



# WATTS NEWS



## The Best of Amateur Radio

### Welcome to the OARC e-Magazine

[www.OgdenArc.org](http://www.OgdenArc.org)

**JUNE 2009**

Next Club Meeting

**3rd Saturday June 20, 2009**

**Topic: Field Day: Past, Present and Future**

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#### OARC OFFICERS

President: Kent Gardner W7AHY  
Vice Pres: Justin Doxford KE7ROQ  
Secretary: Maggi Campbell N7HCP  
Treasurer: Jeff Anderson KD7PAW

Director #1: Mike Webster N9NZ  
Director #2: Beth Harrington KE7ELF

#### "WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

#### OTHER CLUB FUNCTIONS

Webmaster: Val Campbell K7HCP  
Board Advisor: Stan Sjol W0KP  
Board Advisor: Mike Fullmer KZ7O  
Repeater Engr: Mike Fullmer KZ7O  
VE Liaison: Mary Hazard W7UE

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## PREVIOUS CLUB MEETINGS

3rd Saturday May 16, 2009

Utah Repeater Coordinator, John Lloyd K7JL

John Lloyd, K7JL, is the current [Frequency Coordinator](#) for the Utah VHF Society. In this position, John is the clearinghouse for repeater information and frequency utilization within the state of Utah for the amateur VHF, UHF, and microwave bands. More than a third of a century of field experience gives John an extensive knowledge equipment operation, repair, and modification, as well as practical knowledge pertaining to propagation and the identification and resolution of interference issues.

John obtained his first license when he was in Jr. High School in 1967 and, by 1970 (in High School,) he upgraded to an extra class. John has been president of the VHF Society and was DARS (Deseret Amateur Radio Society) president for 2000-2001, and is a life member of the ARRL. John is the primary force behind the [Intermountain Intertie](#) (a.k.a. the "Snowbird Link System") being the one who usually does the installation, repair, and maintenance of these (and other) affiliated repeaters along the Wasatch Front.

John presently works as an engineer for U.S. Satellite Corp. in Murray, Utah. In this capacity, he works on all sorts of telecommunications systems, including microwave, satellite, wireless communications, land-based wire and fiber systems. Some of John's other interests include Scouting as well as building even *more* repeaters

Thanks to John for presenting to our club the very interesting information about Utah's extensive repeater network.

## NEXT CLUB MEETING

**When:** 3rd Saturday June 20, 2009  
**Time:** 9:00 AM  
**Location:** Riverdale Fire Station

**Topic:** Field Day: Past, Present and Future

**Talk-in:** -146.90 (pl=123)

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### OARC Yahoo Group



Are you missing out? Join the OARC Yahoo Group and receive/send club related emails/messages, posting and club information.

Just click on the Yahoo Group Icon at the top of the OARC website home page and join up.

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### OARC's O'bay (On-Line Swap-Meet)

(repeat)

**Sale items needed...**

OARC's O-bay (On-Line Swap-Meet) sale/wanted items needed for the web site... Visit <http://www.ogdenarc.org/> then click on Swap-Meet

# CLUB BUSINESS

## Club Badges

(repeat)

OARC Club badges are still available for all club members and non-members.

The cost is \$8.00 each. You can order the badge with either a "PIN" clip or a "MAGNETIC" clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background. See example below.



Place your order along with \$8.00 in advance for each badge ordered and specify Pin or Magnet style fastener, Call Sign and First Name.

Contact any club officer via email or at the next club meeting.

See web site [www.ogdenarc.org](http://www.ogdenarc.org) "Club Officers" page.

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## ARRL Membership

(repeat)

If you want to [join ARRL](#), our club can retain \$15 for each NEW regular or senior membership and \$2 for each RENEWAL submitted. A NEW MEMBER is defined as any individual who has never been a member of ARRL or any individual who has not retained a membership for two or more calendar years prior to the application submission.

A RENEWING MEMBER can renew at anytime, even before their current membership term expires.

If you're joining both the club and ARRL write one check payable to the club and mail both application forms to the club or contact our club **Treasurer**.

### Support your Radio Club >>> [Join OARC and ARRL](#)

- Membership in OARC is complimentary for remainder of 1st year licensed.
- Reduced membership dues for 1/2 year memberships.
- ARRL joins thru OARC benefits your local club without additional cost to you.  
ARRL joins through the club will receive the new Repeater Directory valued at \$10.95 as a gift.

ARRL renewals thru OARC also benefits your club without additional cost to you.

## NOTICE - Help Needed

North Ogden City needs hams to help with communications at the North Ogden Cherry Days parade, July 4. They'll be using 2 meter HTs to link the announcer's booths with the communications trailer.

It's a lot of fun and if they're going to be at the parade anyway...

Contact: Lou Waikart, CERT Parade Coordinator at 801-782-5757.

Thanks,  
Charlie Schmalz  
N7SFT

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### Results of the Weber Co VE Test Session June 3 2009

**Congratulations to the following 13 hams...**

#### EXTRA CLASS

Bachman, Rex G            KF7BLL

#### GENERAL CLASS

Allen, Hugh R            KC7JYW  
Fowler, David J        KF7DEI  
Hooper, Dale            KE7HGZ  
Rostkowski, Charles A    KF7CFK  
Sharp, Michael L        KD7DJW

#### TECHNICIAN CLASS

Blycker, William L      KF7DEL  
Jacobs, Jerry R        KF7DEM  
Johnston, Russell      KF7DEP  
Paxman, Scott W        KF7DEO  
Sealy, Michael L        KF7DEJ  
Sealy, Tenille        KF7DEK  
Woolston, Jeffrey A     KF7DEN

# Results of the EmComm Northern Utah Hamfest VE Test Session

**Congratulations to the following 25 hams...**

## **EXTRA CLASS**

Dolato, David L	KE7ZLA
Ellers, Kenneth H	KF7BMZ
Koons, Ken G	KL2ME
Muffet, Jim	AD7ZV
Neville, Williams R	WA7KMF

## **GENERAL CLASS**

Allred, Michael B	KF7AME
Bachman, Rex G	KF7BLL
Hunt, Richard P	K7RPH

## **TECHNICIAN CLASS**

Boom, Charla R	KF7CEY
Boom, John W	KF7CEZ
Ellers, Ann Marie	KF7CJM
Fisher, Thomas J	KF7CFA
Gardiner, David J	KF7CFB
Huddleston, Chris A	KF7CFC
Jackson, Derek B	KF7CFD
Jensen, Jeffrey C	KF7CFE
Jensen, Jennifer A	K7CSU
Moore, Marvin C Jr	KF7CFG
Orantes, Juan	KF7CFH
Ormsby, Ida Rae	KF7CFI
Rostkowski, Charles A	KF7CFK
Roundy, Adam C	KF7CFJ
Watkins, Christopher C	W7BKX
Williams, Jefri A	KF7CFM
Zang, Clint J	KF7CFN

## OTHER BUSINESS

### OARC Little Mountain Repeater Site Status

OARC repeater engineer, Mike Fullmer KZ7O, reports that the Little Mountain repeater site has experienced a temporary malfunction and was off the air for a few days preceding 11 June 2009. Mike went onsite and found that the repeater's commercial dual band collinear antenna was lying in the ground at the base of the site tower. The outage affected both the 2 meter repeater and the 70 cm repeater.

With the creative use of duct tape and bailing wire, Mike has put the limping antenna temporarily back into service until a replacement antenna can be purchased and installed.

Thanks Mike for your dedicated service to our club and your efforts to keep our repeaters operational.

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# FROM THE PRESIDENTS SHACK

Kent Gardner WA7AHY

From the President's Shack  
June 2009

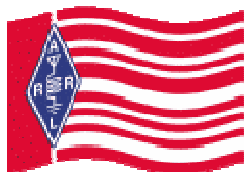
It's that time of year again. Yes, it is time to take my scouts to summer camp and "oh yes", FIELD DAY! My boys have seemed to want the first week in camp that corresponds with the last full weekend in June, making it impossible to be at field day to help setup and get things started. That is half the fun. Duty calls however; and I enjoy scouting too.

Speaking of summer camp, the last two years, I have used a long wire antenna with an antenna tuner while in the woods with my Ten Tec Argonaut QRP rig. Contacts seemed few and far between, so I am trying something new this year. After using Stan Sjol's (W0KP) neat yoyo dipole (see April 09 Newsletter) while on a trip to the Snake River near Buhl, Idaho in my travel trailer, I found that contacts were easier to come by. It was early in the season and the weather was cold and rainy...I guess it still is after all the rain we have been having....so I found it uncomfortable to get out of my warm trailer and reset the dipole lengths when I wanted to change bands. I made the decision then and there to make a five band dipole before I went to summer camp. I found an article on such an antenna at <http://www.hamuniverse.com/multidipole.html>. I hope now that I don't have to get out of my warm tent to change bands. I thought about using it at field day, but Stan has a wonderful array of excellent antennas for field day already to go, and besides, I wouldn't get my dipole there from camp until Saturday night.

I hope all of you will be ready to participate at field day this year on the 27<sup>th</sup> and 28th. Please take the opportunity to help setup Friday night the 26th or Saturday morning, eat dinner with the group Saturday afternoon, and operate for awhile Saturday and Sunday until noon. Don't forget, we can use some help in taking things down too. Come and stay the full tour with your trailers and/or camping gear or come and go as you need and have a great experience. See the website for details on the schedule and the map on how to get there. It is close in to civilization and there is a campfire ring that gives a warm glow to the evening. The radios are all solid state so the warm glow of tubes has given way to a cozy campfire.

TNX, Kent Gardner, WA7AHY

## NEWS ARTICLES



### Section News - Wed June 3, 2009

For the first time in at least fifteen years our division presented awards to deserving amateurs at the Rocky Mountain Division Convention held in Estes Park, Colorado. Two of our Utah Amateurs were recognized for their accomplishments in Amateur Radio. Darryl Hazelgren, K7UT, was awarded the Division Outstanding Ham of the Year and Clint Turner, KA7OEI, was recognized for the Division Technical Achievement Award. My congratulations to both of these very deserving individuals. It is a great honor for both of these amateurs and also that the division judges chose two individuals from our Utah Section for recognition. The Young Ham of the Year was Phillip Shaw, KE5LZX from Belen in the New Mexico Section. For detail on these awards go to [www.rockymountaindivision.org/awards.html](http://www.rockymountaindivision.org/awards.html)

The Division Convention at Estes Park Colorado was a great success and there were 499 attendees present. I would like to express my appreciation to the HamCon 2009 Colorado Committee for their efforts to put on a very wonderful event. If you were not able to attend this year mark your calendar now for the 2010 Rocky Mountain Division Convention which will be held May 29-31 in Casper, Wyoming. See [www.wyomingsection.org](http://www.wyomingsection.org) for more details.

I would like to thank all our section members who participated in the recent election for our Utah Section Manager Position. I consider it an honor to be reelected for another term as your Section Manager. As promised in my campaign I will continue to provide any service your club or group would like please don't hesitate to contact me with any questions, concerns, or needs you have about any aspect of amateur radio.

Field Day is 27 and 28 June this year. Please plan on participating with your local club. If you can't attend at your club field day site, plan on working from your QTH as a Class D or E Station for a few hours. All Field Day Stations will appreciate another contact for field day, for more info on the ARRL Field Day Rules please go to the ARRL Web site

<http://www.arrl.org/contests/rules/2009/fd.html> If you or your club would like to register your club's activities at the ARRL Field Day Site Locator go to this ARRL web site

<http://www.arrl.org/contests/announcements/fd/locator.php>

During the summer there are many neat public service events that you can participate with check with your local club for events in your area. Brett Neilsen, KC7IIB, has created a great web site that lists many of our Utah Public Service Events go to <http://www.arpse.org/> to see a list of events for the coming months. Also if you want to list your local public service events you can register with the site and add you events. If you have questions about this site contact Brett at [brett@brettneilson.com](mailto:brett@brettneilson.com)

Thanks for all the work you, our hams in the Utah Section, are doing to promote amateur Radio and please don't hesitate to contact me if you have any concerns or ideas that I can help you with.

73 Mel Parkes, NM7P Utah Section Manager

## SPECIAL ARTICLE

Last month Dave Harris K7PDW made an announcement at our meeting to recruit volunteers interested in participating in the 2009 Pony Express Re-Run. This month we were honored to have Gerald Hasty AD7QF present a power point presentation about this historical event. The pony will be coming through the SLC area this weekend June 14 and June 15. Additional information is available on the DCarc website. Visit [www.dcarc.net](http://www.dcarc.net) then click on the left side menu "Pony Express".



This year the Pony is carrying a GPS tracker such that you can watch the progress of the mail delivery live as it occurs. The ride takes 10 days and they ride 24/7, rain or shine. Each year it is timed around the full moon of June such as to provide the riders with the maximum moon light as possible. Visit the following website for details.

<http://www.xphomestation.com/2009-ride.html>

<http://ponyexpressnationaltracking.com/RiderTracking.html>

# FEATURE ARTICLE

## A Tale of Two Tubes ... By Dan Romnanchik, KB6NU

A couple of weeks ago, I worked N4QR on 40m CW. I could tell by the tone of his signal that he was operating a homebrew transmitter. There wasn't any 60 Hz on his signal, and it didn't chirp exactly, but I could tell it wasn't the pure tone you get out of today's radios.

I asked him about his rig, and he told me that it was a one-tube transmitter made with a 6L6. I forgot to ask him where he got the schematic, but a quick Internet search turned up the following:

- \* The May 2005 issue of the K9YA Telegraph (<http://www.k9ya.org>) has an article written by N4QR titled, "The Wonderful One-Tuber," that contains the schematic for the transmitter. The K9YA folks don't make issues of The Telegraph available on their website, but I was able to get a copy of the issue by e-mailing them.

- \* A 6L6 Classic (<http://www.io.com/~nielw/6l6/6L6.htm>)

- \* WB2MIC 6L6 Transmitter Project ([http://www.metaphoria.us/hamradio/6L6\\_transmitter\\_schematic.htm](http://www.metaphoria.us/hamradio/6L6_transmitter_schematic.htm))

The 6L6 is a pentode that, according to Wikipedia (<http://en.wikipedia.org/wiki/6L6>), was introduced by the Radio Corporation of America (RCA) in July 1936. Apparently, it was used quite a bit in public address systems.

After the tube became successful, tube manufacturers introduced a number of variations, including the venerable 807. The original 6L6 was capable of delivering 19 W; the latest variation, the 6L6GC is rated for 30 W. The 6L6GC is still used in guitar amps, and is still manufactured in Russia, China, and by Groove Tubes ([www.groovetubes.com](http://www.groovetubes.com)) in the U.S. They sell a number of different 6L6 variants; the cheapest is \$16, the most expensive \$180!!

### Tube #2

One of the reasons I was interested in the 6L6 is because about a year ago I came across a schematic for a transmitter using 6A6 dual triode. I had just come into possession of a couple hundred tubes, and while I didn't have a 6A6 (at least I haven't found one yet), I do have a couple of 6J6 dual triodes. They're not quite as high power as the 6A6, but I'm still thinking about building a little transmitter with one.

As you might expect, there's a bunch of information on the Internet about this tube:

- \* The Jones Push-Pull Transmitter ([http://wv7g.home.mindspring.com/jones\\_6j6.html](http://wv7g.home.mindspring.com/jones_6j6.html)) was built with a 6J6 instead of a 6A6.

- \* Another schematic can be found on the AK0B website (<http://www.qsl.net/ak0b/>).

- \* 6J6 data sheet (<http://www.gargnas.net:3000/tubedata/6J6.pdf>) from the GE data book.

One interesting fact about the 6J6 is that IBM used it in the 604 computer. Unfortunately, they found it to be not as reliable as they wanted it to be, but at first none of the tube manufacturers were interested in making a more robust version. This led IBM to set up a tube-making laboratory where they could experiment with designs. They developed a more reliable version of the 6J6 and finally convinced RCA to manufacture the tube. According to the author of the history of the 604 (<http://ed-thelen.org/comp-hist/IBM-604.html#new>), part of the concern is that IBM would decide to get into the tube business.

So, the next time you hear a signal that doesn't sound so perfect, remember that there just might be a story behind it. Ask the op about his transmitter, and listen to what he or she has to say.

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When not pondering the mysteries of vacuum tube part numbers, KB6NU teaches ham classes, works CW on the HF bands, and blogs about ham radio at <http://www.kb6nu.com>.

# ANNOUNCEMENTS

## Next Club Meeting:

**3rd Saturday June 20, 2009**

- The Ogden Amateur Radio Club meetings are usually held on the **3<sup>rd</sup> Saturday** of each month.
- **Time: 9:00 AM**
- **Location: Riverdale Fire Station**
- **Topic: Field Day: Past, Present and Future**
- **Talk-in: -146.90 (pl 123.0)**

Check OARC web site for details

[www.ogdenarc.org](http://www.ogdenarc.org)

- Please invite a friend to join you. You do not have to be a member of the club to participate in our club meetings or activities. We invite all to join us.
- If anyone is interested in doing a presentation on something or just have something unique to show at the meetings.
  - Please get a hold of any of the officers and let us know.

## Next Weber Co VE Test Session:

**1st Wednesday October 07, 2009**

- Exam sessions are held in Ogden every few months, *usually* the first Wednesday in February, June, and October.

**Time: 05:00 PM** *Walk-ins allowed*

**Location:**

**WEBER CENTER  
2380 Washington Blvd,  
Room # 112  
OGDEN, UT 84401**

**Contact: VE Liaison:**

**Mary Hazard** [w7ue@arrl.net](mailto:w7ue@arrl.net) (801-430-0306)

**Cost: \$ 14.00**

Two forms of **ID**, one of which must be a **picture ID**.

For "Upgrades" bring current **license** and a **copy** of current license, and any **CSCE's**

Most **calculators** allowed. Calculator memories must be cleared before use.

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## Club Web Site

Be sure to visit our club web site.

- [www.OgdenARC.org](http://www.OgdenARC.org)

Club membership is open to anyone interested in Amateur Radio. You do not need an amateur license to join us. Dues are used to operate the club, field day activities, and repeater equipment maintenance.

You do not need to join the club to participate with us.

## Club Call Sign

Listen to the club repeaters for this very familiar CW ID. You do know Morse Code don't you?

- **W7SU**

ARRL Field Day is held on the last full weekend of June every year.

Location may vary each year so watch this notice for details as time draws near.

See you there.

OARC REPEATERS			
FREQ	CLUB	STONE	LOCATION
146.820-	OARC	123.0	Mt Ogden
448.600-	OARC	123.0	Mt Ogden
146.900-	OARC "Talk-in"	123.0	Little Mtn (w/auto patch)
448.575-	OARC	100.0	Little Mtn (w/auto patch)

OTHER AREA REPEATERS			
FREQ	CLUB	STONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
147.120+	UARC	100.0	Farnsworth Pk
449.100-	UARC	146.2	Farnsworth Pk
449.500-	UARC	100.0	Farnsworth Pk
ATV	UARC	Ch-58	Farnsworth Pk
147.040+	DCARC	123.0	Antelope Isl
447.200-	DCARC	127.3	Antelope Isl
449.925-	DCARC	100.0	No Salt Lake
145.290-	UBET	123.0	Brigham City
145.430-	UBET	123.0	Thiokol
448.300-	UBET	123.0	Thiokol
146.640-	BARC	none	Logan
146.720-	BARC	103.5	Mt Logan
147.260+	BARC	103.5	Promontory Pt
449.625-	BARC	103.5	Mt Logan
145.250-	WSU	123.0	* coming soon
449.250-	WSU	123.0	* coming soon
145.490-	K7HEN	123.0	Promontory Pt
146.920-	N7TOP	123.0	Promontory Pt
449.775-	N7TOP	123.0	Promontory Pt
448.825-	IRLP/Echo	123.0	Clearfield City
449.950-	IRLP	123.0	Clearfield City
449.425-	IRLP	100.0	Nelson Peak
147.360+	Summit County	100.0	Lewis Peak

**AREA CLUB MEETINGS & WEB SITES**

<b>CLUB</b>	<b>WEB SITE</b>	<b>DATE/TIME</b>	<b>LOCATION</b>
<b>Ogden ARC</b>	<a href="http://ogdenarc.org">ogdenarc.org</a>	<b>3<sup>rd</sup> Saturday 09:00 am</b>	<b>Check OARC web site ...</b>
<b>WC ARES</b>	<a href="http://ogdenarc.org/join.html#ares">ogdenarc.org/join.html#ares</a>	<b>2<sup>nd</sup> Thursday 06:30 pm</b>	<b>Weber Co. Library Ogden Utah</b>
<b>WC Sheriff Comm-O</b>		<b>1<sup>st</sup> Saturday 09:00 am</b>	<b>Weber Co. Sheriff Complex West 12<sup>th</sup> Street Ogden Utah</b>
<b>Barc</b>	<a href="http://barconline.org">barconline.org</a>	<b>2<sup>nd</sup> Saturday 10:00 am</b>	<b>Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut</b>
<b>CSERG</b>	<a href="http://dcarc.net/ares.htm/">dcarc.net /ares.htm/</a>	<b>Last Wednesday 8:30pm</b>	<b>Clearfield City Hall Clearfield Utah</b>
<b>Dcarc</b>	<a href="http://dcarc.net">dcarc.net</a>	<b>2<sup>nd</sup> Saturday 10:00 am</b>	<b>Davis Co. Sheriff Complex Farmington Utah</b>
<b>NU Ares</b>	<a href="http://home.comcast.net/~noutares/">home.comcast.net/~noutares/</a>	<b>3<sup>rd</sup> Wednesday 7:00 pm</b>	<b>Cache Co. Sheriff Office Logan Utah</b>
<b>Uarc</b>	<a href="http://xmission.com/~uarc/">xmission.com /~uarc/</a>	<b>1<sup>st</sup> Thursday 7:30 pm</b>	<b>UofU EMC Bldg Room 101 Salt Lake City Utah</b>
<b>Ubet</b>	<a href="http://27meg.com/~k7ub/">27meg.com /~k7ub/</a>	<b>4th Thursday 6:30 pm</b>	<b>BE-Thiokol: 24 East 100 South Brigham City Utah</b>
<b>Utah DX Association</b>	<a href="http://udxa.org">udxa.org</a>	<b>3<sup>rd</sup> Wednesday check web page for details</b>	<b>check web page for details Salt Lake City area</b>
<b>UvhfS</b>	<a href="http://ussc.com/~uvhfs/">ussc.com /~uvhfs/</a>	<b>Each Tuesday 8:00 pm (refer to web site)</b>	<b>Weekly 2 meter net (no eye ball meetings)</b>
<b>WD Arc</b>	<a href="http://westdesertarc.org/">westdesertarc.org/</a>	<b>1<sup>st</sup> Tuesday 7:00 pm</b>	<b>Tooele County Courthouse Tooele Utah</b>
<b>WsuArc</b>	<a href="http://arcweber.edu">arcweber.edu</a>	<b>3<sup>rd</sup> Thursday 5:30 pm</b>	<b>WSU Blding #4 Room ? Ogden Utah</b>

LOCAL AREA NETS		
DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz <b>HF LSB</b>
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz <b>HF CW</b>
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz <b>HF LSB</b>
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz <b>HF LSB</b>
Sunday @ 7:30 PM	UBET ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.060 = simplex
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz <b>2-meter USB</b>
<b>Tuesday @ 8:00 PM</b>	<b>Weber ARES</b>	<b>448.600 - 123.0</b>
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 8:00 PM	UBET ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSEARG	145.770 simplex
Wednesday @ 9:00 PM	No Utah 10m HF net	28.313 Mhz <b>HF USB</b>
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz <b>6-meter USB</b>
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 <b>New Hams</b>
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0 3 <sup>rd</sup> Thursday - even months only
Thursday @ 8:30 PM	Davis ARES	147.420 = simplex
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
Saturday @ 8:00AM mst	RACES State HF	3.920 Mhz <b>HF LSB</b> 3 <sup>rd</sup> Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz <b>HF LSB</b>

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**73 es cul de W7SU**

[www.OgdenArc.org](http://www.OgdenArc.org)

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