

## OHDEN Signal Quality Visualization Utility

Purpose:

- All OHDEN stations can visualize on an Ohio map the locations of all other OHDEN stations.
- All OHDEN stations can see the signal quality (s/n) value recorded for each station by each other station. This answers the question, "How well am I being heard?"

To start the system, set your browser to: **signalquality.ohden.us**

From there, you'll be provided the map with all the OHDEN stations. You may turn on and off the district and county designation using the buttons to the right. Panning is performed by the left mouse button and zooming is by the mouse wheel or by the zoom control buttons to the right. You may expand to full screen using the button with 4 arrows to the right.

To view the signal quality values recorded for a station, left click mouse on the station call sign. You'll note that a *mouse-over* will provide the station operator name. The selected station will switch to an antenna icon and all the other stations will switch to the signal quality values recorded for the selected station. *Mouse-over* behaves the same. Click the antenna icon again to return.

The signal quality values can be anything but, of course, everyone must be using the same one. Olivia provides a s/n value and everyone is already familiar with Olivia but a database of FT-8 signal values could be used to populate the database as well. For the best comparison between stations, it's important to set your receive IF bandwidth as close as possible to the bandwidth of the mode being used. For Olivia 8-500, that's 500Hz. Remember that noise in s/n is the total power that passes through the IF.

FLDIGI and the OHDEN Signal Quality Visualization Utility are not integrated so the data must be recorded and entered by hand. We'll initially try recording once per quarter but this could change. For the best comparison, all data should be recorded during the same net session and we'll announce ahead of time. The attached table will aid in the recording process. It contains all the OHDEN stations arranged by district and county. This approximates the order we use when calling roll. As each station checks in, enter the s/n value provided by FLDIGI. The value varies significantly so visually average the value -- this is not intended to be a process of precision.

To enter your data into the utility, you'll need to be signed in. The security system uses a magic key whereby, on your first sign in, you'll enter your email address and the system will send an email link to log you in. Generally, we use the emails you specified in ARESConnect. The two must match. Stay signed in upon leaving the utility or you'll need to get a link again. The utility uses a cookie stored in your browser for this and the cookie will have a lifespan of 3 months.

Once signed in, enter your data by selecting Admin from the top ribbon. You'll then be presented with all the station call signs arranged in the order of districts and counties. You can enter values from -30 to 30 including 0. (Don't use the "+" sign for positive values.) Leave it blank if you don't have a value. If you heard a signal but didn't get copy good enough to even get a complete call sign, select the n/c box for "no copy". Note that you can't enter a value for your own call sign. Importantly, hit the Accept key at the bottom of the page to save your entries. If you get in a bind for time, send your table to [robinkinney@core.com](mailto:robinkinney@core.com) for data entry.

To control the conditions under which signal quality data is entered into the database, the administrator may lock the database. You will then be given a message and prevented from entering the data.

<b>D</b>	<b>County</b>	<b>Call</b>	<b>Name</b>	<b>S/N</b>
1	ERI	KB8LKH	Dan Schlick	
1	HUR	KE8DRR	Troy Blair	
1	HUR	K8SMH	Seth Honeycutt	
1	LUC	KV8P	Rob Hall	
1	SEN	AC8NP	Dan Rinaman	
1	SEN	KC8PBU	Dan Stahl	
2	DEF	KB8IUO	Neil Byers	
2	DEF	WD8JVV	Ed Ballard	
2	PAU	N8KPQ	Dan Brewer	
3	CHP	WD8CHW	Jeff Powell	
3	DAR	WD8OQX	Tim Liette	
3	GRE	KI8JY	Dave Perry	
3	GRE	WA8APB	Bill Curtice	
3	GRE	AC8SM	Joel Montgomery	
3	GRE	WB8TDG	Rex Lehman	
3	MIA	W8NJR	Terry Netzley	
3	MIA	WB8PMG	Dave Robinson	
3	MOT	KM8N	Jack Melke	
3	MOT	KD8STR	Glenn O Donnell	
3	PRE	NJ8BB	Gary Hollenbaugh	
3	SHE	K8EEP	Eric Patterson	
4	BUT	N8TVU	Bob Spratt	
4	CLE	N8EMA	Jeff Wood	
4	CLI	WF8B	Mike Boyle	
5	COL	KB8HTU	Gary Amato	
5	COL	WX8EMA	Club Station (NN8B)	
5	COL	NN8B	Don Kemp	
5	MAH	KB8GAE	Rich Slutz	
5	MAH	WB8YHD	Frank Sole	
5	MAH	WA8ZLK	Andrew Brincho	
5	MAH	KD8NZF	Dave Brett	
5	POR	K8CAV	Rick Kruis	
5	POR	KE8IED	Ian Warring	
5	STA	KB8DNQ	Doug Matthew	
5	SUM	KA8OAD	Ken Dorsey	
6	MOR	K8MDA	Duane Meadows	
6	RIC	W8DLB	Danny Bailey	
6	RIC	KD8MSZ	Dave Krutsch	
7	FRA	AB8MW	Mike Walker	
7	FRA	KD8TTE	Matt Curtin	
7	FRA	KE8OOS	Leo Dubois	
7	FRA	N8BHL	Stan Broadway	
7	FRA	W8SGT	Stan/Richard	
7	DEL	AC8YE	Larry Howell	
7	LIC	W5UHQ	Eldon Peterson	
7	LIC	AD8AG	Thom Thorpe	
7	LIC	WD8JLP	Mike Neal	

8	ATH	W8KVK	Ted Jacobson
8	MEG	KG6DI	Robin Kinney
8	MEG	KZ8U	Brian Taylor
8	PIK	KE8AAL	Bill French
8	GAL	KE8EC	Bob Adkins
9	COS	KB8VIP	Hienz Stucki
9	COS	KC8YXY	Jamie Hoy
9	COS	KE8WIP	Jim Waibel
9	COS	KL7RF	Randy Fisher
9	COS	N8MXX	Steve Cooksey
9	COS	KC8PUW	Will Parks
9	COS	WX8OH	Warren Peiter
9	JEF	W8PAB	Paul Brandt
9	JEF	WD8SAB	Rick Shuster
9	MOE	KD8MSJ	Jeff Schanks
9	NOB	N2LC	Lee Coyle
9	WAS	W8JTW	Joe Wigal
10	CUY	AB8M	Doug Denver
10	CUY	KM8V	Jon Anhold
10	LOR	KB8O	Jay Pecora
10	MED	NF8O	Dave Ricon
11	zNC	KN4AXJ	Tom Green