

Results of the 2014 CQ WW WPX CW Contest

BY TERRY ZIVNEY,* N4TZ

Some people think that the activity in amateur radio contests is driven by propagation. When the bands are in better shape, more people are on the air so there are more opportunities to make contest contacts. Not only have we apparently passed the (second) peak of the current sunspot cycle, but the end of May generally ushers in some summertime doldrums. So participation took a dip in 2014, but we still received over 4,000 logs. Propagation was decent, but not spectacular. Many experienced more difficulty in working across the oceans than they expected at a solar cycle peak. In most, but not all of the categories, the champions had lower scores than it took to win last year.

The ever-growing number of prefixes available largely offset the slight downturn in the number of participants. UA5C had 1,185 prefixes as a single operator, while ES9C had an all-time record of 1,632 prefixes worked. Last year, 74 stations worked at least 1,000 prefixes. This year, 144 stations did it. It takes 300 prefixes confirmed on CW to qualify for CQ's WPX award. Over 1,500 stations had at least 300 prefixes worked during the CW contest weekend.

Many stations use an unusual call or prefix for the WPX contests. However, it's a fine balancing act between having a callsign that is unusual enough to attract attention on the crowded bands and having one that is too difficult to copy or too cumbersome to send. Sometimes this attempt to give out a new multiplier can backfire. W2GD and PA3FYM reported two outstanding examples of the saying "no good deed goes unpunished." First, while testing his new P44W callsign before the contest, John, W2GD, found that the skimmer network was spotting him very infrequently, making him feel very weak. He found from skimmer guru, N4ZR, that the skimmer network was filtering out the P44 prefix as not being assigned by the Aruba authorities. Fortunately, in the case of P44W, many of the skimmer owners were able to patch their files before the contest, providing a little extra punch for John's low-power signal.

Remco, PA3FYM, did not fare quite so well in his encounter with modern contest technology, especially logging programs whose Super Check Partial function would not recognize his assigned callsign of 7QNL. After a very slow first evening, Remco decided to sleep on it and see what happened the next day; because he was still having a problem with people not accepting his 7QNL callsign, he changed his call to 7ØQNL which seemed to be readily accepted by everyone's logging programs. He wrote, "After all [that], the contest was fun, but the fundamental fact [is] that nowadays one [also] has to contest against databases and software [and that] left a bad taste in my mouth." Thanks for persevering, Remco.

These examples serve as reminders that in our world, even the proverbial "boy and his radio" is impacted by the non-essential technology adopted by others. Speaking of a "boy and his radio," Tony, K2NV/VE3, reported that he



Photo A. K2NV/VE3 enjoyed working the DX from his sailboat.

had "great fun during our first cruise of the season aboard our sailboat *BellaDonna*. I was surprised to work BY1AA and BY2AA on 15 meters using 100 watts and an insulated backstay. I have enjoyed this contest from the boat for over 20 years!" (Photo A)

Single-Operator All Band

Andy, AE6Y, returned to his Aruba station (P49Y) and edged R9DX, who was perched in CT9-land. Andy's 40-meter QSO total was the difference here, as both stations are located in that "sweet spot" running from northern South America to northwestern Africa where nearly all QSOs receive maximum points, yet are still close to population centers.

K6LA used his VY2TT station to claim third place overall while edging LZ4AX operating KC3R. A65BP was piloted by RV6LNA to the top Asian score (sixth overall) and UZ2M (URØMC, op) was the top European station, eighth in the world.

Single-Operator Single Band

Summertime propagation conditions make the 10-, 80-, and 160-meter bands especially sensitive to location. As usual, a Southern Hemisphere station, in this case 5W1SA, had the top high-power, 10-meter score. EF3W (EA3GXJ, op) was the highest European 10-meter score with over 1 million points while K2SSS won the U.S.A. plaque with a score of only 225,000 points. The best locations for 80 and 160 meters, on the other hand, seem to be somewhere in central or eastern Europe, with UT5UGR the 80-meter champ and LY7M beating out E71A on the 160-meter band. This year, the top 10 scores on 40 were turned in by European stations, led by IY9A, S51F, and HA8JV.

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2014 WPX CW TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD: Steve Bolia, N8BJQ Trophy. Won by: **P49Y** operated by Andrew Faber, AE6Y
WORLD Low Power: Caribbean Contesting Consortium Trophy. Won by: **P44W** operated by John Crovelli, W2GD
WORLD QRP: Bill Parker, W8QZA Trophy. Won by: **HG3M** operated by Istvan Vajda, HA3MY
USA: Dennis Motschenbacher, K7BV Trophy. Won by: **KC3R** operated by Alexander Avramov, LZ4AX
USA Low Power: Ken Boasi, N2ZN Trophy. Won by: **Maury Peiperl, W3EF**
USA QRP: John T. Laney, K4BAI Trophy. Won by: **Gary Hembree, N7IR**
USA Zone 3 High Power: Northern California Contest Club Trophy. Won by: **KR70/6** operated by Robert Wilson, N6TV
USA Zone 3 Low Power: Arizona Outlaws Contest Club Trophy. Won by: **AD7JP** operated by Bill Conwell, K2PO
USA Zone 4 High Power: Society of Midwest Contesters Trophy. Won by: **WX0B** operated by Roy Radlek, AD5Q
USA Zone 4 Low Power: Society of Midwest Contesters Trophy. Won by: **Marvin Bloomquist, N5AW**
USA Zone 5 High Power: Paul Obert, K8PO Trophy. Awarded to: **Bud Trench, AA3B***
EUROPE High Power: Ivo Pezer, 5B4ADA/9A3A Trophy. Won by: **UZ2M** operated by Roman Tkachenko, UR0MC
EUROPE Low Power: Vitor Santos, PY2NY Trophy. Won by: **MJ5Z** operated by Kazunori Watanabe, JK3GAD
EUROPE QRP: Bruce Olney, WY7N Trophy. Won by: **Joseph Presman, UU2CW**
AFRICA: Chris Terkla, N1XS Trophy. Won by: **CT9/R9DX** operated by Vadim Ovsyannikov, R9DX
ASIA: Rick Tavan, N6XI Trophy. Won by: **A65BP** operated by Alexander Lunev, RV6LNA
NORTH AMERICA: Louisiana Contest Club Trophy. Won by: **KP2AA** operated by John Bednar, K3TEJ
NORTH AMERICA Low Power: Dick Green, WC1M Trophy. Won by: **KP2M** operated by Philip Allardice, KT3Y
NORTH AMERICA QRP: Dale Martin, KG5U Trophy. Won by: **Reynaldo H. Rodriguez Guzman, CO6RD**
OCEANIA High Power: Lloyd Cabral, KH6LC Trophy. Won by: **Holger Hannemann, ZL3IO**
OCEANIA Low Power: Pacific DXers Trophy. Won by: **Kevin Smith, VK6LW**
SOUTHERN CONE (CE, CX, LU) Low Power: LU Contest Group Trophy. Awarded to: **Nicolas Herrera G., XQ1KZ***
CANADA High Power: Radio Amateurs of Canada (RAC) Trophy. Won by: **VY2TT** operated by Ken Widelitz, K6LA
CANADA Low Power: Contest Club Ontario Trophy. Won by: **Vladimir Milutinovic, VE3JM**
JAPAN: Wes Printz, W3SE/ZL3TE Trophy. Won by: **Masaki Okano, JH4UYB**
CHINA: LZ9W Contest Team. Won by: **Chenxing Yu, BG9XD**

SINGLE OPERATOR, SINGLE BAND

WORLD 28 MHz: Steve Hodgson, ZC4LI Trophy. Awarded to: **Atsuo Sakuma, 5W1SA**
WORLD 28 MHz Low Power: Six Stars Contest Station L51D Trophy. Won by: **LO5D** operated by Mariano Colacilli, LU8EOT
WORLD 21 MHz: Andrei Stchislenok, NP3D Trophy. Won by: **YW4D** operated by Paolo Stradiotto, YV1DIG
WORLD 14 MHz: Gene Walsh, N2AA Trophy. Won by: **P40A** operated by John Bayne, KK9A
WORLD 7 MHz: LZ2RF Memorial Trophy (OR2F Sponsor). Won by: **IY9A** operated by Simone Candotto, IV3NVN
WORLD 7 MHz Low Power: Neal Campbell, K3NC Trophy. Won by: **Juraj Kovacic, OM3ZWA**
WORLD 3.5 MHz: Ranko Boca, 4O3A Trophy. Won by: **Dimitry Stashuk, UT5UGR**
WORLD 1.8 MHz: Dusko Dumanovic, ZL3WW Trophy. Won by: **Algirdas Uzdonas, LY7M**
USA 28 MHz: Paul Beringer, NG7Z Trophy. Won by: **Zeljko Repic, K2SSS**
USA 21 MHz: Charlie Wooten, NF4A Trophy. Won by: **K3LR** operated by John Golumb Jr., N2NC
USA 14 MHz: Kansas City DX Club Trophy. Won by: **KJ3X/4** operated by Bill Kollenbaum, K4XS
USA 7 MHz: Yankee Clipper Contest Club Trophy. Won by: **KZ5AA/4** operated by Robin Gist, K4VU
USA 3.5 MHz: Darin Divinia, WG5J Trophy. Won by: **Steven Sussman, W3BGN**

SINGLE OPERATOR ASSISTED

WORLD: D4C Station Trophy. Won by: **EF8U** operated by Juan Hidalgo, EA8RM
WORLD QRP: Explorers Radio Club Trophy. Won by: **Nick Kornev, RA3AN**
USA: Ron Sigismonti, N3RS Trophy. Won by: **Michael Schwartzman, AB3CX**
EUROPE: Martin Huml, OL5Y Trophy. Won by: **Krzysztof Sobon, SN7Q**
CANADA: Anthony Ratajczak, VE1ZA Trophy. Won by: **Art Tolda, VE3UTT**

OVERLAY CATEGORIES

WORLD Tribander/Single-Element: Helmut Mueller, DF7ZS Trophy. Won by: **NP2P** operated by Yuriy Rakushchynets, N2TTA
USA Tribander/Single-Element: Paul Newberry, N4PN Trophy. Won by: **NF4A** operated by Paul H. Newberry, Jr., N4PN
Europe Tribander/Single-Element: Matija Brodnik, S53MM Trophy. Won by: **TM77M** operated by Laurent Fontaine, F5MUX
WORLD Rookie: Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **Philip Springer, DK6SP**
NORTH AMERICA Rookie: Chris Kantarjev, K6DBG Trophy. Won by: **Alan Spies, KV4QS**

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Steve Miller, N0SM Trophy. Won by: **P33W** operated by HA1AG, UT5UDX, UA4WI, RA2FA, UA4FER, RW4WR, and RA3AUU
WORLD-Low Power: Hoosier DX and Contest Club Trophy. Won by: **9A7T** operated by 9A2EU, 9A2NO, 9A4KJ, 9A5MR, and 9A7TM
USA: Phil Allardice, KT3Y Trophy. Won by: **NY4A** operated by AA4FU and N4AF
AFRICA: Rhein Ruhr DX Association Trophy. Won by: **CN3A** operated by IK2QEI, RX3APM, RA3CO, and UA2FM
ASIA: W2MIG Memorial (NX7TT Sponsor) Trophy. Awarded to: **P3N** operated by R2AA, R3GM, RN3TT, RT5K, RT9T, and RW3QNZ*
EUROPE: YO3CTK Memorial by Andy Ruse YO3JR/YR1A Trophy. Won by: **OM7M** operated by OK2BFN, OM2KI, OM3PA, OM3PC, OM5RM, OM5RW, and OM5ZW

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: UA1DZ Memorial (W3UA Sponsor) Trophy. Won by: **ZF1A** operated by AC6T, N5DO, K6AW, N5DX, and K5GO
USA: Florida Contest Group Trophy. Won by: **KD4D/3** operated by KD4D, K3RA, N2YO, W3KX, and AC6WI
AFRICA: Walter Skudlarek, DJ6QT Trophy. Won by: **No Entry**
EUROPE: Tom Georgens, W2SCTrophy. Won by: **II9P** operated by IK1HJS, IT9AUG, IT9SCHU, IT9CJC, IT9EQO, IT9GSF, IT9INO, IT9NJE, IZ8JAI, and LY5W

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Steve Merchant, K6AW Trophy. Won by: **ES9C** operated by ES2DW, ES2MC, ES2NA, ES2RR, ES4RD, ES5GP, ES5JR, ES5QX, ES5RY, ES5TV, ES5QA, ES7GM, LY2IJ, OH1RX, OH2IW, OH7JR, YL1ZF, YL2KL, YL2PJ, YL2VW, YL3AD, and YL3DW
USA: Jim Reiser, AD1C Trophy. Won by: **NQ4I** operated by AA4LR, VE7ZO, N4XL, W4IX, WB5EIN, K4TD, N4FD, K4BAI, and NQ4I
EUROPE: Jeff Demers, N1SNB Trophy. Awarded to: **9A1A** operated by 9A9A, 9A5W, 9A6A, 9A7R, 9A2DQ, 9A4WW, 9A8A, and 9A2WJ*
CHINA: Andrey Sachkov, LZ2HM Trophy. Won by: **BY5CD** operated by BA5CW, BA5FB, BD4AGK, BD4GNV, BG4HJE, and OH7WV

CONTEST EXPEDITION

WORLD: Phil Goetz, N6ZZ Memorial by Paul Goetz Trophy. Won by: **Hall Offutt, SV9/W1NN/P**

COMBINED AWARDS

WORLD Single Operator Combined Score: (SSB and CW) Yuri Blanarovich, K3BU Trophy. Won by: **P49Y** operated by Andrew Faber, AE6Y
USA Single Operator Combined Score: (SSB and CW) Bill Fisher W4AN Memorial (KM3T Sponsor). Won by: **WF4W/NF4A** operated by Paul Newberry, N4PN
WORLD Single Operator Combined Prefixes: Norm Koch, WN5N Memorial by Gail M. Sheehan, K2RED Trophy. Won by: **P49Y** operated by Andrew Faber, AE6Y (2403 total)
CQ WPX Contest Triathlon Award: (Single Operator Combined Score on RTTY, SSB, and CW). Rudy Bakalov, N2WQ Trophy. Won by: **Bud Trench, AA3B** (19,569,714 points, 7,228 QSOs)
WORLD Club Score: CQ Magazine trophy. Won by: **Bavarian Contest Club**

On 15 meters, YW4D (YV1DIG, op) handily beat K3LR (N2NC, op). Stations from Kazakhstan (UN9GD), Slovenia (S50A), Serbia (YT6A), and Poland (SN5X) also "made the box" on 15 meters with multi-million point scores. The round-the-clock nature of 20 meters in the summertime found stations all around the world posting respectable scores, led by a couple of "alpha males" P40A and 4L8A. Half of the N6RO M/M team was unavailable so WA6O used the 20-meter station to place second in the U.S.A. to KJ3X/4, while Bob, K3EST, used the 15-meter position to place first in 15-meters assisted.

Even though the big multi-multi stations keep six frequencies in use, at least they only win one category! Just think: If all the M/M stations were broken up, there would be less wallpaper available for the rest of us.

Single-Operator Low Power

The most popular category by far remains the single-operator unassisted low power all band. P44W (W2GD, op) duked it out with PJ2T (W19WI), with W2GD -- last year's USA QRP champ -- triumphing over last year's world-wide QRP champ, Jim, W19WI. As in 2012 and 2013, W3EF beat out N5AW for U.S.A. bragging rights. This is the fourth straight runner-up finish for Marv, N5AW. Kazu, M0CFW, traveled to MJ5Z to repeat in Europe.

You can have a lot of high-powered fun running low power on a single band. The single-band categories enable competitors to tailor their activity to fit their individual operating time and station capabilities. LO5D (LU8EOT, op) had the highest 10-meter score, regardless of power. D3AA, last year's 15-meter winner, won on 20 meters while CN8KD, last year's 20-meter winner, took home the plaque on 15. The top five low-power stations on 40 would have placed in the top 10 high power, while the leading scores on 80 and 160 would all have placed in the top five high-power scores.

Single-Operator Assisted

Over 1,300 entries reported using QSO alerting assistance. Worldwide, EA8RM repeated as all band high power assisted, this time using the callsign EF8U, while NY3A was tops in the U.S.A. A lot of action took place in the assisted single band categories as well. PY2EX smoked the competition for 10-meter honors, while countryman PX2X (PY2EL, op) led the crowded 15-meter field. All other assisted single band champions were located in Europe:



Photo B. IT9BLB SOA 15 meters and IT9VDQ SOA 10 meters shared the IB9T/IR9Y contest QTH, en route to top 10 performance.



Photo C. The UA7K M/2 team (R6KA, UT5EO, UU4JMG, and UB7K).

S57AW on 20, IKØYVV on 40, S566ØR (S56M, op) on 80, and SP1GZF on 160. (Photo B)

PY1NX took first place in the all band low power assisted in the world. PR3A (PY3OZ) move was king of 10-meter low power assisted, while MWØEDX on 15 meters, SN8N (SP8HZZ, op) on 20 meters, S56A on 40 meters, YO5LD on 80 meters, and YU2A on 160 meters were the remaining LP assisted winners.

Single-Operator QRP

Over 300 hardy individuals used 5 watts or less compared with 262 during the recent SSB weekend. HG3M (HA3MY) was the world QRP champ while N7IR led the U.S.A. contingent. Six QRP stations had scores above 1 million points.

Overlay Categories

The Rookie overlay category was established to encourage recently-licensed hams to try the contest experience. This year, 59 entries checked this overlay category. Only 15 of the rookies entered an assisted category with most using low power or QRP. DK6SP was world high with 1.27 million using low power while KV4QS teamed up spotting assistance with his low power station to score 941,000 and take the North America plaque.

The Tribander/Single-Element overlay category recognizes that many stations face space constraints for antennas. Approximately 750 entrants selected this overlay. KP2AA (K3TEJ) had the top score, with NP2P (N2TTA) coming in second. Seems tribanders play well in the Virgin Islands. N4PN was again the leader among the U.S.A. Tribander/Single-Element competitors, this time using the NF4A callsign. S53F led the low-power, tri-band-wires crowd, while WD4AHZ had a fine 3 million score to pace the U.S.A. low-power group.

Multi-Operator

P33W narrowly beat their existing record in the Multi-Operator Single-Transmitter category, while P3N again gave them some stiff competition. NY4A repeated as the lead dog of the U.S.A. contingent.

9A7T won the inaugural plaque in the new Multi-Single Low Power category. KØAV was second worldwide, edging out W1UE/HR9 who was testing out a new QTH.

There was plenty of competition in the Multi-Operator Two-Transmitter category as well. PS2T again came in second, this time to ZF1A for overall bragging rights. KD4D/3 had the highest score of any U.S.A. multi-two station, beating last year's winner, NR3X/4. Several WRTC-bound teams took the opportunity to operate as a twosome before the July competition. Eventual WRTC champs N6MJ and KL9A operated NK7U for 24 hours going head-to-head against local WRTC competitors K7RL and KL2A at KW7Y. Other top WRTC teams took advantage of this contest to test their low-power M/2 setups; this included DL5MW with DL1IAO and K9VV with VE3EJ. Both of these teams placed in the top five in New England's WRTC. (Photo C)

It may be hard to staff a full-fledged, multi-multi operation as summer approaches and the weather seems so nice, but 18 teams took up the challenge. ES9C beat last year's champs, 9A1A, and set a new record for the number of multipliers worked in the contest. NQ4I took stateside honors, with K9CT posting a fine score from the Midwest.

Club Competition

The same clubs led the list this year as last year, but the point totals were considerably higher than last year. The Bavarian Contest Club's impressive total score of nearly 375 million points built up from 235 club logs, 10 fewer logs than last year. The Potomac Valley Radio Club's 137 logs totaled 250 million points, also up substantially.

Records

Even though there was a lower overall level of activity, the increase in the number of multipliers available resulted in several new records: P33W (World M/S), CS2C (Europe 14 MHz), KC3R (USA All Band), K3LR (North America 21 MHz), 5W1SA (Oceania 28 MHz), ZF1A (North America M/2), and ES9C (Europe M/M). Records for all of the various categories and countries can be found at < www.cqwp.com/records.htm >.

Miscellaneous Statistics

Low power entries were submitted by 2,127 single operator stations, a slight increase over last year, while 1,223 used higher power and 328 went QRP, both categories down from a year ago. Overall, unassisted operation was still favored by a nearly two to one margin, 2,350 to 1,328. High-power stations narrowly favored unassisted (620 vs. 603) while low-power operators overwhelmingly endorsed the "boy and his radio" style of operation (1,487 unassisted vs. 640 assisted)

and the QRP ops voting 243 to 85 for the unassisted style of operation. Even rookies were three times more likely to be operating without than with assistance. The proportions of operators making these various "style" choices were very similar to those in the SSB weekend.

Corrections to previous write-ups

A few corrections to my previous WPX write-ups are in order. First, for the 2013 CW WPX plaques, there were two omissions and one busted call. The busted call was that the CQ WPX Contest Triathlon Award was won by VE3DZ who used 6Y2T, VE3DZ, and VP9FOC in the three events.

The two omitted plaques were the World 7 MHz: LZ2RF Memorial (OR2F sponsor) Trophy, won by John Laney, K4BAI, operating PJ4A; and the Multi-Operator, Single Transmitter North America plaque in memory of Nusret Abadzic E73N (Bosnia and Herzegovina Contest Club sponsor) won by PJ6A, operated by G3SXW, K4UEE, VE7CT, and W6IZT.

I also busted the callsigns of the sponsor and winner of the 2013 SSB WPX USA Rookie plaque. The sponsor is Joe Cazzalino, WX4CAZ, and the winner is Walter Haumesser, KA4SFD. Thanks to all of the plaque sponsors and congratulations to all the winners.

Final Observations

Unfortunately, a number of stations who would have won certificates submitted their logs after the five-day deadline spelled out in the rules. Logs received after the official deadline are shown in italics in the line scores and are not eligible for any awards.

Speaking of rules, there didn't seem to be too many complaints about stations not identifying often enough. Thank you for your cooperation. On the topic of unsportsmanlike conduct, Rule XIII A.5 refers to "signals with excessive bandwidth (e.g., splatter, clicks) or harmonics on other bands." If your signal is 10-dB stronger than other stations, your signal needs to be 10-dB cleaner. Whether you like it or not, contesters, as a byproduct of our seeking to be readily heard by other stations, serve as role models to other amateurs, and indeed to all observers of our spectrum.

There are a number of volunteers who make running and reporting the contest possible. The software support from K1EA and K5TR is more important than ever with the rapid log adjudication

cycle. WI9WI, K3WW, and K5ZD helped provide the skilled analysis of the logs that computers alone cannot provide. Doug, K1DG, handles the plaques, while Barry, W5GN, prints and mails your certificates, both in a very timely manner. Paper logs were manually entered by WU9D, KD9MS, KJ9C, K9ZM, KM9M, and N4TZ. K5ZD runs

and improves the already outstanding CQ WPX website and helps with almost every part of running the contest.

The 2015 CQ WPX CW Contest will be held **May 30-31**. The log deadline is five days after the conclusion on the contest, **June 5 at 2359Z**. Updated rules will be published in the February issue of *CQ* and will be posted on the website.

CQ World-Wide WPX CW Contest All-Time Records

The contest is held each year on the last full weekend of March. The All-Time Records will be updated and published annually. Data following the calls: year of operation, total score, and number of prefix multipliers..

WORLD RECORD HOLDERS			U.S.A. RECORD HOLDERS		
Single Operator			Single Operator		
1.8	IH9/OL5Y('98)	341,068	1.8	WV8JR('07)	56,760
3.5	TM5Y('08)	1,983,366	3.5	W3BGN('08)	641,092
7.0	3V8CB('10)	10,758,020	7.0	KG1D('04)	3,681,828
14	UP2L('09)	7,928,886	14	N2NC('06)	5,418,630
21	HK1R('13)	8,337,384	21	K3LR('14)	5,887,365
28	ZX5J('02)	6,787,440	28	WW4M('01)	2,547,046
AB	EF8M('12)	19,538,250	AB	KC3R('14)	11,389,710
LP	P49Y('11)	11,008,296	LP	W3EF('12)	5,704,362
QRP	P4ØW('97)	4,018,208	QRP	N2WN/4('12)	1,686,608
Assisted	6Y3W('12)	12,916,100	Assisted	NY3A('12)	9,923,563
Multi-Operator Single Transmitter			Multi-Operator Single Transmitter		
P33W('14)		33,405,756	KM3T/1('12)		15,311,340
Multi-Operator Two Transmitter			Multi-Operator Two Transmitter		
PW7T('12)		34,156,451	NN3L('12)		21,964,974
Multi-Operator Multi-Transmitter			Multi-Operator Multi-Transmitter		
HC8N('99)		54,697,072	NR4M('12)		26,785,984
CLUB RECORD					
Bavarian Contest Club ('12)441,610,686					
CONTINENTAL RECORD HOLDERS					
AFRICA			SOUTH AMERICA		
1.8	IH9/OL5Y('98)	341,068	1.8	HK1MW('11)	18,300
3.5	7X0RY('08)	1,701,260	3.5	YX3A('89)	1,004,060
7.0	3V8CB('10)	10,758,020	7.0	PJ4A('13)	8,744,862
14	6W1SJ('09)	6,755,364	14	HK1X('11)	7,254,266
21	5X1Z('01)	6,362,352	21	HK1R('13)	8,337,384
28	ZS4TX('01)	4,602,028	28	ZX5J('02)	6,787,440
AB	EF8M('12)	19,538,250	AB	PJ4A('11)	16,272,730
ASIA			MULTI-OPERATOR SINGLE TRANSMITTER		
1.8	4X4NJ('96)	259,420	AF	CQ3A('11)	26,093,210
3.5	TAØ/Z33F('02)	1,452,552	AS	P33W('14)	33,405,756
7.0	ZC4LI('10)	4,770,336	EU	ES9C('12)	17,760,738
14	UP2L('09)	7,928,886	NA	8P4A('02)	18,516,960
21	A45XR('99)	6,557,697	OC	AH2R('01)	11,541,420
28	HZ1AB('02)	3,669,994	SA	P49V('01)	19,760,744
AB	4LOA('09)	12,560,363	MULTI-OPERATOR TWO TRANSMITTER		
EUROPE			AF	EF8M('07)	33,324,192
1.8	SN7Q('08)	339,542	AS	UP2L('13)	26,207,251
3.5	TM5Y('08)	1,983,366	EU	TM6M('13)	22,126,482
7.0	CT1JLZ('09)	6,075,936	NA	ZF1A('14)	28,994,049
14	CS2C('14)	5,550,012	OC	KH6LC('12)	17,095,460
21	CR1X('12)	7,293,280	SA	PW7T('12)	34,156,451
28	9HØA('01)	3,965,315	MULTI-OPERATOR MULTI-TRANSMITTER		
AB	CR2X('11)	10,498,800	AF	CQ3L('10)	28,736,154
NORTH AMERICA			AS	A61AJ('02)	42,766,232
1.8	VA1A('99)	103,680	EU	ES9C('14)	34,805,664
3.5	FM5BH('97)	833,490	NA	6Y2A('02)	38,821,328
7.0	V26BA('97)	6,227,550	OC	ZL6QH('04)	16,143,840
14	N2NC('06)	5,418,630	SA	HC8N('99)	54,697,072
21	K3LR('14)	5,887,365	QRP		
28	FM5GU('01)	2,849,769	AF	5Y4FO('92)	649,057
AB	VY2TT('12)	14,249,235	AS	ZC4BS('02)	2,515,388
OCEANIA			EU	LY5A('01)	2,331,414
1.8	KH6ND('07)	22,100	NA	T15X('01)	2,568,470
3.5	KH6ND('09)	596,673	OC	FØ8JP('86)	572,131
7.0	ZM3A('09)	6,437,695	SA	P4ØW('97)	4,018,208
14	KH6ND('03)	4,126,690			
21	KH6ND('99)	6,107,256			
28	5W1SA('14)	1,653,260			
AB	NH2T('12)	11,438,122			

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Two-position antenna switch, 2,000 memories that store tuning parameters for almost instantaneous memory recall whenever you transmit on or near a frequency you've used before. Includes six-foot DC power cable.

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Optional M-600 external analog meter \$129.99



AT-1000Proll

1KW tuner features: 5 to 1,000 Watts PEP; RF Sensing; Auto and Semi Tuning Modes; 1.8 to 54 MHz range; 6 to 800 ohm range (15 to 150 on 6M); simplified operation; Two position antenna switch, 2,000 memories.

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Optional M-1000 external analog meter \$129.99



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W1NN Wins N6ZZ Memorial DXpedition Plaque

Hal Offutt, W1NN, won the N6ZZ Memorial DXpedition plaque to remind him of the great time he had operating as SV9/W1NN/P (Photo D). This portable operation was from a rental house on the northern coast of Crete. All equipment and antennas were transported to the temporary QTH in two suitcases. The house was about 300 feet from the water — just a little too far to put verticals at the water's edge. He began the contest with an inverted L but felt weak during the night on 40 meters, where his location should have him performing well. Saturday morning he took some off time to build a G5RV on a homemade mast about 100 feet from the beach which worked much better. "In addition to the anten-



Photo D. SV9/W1NN/P enjoys his morning coffee.

na problems the first night, QRN was bad on the low bands so 74% of my 1,746 contacts were lower-point QSOs on the high bands, holding down the overall score. Nonetheless, it was wonderful to gaze at the deep blue Mediterranean while operating one of my favorite contests." (Photo E)



Photo E. SV9/W1NN/P used this G5RV antenna overlooking the Mediterranean.

2014 WPX CW CLUB SCORES

United States		
Club	# Entrants	Score
POTOMAC VALLEY RADIO CLUB.....	137	250,770,470
NORTHERN CALIFORNIA CONTEST CLUB.....	67	142,572,409
FRANKFORD RADIO CLUB.....	62	136,478,857
SOCIETY OF MIDWEST CONTESTERS.....	71	112,934,204
YANKEE CLIPPER CONTEST CLUB.....	76	104,524,542
FLORIDA CONTEST GROUP.....	56	75,734,482
SOUTH EAST CONTEST CLUB.....	20	65,954,930
GEORGIA CONTEST GROUP.....	7	43,711,453
DFW CONTEST GROUP.....	36	43,161,154
ARIZONA OUTLAWS CONTEST CLUB.....	57	42,903,713
NORTH COAST CONTESTERS.....	16	38,046,380
MAD RIVER RADIO CLUB.....	16	30,049,079
CENTRAL TEXAS DX AND CONTEST CLUB.....	19	26,753,050
NORTH TEXAS CONTEST CLUB.....	8	25,468,487
HUDSON VALLEY CONTESTERS AND DXERS.....	16	24,511,187
ALABAMA CONTEST GROUP.....	26	22,151,411
SOUTHERN CALIFORNIA CONTEST CLUB.....	36	19,607,492
TENNESSEE CONTEST GROUP.....	28	18,976,590
MINNESOTA WIRELESS ASSN.....	32	15,022,319
ROCHESTER (NY) DX ASSN.....	9	13,537,030
WILLAMETTE VALLEY DX CLUB.....	25	13,425,521
MOTHER LODE DX/CONTEST CLUB.....	17	10,749,436
KANSAS CITY CONTEST CLUB.....	13	10,664,170
GRAND MESA CONTESTERS OF COLORADO.....	15	10,510,628
CTRI CONTEST GROUP.....	9	8,655,785
TEXAS DX SOCIETY.....	5	8,580,466
BOZINGA DX AND CONTEST CLUB.....	6	6,784,725
CAROLINA DX ASSOCIATION.....	6	4,931,472
CONTEST CLUB CALIFORNIA PENINSULA.....	11	4,291,623
LOUISIANA CONTEST CLUB.....	9	4,259,361
SPOKANE DX ASSOCIATION.....	12	4,189,151
ORDER OF BOILED OWLS OF NEW YORK.....	5	2,685,472
ALLEGHENY VALLEY RADIO ASSOCIATION.....	5	2,300,898
HILLTOP TRANSMITTING ASSN.....	8	2,235,036
MISSISSIPPI VALLEY DX/CONTEST CLUB.....	6	2,181,958
BRISTOL (TN/VA) ARC.....	7	1,981,764
BERGEN ARA.....	4	1,691,337
NIAGARA FRONTIER RADIOSPORT.....	8	1,478,885
SHENANDOAH VALLEY WIRELESS.....	7	1,242,164
METRO DX CLUB.....	8	863,882
WEST PARK RADIOPS.....	8	772,662
SKYVIEW RADIO SOCIETY.....	6	551,245
UTAH DX ASSOCIATION.....	6	477,379
BADGER CONTESTERS.....	4	420,307
STERLING PARK AMATEUR RADIO CLUB.....	4	389,662
GREAT SOUTH BAY AMATEUR RADIO CLUB.....	5	382,860
NE MARYLAND AMATEUR RADIO CONTEST SOCIETY.....	5	340,961
SWAMP FOX CONTEST GROUP.....	4	242,275
BRAZOS VALLEY AMATEUR RADIO CLUB.....	7	226,820
MILFORD OHIO AMATEUR RADIO CLUB.....	4	226,047
DX		
BAVARIAN CONTEST CLUB.....	235	375,011,915
RHEIN RUHR DX ASSOCIATION.....	134	232,681,776
ITALIAN CONTEST CLUB.....	45	223,753,435
ARAUCARIA DX GROUP.....	61	182,173,108
CROATIAN CONTEST CLUB.....	50	175,885,819
LU CONTEST GROUP.....	46	169,920,967
EA CONTEST CLUB.....	47	154,150,686
SLOVENIA CONTEST CLUB.....	38	125,105,303
CONTEST CLUB FINLAND.....	44	117,546,439
CONTEST CLUB SERBIA.....	73	114,099,836
URAL CONTEST GROUP.....	29	112,820,891
HA-DX-CLUB.....	19	106,205,702
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB.....	46	99,449,763
UKRAINIAN CONTEST CLUB.....	81	98,767,163
CONTEST CLUB ONTARIO.....	61	97,883,727
ORCA DX AND CONTEST CLUB.....	26	86,065,415
SP DX CLUB.....	57	82,432,454
BLACK SEA CONTEST CLUB.....	71	63,894,856
RUSSIAN CONTEST CLUB.....	28	52,867,007
LATVIAN CONTEST CLUB.....	33	50,902,825
WEST SERBIA CONTEST CLUB.....	7	46,232,556
WORLD WIDE YOUNG CONTESTERS.....	14	37,657,933
VK CONTEST CLUB.....	26	36,844,148
BELOKRANJEC CONTEST CLUB.....	12	34,848,253
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB.....	13	34,809,728
BOSNIA AND HERZEGOVINA CONTEST CLUB.....	17	32,319,779
BELARUS CONTEST CLUB.....	23	31,931,030
RIO DX GROUP.....	30	31,569,837
SOUTH URAL CONTEST CLUB.....	18	29,774,982
CLIPPERTON DX CLUB.....	8	27,432,976
CHILTERN DX CLUB.....	9	20,624,728
DXARC DX COLOMBIA AMATEUR RADIO CLUB.....	4	15,839,864
CDR GROUP.....	7	14,590,774
RADIO CLUB VENEZOLANO CARACAS.....	6	14,092,574
LA CONTEST CLUB.....	13	13,585,062
LES NOUVELLES DX.....	5	13,493,183
CE CONTEST GROUP.....	7	12,612,929
RUSSIAN CW CLUB.....	41	12,528,533
THREE A'S CONTEST GROUP.....	4	11,799,659
GUARA DX GROUP.....	16	11,722,221
SKY CONTEST CLUB.....	4	11,188,073
599 CONTEST CLUB.....	4	11,130,566
SIAM DX GROUP.....	6	10,328,624
IRKUTSK RADIO CLUB.....	7	9,711,436
CSTA BUCURESTI.....	7	9,537,404
CONTEST GROUP DU QUEBEC.....	10	9,531,495
CENTRAL SIBERIA DX CLUB.....	6	9,449,568
CENTO DX TEAM.....	4	9,256,976
NOVOKUZNETSK RADIO CLUB.....	14	8,604,974
THRACIAN ROSE CLUB.....	23	8,345,476
SRR.....	5	8,152,328
YB LAND DX CLUB.....	28	7,818,488
DONBASS CONTEST CLUB.....	23	7,751,846
DANISH DX GROUP.....	13	7,630,350
UA2 CONTEST CLUB.....	6	7,517,949
RADIO AMATEUR ASC. OF WESTERN GREECE.....	4	7,480,027
ARCK.....	14	7,414,809
ALRS ST PETERSBURG.....	11	7,217,996
VU CONTEST GROUP.....	13	7,002,983
SHAKHAN CONTEST CLUB.....	5	6,643,367
YO DX CLUB.....	16	6,458,853
VRHNIKA CONTESTERS.....	8	6,330,355
PODOLSK.....	4	6,024,295
URE*.....	10	5,990,593
SAMARA RADIO CLUB.....	6	5,981,229
MARITIME CONTEST CLUB.....	12	5,954,316
CSM CRAIOVA.....	4	5,313,809
OMSK RADIO CLUB.....	6	5,200,939
CATALONIA CONTEST CLUB.....	6	5,105,071
CSM BAIJA MARE.....	4	5,104,878
SAUDI CONTEST GROUP.....	7	5,006,557
TEMIRTAU CONTEST CLUB.....	5	3,485,399
RU-QRP CLUB.....	16	3,222,977
LITHUANIAN CONTEST GROUP.....	5	3,197,155
RADIO CLUB PARMA.....	5	3,049,115
VERENIGING VAN RADIO ZEND AMATEURS.....	6	2,982,577
MEDITERRANEO DX CLUB.....	13	2,952,919
LIPETSK RADIO CLUB.....	4	2,901,131
SP CONTEST CLUB.....	7	2,656,341
R4F-DX-G.....	6	2,467,446
DARC*.....	16	2,400,008
PZK*.....	4	2,391,892
RADIO CLUB HENARES.....	4	2,202,286
DELARA CONTEST TEAM.....	4	2,092,285
BARIVM DX TEAM.....	11	2,035,061
SARATOVSKAYA OBLAST RADIO CLUB.....	8	1,947,444
MERIDEN ARC.....	4	1,928,847
GIPANIS CONTEST GROUP.....	4	1,887,752
VITEBSK CONTEST CLUB.....	4	1,824,182
CS PETROLUL PLOIESTI.....	4	1,684,570
UNIVERSITY OF TOKYO CONTEST CLUB.....	5	1,637,524
RCWC.....	6	1,371,526
PERUGIA CONTEST CLUB.....	4	1,343,340
EPC.....	4	1,342,950
ADMIRA ARAD.....	5	1,289,976
TURKISH SPECIAL WIRELESS ACTIVITY TEAM.....	5	1,259,232
BASHKORTOSTAN DX CLUB.....	5	1,180,072
MONGOLIA DX CLUB.....	6	1,136,317
CHELTHENHAM AMATEUR RADIO ASSOCIATION.....	4	898,649
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NEW MOSCOW DX CLUB.....	5	618,710
ARI.....	4	577,336
ARKTIKA.....	4	573,345
KOREA CONTEST CLUB.....	5	545,814
SPEKTR.....	5	540,500
MOSCOW RADIO CLUB.....	5	490,588
SOUTH GERMAN DX GROUP.....	4	452,960
CHILEAN PACIFIC DX GROUP.....	8	382,011
DELTA JANDARMI ASSOCIATION TULCEA.....	4	374,110
CWJF GROUP.....	4	370,796
WYTHALL RADIO CLUB.....	5	330,635
VERON*.....	5	241,136
SPORT CLUB MIERCUREA-CIUC.....	4	232,429
EDIT14.....	5	231,693
RADIO CLUB KVARNER RIJEKA.....	5	221,579
NANAIMO AMATEUR RADIO ASSOCIATION.....	4	211,205
TURKISH CONTEST TEAM TC3T.....	6	169,767
PHILIPPINE AMATEUR RADIO LEAGUE*.....	4	165,712
SOUTH GERMAN DX GROUP.....	4	152,960
DELTA JANDARMI ASSOCIATION TULCEA.....	4	374,110
CWJF GROUP.....	4	370,796
SPORT CLUB MIERCUREA-CIUC.....	4	232,429
NANAIMO AMATEUR RADIO ASSOCIATION.....	4	211,205
BITTERN DX GROUP.....	3	817,488
YB LAND DX CLUB.....	5	619,059
CSM CLUJ-NAPOCA.....	3	542,862
IVANOVO DX CLUB.....	4	431,188
PERUGIA CONTEST CLUB.....	6	423,665
UNIVERSITY OF TOKYO CONTEST CLUB.....	3	243,804
RU-QRP CLUB.....	4	205,682
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NM5M3,786,237
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K3EST/62,845,004
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W3KB2,214,270
NE5LL (N1CC)1,578,808

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K5RX7,993,604
NQ2F7,507,592
KC4D5,158,528
KR2T5,022,134

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K0AV3,923,360
KK5J1,327,088
WA4NZD200,860

Multi-Two

KD4D/318,242,900
NR3X/417,583,720
AD4Z16,698,000
WW4LL14,254,032
NA2U/79,873,058
WQ6X8,838,492

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K9CT19,682,880

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AB3TM105,105
KK4HEG83,482
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N3QE4,503,600
K3MD3,539,332
NK4A (NF4A)3,293,199
AB3CV2,688,642

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WR9D (KB9UWU)1,661,127
WK7S (K6LL)1,043,675
KZ5J718,340

Single Op 14 MHz High Power

KN7T1,655,640
KX0A (K9DU)602,616

Single Op 7 MHz High Power

KZ5AA/4 (K4VU)385,581
W3YY/4258,720
NX4N127,257

Single Op 3.5 MHz High Power

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WD4AHZ3,030,698
N1EN2,282,892
K8BL1,549,866
K3IE/41,126,664
N2UU927,463
NA5NN (W5UE)868,205

Single Op 28 MHz Low Power

WE6EZ/513,608

Single Op 21 MHz Low Power

NN3U/4 (N4GU)116,208
W9IL/453,268
N7RVD54,932

Single Op 14 MHz Low Power

W8IQ532,507
AB1J487,625
NJ3K335,472

Single Op 7 MHz Low Power
WN4AFP163,155
K0PK139,748

Single Op 7 MHz High Power
S51F3,113,792
HA8JV3,031,656
IV3SKB1,994,240

Single Op 14 MHz Low Power
HA60A1,262,940
DL9ZP1,106,136
HA8Y1,020,000

S50P334,304
UX1VT210,870

Multi-Multi
ES9C34,805,664
9A1A31,679,550
LZ9W27,710,146
LY7A16,745,210
DM4X15,060,728
SN150SZ6,645,689

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UZ2M (UR0MC)9,447,798
9A8WW (S55M)8,616,375
UA5C8,579,400
RW1A8,353,415
YT6W8,147,838
YT9X (YU1ZZ)7,303,296

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YT4A (YT1AA)686,799
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LY5I434,808
SP4GL321,044

Single Op All Band QRP
HG3M (HA3MY)1,802,986
UJ2CW1,455,021
IZ8JFL/11,263,845
TM3T (F5VBT)1,248,480
UA7G1,109,619
DF5RF1,074,600

Single Op All Band Low Power
DK6SP1,272,888
EU6ML946,608
R04A (R4AAT)894,874
DM3ZM682,925
E13MMB391,104
DL2IC273,546

Single Op 21 MHz High Power
S50A4,435,580
YT6A4,299,178
SN5X (SP5GRM)4,297,158

Single Op All Band Low Power
MJ5Z (JK3GAD)4,604,650
YT8A (YU1EA)4,355,561
LY6A3,703,784

Single Op 1.8 MHz Low Power
OK1JOK35,941
E75A25,620
ER2RM24,038

Single Op 28 MHz QRP
LZ2RS159,500
Z35F91,168
HA3HX58,962

Single Op 21 MHz Low Power
UA3XAO693,525
IT9CLN496,799
EW170178,350

Single Op 14 MHz High Power
CS2C (OK1RF)5,550,012
YL3FT3,592,270
S53X3,031,735

Single Op 21 MHz Low Power
LY801,744,470
IF9/IT9PPG1,394,680
OK3C (OK2ZC)1,275,012

Single Op All Band High Power Assisted
SN7010,248,280
OM3GI9,871,818
S53MM9,477,326
LZ8E (LZ2BE)9,361,072
YP9W (Y09WF)8,638,650
EF2A (EA2AYD)8,102,220

Single Op 21 MHz QRP
HA1ZZ246,750
S51Z156,348
SP4FGF154,012

Single Op 7 MHz Low Power
E77CW45,375

Single Op 14 MHz QRP
PG2AA367,638
HG2ORP289,520
UX5UU255,942

Single Op 28 MHz High Power Assisted
9A5Y (9A3NM)1,394,424
IT9VDQ1,322,100
IQ7AF (IK7JWV)1,278,200

Single Op 7 MHz QRP
OM2ZA364,364
OK1FKD231,825
UX7UW223,270

Tribander/Single Element
Single Op All Band High Power
TM77M (F5MUX)6,542,502
RJ4P6,443,736
EV1R4,971,105
LY7Z4,657,048
E77W4,062,960
OM7RU4,036,860

Single Op 21 MHz High Power Assisted
HG3R (HA3NU)4,949,140
OK1FFU4,528,854
RU7M (R7LV)4,331,594

Single Op 3.5 MHz QRP
UA3TW85,540
UT5UUV68,510
UT5DJ24,592

Single Op 28 MHz High Power
EO1I (UT1IA)383,306

Single Op 14 MHz High Power Assisted
S57AW5,571,072
OK8NM (OM6NM)4,683,120
RT5Z (RA3CW)4,494,990

Single Op 1.8 MHz QRP
9A4DC4,092
RA2FB1,404

Single Op 21 MHz High Power
S51NZ2,020,333
M3I (G0ORH)1,074,460
EF1A (EA1XT)1,036,346

Single Op 7 MHz High Power Assisted
IK0YVW2,629,923
S56X2,495,976
RL5A1,997,970

Single Op All Band QRP Assisted
RA3AN1,461,662
OU2M (DK3WE)1,382,876
RZ3QS813,392

Single Op 14 MHz High Power
G8DX4,039,660
UA1AFT2,150,517
IO3X1,513,044

Single Op 3.5 MHz High Power Assisted
S5660R (S56M)816,732
EW8DJ666,500
YT6T (YU7CM)328,680

Single Op 28 MHz QRP Assisted
IDJ6OT88,168
DJ0MY16,328

Single Op 7 MHz High Power
IK0YVW2,629,923
IV3SKB1,994,240

Single Op 1.8 MHz High Power Assisted
SP1GFZ102,483
UR5WA89,573

Single Op 21 MHz QRP Assisted
IK6FWJ691,119
HG10CC (HA3JB)464,901
II4K240,426

Single Op 3.5 MHz High Power
YT4A (YT1AA)686,799
EW8DJ666,500
YT6T (YU7CM)328,680

Single Op All Band Low Power Assisted
IO4T (IK4VET)6,076,347
S53F4,985,906
UX4U (US7UX)4,432,764
9A1AA4,279,058
LY3B4,251,637
UT4LW3,653,124

Single Op 14 MHz QRP Assisted
F/E73CQ (E73CQ)464,070
9A/S53V (S53V)326,655

Single Op 1.8 MHz High Power
E71A162,960

Single Op 28 MHz Low Power Assisted
LZ4T (LZ4TL)1,243,288
I0UZF653,940
HA3DX (HA3UU)405,657

Single Op 7 MHz QRP Assisted
YU1LM685,860
9A2U (9A3ZA)626,221
S51DX135,072

Single Op All Band Low Power
S53F4,985,906
9A1AA4,279,058
UT4LW3,653,124
SN70 (SP7IVO)3,479,986
S52W2,866,590
UA5B2,523,888

Single Op 21 MHz Low Power Assisted
MW0EDX3,437,278
HG5D (HA8QZ)2,539,653
UX1AA2,233,088

Single Op 3.5 MHz QRP Assisted
S55W (S50XX)135,366

Single Op 28 MHz Low Power
Z39A298,242
EF5R (EA5BWR)161,100
Y02IS110,628

Single Op 14 MHz Low Power Assisted
SN8N (SP8HZ)2,017,081
YU6IM1,994,080
IT9/OL9R (OK6RA)1,673,683

Single Op 1.8 MHz QRP Assisted
OL1A (OK1CW)36,068

Single Op 21 MHz Low Power
MW0EDX3,437,278
IF9/IT9PPG1,394,680
RU450787,472

Single Op 7 MHz Low Power Assisted
S56A2,391,074
DF1LX1,320,775
OK1AY912,896

Multi-Single High Power
OM7M13,115,328
SP8R11,219,868
OL3Z10,334,460
HGN9,997,190
ED7W9,920,988
YR1C9,516,780

Single Op 14 MHz Low Power
IT9/OL9R (OK6RA)1,673,683
S54X1,417,080
YT2AAA1,389,718

Single Op 3.5 MHz Low Power Assisted
Y05LD383,782

Multi-Single Low Power
9A7T5,901,165
DL1NKS1,498,720
4U1VIC436,182
EH2OLA358,938
Y06KNY343,026
IB5T333,207

Single Op 7 MHz Low Power
DF1LX1,320,775
E77R1,315,080
UT5IA1,257,149

Multi-Two
II9P21,792,904
LX7I20,370,690
YU5R19,092,150
HG7T19,005,000
UA7K17,842,425
DR4A17,366,970

Single Op 3.5 MHz Low Power
S54A453,870
Y05LD383,782
SP4GL321,044

Single Op 1.8 MHz Low Power
HA5NB41,216
ER2RM24,038

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