



The Wave Bender

JULY 2012



PRESIDENT'S QST



WRARC is moving in a positive direction. We are up to 53 members. Another Field Day is over. It looks like we did well in spite of the bad band conditions on Saturday. We had a great turnout of members and guests. Testing went well with one new ham, Jen Dickey, KD8STI who worked with Chris, KD8ELY and got a bunch of third party contacts.

The Saturday dinner was great with lots of good food and fellowship. We gave an honorary membership to Mike, KC8WUX. He is the blind ham that we are working to get a radio for.

Coming up is our big event of the year, the Tour Of The Valley (TOTV,) July 14. We need to have as many operators as we can get. Please come out and help.

Don't forget that July is our annual picnic at the Western Reserve United Methodist *Continued page 2*

MIKE IS NOW A MEMBER



Field Day, Saturday afternoon, while all were present, Mike Austin became our first Honorary Member! He enjoyed himself at the various stations through out our site. And I believe he was able to make some contacts. What a wonderful time we all

had at Field Day this year. **Welcome aboard Mike!**

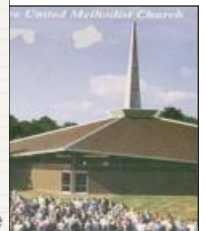
WE WERE 7A OH

Thanks to our Field Day Captains - Steve and Roy; Maureen and Sue who coordinated the Food, all of which was wonderful; Robert and John who worked so hard to get us noticed; AB8AA our VE coordinator and his team; Ted for seeing that Mike made Field Day; and to all the members who came

out and supported this wonderful weekend, we all had FUN and made contacts!

A special acknowledgment to Mike KC8UNR - who was there, but,

Continued page 5



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Officer's Meeting: July 15, 7:00P.M. At the Avnet's, 2050 E. South Range Rd. New Springfield (330-549-3051)

Regular Meeting: July 17, 6:00 P.M. Western Reserve United Methodist Church

Program: Annual Picnic - T-hunt & Ham Radio Jeopardy

2012 Officers:

President: Al Avnet, AB8AA ab8aa@arrl.net

VP: Robert Webster, KD8OXJ rswebster@mail.com

Secretary: Jane Avnet, K8JAA k8jaa@arrl.net

Treasurer: Maureen Stein, KD8NXS

mfstein@zoominternet.net

Trustees: Ted Filmer, KD8IJE efilmer@aol.com

Steve Fabry, KC8SOY kc8soy@yahoo.com

Roy Haren, KD8IJF harens@juno.com

Social: Maureen Stein, KD8NXS

mfstein@zoominternet.net

Publicity: Robert Webster, KD8OXJ

rswebster@mail.com

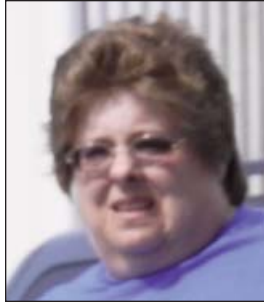
Badges:: John Fabry, KC8SPF

jonnyjukebox@sbcglobal.net

SUMMERTIME FUN

It's hard to believe that Field Day has already come and gone. Time goes by so fast. I think everyone had a good time and we certainly ate well (once again!). We have lots of good cooks in our group.

I just want to give a big "thank you" to everyone for their generosity in the 50/50 raffle and the donation jar for the Michael Austin fund.



Also a big "thank you" goes to Steve and Sue for cooking hamburgers and hot dogs throughout the day for attendees to have to make their donations for. They made nice lunches or snacks during the day. Kudos for cooking all day in the hot sun. It was all greatly appreciated.

Between the 50/50 and the donation jar we were able to add \$158.00 to Mike's fund. Even better, this was enough to push us just past the half way point to our goal. We now have \$1500.28 in the account. Very awesome, and again, a big thanks to all.

Next month on our regular meeting night, Tuesday., July 17, we have our annual picnic in lieu of our regular meeting at Davidson's. The picnic will begin at our regular dinner time of 6:00 P.M. and it is held at Western Reserve United Methodist Church, also located on Canfield Rd.


We have lots of sign-ups already for a variety of good food. If anyone would still like to sign up, you can do so to me by phone at 330-757-4963. If you get the voice mail, just leave me a message with your name, call sign, food item, and a phone number where I can reach you if I need to contact you. Also, don't forget your hand helds for the t-hunt and be sure to get ready for Ham Radio Jeopardy. I'm sure we will all have a good time once again. Let's stay hopeful for good weather and that it will not be so hot! See you all on the 17th.

73 to all Maureen KD8NXS

**TECHNICIAN CLASS STARTING
SEPTEMBER 19
@ ITT, 7:00P.M.**

**GENERAL CLASS STARTING
NOVEMBER 7
@ ITT, 7:00P.M.**

CONTACT AL, AB8AA@ARRL.NET



PRESIDENT - CONTINUED FROM PAGE 1

Church on Canfield Rd. (RT 62). Please contact Maureen, KD8NXS and let her know what you will bring. We will have a "T" hunt and a game of Ham Jeopardy, as well as good food.

Up coming events will be the classes, Technician in September; EC-001 in October and General in November. Anyone that wants to take the EC-001 class must have the FEMA IS-100b and IS700 before you take the class. These are free on the FEMA site. You need to get the text book and sign up before the first of September. I can get the books at a reduced rate if I buy them in bulk.

We are also planning to start a bi-monthly digital net and bi-monthly communications training net. Anyone wishing to join the "Communication's Unit" please contact me.

I hope to see everyone at the picnic. Check into the nets on Fridays "The important thing is to never stop questioning"

73 Allan, AB8AA

**Amateur Radio is a Hobby, Emergency
Communications is a Commitment!**

THE ELMER IN ALL OF US



Field Day has come and gone. As the annual opportunity to try and test ourselves, and our "outdoor" capabilities, it presents us with a number of other scenarios to do different things. The unexpected scenario I witnessed multiple times at our Field Day site this year was the act of "Elmering". At this point you may ask if I spent too much time in the sun that weekend and invented a new word. It wasn't my imagination. There was a lot of "Elmering" going on.

Running the Get On The Air (GOTA) station with Dennis, KD8SNA, one of our newest hams who has an HF radio like mine, taught me things I hadn't even taken the opportunity to investigate. Close to me there were other hams, that haven't been in our ranks that long, offering their learning to those who were even newer hams or just becoming interested in what we do. At that point it came to me, the act of being an Elmer doesn't require many years of being licensed, it only requires our willingness to bring what we know to those who may want or need it.

Certainly the Elder Elmers in our midst are to be respected for the volumes of knowledge and experience they have accumulated. Over the years they have learned from burnt fingers during soldering, tubes or transistors expiring on the spot, troublesome shorts that eluded them for days, and the erratic behavior of all things electronic. *Continued page 6*

JUNE TESTING



We had two Test Sessions last month, our regular one on June 20, and one on June 23 at Field Day. We had a nice turn out for both.

We had three paper upgrades to General. Those folks were: Myrtle Slough, N8BDS; Peter Suszcsynski, KA8HWY; and Grant Deen, KD8PUD. In order to be eligible to do a paper upgrade, you had to be a licensed Tech prior to 1987. Wes has spent tons of time tracking these folks down. Thanks to Wes for spending your time on this worthwhile project!

Our two test sessions yielded three new Techs Cory Beight KD8STJ, Dahiel Shanafelt KD8STK, Jenna Dickey KD8STI, and Dennis Marko KD8SNA, who upgraded to General. Congratulations to you all!

Thanks to our VE team for June; Contact VE AI, AB8AA; Sam, W8SDD; Dave, KC8WY; Jim, KB8QDZ; Roy, KA8IJF; Wes, W8IZC; Jane, K8JAA.

PUBLIC SERVICE EVENTS

. . . Are you volunteering for public service events? If so, please accept my many thanks. Your time and effort is greatly appreciated. If not, then I ask why not? Public service events are great opportunities to practice your skills, put your equipment to good use, and most of all have some fun. In most cases, we are the "eyes & ears" of the event. If a marathon runner gets hurt or someone needs bicycle repair, we have the ability and capability to report information faster than 4G. So if you have some time, get out there and volunteer. Even if you can't stay for the whole event, any time volunteering is better than no time. . .

73, Matt Welch - W8DEC
Ohio Section Emergency Coordinator
w8dec@arrl.net

WRARC 10-mtr Rag-Chew Net
Friday Nites 8:30P.M.
28.410+/-

Join us for the WRARC
Friday night Net
9:00 P.M. on 145.270, PL -110.9
This is a directed net, with all
interested members taking a turn
at Net Control
Contact Steve, KC8SOY
to take your turn
330-774-6346

- Jul. 6 Maureen, KD8NXS
- Jul. 13 Mike KC8WUX
- Jul. 20 Dave, KC8WY
- Jul. 27 Robert, KD8OXJ
- Aug. 3 Ted, KD8IJE
- Aug 10 AI, AB8AA

"NEW" Ask The Elmer Net
Right after the Friday Night Net
KC8SOY Moderator

W8SGT is facilitating an HF net
every Tuesday - 1800 (6:00 PM)
The net is run from the
State of Ohio EOC on the
Ohio ARES Admin
frequency 3875 KHz LSB.
All are welcome to check in.

COLUMBIANA COUNTY DIGITAL NET
8:30 pm - 9:30 pm
145.510 MHZ SIMPLEX Wednesdays
First Wednesday of the Month
Mahoning County
ARES/RACES/Skywarn Training Net
is held on the W8QLY repeater
146.745 (-) at 8:30P.M.





July 14
Have you
Volunteered?
330-459-3051

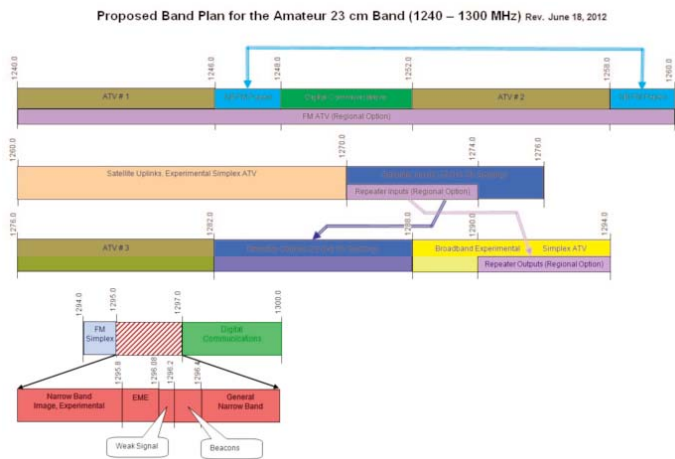
There is a sense in which 2012 is the 100th anniversary of amateur radio. Although amateurs built and operated before 1912, the first Federal Radio Act that set aside spectrum for amateur radio was implemented in 1912.

CONTACT WRARC ELMERS WITH YOUR QUESTIONS - QUESTIONS@WRARC.NET



- | | | |
|------------------------|---|--------------------------|
| Avnet, Allan AB8AA | Antennas, radio setup, mobile, grounding, classes, anything | ab8aa@arrl.net |
| Beatty, Dave KC8WY | anything | kc8wy@zoominternet.net |
| Fabry, Steve KC8SOY | Yaesu FT8900, FT8800, Mobile | kc8soy@yahoo.com |
| Haren, Roy KD8IJF | ??? | harens@juno.com |
| Webster, Robert KD8OXJ | erecting antennas | rswbster@mail.com |
| Williams, Russ KD8LDY | Electrician, tele-data, Amateur Extra | russellwhoknew69@aol.com |

**ARRL UHF/MICROWAVE BAND PLAN COMMITTEE
SEEKS COMMENTS ON PROPOSED 23CM BAND PLAN**



06/18/2012

Last winter, the ARRL UHF/Microwave Band Plan Committee asked the Amateur Radio community about current, planned and projected uses of the Amateur bands between 902 MHz and 3.5 GHz. The excellent level of response provided us with the basis to complete drafts of the 9 cm, 13 cm and 33 cm revised band plans for ARRL Board approval. The Committee has now prepared for your consideration a draft band plan for 23 cm (1240-1300 MHz), the final band on its assigned list. Please look over the accompanying draft and let us know if you have any major concerns.

As a reminder, the purpose of these band plans is to share information about how our bands are being used and to suggest compatible frequency ranges for various types of application. We recognize that local conditions or needs may necessitate deviations from a band plan, and regional frequency coordinating bodies may recommend alternatives for use in their respective regions.

**Rick Roderick K5UR, Chair
ARRL UHF/Microwave Band Plan Committee**

WEAVER'S WORDS

"The ARRL Board of Directors has unanimously voted to approve the 9 cm band plan, as presented by the ARRL UHF/Microwave Band Plan Committee. Earlier this year, the committee asked radio amateurs for comments on a proposed 9 cm band plan, explaining that the purpose of these band plans is to share information about how the amateur bands are being used and to suggest compatible frequency ranges for various types of application. The committee also recognized that local conditions or needs may necessitate deviations from a band plan, and that regional frequency coordinating bodies may recommend alternatives for use in their respective regions.

"The new 9 cm band plan includes the follow-

ing notations:

"* This band plan includes all other emission modes authorized in the 9cm amateur band whose necessary bandwidth does not exceed the suggested bandwidths listed.

"* Weak Signal Terrestrial legacy users are encouraged to move to 3400.3-3401.0 MHz, as time and resources permit.

"* Broadband segments may be used for any combination of high-speed data (e.g. 802.11 protocols), Amateur Television and other high-bandwidth activities. Division into channels and/or separation of uses within these segments may be done regionally, based on need and usage.

"* Per ITU RR 5.149 from WRC-07, these band segments are also used for Radio Astronomy. Amateur use of these frequencies should be first coordinated with the National Science Foundation."

Ohio QSO Party August 25

From the Ohio QSO Party Web Site: "The Ohio QSO Party occurs on the fourth Saturday of August. The contest period extends from 1200 EDT [noon] to 2400 EDT [midnight] (1600Z Saturday until 0400Z Sunday). All stations may operate the full twelve hours. The 2012 contest is on August 25th."

"Bands & Modes: CW and SSB on 80, 40, 20, 15, and 10 meters. Stations may be worked once per mode on each band; i.e. K8MAD may be worked on both 40 CW and 40 SSB for point credit. Each station may be contacted 10 times (once per each of the 5 bands and once per mode on each band)."

Listen around: 80M CW: 3.545 - SSB: 3.825;
40M CW: 7.045 - SSB: 7.200;
20M CW: 14.045 - SSB: 14.250; 15M CW: 21.045 - SSB: 21.300; 10M CW: 28.045 - SSB: 28.450.

Tech Licensees can Talk to the World

Chuck, AA8VS wrote saying, ". . . many Techs do not realize they have Novice privileges on HF . . ." Of course, he is correct. While it takes a modest amount of time and effort to learn the information needed to pass the General Class exam, upgrading is not all that difficult. The pay-off in operating flexibility is more than worth the time and effort required to get the higher class license. Upgrading truly opens a great new operating world.

Tech licensees also can, if they wish, learn enough Morse code to "get by," and operate on Novice bands that very often provide communications worldwide -- regularly throughout the Western Hemisphere.

The bands that offer long distance communications and that are open to Techs using Morse code are 80 meters (3,525-3,600 kHz), 40 meters (7,025-7,125 kHz), 15 meters (21,025-21,200 kHz) *Continued page 5*



7A OH - FROM PAGE 1
 didn't make any of the photos! Where Were You?




July 14
Have you
Volunteered?
330-459-3051

<http://www.youtube.com/watch?v=qztZu1IQN58&feature=youtu.be> Video about FD in British Columbia. Excellently done I might add. Probably the best informative video I have seen in a long time.

WEAVER'S WORDS - CONTINUED FROM PAGE 4

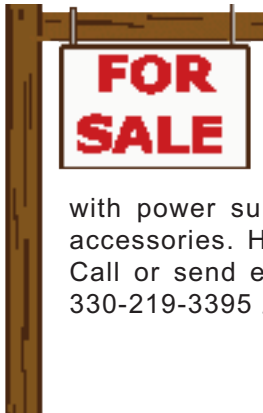
kHz) and 10 meters. Technicians may operate Morse Code from 28,000-28,500 kHz and SSB phone on 28,300-28,500 kHz. All that is needed to make these contacts is a very modest transceiver (or transmitter and receiver) and a simple wire antenna. Beam antennas are particularly helpful on 15M and 10M.

As scores of former no-code licensees will attest, most people have found learning Morse to the very basic level of proficiency is not particularly difficult. All it takes is a little perseverance and enough confidence to make the first few QSOs. Children under 10 years old and oldsters as young in their 90s have learned the code.

If one is looking for challenges beyond VHF/UHF operations, it just might be worth a little effort to become able to enjoy the low bands.

For information about learning Morse code, see: www.arrl.org/learning-morse-code. There are online programs for learning Morse. Search for Morse Code. Some of these are free, others have a cost associated with them.

TODAY IS THE OLDEST YOU'VE EVER BEEN, YET THE YOUNGEST YOU'LL EVER BE, SO ENJOY THIS DAY WHILE IT LASTS.




FOR SALE

I have a Drake TR4-CW for sale, this is a 300 watt, good condition, from SK - it comes with power supply, low pass filter, and other accessories. Has NO microphone or CW key, Call or send email- thanks 73 mike KC8UNR 330-219-3395 / mikemedic130@aol.com

EC001 CLASS STARTING OCTOBER 6 @ ITT, 9:00 A.M.

PREREQUISITE:
FEMA CLASSES IS-100.B & IS-700

PRE-REGISTRATION A MUST!
CONTACT AL, AB8AA@ARRL.NET



Ellis Island was only about 3 acres when it was purchased from Samuel Ellis, but it was expanded to 27 acres by using dirt dug from the New York's subway system tunnels.

Articles from members for the Wave Bender are encouraged. They must be received by the editor three days before the end of the month. Please send your articles to: k8jaa@arrl.net, and put WRARC on the subject line of your email. You may also send your articles to the editor at:
 Jane Avnet
 2050 E. South Range Rd.
 New Springfield, OH 44443

ELMERING - CONTINUED FROM PAGE 2

More than that, the Elmers, elder or otherwise, near and far who have helped me were all very willing to take the few minutes or hours to give me the one-on-one mentoring that sticks with a glue that is better than any manual many times over.

We can learn from courses, books, and magazine articles. But the opportunity to pass along something we know, in a personal way, makes our hobby and service stronger and more viable. Being an Elmer is an opportunity to put a human face on our technology-based hobby...and we all in some form or another can do it.

Much like the oral traditions of cultures that have come and gone, the "tricks" that we have learned that never make the printed page leave an imprint when we make them available to someone looking for that bit of knowledge.

During Field Day I learned what PVC masts would and wouldn't do, that solar cells are cool and really work, and that good propagation on the 20-meter band can be as illusive as a ghost. Most of all I learned we have a base of folks in the hobby, regardless of experience level, that are freely willing to give as much as they have been given. Elmering is one building block that will help build a sound foundation for the future for amateur radio. There is an Elmer in all of us.

-73- Robert (KD8OXJ)

FCC EXPANDS PART 95 MEDRADIO RULES TO ALLOW DEVICES IN 2360-2400 MHz BAND



QST de W1AW
ARRL Bulletin 13 ARLB013
From ARRL Headquarters
Newington CT May 31, 2012
To all radio amateurs

In a First Report and Order and a Further Notice of Proposed Rulemaking (ET 08-59) released on May 24, the FCC decided to expand the Part 95 Personal Radio Service rules to allow medical devices to operate on a secondary basis in the 2360-2400 MHz band.

These devices -- called Medical Body Area Networks (MBAN) -- provide a way for health care facilities to monitor their patients via wireless networks. Because use of these frequencies will be on a secondary basis, MBAN stations will not be allowed to cause interference to -- and must accept interference from -- primary services, including radio amateurs who operate on a primary basis in the 2390-2395 MHz and 2395-2400 MHz bands.

ET 08-59 can be found on the web at,

<http://www.fcc.gov/document/medical-body-area-networks-first-report-and-order>.

In July 2006, the FCC released a Notice of Proposed Rulemaking and Notice of Inquiry and Order (NOI), regarding the use of the radio spectrum for advanced medical technologies. In December 2007, GE Healthcare filed ex parte comments in response, proposing that the band 2360-2400 MHz be allocated on a secondary basis for "Body Sensor Networks" (BSNs). In April 2008, the FCC put the proposal on Public Notice; the ARRL submitted comments, pointing out the potential incompatibility with amateur operations. Nevertheless, in June 2009, the FCC released a Notice of Proposed Rulemaking that also requested comments on possible alternatives, including 2300-2305 MHz. The ARRL followed up in October 2009 with additional comments.

"Even though the Amateur Radio Service retains its primary status at 2390-2400 MHz, it remains to be seen how the addition of a new secondary service in the band will work out in practice," noted ARRL Chief Executive Officer David Sumner, K1ZZ. "In the past, the FCC has declined the ARRL's request to raise the status of the Amateur Service at 2300-2305 MHz to primary, even though there is no other service to which this segment of the band is allocated. This is now the only portion of the 2300-2450 MHz band -- which at one time was available in its entirety to amateurs -- that is not encumbered by other spectrum occupants. We hope that in the future, the FCC will be receptive to making the Amateur Service primary in this narrow segment, in recognition of the reduced utility of the remainder of the band."

In making the decision to allow these devices in the 2360-2400 MHz band, the FCC noted that the costs of permitting MBAN operation "are limited to the risk of increased interference, which we minimize by adopting rules to protect other licensed operations in these bands. We find that the risk of increased interference is minimal and is greatly outweighed by the benefits of the MBAN rules we adopt today."

Sumner observed that with this decision, "the Commission has effectively taken 2360-2400 MHz off the table for consideration for commercial wireless broadband."



Our Field Day info Station

STRESS

A young lady confidently walked around the room while explaining stress management to an audience with a raised glass of water. Everyone knew she was going to ask the ultimate question, 'half empty or half full?'... She fooled them all "How heavy is this glass of water?" she inquired with a smile. Answers called out ranged from 8 oz. to 20 oz. She replied, "The absolute weight doesn't matter. It depends on how long I hold it. If I hold it for a minute, that's not a problem. If I hold it for an hour, I will have an ache in my right arm. If I hold it for a day, you will have to call an ambulance. In each case it's the same weight, but the longer I hold it, the heavier it becomes." She continued, "And that's the way it is with stress. If we carry our burdens all the time, sooner or later, as the burden becomes increasingly heavy, we won't be able to carry on." "As with the glass of water, you have to put it down for a while and rest before holding it again. When we're refreshed, we can carry on with the burden - holding stress longer and better each time practiced. So, as early in the evening as you can, put all your burdens down. Don't carry them through the evening and into the night... Pick them up tomorrow.

- 1 * Accept the fact that some days you're the Pigeon, and some days you're the statue!
- 2 * Always keep your words soft and sweet, just in case you have to eat them.
- 3 * Always read stuff that will make you look good if you die in the middle of it.
- 4 * Drive carefully... It's not only cars that can be recalled by their Maker..
- 5 * If you can't be kind, at least have the decency to be vague.
- 6 * If you lend someone \$20 and never see that person again, it was probably worth it.
- 7 * It may be that your sole purpose in life is simply to serve as a warning to others.
- 8 * Never buy a car you can't push.
- 9 * Never put both feet in your mouth at the same time, because then you won't have a leg to stand on.
- 10 * Nobody cares if you can't dance well. Just get up and dance.
- 11 * Since it's the early worm that gets eaten by the bird, sleep late.
- 12 * The second mouse gets the cheese.
- 13 * When everything's coming your way, you're in the wrong lane.
- 14 * Birthdays are good for you. The more you have,

the longer you live.

- 16 * Some mistakes are too much fun to make only once.
- 17 * We could learn a lot from crayons. Some are sharp, some are pretty, and some are dull. Some have weird names and all are different colors, but they all have to live in the same box.
- 18 * A truly happy person is one who can enjoy the scenery on a detour.
- 19 * Have an awesome day and know that someone has thought about you today.

AND MOST IMPORTANTLY

20 * Save the earth.... It is the only planet with chocolate!*



July 2012

National Baked Bean Month



<p>1</p> <p>Other members have birthdays in July, but are too shy to tell me what day - Happy Birthday anyway!</p>	<p>2</p>	<p>3</p> 	 <p>ARES Net 8:30 P.M. 146.745</p>	<p>5</p>	<p>6</p> <p>WRARC Net 9:00PM 145.270</p>	<p>7</p> <p>Happy Birthday  KC8YLV</p>
<p>8</p>	<p>9</p>	<p>10</p> <p>Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>11</p>	<p>12</p>	<p>13</p> <p>WRARC Net 9:00PM 145.270</p>	
<p>15</p> <p>WRARC Board Meeting 7:00P.M</p>	<p>16</p>	<p>17</p> <p>WRARC Picnic 6:00P.M</p>	<p>18</p>	<p>19</p>	<p>20</p> <p>WRARC Net 9:00PM 145.270</p>	<p>21</p>
<p>22</p>	<p>23</p>	<p>24</p> <p>Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>25</p>	<p>26</p>	<p>27</p> <p>WRARC Net 9:00PM 145.270</p>	<p>28</p>
<p>29</p>  <p>WaveBender Articles Due</p>	<p>30</p>	<p>31</p>	<p>8/1</p>	<p>8/2</p>	<p>8/3</p> <p>WRARC Net 9:00PM 145.270</p>	<p>8/4</p> <p>Happy Birthday  KD8OKK</p>