

# The Radio Hotel – A Lesson Learned (and Well Taught)--EFHW

By Rick Hiller – W5RH

I recently participated in an on-line seminar from the ARMG – Amateur Radio Mentor Group. This small group of local Elmering Hams, wants to give back to the Ham community, in light of the many newly licensed hams and also many older hams getting back into the hobby. They feel that a guide to the current (and basic) technology usage would be a beneficial thing.

On April 27<sup>th</sup>, a Zoom venue'd gathering presented talks about antennas and antenna system parts. View the seminar recording at <http://www.k5wh.net/ARMG/April-27-2020/ARMG-Antennas.mp4> One of the four short presentations (start viewing at 1:33:30) caught my eye – the one on the EFHW – End Fed Half Wave, Multi-band antenna. Steve, N4LQ, gave an excellent introduction to the antenna highlighting its' multi-banding capability and its' ease of construction and deployment.

Drawing courtesy of N4LQ, Steve.

## 80 To 10 Meter EFHW



I'll give some detail on information watering holes below, but let me tell you the highlights:

Antenna is 140'ish feet long

Fed at the end through a 1:49 impedance matching transformer, which is simple to wind.

Can handle any power level from QRP to full tilt 1KW,

based on the wire and transformer toroid core material size.

An ATU is required, ONLY, if you wish to work,

for example, the full 80 meter band, but this is a special case.

Cost is quite low considering all that it does.

Multi-banding means just that: 80 thru 10, WARC's too. Phenomenal!

Deployment can be varied -- straight, Inv. V, zig zag, sloper, etc.

Check out these on-line links for more detailed information:

[www.facebook.com/groups/HalfWaveEndFedAntennas](http://www.facebook.com/groups/HalfWaveEndFedAntennas)

[www.youtube.com/watch?v=0wrN1qhstX4](http://www.youtube.com/watch?v=0wrN1qhstX4)

Gonna have to build one of these myself...very cool! Enjoy your hobby....73... Rick