

YAVAPAI SIGNAL

The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume16– No. 9 • October 2004

Welcome To The Yavapai Amateur Radio Club

The Yavapai Amateur Radio Club (YARC) is an ARRL affiliated club. The club participates in many activities in the tri-city area by pro-viding 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/yr. The YARC meets at 7:00 PM local time on the 3rd Thursday of every month at the Granite Mountain Middle School, 1800 Williamson Valley Rd. in Prescott. It is about 1/2 mile north of Iron Springs Rd 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 PM local time on the 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 6:45PM local time on the 147.220+ repeater on Mingus Mtn.

Club Repeater

The local 146.880- mHz repeater is the official adopted repeater for the YARC. It is located on the hill above Willow Creek Rd and requires a PL of 100.0 Hz. If you hear a 1400 Hz pulsing tone, the repeater is on backup battery power and usage should be limited to necessary communications. The 147.040+ (100.0 PL) repeater is back up and running in Prescott Heights. Many thanks to Bill Kafka, W2YAV for the upkeep and use of the repeaters.

YARC Officers for 2004

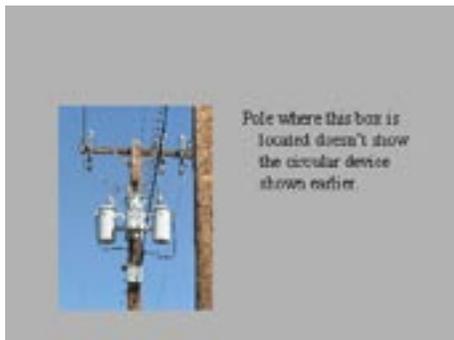
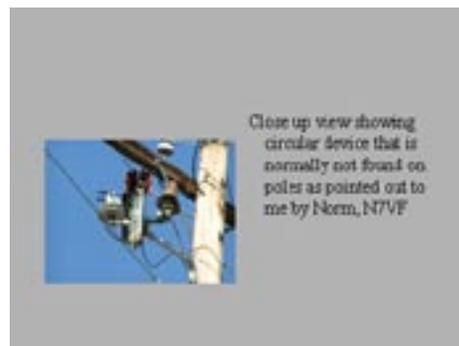
<i>President</i> Rex Mauldin-N7NGM <i>rxer@jolmail.com</i>	<i>Vice President</i> Dick Hughes-W6CCD <i>w6ccd@arrl.net</i>
<i>Secretary</i> John BroughtonWB9VGJ <i>wb9vgj@arrl.net</i>	<i>Treasurer</i> Al Crook-KD7MTJ <i>alcrook@access-4-free.com</i>

YARC Board of Directors (includes Club Officers)
Bob Smith-WB6ODR
Frank Horneff-WA7JBV
Jack Ragen-W3IVQ
David Passell-K6UWV
Weekly Net Control—Rex Mauldin-N7NGM
Newsletter Editor—Hal Tritel-N6OVE



Rex Addresses Interference Issues the With Bpl Systems

Rex spoke at length about the results of the tests conducted in Cottonwood by the Verde Valley Amateur Radio Association and showed a Power Point presentation which graphically illustrated the problems and showed the letter sent to Electric Broadband and Arizona Public Service which is reproduced here with some of the Power Point slides,



(See page 6, BPL)

Minutes of September 16, 2004 Meeting



Rex, N7NGM, called the meeting to order at 1905. The Pledge of Allegiance was recited. Visitors were Paul Cravens,

KE7BSX, and Dave Luteyn, N6WSZ. KE7BSX joined the club as a new member.

Bob, WB7RRQ, moved the July meeting minutes be approved. Hal, N6OVE, seconded the motion. The motion carried. (The minutes were not approved at the August meeting as the newsletter had not been printed at that time.) Terry, KB7TRE, moved the minutes of the August meeting be approved. Jack, W3IVQ, seconded the motion. The motion carried. Al, KD7MTJ, gave the treasurer's report.

Old business: Rex passed around the two artist's sketches of the new club patch asking the attendees to pick which one they liked the best. Later in the meeting, the designs were discussed and the attendees voted for the tombstone shaped one over the rectangular one. Al, KD7MTJ, who had brought the information from Bob, WB6ODR, who is the contact with the supplier, was instructed to inform Bob of the choice and to proceed with having the three sample patches made that the club authorized \$30.00 for at the August meeting.

New business: Jack, W7JLC, informed members about the air show that will be held at Love Field on Saturday, Oct. 2nd. He said officials are looking for some volunteer communicators, however, they would not be using amateur bands. The date conflicts with the Prescott Rally, for which many club members will be providing communications. Rex showed a cap the VVARA (Verde Valley Amateur Radio Association) is selling for \$10 in order to raise funds for the effort being expended by that club to monitor and fight the PBL (Broadband over Power Line) testing and implementation in the Cottonwood area encouraging anyone interested to purchase a cap to help the effort. He talked about the current testing of the BPL test currently being done and

of the difficulty and apparent futility of getting the FCC to deal with interference complaints. He talked about an adopt-a-city program that is being instituted to try to get hams involved in working this issue in various towns and cities where the technology is being tested. He advised the VVARA would be meeting on this side of the mountain on Oct. 20, site to be determined, but probably in Prescott Valley and that folks interested in the issue might want to attend that meeting. David, K6UWV, mentioned that a recent ARRL letter had a piece about interference on 7238.1 MHz and that it was originating somewhere east of Prescott and west of I-17.

Announcements: John, WB9VGJ,



New Member, Paul Cravens, KE7BSX

announced he had a sign-up sheet for the Diabetes walk on the Yavapai Reservation for Oct. 16 and asked for volunteers. He also asked for volunteers for the NRA birthday special event to be held at Gunsite Academy on Nov. 17th. Bob, WB7RRQ, said he could still use a few more volunteers for the Prescott Rally Oct. 1 and 2. David, K6UWV, said Hal, N6OVE, did a good job with the club net on 9/15 and asked if he would be acting as net control any more. Hal said he would act as net control for the Wednesday night net for a while. Ray, K6CMU, advised of a fly-in this Friday, Saturday and Sunday for model aircraft 80" and larger at the model airplane field on Perkins Rd. He said the hours would be from 7:30 a.m. to 5:00 p.m. each day.

The meeting was adjourned at 1945.

The meeting reconvened at 2006 for the program. The drawing was held and Ray, K6CMU won \$11. Rex talked more about the BPL trial in Cottonwood and showed a video of the testing made by the VVARA.

The program ended at 2040.

Respectfully,

John Broughton, WB9VGJ

Secretary

Meeting Minutes - YARC Board Meeting 09/16/2004

A board meeting of the YARC board was held at Granite Mountain Middle School 09/16/04. Present were: Rex, N7NGM; John, WB9VGJ; Jack, W3IVQ; Al, KD7MTJ; David, K6UWV, and Frank, WA6JBV.

Rex called the meeting to order at 1800. David had the sample artwork for the club patches that Bob, WB6ODR, had obtained from the supplier. The board was unanimous in its choice of the tombstone style patch over the rectangular one. The board decided that, if the club members approved the design and the actual sample to be made, it would recommend the club order 100 patches. Discussion was held regarding the repeater fund having been folded into the general fund at the January 2003 meeting and it was agreed that the intent was to no longer 1) put \$2.50 of each membership payment into the fund and 2) no longer have any funds allocated towards any possible future repeater expenses. However, it was discussed that the club needs to be aware that there may be some future need to spend money for repeater related expenses, so the club should be wise with expenditures that will draw down the general fund.

The draft changes to Articles I– VII of the club bylaws were discussed and approved by the attendees. John moved the changes to Articles I – IV be approved. Jack seconded the motion and it was carried. John moved the changes to Articles V – VII be approved. Jack seconded the motion and it was carried. There was discussion of two other changes to Articles I – IV – ones that had been discussed at previous board meetings. John moved the two additional changes to Articles I – IV be approved. David seconded the motion and it was carried. The board members will review the remaining articles prior to the Oct. board meeting at which changes will be discussed and approved by the board. Once the board has completed the task of drafting the changes, the changes will be presented to the membership for the necessary approval via a ballot procedure.

Rex brought up the issue of the tower, rotator and two antennas a ham is donating to the club. Discussion was held on whether they ought to be sold or given
(See Minutes, page 4)



I was going to have Lee send in a column, but maybe he ran out of time too and now he is out of town. I am on the road and in North Dakota at this time. I

guess if you want go ahead and run last month's column to fill space. I will be back the end of September to get next month's column in.

“Only Reliable Communication We Have Here Is Amateur Radio”

Once again, Amateur Radio has proven its value in an emergency. With conventional telecommunication systems unreliable and power still out after the Category 4 Hurricane Charley blasted across the Florida Peninsula August 13, Amateur Radio has proven to be a communication mainstay.

“The only reliable communication we have here is Amateur Radio,” ARRL West Central Florida Section Manager Dave Armbrust, AE4MR, told ARRL earlier this week. He was one of the three dozen ARES volunteers at the Charlotte County command post. “We’re out in the field trying to handle so many different things that it’s almost overwhelming,” he said five days into the activation.

By week’s end, the need for additional ARES volunteers in the Hurricane Charley relief and recovery effort had stabilized. Communications and Warning Officer John Fleming, WD4FFX, of the Florida Division of Emergency Management (FDEM) told ARRL that ham radio volunteers already on duty in the five most severely affected counties were holding their own in maintaining necessary emergency communication. But he advised Amateur Radio volunteers to remain at the ready, just in case, and recommended that ARES teams, clubs and individuals work through their ARES Section Emergency Coordinator.

The FDEM says Hurricane Charley caused two dozen deaths and nearly 4000 injuries, and almost a quarter-million residents were still without power at week’s end. Other reports indicate that as many as 10,000 homes were badly damaged or destroyed.

The most severely stricken communities are in largely rural areas of western and central Florida made up of smaller towns. Among other storm relief duties, hams have been part of an effort to check on residents and determine what they need and to “make sure everyone’s okay,” Armbrust said.

ARES/RACES

Training Exercise

There will be an Arizona State Terrorism Exercise on Friday and Saturday, November 12th and 13th. Counties in Arizona and California as well as Mexico will be involved in this two day event. On Friday the 12th Yavapai County Community Health Services (YCCHS) will be having a Bio-terrorism exercise in conjunction with the State event. There could be extensive use of ARES/RACES personnel during this exercise with communications within the County as well as to the State EOC and other County EOCs,. I will have more information on this as the time draws closer.

Public Service Communications

As of this writing, I have been unable to contact the March of Dimes organizers on a date for the March of Dimes Walk America. It has been held in September the last couple of years and I assume it will be again, but it is unknown for sure at this time. As soon as we get a date we will start calling for operators.

The Prescott Road Rally will be Friday and Saturday, October 1st and 2nd this year. The word I have from Bob Rosevear is that the course will be much the same as last year so for those who want the same positions they can get their name on them. Contact Lee, KC7CBK, or Frank, WA6JBV, to get your name on the list. This is probably the largest single event that we provide communications for and thus takes the most operators.

The Americas Walk for Diabetes will be held on Saturday, October 16th this year and will once again be on the Yavapai Indian Reservation. We will begin taking commitments for this around the middle of September.

Lloyd, WA6ZZJ

(Minutes from page 2)

away to whomever would go pick up the tower. He said that from the discussion of this at the August meeting, there was just one person who expressed interest in the equipment and that he had a use for it and did not desire to take the equipment and sell it for profit. The board decided that the club would give this individual the equipment. However, the board decided that in the future, it would consider a policy of auctioning or selling outright any equipment donated to the club as that would bring some monies into the club's general fund.

Rex showed the club the cap he got at a VVARA (Verde Valley Amateur Radio Association) meeting about fighting BPL (Broadband over Power Line) that the VVARA is selling to raise money to help fund the testing of the BPL implementation in Cottonwood. The board decided Rex ought to keep the cap and let meeting attendees know the VVARA had them for sale.

The meeting was adjourned at 1858.

*Respectfully,
John, WB9VGJ
Secretary*

GEORGE AND ALICE WERE BOTH LIVING IN THE SAME SENIOR COMMUNITY, AND AS THE MONTHS WENT BY, THEY SAW MORE AND MORE OF EACH OTHER.

THEY WENT OUT TO DINNER, WENT TO THE SAME MOVIES, WALKS IN THE PARK, ATTENDED PARTIES TOGETHER, AND WERE THOUGHT OF AS A COUPLE.

GEORGE BEING THE PERFECT GENTLEMAN THAT HE WAS NEVER MADE A MOVE ON ALICE, AND ALICE SENSING HIS SINCERITY, FELL IN LOVE WITH GEORGE.

AFTER 6 MONTHS, GEORGE PROPOSED AND ALICE ACCEPTED. THEY SAT DOWN TOGETHER AND DISCUSSED THEIR WEDDING PLANS, HOW THEY WOULD TELL THEIR RESPECTIVE FAMILIES, LIVING ARRANGEMENTS, AND FINANCES.

THE CONVERSATION WOUND DOWN TO THEIR PHYSICAL RELATIONSHIP, AND

GEORGE, APPROACHING THE SUBJECT WITH TREPIDATION, INQUIRED AS TO WHAT ALICE'S SEXUAL HABITS WERE.

SHE SAID THAT ALTHOUGH SHE HADN'T HAD A PHYSICAL RELATIONSHIP WITH A MAN FOR A LONG TIME, SHE PREFERRED HAVING IT INFREQUENTLY.

GEORGE REPLIED BY ASKING: "IS THAT ONE WORD OR TWO"?

Summary of YARC Meeting Attendance 09/03 – 08/04

I had an action item from the August board meeting to create a matrix of meeting attendees for the past year. The board wanted an idea of how many members usually attend the club meetings. I created the matrix along with some summary data. I thought the club in general might be interested in the summary data.

Club membership entities: 73
(number of roster entries)
Individual members: 76
(including spouses)
Courtesy members: 4
(club, ARRL officials)

Total individual members: 72

56 local members attended a meeting in the last year, 13 did not:

Individual members living in Tri-City area: 69 (95.8% of total individual members)

56 attendees in past year = 77.8% of total individual members

56 attendees in past year = 81.2% of total individual members living in Tri-City area

13 non-attendees living in Tri-City area = 18.8% of individual members in area

*John Broughton, WB9VGJ
Secretary*

troubleshooting help: Can anyone help me with a Kenwood 2550A which does not transmit voice.

**Lee Rogers KC2FWT
m_lee_rogers@yahoo.com**

YARC TREASURER'S REPORT

September 2004

INCOME

New Member

16 Sep	KE7BSX	Paul Craven	(9/05)	\$20.
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Renewals

11 Sep	KB2WPN	John Mc Arthur	(6/05)	20.
16 Sep	W6KCF	Jim Blackmore	(7/05)	20.
16 Sep	KF6SPS	Walt Schumann	(10/05)	20.

50/50 Drawing

	<u>22.</u>
Total Income	\$102.

EXPENSES

1 Sep	Caps Unlimited	3 sample patches	\$30.00
1 Sep	Insty-Prints	Aug. Newsletter	32.29
16 Sep	David Passell	Refreshments	4.20
22Sep	Insty-prints	Sep. Newsletter	32.29

Tom Gregory	<u>11.00</u>
Total Expenses	\$109.78

Cash Flow - \$7.78

FISCAL STATUS

Previous Balance	\$1789.52
Checkbook	1781.74



*Al Crook, KD7MTJ
Treasurer*

September 22, 2004

(BPL)

July 31, 2004

Electric Broadband LLC15
15 North Mill Street
Nyack, NY 10960

Arizona Public Service
Atten: Customer Service
P.O. Box 53933, Sta. 3200
Phoenix, AZ. 85072-3933

Dear Sirs

On behalf of the Verde Valley Amateur Radio Association, I am writing this letter to inform you of the interference issues of the two BPL test sites located here in Cottonwood, AZ to Amateur Radio communications in this area.

A series of tests have been conducted and continue to be conducted since January, 2004 to determine the extent of possible interference issues with your BPL systems to the Medium Frequency (MF) and High Frequency (HF) radio spectrum and specifically to the Amateur Radio frequency allocations. As a result of this testing it has been determined that your BPL systems are causing extreme interference issues within the vicinity of the test sites to the point of completely wiping out Amateur Radio reception.

(See BPL, page 6)

It has also been determined that you are interfering with the fixed site station of David Kiggins, KB7KMR located at 443 Rocking Chair Road, Cottonwood, AZ which is 0.56 miles from the Sawmill Cove BPL site and 0.71 miles from the American Heritage Academy BPL site.

The BPL signals are covering virtually the entire Amateur Radio Spectrum and everything else in between in the vicinity of the BPL sites. If these systems were to deploy throughout this community or any other community, running up and down the power lines in everyone's backyards, Amateur Radio communications along with any other licensed radio services in the 1.8 to 30 Mhz spectrum will cease to exist because of the extreme interference issues. The power lines were never designed to carry RF signals such as Broadband Internet Services over them and what has happened is that you have

turned the power lines into radiating long-wire antennas. These types of emissions would probably not be a problem if you were running them through a shielded cable such as other broadband internet services do but running them over unshielded power lines has done nothing than to create an RF nightmare to every Federally Licensed Radio Service in the country operating radio communications in this area.

The Amateur Radio Service is an FCC licensed service under Part 97 of the FCC Regulations. The BPL systems that you are currently testing, in this area is regulated by Part 15 of the same FCC regulations which clearly stipulates that " Parties responsible for equipment compliance should note that the limits specified in this part will not prevent harmful interference under all circumstances. (15.15 General Technical Requirements (c) and that "Operation of an intentional, unintentional or incidental radiator is subject to the conditions that no harmful interference is caused..." (15.5 General Conditions of Operation (b).

In conclusion, based on the facts of the attached report conducted by the Verde Valley Amateur Radio Association it has been determined that you are in fact causing harmful interference in the vicinity of the BPL test sites and therefore need to cease operations of these test sites in the Cottonwood area immediately as specifically stated in Part 15 of the FCC Rules And Regulations.. We also demand that these BPL systems not be started back up until the interference issues have been addressed and resolved.

Sincerely,

Mike Kinney KU7W
Verde Valley Amateur Radio Association
BPL Interference Committee

Cc:
Federal Communications Technology
Office of Engineering and Technology
Atten: Anh Eride
Room 7-A825 Portals 11
445 12th Street SW Washington, DC 2004

Federal Communications Commission
Atten: Alan R. Stillwell
Room 7-C210



Intriguing the Physicists, Radio Buff Shrinks an Antenna

While a lifetime in ham radio played a role, it was love that ultimately led Rob Vincent to develop what he says is a way to make antennas significantly smaller but still efficient.

“About 1995 I had met a sweetheart and we fell in love,” Mr. Vincent, now 60, recalled. “I went to live with her, but the only problem was that she lived on this postage stamp of a yard in a congested neighborhood.”

The real estate owned by Carolyn Hardie, the woman Mr. Vincent later married, was an issue because his amateur radio interests had turned toward frequencies in the 160-meter band. That band is close to broadcast AM radio. And, like an AM station, operating on it requires a tall antenna, in Mr. Vincent’s case, one that is 140 feet high. Aesthetic and zoning questions aside, the 50-by-100 foot lot was not big enough to accommodate the guy wires needed to stabilize a tower that high.

So Mr. Vincent, a technician with the University of Rhode Island’s physics department, began thinking about ways to make antennas smaller. The end result is a system that he claims can produce antennas that are one-third to one-ninth as high as normally required. He has spoken to other ham operators in over 80 countries on the 160-meter band through his relatively new, self-supported backyard tower, which is one-third of the conventional minimum size.

Mr. Vincent said his improvements were not just applicable to ham radio towers. They could be used to either further shrink the tiny antennas in cellphones, he said, or boost their efficiency.

Small yet efficient antennas have long been a goal for radio researchers, said R. Dean Straw, the senior assistant technical editor for the American Radio Relay League, an association of amateur operators. “The holy grail is an antenna the size of a grain of salt that produces big signals,” he said.

Generally the size of antennas increases with the wavelength of the frequencies they are transmitting or receiving. While there are several formulas for determining optimum height, the height of most antennas is one-quarter to one-half the wavelength. At 140 feet, for instance, Mr. Vincent’s ham tower would have been

slightly higher than one-quarter of the wavelength of 160 meters, which is equal to 525 feet.

Smaller antennas can be used, but with a trade-off. “When you get below a quarter-wavelength, efficiency drops off dramatically,” Mr. Vincent said.

Before arriving at the university in the early 1990’s in a still-unfulfilled quest to complete his undergraduate degree, Mr. Vincent spent about 30 years in radio-related engineering jobs, mostly with a radar division of Raytheon. But his tinkering with antennas dates back to when he obtained his first amateur radio license at the age of 14.

“I’ve always had a natural understanding of radio - maybe it’s from a prior life,” Mr. Vincent said. “But in those early days I could not fathom how an antenna worked.”

The relationship between antenna height and efficiency was so well established that he initially kept his antenna-shrinking work a secret. Mr. Vincent also acknowledged that he had relatively little idea of what might work when he began the project.

“When I started out to do this it was 10 percent theory and 90 percent black magic,” he said. After reviewing much of the literature, Mr. Vincent started designing antennas with special simulation software on a personal computer.

From the most promising of those virtual designs, he ran tests using antennas that were about 18 inches high and fashioned from copper-covered Plexiglas rods. One model seemed particularly successful until it lost its signal during a high-powered broadcast test. When Mr. Vincent went outside, he found only a lump of molten metal and plastic.

Gradually, he said, potential areas of improvement became apparent. He began confiding in some friends from the ham radio world and faculty members in the physics department. One friend allowed Mr. Vincent to build a 46-foot-high experimental antenna at his country home, which includes a salt marsh.

Saltwater is an antenna builder’s dream. By providing a highly conductive base for the antenna, the water improves reception.

The big prototype improved upon conventional designs in many ways. But one crucial one involved the placement of devices known as load coils along its length. Load coils are commonly used in cellphone antennas to alter their current patterns.

Conventional broadcast antennas, Mr. Vincent said, generally have a lot of current at the bottom and very little if any at the top. With his design, current is more evenly distributed.

To avoid suggestions that saltwater, not his design, was the magic, another 46-foot prototype followed, built on rock. It offered 80 to 100 percent of the efficiency of an antenna three times its size.

About three years ago, the University of Rhode Island became interested enough in Mr. Vincent’s work that it gave him office space. After a review by engineering and physics professors, it began the process of patenting and selling the technology. Mr. Vincent has turned over all his rights to the university.

“We’ve seen test data from Rob Vincent and it sure is attractive,” said Quentin Turtle, the director of industry research and technology transfer for the university.

Mr. Straw of the radio relay league said he was impressed with Mr. Vincent’s work ethic. “But I remain somewhat skeptical,” he said. “I’d like to see some validated field test measurements.”

Mr. Vincent said he was aware that would-be buyers of his technology would demand better test results, although measuring the efficiency of antennas is difficult. But given the scrutiny his project has received to date, he said he was confident that his antennas would pass muster.

“I’m part of the technical staff to a whole bunch of Ph.D.’s,” he said. “You can’t fool these people.”

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Just a reminder that the Prescott road rally is coming up on Oct. 1st. And 2nd.... Still a few spots open if you would like to help.. Please contact Bob Rosevear wb7rrq at 928-772-2180 or rosevear520@cablone.net Your help would be appreciated by the racers..... Bob wb7rrq

Weekly Information Net

Wednesday Nights @ 7:00 pm 146.880 (100 PL)
If you don't have PL, transmit on 146.880 simplex when the repeater drops out.

All amateurs welcome

Monthly Meeting

1st Thursday at Granite Middle School @ 7:00pm
 (N 34°34'22.6" W 112°29'45.1")

Next Meeting Thurs. Nov. 4, 2004 @ 7pm

Wednesday morning breakfast–*Iron Horse Cafe*

S. Hwy 89 in Chino Valley

(N 34°43'56.5" W 112°27'15.4")

Informal –All are invited

Thursday morning breakfast–*Michael's Restaurant*

in the Safeway Shopping Center,

Hwy 69 Prescott Valley

(N 34°35'13.33" W 112°19'44.6")

Informal–All are invited

Location data provided by Fred Zimmermann N7PJN, per WSG84



AREA REPEATERS

Frequency	PL	Location	Notes
52.560-	100.0	Mt. Union (-500 Khz)	CARS N7NGM
53.040-	C/S	Prescott Airport (-1Mhz)	KC7WBE
145.350-	C/S	Wildflower Mtn.	DAWN
145.370-	C/S	Towers Mountan	MMRG
146.780-	91.5tt	Bill Williams Mtn.	BWARC
146.880-	100.0	Prescott	YARC
146.980-	162.2	Flagstaff-Elden	CARC
147.000+	162.2	Mingus Mountain	MMRG
147.040+	100.0	Prescott Heights	W2YAV
147.140+	162.2	Flagstaff-Elden	ARA Link to Ord
147.220+	162.2	Mingus Mountain	VVARA
147.260+	103.5	Mt. Union	YC Emerg.Svcs.
223.960-	127.3	Chino Valley	NW7AZ*
442.150+	100.0	Mingus Mountain	Northlink
442.350+	100.0	Glassford Hill	N7KPU
448.475-	100.0	Flagstaff-Eldon	ARA
448.500-	100.0	Prescott	KB7TWC
448.875-	100.0	Flagstaff-Eldon	Northlink
449.175-	100.0	Towers Mountain	Northlink
448.5250-	127.3	Payson	K2YAW
927.3875	?	'P' Mountain	WB7BYV
			*off the air until further notice.

YAVAPAI AMATEUR RADIO CLUB

P.O. BOX 11994

PRESCOTT, AZ 86304

Visit us on the web at: <http://www.w7yrc.org>

Many thanks to Bob Smith, WB6ODR, our Webmaster

