WHY SHOULD UTILITIES BE USING QNAP® PRESERVED WOOD UTILITY POLES?

YOU'LL GET BETTER POLES THAT LAST LONGER WITH LOWER EH&S IMPACT.

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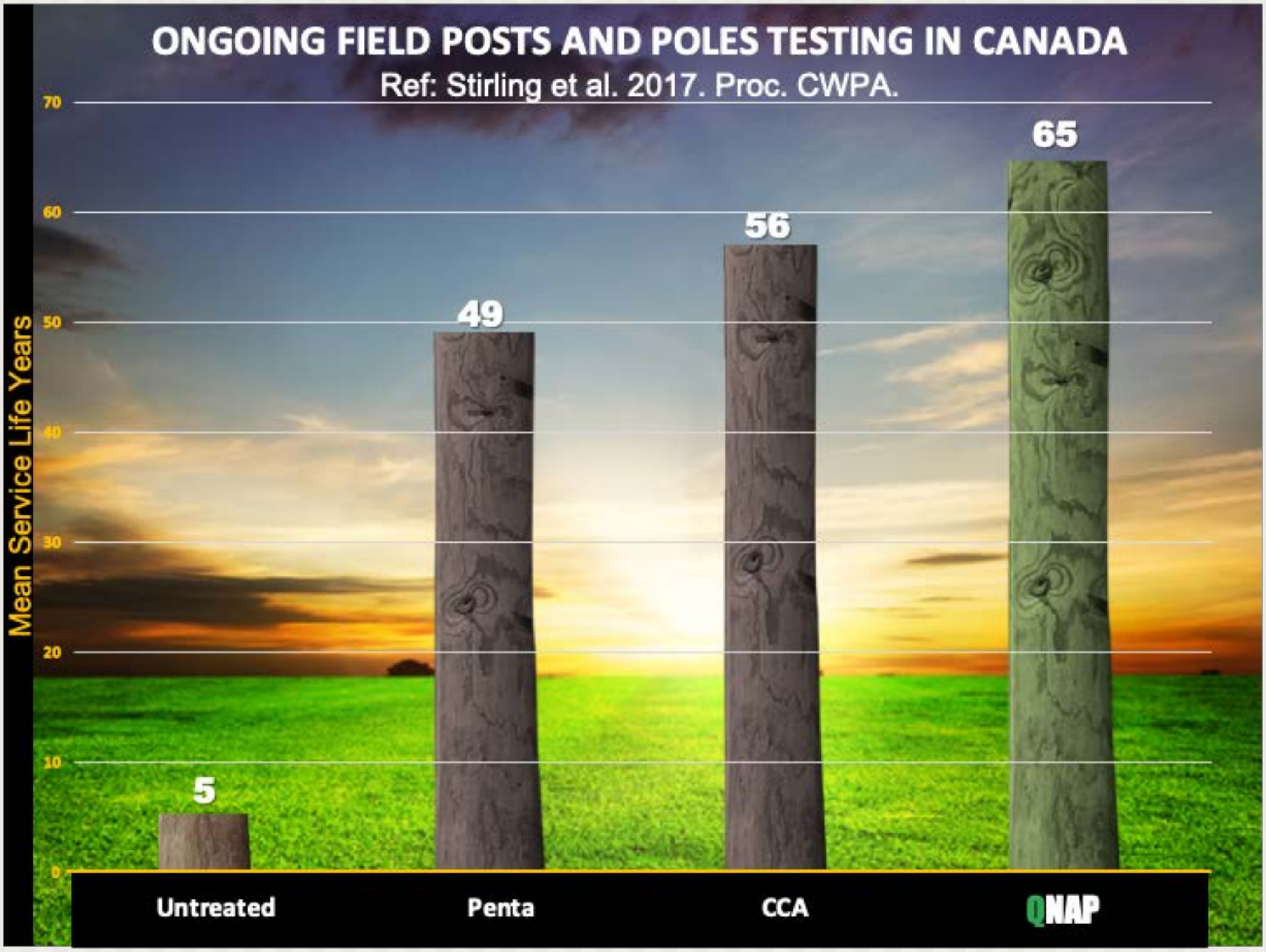
QNAP UTILITY POLES LAST LONGER



QNAP Poles have been part of this test 10 years longer than the other preservatives and are still showing great performance.

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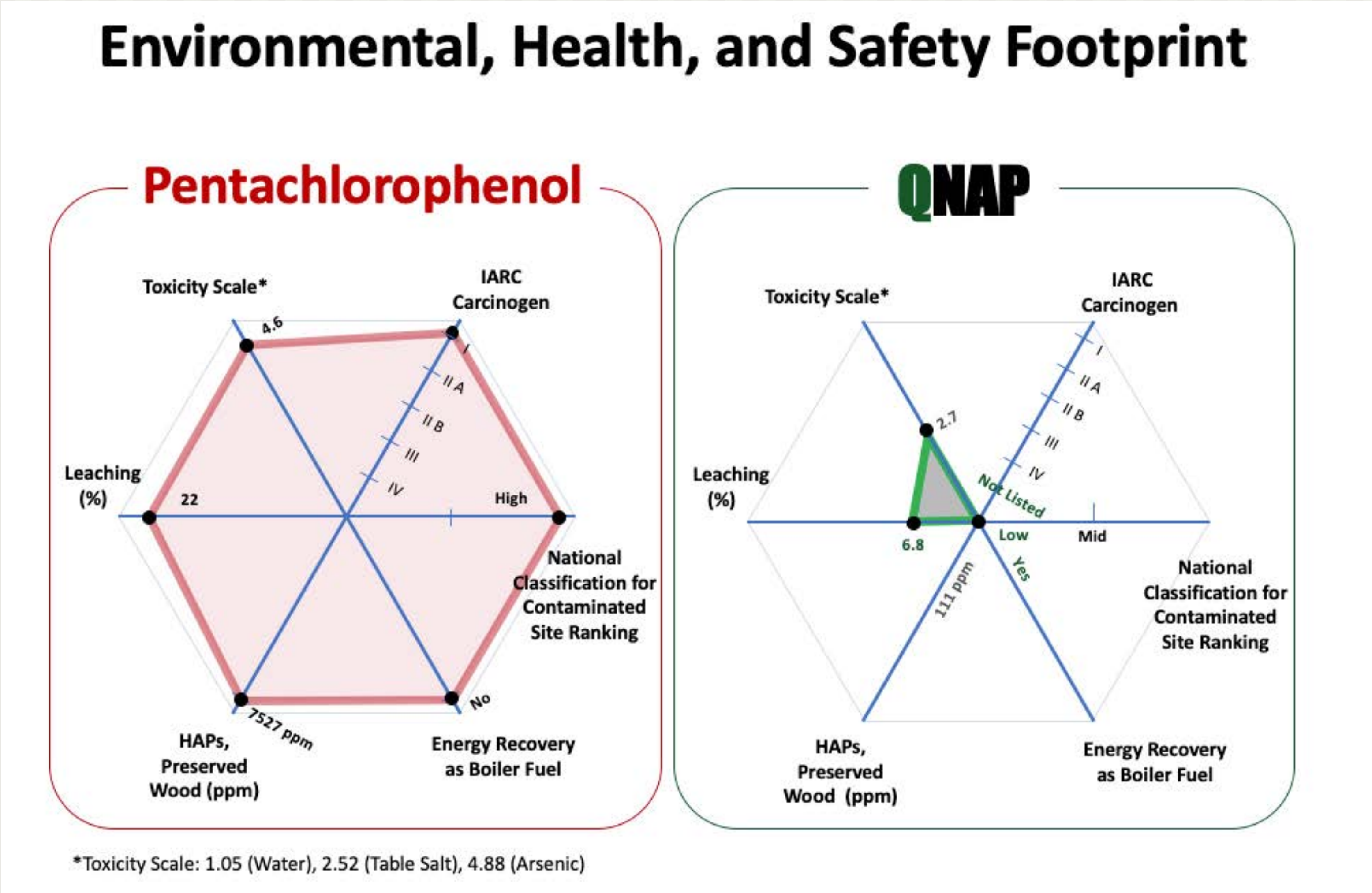
ENVIRONMENTAL COMPARISON

CATEGORY	PENTA	QNAP	COMMENTS
ENERGY RECOVERY AS BOILER FUEL	NO	YES	Pentachlorophenol label prohibits burning treated wood.
HAPs - PRESERVED WOOD, PPM	7527	111	Total SVOCs (PAHs & pentachlorophenol) and HAP metals (TWC 2015)
SERVICE LIFE (FPInovations)	49 YEARS	65 YEARS	Ref: Stirling et al. 2017. Proc. CWPA.
CARCINOGEN RISK Exceeds Canadian Standards	YES	NO	International Agency for Research on Cancer (IARC) Classified pentachlorophenol as Group I Carcinogenic to Humans
PERSISTENT ORGANIC POLLUTANT	YES	NO	Stockholm Convention
STRICT DISPOSAL OF ABSORBED CLOTHING	YES	NO	QNAP is not listed as a hazardous waste
CONTAINS DIOXINS	YES	NO	QNAP does not contain dioxins
NATIONAL CLASSIFICATION FOR CONTAMINATED SITES RANKING	HIGH HAZARD	LOW	No copper naphthenate sites listed.
MEDIAN LETHAL DOSAGE FOR A 68 KG. PERSON, GRAMS	1.8	136	QNAP median lethal dosage is ~75 times that of pentachlorophenol (higher MLD = less toxic)
GAFF PENETRATION; FORCE REQUIRED FOR 12 mm PEN. UNTREATED POLE = 199 kg	454	232	Penta requires almost twice as much force as QNAP using 9206 gaff. Untreated southern pine requires half again as much force as QNAP. Ref: Shupe et al. 2011. Proc. AWPA. 107: 150-152.
CONDUCTIVITY (Siemens/meter) Untreated pole = 1.68×10^{-8} Lower value = less conductive	2.13×10^{-6}	1.01×10^{-8}	Penta is >200 times more conductive QNAP is essentially identical to untreated wood. Ref: Ragon et al. 2010. Proc. AWPA. 106: 153-167.
SOLUTION CORROSIVITY (Mild Steel, mils/year, in #2 fuel oil)	2.1	< 0.5	QNAP is better for metal fixtures and fittings Exposed 2 weeks at 110-127°C; 1% Cu and 7% penta.

ENVIRONMENT, HEALTH & SAFETY FOOTPRINT



The smaller the shape the better the environmental, health and safety profile.

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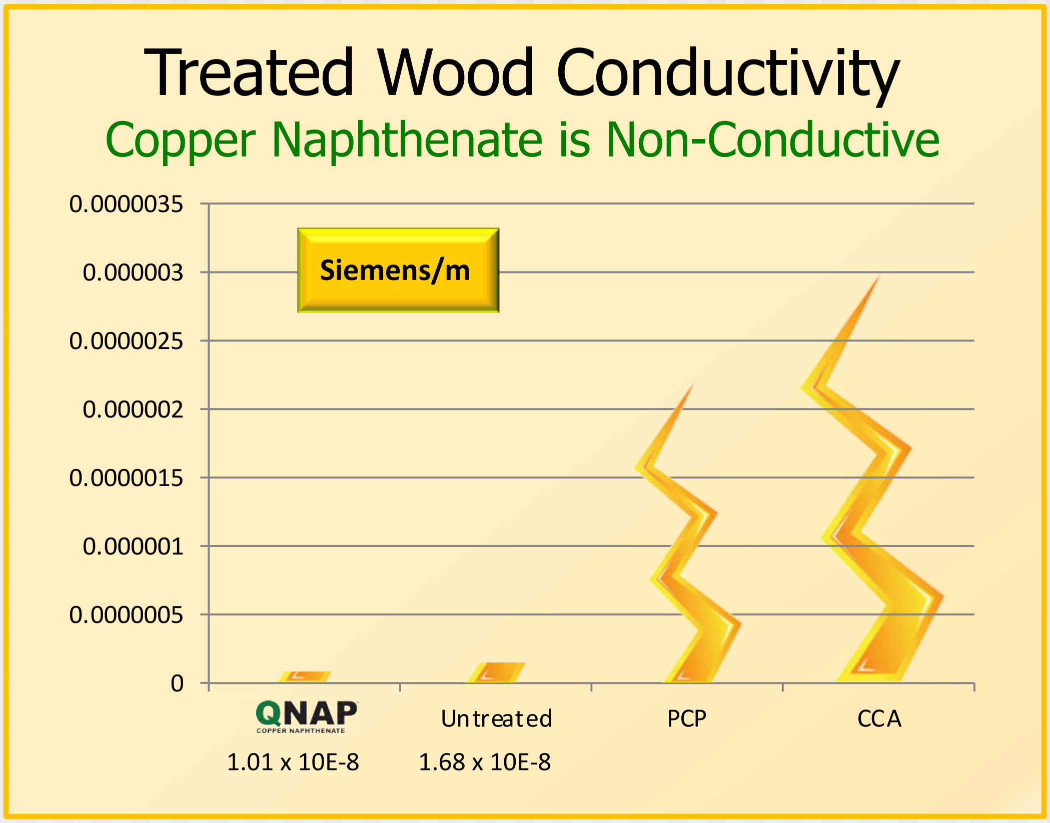
QNAP COPPER NAPHTHENATE IS LESS CONDUCTIVE THAN PENTACHLOROPHENOL OR CHROMATED COPPER ARSENATE



The lower the value means the lower the conductivity.

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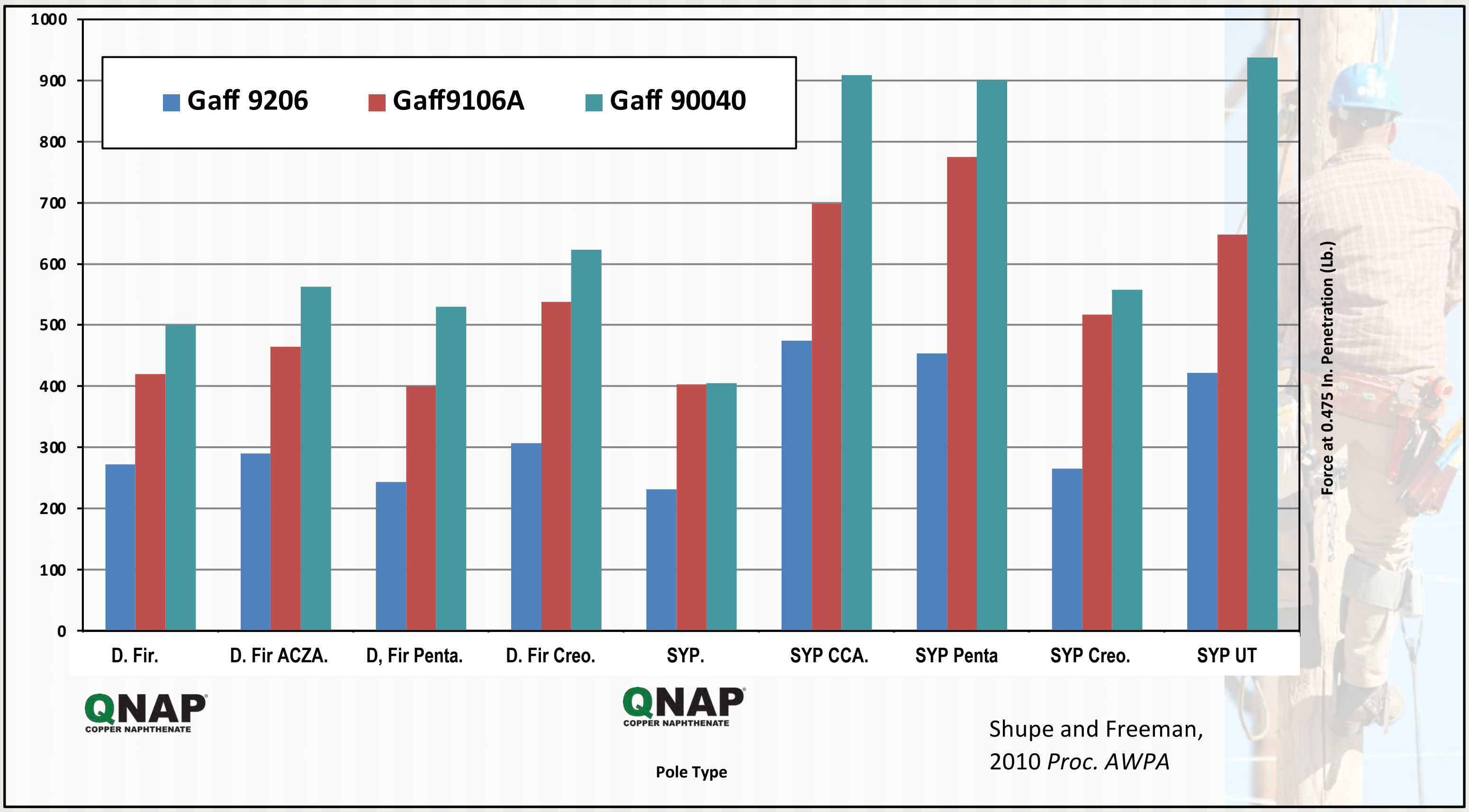
PRESERVED WOOD POLE CLIMBABILITY
(GAFF PENETRATION STATS)



The lower the bar the better the gaff penetration.

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QNAP®

COPPER NAPHTHENATE

COPPER NAPHTHENATE UTILITY POLES ARE AVAILABLE FROM THESE TREATMENT PLANTS

Bell Lumber & Poles Company
The Dales, OR
Dan Imholte
Office: (651) 633-4334
Cell: (612) 423-5008
https://www.blpole.com/

Koppers Utility Group
Arbuckle, CA
Mitch Seitzinger
PH: (503) 850-6202
CELL: (503) 504-1496
Additional plants
Michelle Griffin
CELL: (803) 747-1662
https://koppersuip.com/

Stella Jones
22125 Rock Creek Rd.
PO Box 40
Sheridan OR 97378
Kevin Comerford
VP of Sales
kcomerford@stella-jones.com
PH: (800) 430-2371
CELL: (253) 208-0324

Cahaba Timber
Brierfield, AL
Greg Suttle
Office: (205) 926-9888
Cell: (205) 361-7434
http://www.cahabatimber.com

Ozark Timber Treating Corporation
TSO Treater
14445 N. Highway 65
St. Joe, AR 72675
Eddie Martin
ozarktimber.net
PH: (870) 439-2212
CELL: (870) 688-1342
http://ozarktimber.net/

Wheeler Lumber
P.O. Box 8
Whitewood, SD 57793
Dave Koch
Sales Manager
dakoch@wheeler-con.com
PH: (800) 843-8304
FAX: (605) 269-2497
http://www.wheeler-con.com/

AND SUPPLIERS

Bridgewell Resources
Matt Kyser
PH: (503) 872-3426
https://www.bridgewellresources.com/

Westlake Timber Supply
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