0	Towers Mountain	Northlink		Linked		
449.250-	192.8	Chino Valley	K7POF				"AR News Line" daily at 0800 MST
449.675-	88.50	Prescott Airport	WB7BYV		Linked to P Mtn.		P mtn=927.3875
449.725	110.9	Mingus Mtn	WA7JC				
449.750-	123.0	Williams	K7NAZ		Linked to Win-Sys		
927.0875-	151.4	Mingus Mtn	WB7BYV				
927.3875-	151.4	Prescott	WB7BYV	Yes	Yes	Echo	Be Nice



**T-Hunt Frequencies:**

**Primary - 145.100 MHz**

**Secondary - 146.565 MHz**

**For more Repeater Information & Listings refer to:**

- [www.w7ara.org/Web/](http://www.w7ara.org/Web/)
- [www.azrepeaters.net](http://www.azrepeaters.net)
- [www.azfreqcoord.org/listings.htm](http://www.azfreqcoord.org/listings.htm)

## YAVAPAI AMATEUR RADIO CLUB

**P.O. BOX 11994**

**PRESCOTT, AZ 86304**

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Many thanks to Dick Hughes, W6CCD, our Webmaster

