



My Favorite Antennas for Portable Operations

Jed W. Petrovich, AD7KG



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- ▶ First Licensed October 2005
- ▶ General and Amateur Extra Class Licenses October 2006
- ▶ DXCC (mixed, phone, CW, digital)
- ▶ 5 Band DXCC, 12m, 17m and 30m Endorsements
- ▶ WAZ Award
- ▶ Over 300 DXCC Entities Confirmed
- ▶ Past UDXA President, Vice President
- ▶ DX University Faculty
- ▶ Profession: Data Analyst







My Criteria for Portable Antennas

- ▶ Simple setup
- ▶ No additional assistance
- ▶ Limited, if any, extra equipment
- ▶ Self-supporting (no trees)
- ▶ Can be QRP
- ▶ Very portable (SOTA, etc.)
- ▶ Could be QRO
- ▶ Larger antennas (Field Day, 7QP, etc.)



End-Fed, Half Wave (EFHW)

- ▶ MyAntennas EFHW-8010
 - ▶ 130 Feet (39.6m) long
 - ▶ NO TUNER needed!
 - ▶ Perfect for extended operating like Field Day...
 - ▶ Resonant on 80/40/30/20/17/15/12/10m
 - ▶ 1kW-**ICAS** max. (Intermittent **C**ommercial and **A**mateur **S**ervice)
 - ▶ Could also be set up as a station antenna
- ▶ Homebrew EFHW – QRP
 - ▶ ARRL kit
 - ▶ 49:1 Transformer











Buddistick/Buddipole

- Homebrew Buddistick
 - 10m to 40m
 - <https://k5unx.wordpress.com/2013/02/24/homebrew-buddistick-part-1/>
 - <https://k5unx.wordpress.com/2013/04/23/homebrew-buddistick-project-part-2/>
- Commercial Buddipole
- Commercial Buddistick
 - Adapted from Buddipole
 - Added a few items (elevated radial, etc)
- BuddiHEX™
 - Used a similar “Hex” for 7QP
 - First Place Multi-Multi County Line Expedition 2018





















Homebrew Vertical

- ▶ Fiberglass Mast
- ▶ 8 Sections; 0.125 (1/8) inch wall; 28.5 feet
- ▶ Single Elevated Radial
- ▶ 10m to 40m













Performance – Do They Really Work?

- ▶ Summits on the Air (SOTA)
- ▶ National Parks On The Air (NPOTA)
 - ▶ 950 SSB QSOs – 8 hours on the air
- ▶ 7QP 2018 – K7UM
 - ▶ First Place – 7th Area County-Line Expedition Multi-Multi
 - ▶ Total Points: 458,110
 - ▶ 1,410 CW QSOs; 1,650 SSB QSOs: 61 Multipliers
- ▶ 7QP 2017 – AD7KG
 - ▶ First Place – 7th Area County-Line Expedition Single-Op
 - ▶ Total Points: 88,828
 - ▶ 340 CW QSOs; 328 SSB QSOs; 53 Multipliers



Sources

- ▶ EFHW
 - ▶ Google search “End-fed Half-wave” antenna
 - ▶ EFHW Facebook group
- ▶ My Antennas: <https://www.myantennas.com>
- ▶ SOTABeams
 - ▶ UK: <https://www.sotabeams.co.uk>
 - ▶ USA: <https://www.dxengineering.com>
- ▶ Buddipole antennas: <https://www.buddipole.com>
- ▶ Max Gain Systems: <https://mgs4u.com>

Questions/Comments?

