



# January 29th Edition



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## ***Fox-1D (AO-92) Now Commissioned, Open for Amateur Use***

*(from arrl bulletins)*

AMSAT Vice President-Operations Drew Glasbrenner, KO4MA, has declared that [Fox-1D](#) (AO-92) is now open for general Amateur Radio use. That word followed an announcement from AMSAT Vice President-Engineering Jerry Buxton, NOJY, that AO-92 had been commissioned and formally turned over to AMSAT Operations.

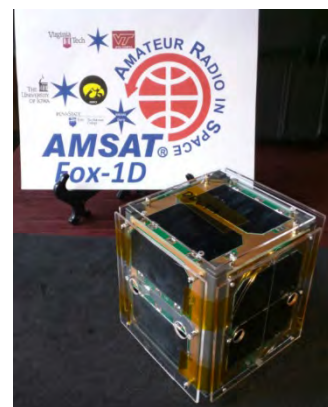
Initially, the U/v FM transponder will be open continuously for 1 week. After that, operation will be shared among the U/v FM transponder, L-Band Downshifter, Virginia Tech Camera, and the University of Iowa's High Energy Radiation CubeSat Instrument (HERCI).

AMSAT News Service, AMSAT-BB, AMSAT's Twitter account (@AMSAT), the AMSAT-NA Facebook group, and the [AMSAT website](#) will report any updates.

AO-92 was launched from India on January 12. For the past 2 weeks, the AMSAT Engineering and Operations teams have been testing the various modes and experiments on board. Testing has shown that both the U/v FM transponder and L-Band Downshifter are working well. The Virginia Tech camera [has returned photos](#) of Earth and data from HERCI has been successfully downlinked.

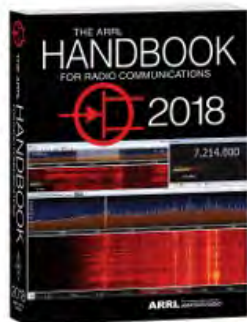
AMSAT thanked the 178 stations around the world that used FoxTelem to collect telemetry and experiment data from AO-92 during the commissioning process. — Thanks to AMSAT News Service

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## ***The Handbook Give Away***



Hey Gang,

Have you registered for the "Handbook Giveaway" drawing for this month yet? If you haven't yet, you only have a couple of days to go before the drawing is over. Then, you'll have to wait until next months drawing begins.. Don't let that happen to you, go to: <http://arrl-ohio.org/handbook.html> and get registered NOW!!

What's the catch? I want to get everyone checking in to the Ohio Section website as often as possible, and in order to register each month, you have to visit the website often!

There's nothing else to it. I pay all expenses, and from time to time, I Give Away more than just a Handbook. And, you'll never know just what months will be those special times that I will have more than just a Handbook to Give Away!!

Many of you ask me just how do I know when the drawing is on? Well, that's easy all you need to do is check in on the Ohio Section Website on a regular basis and watch for the big **RED** Arrow that will appear on the left side of the page. This is the sign that the drawing is on and you need to get registered. So, keep a sharp eye out on the website and check in often!

<http://arrl-ohio.org>



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## *Electrical Teaser*

### *What is the difference between phase voltage and line voltage?*

Can you answer this question? Think about it for a while. I know that some of you are looking at this and saying... “What the heck??” But, it is something that we are all exposed to everyday.

If you can't figure it out, or you just want to see if your answer is the same as mine. Here's a link to be answer. [ANSWER](#) Oh, if you don't want to jump down to it, you'll find it on the last page

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## *One Question Questionnaire*

Hey Gang...

There's another NEW – one question – questionnaire on the Ohio Section Website! <http://arrloho.org> I noticed that that around 62% of you are like me, you'd rather send and receive a card then mess around with LoTW or one of the new electronic methods. Personally, I just like getting the cards that I can hang on my brag wall! It's all in fun and we are learning some things that we didn't know from these questions. I hope that you are enjoying answering these “ONE QUESTION” questionnaires.



Now, here's the next question for you.. **“Have you tried the new FT8 digital mode yet?”**

The survey will only take 2 seconds for you to answer it, and you can see how your answer stacks up with others instantly. If you haven't done it yet, please do. I really want to hear from you. Hey... If you've got a question that you'd like to see on our questionnaire, please send it to me!

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## *Makers Night*

*(from the Monday Morning Memo)*



Those of you interested in the Makers craze taking the country may find it interesting to learn the Lancaster Fairfield County ARC is capitalizing on it. They will hold a **Makers Night on Tuesday, January 30th at the Red Cross Building, 121 West Mulberry Street in Lancaster.** Those interested in working on and learning more about ham kits, Arduino, Raspberry Pi or any other construction project may find this an interesting place to visit for a couple hours.

All Things Must End — After four plus years of uninterrupted Monday Morning Memos it appears there will be a break in the coming weeks. Should the stars and planets align themselves, it may mean only a one-week miss-January 29.

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# OHIO DMR NET REPORT

## January 24 DMR Net

District 1 – 7	District 5 – 6	District 9 – 6	QNI: 90
District 2 – 2	<b>District 6 – 15</b>	District 10 – 3	Time: 43 minutes
District 3 – 13	District 7 – 12		
District 4 – 7	District 8 – 6	Outside of Ohio – 10	NCS: W8BLJ

It seems that **District 6** - won the Gold Star for the night with 15 check-ins. Congrats District 6! There was one net announcement for the net given after all the check-ins were established.

Interested in being a net control for this net? Contact Duane, K8MDA at: [k8mda@arrl.net](mailto:k8mda@arrl.net) It's really easy to do and if you're checking in to the net on a regular basis anyway, you're already there! Please, we need volunteers from all over Ohio to do this net. It is important, and I will guarantee this, it's really FUN!!

The reason for conducting this net every week and having you actually check "IN" is to make sure that all of our connections to the now ever-growing and changing list of repeaters throughout the state are working as we want them to. I know from listening and checking in on other nets around the country that they do it differently. I'm not saying that they are doing anything wrong, they aren't. I just want you to know why we (Ohio Section) have chosen to do it the way WE do.



It was felt from the onset that it is important to "TEST" not only your ability to remember that there is a net at 8:30pm every Wednesday night, but more importantly, to "TEST" the physical connections to the repeaters and servers throughout the state and country each week, not to mention the ever-changing and new Code Plugs that are out there. Over this past year or so we've seen a number of issues with the servers acting up, folks forgetting to input their DMR-MARCS ID into their radios, having the wrong Time Slot programmed, batteries dead or dying and so forth. We've also experienced where a repeater connection to the internet has failed for Net Control, not once, but a number of times while the net is in full swing. I know that a lot of you are also experimenting with your Code Plugs (and you should be) and need a way to confirm that you have them built right so that you have a solid connection into the network system.

We need to learn how to overcome issues that crop up quickly, and as seamlessly as possible so that when the time comes that we need to use this system for an emergency, we are fully prepared for whatever might happen.

Oh, I will insert this here as well. DMR is **NOT** the only mode we will use! Please, don't mis-interpret this, as that we **WILL** use any mode and frequency that is necessary when the time comes to get the job done! That, I promise you. We are emphasizing DMR only because it is one of the newest modes, and we need to get a better understanding of its full capabilities. Now, don't think that the other older modes aren't being used and tested as well. They are, just ask Eldon, W5UHQ about his weekly OHDEN net, or Mike, KC8WH about the 3 per day OSSBN nets, and that's just the statewide ones that I can quickly think of. Ohio has lots of local and regional nets going on every day as well. Trust me when I say that the Ohio Section is prepared. We practice every day, and that's what makes our Section one of the strongest in the nation!

When the Net Control isn't being heard, someone needs to step in and take over. That's another reason for having the net the way we do. Practice is a very important part of ANY net operations. If we were to just check in on the net via Facebook for example, what have we tested? Do we even know that the connection that we normally use to get into the network is actually working? I'll leave it to you to decide.

Now, I also want to say that this isn't just a "GUY" thing either. We do have one YL on-board doing Net Control, how's about getting some other YL's to volunteer too. Ladies, you are now being challenged to help out. What say you, are you up to the challenge?

What's required to do Net Control? Well, we do want you to have a solid connection into a repeater or server. That holds true for any Net Control Station. They need to be heard by all, and not just locally. Remember, this is a statewide net. It is also a big advantage if you are able to monitor the network, (through K4USD or Hoseline for an example) this is for your benefit to make sure you are hearing all the check-ins and most importantly, that you are being heard!

This is not mandatory, but it makes running the net a lot easier for you and everyone else. A piece of paper and pen/pencil, BUT most of all, the willingness to do something that you may not have done before! Getting out of our comfort zone is something that we all need to do from time to time.

Is it hard to do? No... And, I speak from experience. I have run this net several times in recent weeks, and I found it to be FUN and rewarding. I also learned some things that I didn't think about while doing the net. So, it was a learning experience as well.

Sometimes things don't always work as we expect them to, and testing this system, and ourselves, each week gives us the ability to better understand what can happen during any emergency situation, and a better understand of how to work around any discrepancies that may occur before the emergency happens. Come join in on the fun every Wednesday evening at 8:30pm local on the DMR - 3139 talk group!

You can find a ton of information about DMR and the most popular DMR Nets and Code Plugs on the website: <http://arrl-ohio.org/digital/digital.html>

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## ***Fun Things To Do, Classes & Hamfests Too***

*(from various newsletters and sources)*



Class Instructors - Don't forget to register your classes with the ARRL. It's easy to do. Make sure that you send me that information too! Just think of all of the extra publicity that you'll get for your classes!

**>> Classes starting near you <<**

**Butler County Amateur Radio Association**

Beginning **January 31, 2018**, the DIAL RADIO CLUB - Middletown, Ohio, will offer a six-week class to prepare a candidate for examination in **Technician Class Amateur Radio operator license**. Meeting in Verity Lodge, on the Middletown Campus of Miami University, this class will meet **Wednesday evenings, 6-9 pm**.



Class will conclude March 7 and be followed by an examination session on Wednesday, March 21.

Although there is no charge for the instructional portion of this class, students should be prepared to purchase a license training manual and supplies (approximately \$30) for use in class.

Class enrollment will be limited to twenty students. For registration and/or additional information, please call Beverley Taylor (n8gge@arrl.net) or Carl Morgan (k8cm@arrl.net or 513-422-9384).

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**The Union County Amateur Radio Club** is putting on an Amateur Radio **Technician License Class starting February 7th**. This 6-week long class will be Wednesday evenings from 7pm to 9pm. The class will begin February 7th at the Union County Services Building, [940 London Ave. Marysville, Ohio 43040](http://www.unioncountyohio.gov/940-London-Ave-Marysville-Ohio-43040)

The class, testing session, and study guide are free. The class will be using the W8PEN Tech Study Guide, which is available as a PDF from the link below.

<http://www.ohiohams.net/sites/ohiohams.net/files/W8PEN%20Tech%20Study%20Guide%20Ver%202.0.pdf>

Please email [techclass@ohiohams.net](mailto:techclass@ohiohams.net) to register for the class or request additional information about the class.

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**The Westerville Public Library** is offering a **Technician Class Licensing** class on 4 consecutive Saturdays from 3-5PM starting on **Feb. 10, 2018**. The exam for it is being offered on Mar. 10 from 3-5PM. The class is free but I don't know about the charge for taking the test. The class is being taught by Dr. Lawrence Feth, K8HTC, faculty advisor for the OSU Amateur Radio Club.

For more information about the class, visit: <http://www.westervillelibrary.org/events>

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**The Greene County Amateur Radio Emergency Service** and the three Greene County amateur radio clubs (**Bellbrook, Fairborn and Xenia**) are jointly offering license classes meeting from 7 to 9 p.m. on Sundays starting **Feb. 11**.

The entry level Technician Class Course meets in the Training Center at the Bellbrook Amateur Radio Club Clubhouse, Room 1 Sugar creek Elementary School, 51 South East Street in Bellbrook.

The General Class Course and the April 22 test session are held in the Training Room at Beaver creek Township Fire Station 61 located at 2195 Dayton-Xenia Road just west of Orchard Lane.

The Extra Class Course meets in the Training Room at Fairborn Fire Station 2 located at 2200 Commerce Center Blvd just south of Dayton-Yellow Springs Rd (just east of I-675).

For more information or to register for the classes, contact Henry Ruminski, at [W8HJR@arrl.net](mailto:W8HJR@arrl.net) or call 937-232-9272.

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The American Legion Post 641 Amateur Radio Club will be hosting a **Technicians Class** crash course on **Feb 11<sup>th</sup>**, and a **General Class** crash course on **Feb 25<sup>th</sup>**, beginning at 10:00 am on both dates with exams to follow immediately afterwards.

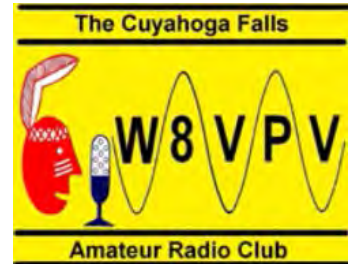
Courses will be held at Post 641 in Belle Valley Oh just off exit 28 on I77. The course will be instructed by Sonny Alfman W8FHF. Exams will be conducted by the Laural Valley Group. here is **NO CHARGE** for the exams. Lunch will be served by the club for a small donation. For further information please contact Gary Oliver, Membership Chairman at [garyoliver523@gmail.com](mailto:garyoliver523@gmail.com).

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**Cuyahoga Falls Amateur Radio Club.** We are offering a five-week **General Class Licensing class** starting in **mid-February**. The sixth week will be a VE session.

The class meets between 1:15 PM and 4:45 PM at the Akron-Summit County Public Library Main Branch at 60 South High Street, Akron OH 44326.

For more information about the class, contact Jim Grover, N8PZL - [grizgrover@gmail.com](mailto:grizgrover@gmail.com)



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**Geauga Amateur Radio Association - Extra Class License Upgrade classes.** 12-week class starting **February 23** at 6:30pm at the Geauga County Department of Emergency Services - 12518 Merritt Rd, Chardon, OH 44024.

There is no cost to the class or exam, but students will need to purchase the study manual. We are using the Gordon West/W5YI General Class Study Manual GWEM-16, ISBN 0945053866. This book is available at Universal Radio or Amazon.



Register Here <https://geaugaara.org/extra-class/>

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### ***AUXCOMM Training in Conjunction with Hamvention – Part II***



The Department of Homeland Security’s Office of Emergency Communications (OEC) will be on hand at Hamvention 2018 to conduct its nationally recognized NIMS/ICS compliant Auxiliary Communications (AUXCOMM) course. To date, over 2,000 emergency communicators have taken this course. The purpose of this course is to train highly qualified amateur radio operators so they may assist their local, county and state governments with emergency backup communications if requested. This course will be held at the Beaver Creek Township Fire Department, from 15-17 May 2018, as part of Hamvention 2018.

The OEC workshop is designed for auxiliary emergency communicators who volunteer to provide backup emergency radio communications support to public safety and emergency response professionals and their agencies.

Typically, this includes amateur radio communicators from groups such as MARS, ARES, RACES, SATERN, etc. Volunteer emergency communications operators/groups have been providing back-up emergency communications to the public safety community for over a century.

They are routinely used by event planners and emergency managers at all levels of government. Frequently, the Public Safety community relies on the amateur radio service when they need additional communications support for situations like sporting events, festivals and especially when telecommunications have collapsed or have been severely disrupted during a natural or manmade disaster. This was more than evident during the three hurricanes this past summer. A significant number of States/territories, regions, county and local governments have already incorporated some level of participation by amateur radio operators into their communications interoperability plans.

## ***Part II.***

I will say that several of our folks have signed up for this class already, but had a little snag at the beginning. There was a mis-understanding at first about the dates on the ICS courses. They do state on their flyer the following:

- o A copy of your current signed valid FCC amateur radio license*
- o Current IS-100.b certificate (taken since 2013)*
- o Current IS-200.b certificate (taken since 2013)*
- o Current IS-700.a certificate (taken since 2013)*
- o Current IS-800.b certificate (taken since 2013)*

NOTE: If you have taken the classes before 2013, like a lot of us have, you can always go in and retake the classes. **In fact, I would strongly suggest doing just that as a refresher.**

Now here's where the rub came in. They state, "taken since 2013". If you have taken them before 2013 and decide now to retake them, **at least for right now**, your new certificate will maintain the **original date** that you passed the course. It is **NOT** updating the date on your new certificate.

So, after several email exchanges between the administrator of the AuxCom courses and myself about this situation, the administrator has granted everyone that has completed the courses (**make sure that you have the correct revision .. ie.. IS-100.b and not just IS-100 or IS-100.a as an example**) will be accepted and credited with having the proper prerequisites, regardless of the date on your certificate. I can't stress this enough... You **MUST** have the correct revision! So, if you are interested in taking this course and don't have these ICS courses completed, get to work right now! Oh, when you do pass them, send a copy of them to me and your E.C.!!

Here's a link for the full details for this training: <http://arrl-ohio.org/auxcom-18.pdf> Here's a link for you if you need to get started on your ICS courses <http://arrl-ohio.org/SEC/training.html>

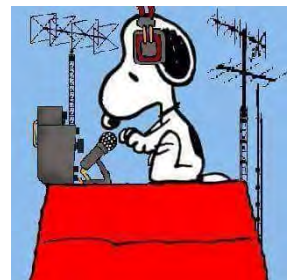
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### **Contests – Just for the FUN of it!!**

#### **February 1**

- [CWops Mini-CWT Test](#)
- [NRAU 10m Activity Contest](#)





**February 2**

- [NCCC RTTY Sprint](#)
- [QRP Fox Hunt](#)
- [NCCC Sprint](#)
- [YLRL YL-OM Contest](#)

**February 3**

- [Vermont QSO Party](#)
- [10-10 Int. Winter Contest, SSB](#)
- [Black Sea Cup International](#)
- [F9AA Cup, CW](#)
- [Mexico RTTY International Contest](#)
- [FYBO Winter QRP Sprint](#)
- [Minnesota QSO Party](#)
- [British Columbia QSO Party](#)
- [AGCW Straight Key Party](#)
- [FISTS Winter Slow Speed Sprint](#)

**February 4**

- [British Columbia QSO Party](#)
- [North American Sprint, CW](#)

**February 5**

- [RSGB 80m Club Championship, SSB](#)

**February 6**

- [ARS Spartan Sprint](#)

See the [ARRL Contest Calendar](#) for more information. For in-depth reporting on Amateur Radio contesting

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***Freeze You Acorns Off***

All of you know how cold it has been lately. So what better time than to - FREEZE YOUR ACORNS OFF!!

When: **Saturday, February 10th**, we will once again be meeting in the Roy Smith Shelter House located in the Fred Fuller Park - 497 Middlebury Rd., Kent, OH, to take part in our annual Special Event. It is our 13th annual, Freeze Your Acorns Off QRP Event sponsored by PCARS.

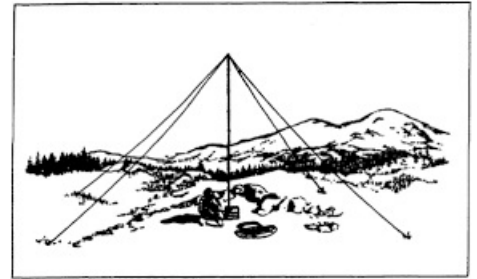


Activity will be in the General portions of the bands of 6, 10, 15, 20, 40 and 80 meters. The modes as in the past are CW and SSB and of course it's all QRP.

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>> *Ohio NVIS Day* <<

Hey everyone, Stan, N8BHL has let me know that the date for NVIS Day is scheduled for **Saturday, April 28th**. Are you ready? Start your planning now!



Like last year, we are planning on having the operation run from 10 – 4 EDT. Take a lunch break, enjoy each other’s company. Transmit power should stay at 100 watts for accurate signal comparison. You may operate anywhere, home, club, portable.

We are segmenting the bands during the day to increase the probability of contacts and make it easier for antenna experiments:

10 – 12 noon - 80 meters: Centered around 3.920

12 noon – 2pm 40 meters: Centered around 7.240

2pm – 4pm 160 / 60 meters: Any part of the phone band on 160. Try to stay on Channel 3-5 on 60. Be careful of tuning.

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**02/18/2018 | Mansfield Mid\*Winter Hamfest**

Location: Mansfield, OH

Sponsor: InterCity Amateur Radio Club

Website: <http://www.w8we.org>



**03/04/2018 | Winter Ham Fest**

Location: Elyria, OH

Sponsor: Northern Ohio Amateur Radio Society

Website: <http://noars.net>

Find all the Ohio Hamfests in one location? Go to: <http://arrl-ohio.org/hamfests.html>

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***Are You Ready To Howl At The Moon?***

No matter what you call it — a Super-Moon, a [Blue Moon](#), a Blood Moon, or a "[Super Blue Blood Moon](#)" — it's all the same. It's simply one part of a double treat for sky watchers on **Wednesday, January 31st**. That's when a total [lunar eclipse](#) and a full [Super-Moon](#) will occur. Yes, on the very same day.

Oh, if you didn’t know, there will be NO full moon in February! The next full moon will be on March 1<sup>st</sup>, and then we will have another full or “blue moon” on March 31st!

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## *Unplug Those Wall Warts – Help Save the Planet!*

Now, I'm sure that some of you are wondering just what's this all about. Well, here's why I've taken the time to write this article. The other day I got an "Electrical Usage" chart from our electrical company (AEP) that did a comparison of my home to similar homes in my neighborhood. Guess what, it stated that I use 30% more electric than my neighbors! I found that statement very hard to believe since most of my neighbors are all electric homes with electric heat! I'm one of the few in the neighborhood with a natural gas, forced air heating system. Now I want to tell you that "YES" we do have 4 computers running 24/7 in our home, but we keep our home at 66 degrees in the daytime and 60 degrees at night. Yes, it's like a meat locker in here at night! Now you can see why I cuddle around the wood burning fireplace with a blanket on me! I will tell you that my wife is always hot, and I'm always cold. That tells you who won out over control of the thermostat in our house!

So, our over usage just can't be from the furnace, there's no way that I'll believe that it takes more energy to run a small 1/3 horse motor over heating elements in an electrical baseboard heating system. And, we even have a gas water heater as well! So, where's all that electric going? I realize that running 4 computers full time will use more electric than the average home, but it just can't account for this huge amount of disparity. So, I started looking at everything in the house that's plugged in. And, that's when I found that we have what I feel is an unusual amount of "Wall Warts" in the house. I counted 25 of them! Now, could that be the reason for such a huge disparity? Let's take a closer look at this and see.



Let's try something unique here, let's use actual data to see if we can save that 30% more usage by unplugging all of my wall warts around the house.



In order to know just how much each one of these little creatures are costing me, we need to measure them for power utilization when nothing is plugged into them and they are still plugged into the wall. So, with a little experimentation and remembering Ohm's Law, we know that Volts x Amps = Watts, and Watts are what we care about. Your power company charges you for kilowatt-hours. (One thousand watts for one hour is a kWh).

Ok, let's start with an in-line multimeter using the 300mA range. I started there in hopes that I wouldn't have to go to the higher 10amp setting. I have a Fluke 75 digital multimeter, so I did the testing using that.

Now, let's keep in mind what we learned several weeks ago about meters. To measure current, we have to hook up the meter in series with the object that we are trying to measure. This can get a little tricky, as that you'll have to have a live wire / terminal exposed. So, it's working on a "HOT" line – and that requires your utmost attention!

Now, what we find is that we have more than expected current draw on this wall wart. We are measuring around 46mA (0.046amps) with absolutely nothing hooked to it. Keep in mind that an average L.E.D. turned on only draws about 20mA.

The wall warts that I have around the house are pretty generic. Most of them don't even have a name stamped on them. They seemed to be hooked to just about everything in the house, thermometers, weather stations, cell phones and even my frequency counter has one. So, after checking 10 or so of them I found that they're all pretty close to each other in current draw.

So, let's use that 46mA (0.046amps) @ 120v as our base. Now, Ohm's Law states Watts (P) = current (I) times volts (E). So, let's have some fun and do some math. We'll start by inserting into the equation what we do know. Power in Watts will equal the current which is 46ma (0.046amps) that we just found x 120 volts that we know that we have in our outlet. So, the watts work out to be 5.52. Now need to calculate just how much power is being consumed by the 25 wall warts total. We do that by multiplying the 5.52 watts for each wall wart (X) the 25 wall warts, and that equals 138 watts of power. That's like running a 150-watt light bulb without anyone enjoying the light!

Now, in order to compare what you are using to what the electric company is charging you for, we need to do a little more math. We need to convert our newly found usage into Kilo Watt Hours (kWh) which is the unit of measure for the power companies. So, let's get to work on that next.

We need to divide that 138 watts into 1,000 to arrive at just how many kWh we are using. So, we take the watts – 138 and divide (/) it by 1,000, which is a Kilo. That equals .138 kWh. OK, now we are talking the same language as the power company.



We know that there's 24 hours in a day, so we need to multiply the .138 kWh times 24 – and that equals 3.312 kWh per day. That really doesn't sound so bad until you think of it as burning (3) 1,000-watt light bulbs for an hour. Now, does that change your perspective a little on just how much these little buggers are costing you?

Ok, now we're on a roll. Let's find out just how much that works out to every year! So, we multiply the 3.312 by 365 days, and that equals 1,208.88 kWh per year! Wow... my homes average use per month is only around 670 kWh! Think about it, I could save almost 2 months' worth of electric bills by just throwing away all those dumb little wall warts.

So, knowing what I know now, I will be definitely unplugging those unused wall warts for sure! Heck, I may even toss a few of them out and just double up using the ones that I absolutely have to have. It may be a little inconvenient, but what the heck, if I can save a couple of months' worth of electric bills just by doing that, why not? Oh, I still think AEP needs to do a recalculation on my neighbor's electric usage. We just can't use that much more than my neighbors are using.

By the way, you may also want to look over everything in your house as well. I was flabbergasted by the amount of wall warts that I found, and all the stuff that they are hooked to!

*Disclaimer: No actual wall warts were harmed in the writing of this article. A few of them have now come up missing, but none were harmed!*

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*Final.. Final..*



Hey Gang...

This week will be busy for sure with a Super Blue Blood Moon on Wednesday and Friday will be Groundhog Day! So, whatcha' think... Do you think the Groundhog will see his shadow? I'm hoping that he doesn't, and spring weather will be here in just a few short weeks. I'd like to think positive on things like this. We've already have had a very cold and snowy 2018! Let's all think positive... We have just 109 more days until Dayton Hamvention! WOW.....

As I mentioned a couple of weeks ago, we are really close to that 650th member goal that I set for someone else to get an ARRL ARES Mess Vest. I know that there's still a lot of you out there that have taken the NIMS classes and just haven't

gotten listed for whatever reason. Please, take a couple of seconds and check the listing out. Here's a link:

<http://arrl-ohio.org/SEC/special/ICS%20Complete%20by%20County%20and%20Name.pdf>

If we don't have you listed, send me copies of your certificates and copy your E.C. as well. We'll take care of getting you on that list right away. I don't want anyone left behind. And... If you just happen to be that 650th person, Wow... You'll be the one to receive the Vest! Now, if you haven't started your NIMS courses yet, here's a link to the information you need to get started. <http://arrl-ohio.org/SEC/training.html>

Things have been really busy around here, I've updated the DMR pages with several items, check out the updated DMR Nets listing and we've also gotten a new Code Plug for the Anytone AT-D868UV radio. There's a really cool new link up there to acquire the latest contact listings. You can select from the country right down to the state if you wish. It's updated on a very regular basis from the DMR-MARCS database so you know that it's accurate!

Did you know that we have a link to the National Weather Service bulletins? We do, you can access it directly from the links bar at the top of the main page or by clicking this link: <http://arrl-ohio.org/nws.html> This will give you the latest weather bulletins for all of Ohio.



Now, speaking of the National Weather Service.... It's time for all of us to get that Skywarn training for the upcoming season in. How do I find a class? Easy, click on this link and then select which area of the state that you want to get your training from.. <http://arrl-ohio.org/SEC/skywarn.html>

73, for now, I will catch you on down the log for sure, and stay warm my friends!

Scott, N8SY...

-sk-

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## Chit – Chat, and All That!

Do you know someone that's not getting these Newsletters? Please, forward a copy of this Newsletter over to them and have them "[Opt-In](#)" to start receiving them. Heck, just have them send me an email [n8sy@n8sy.com](mailto:n8sy@n8sy.com) and I'll get them added to the Ohio Section Emailing list. We now have over 6,000 folks receiving these newsletters weekly. Quite impressive, I'd say!

I urge all of you to make sure that everyone, regardless of whether they are a League member or not, get signed up to receive these weekly Newsletters. You can always "[Opt-Out](#)" at any time if you feel this is not what you were expecting. It's fun and very informative.

All of your favorite past newsletters are now archived so that you can go back at any time and read them. Just go to: <http://arrl-ohio.org/news/>



Got questions, concerns or would just like to sit and chat awhile? Heck, I'll even buy the coffee!! Give me a call at (419) 512-4445 or email me at: [n8sy@n8sy.com](mailto:n8sy@n8sy.com)

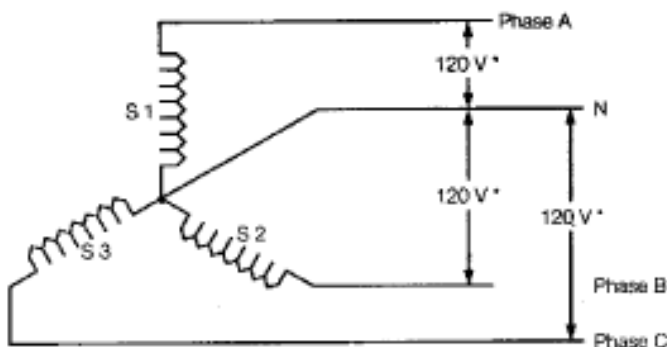
The pictures on the front page are from various newsletters, Facebook posts and/or were sent directly to me in recent weeks. Take a good look at them, you just might be in one of the pictures! "SMILE... you're on Candid Camera!"



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## Answer to Electrical Teaser



In a three-phase electric power system, each phase is measured with respect to the "Neutral".

*When you measure any phase (S1 or S2 or S3) with respect to Neutral, it is called "**Phase Voltage.**"*

*When you measure voltage between any two phases (S1-S2 or S2-S3 or S3-S1), it is called "**Line Voltage.**"*

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*PostScript is produced as a weekly supplement to the Ohio Section Journal (OSJ). I sincerely hope that you have enjoyed this edition of PostScript, and will encourage your friends to join with you in receiving the latest news and information about the Ohio Section, and from around the world!*