



Chris, 9Y4D, placed third in the world on 14 MHz.



Stig, HS0ZGD, placed second in the world low power 14 MHz.



Joe, AA3B, took fifth place Assisted in the U.S.

Results of the 2008 CQ WW DX SSB Contest

BY BOB COX,* K3EST

The 2008 CQ WW DX SSB Contest occurred with the solar flux about as low as it can get. Conditions were predicted to be a challenge. To alleviate months of flat solar flux, the suggested solution was "Enter the CQ WW SSB Contest and help cure band conditions." Once again, the CQ WW made its own propagation. As KØIP said, "Wow! Zero sunspots, what a contest." As has been mentioned before, the CQ WW is a fantastic competition which brings out the best in amateur radio: team work, station construction, antenna design, propagation knowledge, and operating skills. Just turn on your radio and you can join in the fun. Once you listen to the bands during the CQ WW, you will be hooked. You can be guaranteed to have a good time.

With solar conditions on the decline, contesters of all ages from every corner of the world turned on their radios and were surprised when the bands sprung to life. The CQ WW is a celebration of ham radio skill and effort. Thousands of hams throughout the world received their first ham radio thrill in the CQ WW. New hams and old who try the CQ WW become addicted. GM2T's comments sum up the wonderful challenge the CQ WW brings to new and experienced operators: "We had three new license holders who had never ever taken part in any contest in their lives before. One of the Foundation license holders, MM3ZTP, age 14 years, took to it like a duck to water and was soon running pile-ups like a seasoned professional. This is what it is all about, seeing the young ones really enjoying the fun. The other two new hams after being initially over-awed soon got themselves into the swing of operating, great to see."

After all the logs were counted, an amazing number emerged: 5021 received entries. Below are presented the results of the efforts of the entrants. If you want to know how long it is until the 2009 CQ WW SSB test check out the website of OT5A: <<http://www.on7lr.org>>. Read on to see how you and your friends ended up. Everyone who operated the 2008 CQ WW was a winner.

High Power

The top spot in this difficult category went to an operator familiar with winning the CQ WW. Rich, N6KT, put his considerable skill to work talking HC8A to the world high score. HC8A sits on the side of a dormant volcano on San Cristobal Island, and Rich took full advantage of the location and propagation to find the path to top honors. Second place world and the top European score for several years running was Toni, OH2UA, operating from CU2X. Third place went to several-time world winner Tom, W2SC, operating 8P5A from beautiful Barbados. Taking second place in Europe and sixth in the world was Tonno operating from his super station, ES5TV. From Crete, Ben, DL6FBL, took his host's station, SV9CVY, to third place in Europe and seventh in the world. In the U.S., the competition from the northeast was fierce. Randy, K5ZD, did his usual fabulous job and took top honors! What a great operator and score. Krassy, K1LZ, put his considerable skills to work and took U.S. second place. Doug, K1DG, took third place from his Maine island QTH. Other worthy efforts from propagationally challenged areas which should be mentioned were those of DU9DG, VK4CZ, K7RL, N6TJ, KH6LC (N6GQ), and BA4RF.

The continental winners were: North America: 8P5A (W2SC); Africa: 6W1RY (F5VHJ); Asia: 5B4AII (RW3QC); Europe:



Special event station EE9E.

CU2X (OH2UA); Oceania: 9M8Z (9M6DXX); South America: HC8A (N6KT); Japan: JH4UYB; U.S.: K5ZD/1.

Low Power

The low power category means a transceiver and an antenna. Many people have a transceiver running 100 watts, and anyone can enter the low power category. This means that this category has the most entrants of any CQ WW category. It is a challenge to end up on the top scores list.

John, KK9A, operating as P40A, continues to take home the world high trophy. Operating from beautiful Aruba, John again took away top world low power trophy. Four years in a row is quite an achievement, John! Second place went to Ted, HI3TEJ, using his contest call, HI3T. Third place in the world was KP4KE operated by Barney, DK8ZB. CT8K operated by José, CT1CJJ took first place in Europe. This is the fourth year in a row that José took the plaque. Congratulations, José! Second place Europe went to low power champion Zlatko, 9A2EU. Taking Europe third place was Lorenzo, IZ2FOS, operating from northern

*e-mail: <k3est@cqww.com>

Italy. In the U.S., we had a repeat winner from 2007, Art, K1BX. Great operating, Art! Second place went to Ed, N1UR, who finishes on or near the top almost every time. Third place U.S. went to Terry, N4TZ/9, from Indiana. SU1KM (N5ZO), 5Z4/RW1AU, V51YJ, ST2NH, BD1ND, AU2RSB, OD5NJ, 7Z1SJ, HSØZHC, UK8AKK, YB1TJ, and DV1JM all had excellent scores from interesting locations.

The continental winners were: North America: HI3T (HI3TEJ); Africa: SU1KM (N5ZO); Asia: HSØZHC; Europe: CT8K (CT1CJJ); Oceania: DV1JM; South America: P40A (KK9A); Japan: JA7LMZ; U.S.: K1BX.

QRP

The CQ WW offers a contester a very good opportunity to work rare DX which would otherwise prove elusive. The QRP category sharpens your searching skills and the rewards are very satisfying. You can work a lot of stations with 5 watts or less.

Our world winner was Remi, LY8O. He traveled 100 km to his contest station to get away from line noise. Looks like it paid off, Remi. Long-time QRP'er, Doug, KR2Q, took second place world and first place U.S. from northern New Jersey. Third place world and number two Europe was Gerard, F5BEG. Second in the U.S., and repeating as the top score west of New Jersey, was Philip, NØKE. He also finished #9 in the world. Another dedicated QRP'er took third place in the U.S., Randy, NDØC. Third place in Europe went to Milan, OK2BYW. Special mention must be made of the fine score of Izuno-san, JR4DAH, #7 in the world and #1 in Asia. The top zone 3 score was submitted by NN7SS (K6UFO), followed closely by Bill, W8QZA, operating W6QU. JA2DLM, JA2MWV, YB2OK, VK4ATH, and PY2BN are to be congratulated for their outstanding efforts.

The continental winners were: North America: KR2Q; Africa: no entry; Asia: JR4DAH; Europe: LY8O; Oceania: YB2OK; South America: PY2BN; Japan: JR4DAH; U.S.: KR2Q.

Assisted

Use of a QSO spotting tool places you in the assisted category. The top assisted score in the world went to Philippe, LX7I. Philippe said: "Thanks for all who called me. Before the contest I never had imagined to make this great score." Dreams do come true! Second place world and number one in the U.S. was Dick, NN3W, who asks the questions on all our minds: "Good opening for me on 15 meters. 10 meters, where art thou?" Third place world went to ZX2B, the contest call of PY2MNL. Second place in Europe went to Salvatore, IK8UND, who put TK9R in a lot of logs. Third place in Europe went to Alex, YO9HP, operating his contest call, YR9P. Second place in the U.S. was taken by assisted category aficionado Charles, K3WW. Third place in the U.S. went to Jerry, WB9Z, in Illinois. The efforts of BA7NQ, UP2L, KG6DX, ZM1K (VK2IA), and T8IC (JK2VOC) made everyone happy.

The continental winners were: North America: NN3W; Africa: EC8AFM; Asia: RO9O (RZ9OO); Europe: LX7I; Oceania: KG6DX; South America: ZX2B (PY2MNL); Japan: JQ1BVI; U.S.: NN3W.

Multi-Single

The multi-single category is very competitive. The category attracts the second largest number of participants in the contest. Getting together with new and old friends for a weekend of never-ending QSOs is what multi-single is all about.

The top three winners from 2007 juggled places in the 2008 competition. Taking first place for two years in a row was the multinational team of CN3A. What a great job they did. Moving up to second place in the world was P33W. A team from the Radio Amateur Club of Kourou, operating as FY5YE on the French Guyana coast, came in third. Multi-single is very competitive within Europe. Doing a fine job and taking the top position was radio club F6KHM using their club call, TM6M. Second place went to the Romagna Contest Team, IR4M. Third place in Europe went to the Salgotarjani Varosi Radio Klub, HG6N. Not enough can be said about the great effort and win in the U.S. by NØNI. The team from Iowa took advantage of the rare propagational opportunity to beat all the East Coast stations and lead the pack from the Midwest. Ray's team at K9RS/3 took second place from eastern Pennsylvania. Third place went to Tom, K8AZ, located in the countryside of northeastern Ohio. W7VJ took top honors from the U.S. West Coast. Outstanding performances were turned in by many teams. Some of the rarer ones appearing in many logs were: 3DAØDJ, XU7MDY, AH2R, VU4MY, VU7SJ,

T32CXX, 9V1YC, A73A, B7P, 9K2HN, HSØAC, and VU2PAI.

The continental winners were: North America: VP5DX; Africa: CN3A; Asia: P33W; Europe: TM6M; Oceania: AH2R; South America: FY5KE; Japan: JA6ZPR; U.S.: NØNI.

Multi-Two

The multi-two category needs two stations manned nearly all the time and stations have to move skillfully as the propagation changes. Doing this smoothly takes a skilled crew. Reprising their win from 2007 was AO8A. The international group finished #1 in the world from the western Canary Islands. Taking second place in the world was 6Y1V. KY1V was joined by "Young Ham Contest Program Winner IZ7KHR, last year's winner LU9ESD, and three English hams, G3NKC, G4BUO, and G4XUM. This proved to be a great combination; everyone really enjoyed the experience." Third place went to the big DXpedition from the Rhein-Ruhr DX Association, CT9L. First place in Europe went to long-time top finisher, IR4X. The team has been having a good time on a mountaintop in central Italy for a very long time. Second place in Europe went to AM3SSB. Their signal sure was booming into the U.S. Third place in Europe went to the MTTOSZ Gyor Varosi Radio Klub, HG1S. The top two places in the U.S. went to stations from the Frankford Radio Club. Repeating from 2007, WE3C's station in eastern Pennsylvania took the top honors in this popular category. Second place went to Sig's team at N3RS overlooking the Pennsylvania Turnpike. Third place in the U.S. went to Mark's team at K1RX. There were several stations that put rare multipli-

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TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

World
HC8A (Opr.: Richard Smith, N6KT)
 Donor: Southern California DX Club

World Low Power
P40A (Opr.: John Bayne, KK9A)
 Donor: Slovenian Contest Club

World QRP
Remigijus Vaicius, LY8O
 Donor: Jeff Steinman, N5TJ

World Assisted
Philippe Luty, LX7I
 Donor: Glenn Johnson, W0GJ

U.S.A.
Randall Thompson, K5ZD
 Donor: Potomac Valley R.C. – KC8C Memorial

U.S.A. Low Power
Arthur Hambleton, K1BX
 Donor: North Coast Contesters

U.S.A. QRP
Doug Zwiebel, KR2Q
 Donor: Pat Collins, N8VW

U.S.A. Assisted
Richard Di Donna, NN3W
 Donor: John Rodgers, WE3C

U.S.A. Zone 3
Mitch Mason, K7RL
 Donor: Dave Pruet, K8CC & Greg Surma, K8GL

U.S.A. Zone 4
Mike Wetzel, W9RE
 Donor: Dave Pruet, K8CC & Greg Surma, K8GL

Canada
VY2ZM (Opr.: Jeffrey Briggs, K1ZM)
 Donor: Contest Club Ontario
 VE3WT Memorial

Caribbean/C.A.
8P5A (Opr.: Thomas Georgens, W2SC)
 Donor: Alex M. Kasevich, VP2MM

Europe
CU2X (Opr.: Toni Linden, OH2UA)
 Donor: Potomac Valley R.C. – W4BVV Memorial

Europe Low Power
CT8K (Opr.: Jose Manuel Farto Lopes, CT1CJJ)
 Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Russia
RK3AXX (Opr.: Willy Umanets, UA9BA)
 Donor: Roman Thomas, RZ3AA

Africa
6W1RY (Opr.: Albert Crespo, F5VHJ)
 Donor: Gordon Marshall, W6RR

Asia
5B4AI (Opr.: Jack Danielyan, RW3QC)
 Donor: CQ magazine

Japan
Masaki Masa Okano, JH4UYB
 Donor: Tack Kumagai, JE1CKA

Japan Low Power
Fumi Konno, JA7LMZ
 Donor: Western Washington DX Club

Oceania
9M8Z (Opr.: Steve Telenius-Lowe, 9M6DXX)
 Donor: Northern California DX Club

South America
Tom Oliveira Martins, PY2YU
 Donor: Yankee Clipper Contest Club

SINGLE OPERATOR, SINGLE BAND
World – 28 MHz
Juan Manuel Morandi, LU1HF
 Donor: Joel Chalmers, KG6DX

World – 21 MHz
ZX5J (Opr.: Sergio Almeida, PP5JR)
 Donor: Robert Naumann, W5OV

World – 14 MHz
VP2E (Opr.: Jeffrey Steinman, N5TJ)
 Donor: North Jersey DX Assn. – K2HLB Memorial

World – 7 MHz

Dusko, Dumanovic, ZL3A
 Donor: Fred Laun, K3ZO – K7ZZ Memorial

World – 3.7 MHz
EA8CMX (Opr.: Mauri Leppala, OH2BYS)
 Donor: Fred Capossela, K6SSS

World – 1.8 MHz
CN2R (Opr.: James Sullivan, W7EJ)
 Donor: Robert Wruble, W7GG

USA – 28 MHz
Courtney Judd, K4WI
 Donor: Donald Thomas, N6DT

USA – 21 MHz
Victor Walz, N2PP
 Donor: 11 PM Dayton Pizza Gang

USA – 14 MHz
Robert Shohet, KQ2M
 Donor: Yankee Clipper Contest Club
 KC1F Memorial

USA – 7 MHz
Paul H Newberry, Jr, N4PN
 Donor: Stanley Cohen, W8QDQ

USA – 3.7 MHz
Joseph Gagliardi, Jr, AA1BU
 Donor: CQ magazine

USA – 1.8 MHz
Manuel Fonseca, Jr., W2MF
 Donor: Glenn Johnson, W0GJ

Carib./C.A. (14 MHz)
Christopher Ellis, 9Y4D
 Donor: Nate Moreschi, N4YDU

Europe – 28 MHz
Slaven Galic, E77A
 Donor: Charles Dietz, W5PR

Europe – 21 MHz
Nikola Percin, 9A5W
 Donor: Tine Brajnik, S50A

Europe – 14 MHz
GI5K (Opr.: Chris Smith, M10LLL)
 Donor: Charles Wooten, NF4A

Europe – 7 MHz
YT8A (Opr.: Ceha Dusan-Dule, YU1EA)
 Donor: John Warren, NT5C

Europe – 3.7 MHz
Robert Cummings, G10KOW
 Donor: Ted Demopoulos, KT1V

Europe – 1.8 MHz
Joseph Cornee, F6CTT
 Donor: Robert Kasca, S53R

Oceania (7 MHz)
KH7B (Opr.: Wilbert Kollenbaum, K4XS)*
 Donor: Bruce D. Lee, KD6WW

Asia – 14 MHz
9K2K (Opr.: Abdallah Hamad AL-Muzayan, 9K2GS)
 Donor: Charles Shinn, W7MAP

Japan – 14 MHz
Hasebe Tatsumi, JA2PAC
 Donor: Take Yokoyama, JL1BLW

MULTI-OPERATOR, SINGLE TRANSMITTER

World
CN3A (Oprs.: IK2SGC, I2W1J, Y03JR, S50A, S50XX, CN8WW)
 Donor: So. Calif. DX Club – W6AM Memorial

U.S.A.
N0NI (Oprs.: K0KD, KU1CW, N0AC, N0NI, N0XR, N7AZ, W0FLS, K0WHV)
 Donor: Carolina DX Association

Carib./C.A.
VP5DX (Oprs.: N4KE, AB4UF, NU4Y)
 Donor: Bob Raymond, WA1Z

Africa
CQ9K (Oprs.: CT3BD, CT3DL, CT3DZ, CT3EE, CT3EN, CT3IA, CT3KU, CT3KY, CT3NT)*
 Donor: Doc Sayre, W7EW

Asia

P33W (Oprs.: 5B8AD, 5B4AIA, RW4WR, RW3RN, RA3AUU, RX3DCX)
 Donor: Edward L. Campbell, NT4TT
 AA6BB and KA6V Memorial

Japan
J12ZJS (Oprs.: JA2AXB, JA2JSF, JH2UVL, JG2TSL, JL2TAW, JM2RUU)
 Donor: Bob Epstein, K8IA

Europe
TM6M (Oprs.: F1AKK, F4DXW, F5MUX, F5TTU, F8DBF)
 Donor: Bob Cox, K3EST

Oceania
AH2R (Oprs.: JI3ERV, NH2C, JR7OMD, JR8VSE, NH2N, JH7QXJ, AH2Q)
 Donor: Junichi Tanaka, JH4RHF

South America
FY5YE (Oprs.: F1HAR, F5HRY, F6FGZ, F6FVY, FY5FY)
 Donor: Victor Burns, K16IM –
 The Cuba Libra Contest Club

MULTI-OPERATOR, TWO TRANSMITTERS

World
AO8A (Oprs.: EA8AH, EA8CAC, EA8ZS, ES2RR, ES5RW, OH1MA, OH2JA, OH3RB, OH5XT)
 Donor: Array Solutions

U.S.A.
WE3C (Oprs.: WE3C, KQ3V, NN3Q, K3CT, KQ3F, W2GD)
 Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND
 Dan Robbins, KL7Y Memorial

Europe
IR4X (Oprs.: I4EAT, I4AVG, I4EWH, I4VEQ, I4TJE, I4IND, I4IKW, IK4DCT, IK4EWK, IZ4BOY, IK2NCJ, IZ3EYZ)
 Donor: Aki Nagi, JA5DQH

Oceania
AH0BT (Oprs.: W1FPU, AH0BR, AH0BM)
 Donor: Japan CQ Ham Radio

MULTI-OPERATOR, MULTI-TRANSMITTER

World
K3LR (Oprs.: K3LR, N2NC, N2NL, W3TX, K8GL, W2RQ, K14MTU, K1AR, N6MJ, N3SD, K3UA, DL6LAU, N3GJ, LU7DW, WM2H)
 Donor: Dave Leeson, W6NL, and Barb Leeson, K6BL

U.S.A.
W3LPL (Oprs.: W3LPL, K1DQV, N11N, ND3A, WX3B, W3IDT, N3KS, K3MIM, K3MM, K3RA, WR3Z, W3ZZ, KD4D, K4ZA, AC6WI)*
 Donor: Jim Lawson, W2PV Memorial

Europe
DF0HQ (Oprs.: DG1ATN, DJ9AO, DL1AUZ, DL20BF, DL20E, DL2SAX, DL3TD, DL5AOJ, DL5AXX, DL5GA, DL5MLO, DL7FER)
 Donor: Finnish Amateur Radio League

Japan
JR5VHU (Oprs.: JR5VHU, JM1UWB, JA5FDJ, JA5JCC, JH5FIS, JH5RXS, JR5JQA, JR5PWV, JP6WYS, JK6RIP)
 Donor: Ryoza Goto, JH3JYS

CONTEST EXPEDITIONS

World Single Operator
VU4RG (Opr.: Norbert Meyer, DJ7JC)
 Donor: National Capitol DX Assn.
 Stuart Meyer, W2GHK Memorial

World Multi-Single
VU7SJ (Oprs.: DL9GFB, VU2JOS)
 Donor: Gail Sheehan, K2RED

World Multi-Multi
VK9DWX (Oprs.: DJ5IW, DJ7EO, DJ9RR, DL1MGB, DL3DXX, DL5LYM, DL8OH, DL8WPX, SP5XVY, ZS6DXB)
 Donor: CQ magazine

*Second place

QTH of JR5VHU showed its muscle by taking first in Japan, edging out the green tea plantation QTH of JA3YBK.

The continental winners were: North America: K3LR; Africa: no entry; Asia: JR5VHU; Europe: DF0HQ; Oceania: VK9DWX; South America: YV4A; Japan: JR5VHU; U.S.: K3LR.

Team Contesting

Five testers from anywhere can form a team. Register your team before the contest and you have the ticket to enter the team contesting category. A lot of planning goes into the top teams to make potential top scores. Many of the teams band together just to have fun. As you can see below, the teams can be formed with members from anywhere in the world. Besides sending a FAX or mail to CQ, you can submit your team list to <teams@cqww.com>. You will receive an acknowledgement from that site. You probably noticed the three XE teams entered into the team competition category. What a great way to increase activity in a rare zone. Good job! This year the World-Wide Young Contesters Ultimate Lids team took top honors. The results of team contesting are as follows:

1. WWYC Team Ultimate Lids: CU2X (OH2UA), ES5TV, LX71 (LX2A), NN3W, OH8X (OH4JFN): 35,057,283.

2. Contest Club Finland –Team Mannerheim: OA4WW (HP1WW), OG5B (OH5BM), OG6N, TC4X (OH2PM): 6,898,638.

3. Carolina DX Association: AA4S, KI4TZ, KZ2I, N4ZC, N4PQX: 5,966,359.

4. KTU RC: LY1R, LY4T, LY5R, LY6A, LY2OU: 3,319,606

5. WWYC Team AYBABTU: OG50F (OH1NOA), M3PHP, SM6U, EA7OT, G1ZQN (M0TZO): 3,092,157.

6. VKCC - 30s: VK3TZ, VK4CZ, VK4HAM, VK4KW, VK4TI: 1,654,595.

7. Grupo DXXE – Full Calories: XE1BY, XE1NW, XE2S, XE1CQ, XE1CWJ: 1,612,527.

8. Mediterraneo Team: IZ8CCW, IZ8BGY, IZ8IYX, IK8LTB, IZ8FWN: 1,531,844.

9. MCC#1: VA1CHP, VA1MM, VE1DT, VE1OP, VY2LI: 1,529,135.

10. The Quebec Baritones: VE2XAA, VA2WDQ, VA2SG: 941,727.

11. WWYC Team IRC: E21EIC, OQ5M (ON5ZO), LZ4UU: 878,474.

12. Reus Radio Contest Group: EE3Y (EA3EYD), EA3KN, EE3R (EA3OR), EA3NA, EB3EPR: 675,089.

13. Grupo DXXE – Low Calories 1: XE1AY, XE1CT, XE1GRR, XE1MM, XE1YJS: 613,767.

14. Louisiana Contest Club Team #1: K5ER, KA5M, N5HMH: 565,583

15. Grupo DXXE – Low Calories 2: XE1YYD, XE1ZVO, XE2AUB, XE3N, N6AN: 158,347.

Records

Beating an existing record is a real accomplishment. Take a look at the record list at CQWW.com. You might find that you have a chance to take on the personal challenge of going for a new record. If you discover an error in the record list, please document it and let us know at <questions@cqww.com>. Below are the outstanding efforts of super operators which resulted in setting

new world or continental SSB records during the 2008 contest. Congratulations!

World: A7 9Y4W; A3.7 OM2VL. **U.S.:** 14 KQ2M/1; A7 N2ZK. **North America:** 14 VP2E (N5TJ). **Africa:** A7 IG9R (IK8HCG). **Asia:** Q7 4X/UU2JM; A1.8 VR2DS. **Japan:** Q3.7 JF2MBF. **Europe:** A CU2X (OH2UA); 7 YT8A, 1.8 F6CTT; A7 TM7R (F5FLN); A3.7 OM2VL. **Oceania:** None. **South America:** A7 9Y4W.

Special Mention

With the small rigs available today, you can place a transceiver in a carry-on, put some aluminum tubing in a golf bag, jump on a

plane, and within a few hours be operating from a DX location. The CQ WW is famous for hams going on DXpeditions. If you travel to an island, you will be surprised how the "island effect" will enhance your signal strength. Once your antenna sees salt water, you suddenly have a natural amplifier. Some of the exotic callsigns appearing in entrant's logs making the contest more interesting for all of us were: 3DA0DJ, 3V8BB, 4X0C, 4X0V, 5B4AI, 5Z4/RW1AU, 6V7M, 6W1RY, 6Y1V, 8P5A, 9K2HN, 9M8YY, 9M8Z, A73A, AH0BT, AH2R, AO8A, 78 Chinese testers(!), C6APR, CN2B, CN2R, CN3A, CN4P, CQ9K, CT/LZ3ND, CT1JLZ, CT9L, CU2X, D80Y, DL/N0HJZ,

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Antenna Gear



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John, W9ILY, on 21 MHz low power.



Gabi, YO8WW, #1 QRP Zone 20.



David, WA8WV, QRP from West Virginia.

E77J, E77XZ, EA6/AA5UK, EA6/DK5IR, EA8/EA4SV, EA8CMX, ED8D, EI/ON4EI, FG5KC, FY5KE, G/SP4BHD, G5W, GZ0F, HB0/HB9AON, HC8A, HQ2W, HQ3Z, HQ9R, HS0AC, HT2N, IG9R, IG9S, IH9N, IK/DJ1AA, IM0/IK0FMB, IS0/K7QB, IS0\$A, IS0C, IS0T, J37T, J42T, J43J, J88DR, KH6LC, KP2M, LA2AB, M7A, MW0X, MW9W, NH0DX, OA4WW, OE/DJ1AA, OH0E, OX2A, P33W, P40A, PJ2/OH2Y, PJ2T, PJ4/N0VD, PJ4E, PZ5Z, SU1KM, SU9HP, SV9CVY, SX5P, T32CXX, T88AC, T88YB, T8IC, TA2/DL7BC, TC4X, TC7KA, T11R, T15N, TK9R, TO4X, TO5DX, TO8Z, V26B, V31MX, V47JA, V48M, V6B, VK9DWP, VP2E, VP2EC, VP2V/K9NW, VP2V/SP7VC, VP5DX, VP5T, VP9/K3IR, VR2EH, VU4MY, VU4RG, VU7SJ, WH2D, WH2DX, XU7ADU, YM2W, YV4A, ZA0/IK7JWX, ZK2DF, and ZM1K.

Comments

We received 5021 2008 CQ WW SSB contest logs of which 4881 were electronic! Thanks to all the contesters around the world who sent in a log. *Please send in your log no matter how small.* Your

effort to submit an electronic log allows for a fairer adjudication process. Submitting an electronic log is easy. Send your SSB log to <ssb@cqww.com> (CW to <cw@cqww.com>). Please send your log in Cabrillo format. If you have the capability with your logging program please submit a log with exact frequencies. Exact frequencies help in the log-checking process and help with statistical analysis of band openings.

Before you submit your log, you can help us a great deal by double-checking your Cabrillo submission. Please make sure the category you have chosen is correctly indicated. If you are submitting a single-band entry, please check to see your chosen entry matches what is in your log. If you did everything OK, you will get back an acknowledgment from the robot. If there was something wrong, you will get a message telling you what to do to correct the error. You can then resubmit your log to the same above addresses. If you are having submission problems, we can help you at <questions@cqww.com>. It bears repeating that if you make a mistake on your first submission, you can resubmit your log. It will replace the first submission. We archive all your submissions.

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
HC8A	278/17/44	741/27/93	1412/34/113	2477/35/127	1995/29/98	539/15/47
CU2X	262/16/60	748/24/95	1333/28/102	2454/32/117	2932/33/124	39/8/19
8P5A	362/13/49	834/24/90	1160/31/104	2778/32/116	1736/26/92	177/12/28
VY2ZM	675/21/83	668/20/87	854/27/96	3274/34/129	473/25/87	1/1/1
5B4AI	173/10/56	342/19/85	1000/23/98	1546/32/108	2314/28/105	61/8/24
ES5TV	592/20/77	1014/31/109	990/32/111	2395/38/137	400/34/93	92/6/28
SV9CVY	279/9/55	617/17/76	1841/29/107	2217/34/123	1425/26/102	270/9/41
VE3EJ	333/17/53	702/22/91	498/28/92	1738/38/129	931/28/100	28/6/10
K5ZD/1	112/14/55	410/21/86	765/27/100	1891/36/127	458/23/89	44/6/12
M6T	271/14/59	920/23/87	821/29/94	1833/37/112	849/31/98	24/3/19

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	112/14/55	410/21/86	765/27/100	1891/36/127	458/23/89	44/6/12
K1LZ	97/12/46	573/20/88	395/25/87	1705/33/122	474/25/90	63/6/13
K1DG	116/16/70	376/24/90	244/24/92	1677/33/123	374/23/92	52/6/19
K4ZW	67/15/46	404/20/85	649/28/95	1285/37/121	518/25/90	14/5/10
N2NT/1	93/12/45	377/22/85	416/24/86	1687/32/118	343/23/91	73/6/16
K3CR	65/11/43	330/19/75	338/22/86	1316/33/123	673/23/92	16/4/5
W9RE	51/10/26	226/26/81	566/28/102	1038/37/124	800/24/90	15/4/4
N5DX	55/13/32	162/24/74	496/29/88	814/36/111	743/28/90	16/5/7
N2IC/5	34/12/25	185/22/69	487/31/89	904/34/110	583/32/94	51/6/8
AA1K/3	67/13/45	175/20/63	408/24/81	1089/32/115	536/24/88	2/1/2

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

CN3A	64/14/63	757/23/96	1733/33/119	2102/38/142	2817/35/141	78/15/35
FY5KE	288/15/67	588/28/100	847/31/117	2148/38/146	2931/35/139	120/21/59
P33W	256/12/66	671/24/96	1429/33/123	2605/37/145	2472/35/132	158/12/39
CQ9K	203/13/63	529/23/102	1276/37/122	2384/39/150	2016/36/143	30/14/30
3V8BB	372/10/62	913/23/90	1293/30/121	2186/38/144	1396/37/131	319/14/48
TM6M	241/17/78	1101/23/105	1318/35/131	2226/39/152	1352/35/129	21/7/21

USA MULTI-OPERATOR SINGLE TRANSMITTER

N0NI	98/16/52	346/27/99	216/27/98	1336/36/141	605/31/106	7/6/6
K9RS/3	91/16/58	380/25/97	383/28/106	1063/37/130	394/29/103	30/8/12
K8AZ	51/15/50	266/26/98	322/28/113	1155/37/141	341/30/105	35/7/12
K5TR	43/14/42	139/25/85	540/31/117	851/37/138	567/33/113	71/10/16
N1MM	41/10/33	219/22/85	547/26/102	695/34/119	513/28/106	84/7/13
K5NA	76/15/48	233/27/94	352/32/113	549/35/131	603/33/107	58/8/11

WORLD MULTI-OPERATOR TWO TRANSMITTER

A08A	309/16/67	1628/26/106	1837/31/115	3280/40/146	3281/38/149	71/14/41
6Y1V	470/15/65	1003/22/93	2374/29/116	2779/36/131	2129/34/123	85/11/27
CT9L	210/12/61	943/19/86	1724/32/120	2008/34/120	2622/31/108	27/9/18
PJ4E	262/13/45	801/21/88	691/26/94	3349/34/131	2295/31/115	133/13/30
IR4X	201/14/66	1187/30/113	1720/35/133	2295/39/159	1665/38/149	73/11/48
PZ5Z	109/13/27	752/26/90	1107/29/109	3308/38/132	1769/27/106	62/15/24

USA MULTI-OPERATOR TWO TRANSMITTER

WE3C	115/18/72	745/27/105	1175/28/120	2223/38/152	1224/32/122	49/10/21
N3RS	58/11/38	591/24/98	958/30/116	1586/37/142	897/31/119	47/7/14
K1RX	139/14/61	543/25/101	460/28/110	1502/34/127	490/28/107	65/6/13
W4RM	69/15/43	431/23/85	710/28/103	1364/35/131	596/26/97	3/2/3
N4T	66/12/48	321/20/86	640/28/107	1633/38/137	557/30/100	59/8/22
KB1H	48/12/34	321/21/92	315/24/98	858/36/129	593/29/113	91/7/19

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	350/21/75	1279/29/115	1475/32/128	3177/39/165	1666/31/130	105/9/17
W3LPL	429/21/82	1002/28/111	1377/31/127	2813/39/157	1377/32/129	72/9/16
HQ3Z	506/15/52	1303/23/90	2044/29/100	2587/33/119	2302/33/116	163/15/29
DF0HQ	990/16/82	2040/26/105	2844/39/148	2170/40/156	937/35/131	236/10/52
KC1XX	279/18/71	1024/27/112	1066/30/120	2517/38/153	1266/30/132	149/8/22
YV4A	225/12/51	445/21/77	1443/33/129	2358/35/123	2061/34/112	207/12/29

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	350/21/75	1279/29/115	1475/32/128	3177/39/165	1666/31/130	105/9/17
W3LPL	429/21/82	1002/28/111	1377/31/127	2813/39/157	1377/32/129	72/9/16
KC1XX	279/18/71	1024/27/112	1066/30/120	2517/38/153	1266/30/132	149/8/22
NQ4I	214/16/58	572/27/108	741/30/116	1701/38/147	1045/33/120	87/8/12
K3NA/1	200/16/74	586/25/99	761/29/117	1633/37/141	642/27/106	102/6/20
K1TTT	278/15/57	642/24/99	855/27/112	1625/37/132	559/29/109	127/8/17

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- Built-in fan
- Weighs less than 5 lbs.
- Carrying handle



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CN-103M

- Frequency ranges: 140–525MHz
- Forward power ranges: 20/200W

CN-103N

- Same as CN-103, but with N-type connectors



PROFESSIONAL SERIES

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"l x 4 1/4"h x 4 1/2"d (approx.)

CN-801HP

- PEP reading SWR/power meter
- Frequency range: 1.8–200MHz
- Forward power ranges: 20/200/2000W

CN-801V

- Frequency range: 140–525MHz
- Forward power ranges: 20/200W

NEW! CN-801G D-STAR

- Frequency range: 900–1300MHz
- Forward power ranges: 2/20W
- N-type connectors



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EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CU2X	262/16/60	748/24/95	1333/28/102	2454/32/117	2932/33/124	39/8/19
ES5TV	592/20/77	1014/31/109	990/32/111	2395/38/137	400/34/93	92/6/28
SV9CVY	279/9/55	617/17/76	1841/29/107	2217/34/123	1425/26/102	270/9/41
M6T	271/14/59	920/23/87	821/29/94	1833/37/112	849/31/98	24/3/19
ER0WWW	467/13/60	763/18/80	1558/33/112	1746/34/102	809/28/77	44/5/23
RZ3AXX	118/11/45	617/29/91	1282/36/120	2040/38/124	624/23/72	22/6/10
RW1AC	204/13/58	790/27/96	912/30/115	1743/36/115	652/31/84	30/9/21
OH8X	247/11/54	331/21/71	412/28/89	2897/38/114	573/32/89	15/6/12
GW4BLE	104/8/45	800/19/78	745/24/82	1540/30/99	794/27/76	8/2/6
HA8JV	390/11/63	988/22/90	579/25/96	1486/35/124	477/32/98	22/6/19

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	241/17/78	1101/23/105	1318/35/131	2226/39/152	1352/35/129	21/7/21
IR4M	193/14/65	477/24/97	1008/35/127	1718/39/147	1450/38/136	94/10/50
HG6N	346/12/63	1235/22/102	1026/34/131	2183/40/155	904/36/136	30/9/30
OM7M	306/15/72	524/21/96	1361/36/134	1699/38/147	944/36/137	44/8/41
OK5W	140/15/71	1013/26/111	1207/37/134	1328/37/143	884/37/133	37/11/37
E17M	330/16/72	863/19/92	1226/33/115	1839/36/135	898/29/100	13/5/13

EUROPE MULTI-OPERATOR TWO TRANSMITTER

IR4X	201/14/66	1187/30/113	1720/35/133	2295/39/159	1665/38/149	73/11/48
AM3SSB	119/7/46	814/18/82	1483/28/102	2171/39/140	1151/36/115	72/4/19
HG1S	228/9/57	1282/21/91	1300/34/125	1855/37/141	684/35/110	31/8/28
DQ4W	362/11/59	1210/19/101	892/33/124	1553/36/146	862/37/138	39/7/23
DL10Q	492/14/68	1184/26/107	1009/34/129	1365/37/136	510/35/111	29/7/27
DR5Z	359/8/55	626/19/79	582/30/111	1366/38/137	848/36/130	44/7/28

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DF0HO	990/16/82	2040/26/105	2844/39/148	2170/40/156	937/35/131	236/10/52
OT5A	875/12/62	2090/19/94	2314/38/131	2188/40/143	841/33/118	320/10/49
LZ9W	637/10/66	1413/25/98	2531/34/127	1926/38/149	1065/38/132	111/11/44
DR1A	484/15/65	1246/20/81	1623/34/123	2293/36/141	791/36/120	95/9/32
OH5Z	627/12/68	824/25/91	1839/37/135	2067/38/145	623/36/115	63/5/20
LY7A	688/10/59	1244/14/71	1996/28/119	1904/37/132	576/34/102	96/8/38

The CQ WW Contest Committee provides several ways for an entrant to check his/her log for category, club, and operator. Soon after you submit your log and long before the final results are published in CQ magazine, a *log received list* with your category is posted on the CQ WW site (cqww.com). Look over this list to find if your data is accurate. If it is not OK, please let us know at <questions@cqww.com>.

About one month before the results are finalized in CQ, you will receive via e-mail a password that will allow you access to your log analysis. This is called your *report* (rpt). You can look over the report to again verify your category and other information.

Thanks to the input from numerous entrants, a few systemic errors were found and corrected. All these efforts help to make the results as accurate as possible. Everyone enters the contest to have fun, meet friends, perhaps work some new ones, and fairly compete. You can see information concerning the CQ WW on the web page at: <http://www.cqww.com>.

Top Scores: If you plan to try to make the Top Score Box, you can count on your log being scrutinized. In a perfect world we would not have to spend a great deal of extra effort to check potential problem logs. Unfortunately, some entrants feel they must win at any cost, even if it means cheating by not following the rules. Just as in other aspects of life, cheating in the CQ WW will not be tolerated. The use of undeclared packet; the use of additional operators for a single operator entry; two signals simultaneously on the same band, or on separate bands at the same time, if you are single operator; all are in violation of the CQ WW rules. If you are multi-single, do not alter the times in the log to conform to the 10-minute rule. The CQ WW has at its disposal many methods to verify the score of an entrant. A few of these methods are: category averages for packet and non-packet scores, statistical aids to verify winners, URL tracing, packet clusters, reverse log time/band checking (which provides times and frequencies of more than 80% of the QSOs in any log).

If you are a single operator in *any* single operator category, you cannot receive help which could impact your score in *any* way from *another person or any DX spotting network*. Every year we receive reports of someone allegedly having another operator spot or work

Eve, 1906. He is buried on the island of Bermuda. Epitaph Inscription "I am Yesterday and I Know Tomorrow" ... **VE3EDY**. Surprisingly good condx considering low sunspot numbers. Lots of fun. 80 and 40 open to all areas of the world. A real treat for our "black hole" in VE5 land ... **VE5RI**. This contest was a great opportunity for many of the over 12 new hams who passed their Basic Exams in our club in 2008. For many of these operators this was their first great experience in working DX ... **VE7NA**. My first time in this great contest and will be back next year Thanks to all who listened for me ... **VK4BL**. It was a pleasure to take part in the CQ WW as an DXpedition for the first time. We enjoyed the interest of the participants to work with us very much and we hope all had the same fun as we had. Best wishes to everyone!!! DL9GFB/VU2JOS ... **VU7SJ**. 15m was pretty marginal here in VY2 and 10m nonexistent! Tks to all the old friends who called in this time ... **VY2ZM**. It was fun. First time ever. I am just nine years old ... **WP4NVK**. I am happy to follow WW DX contest for first time because I am newcomer in ham radio. All the best to you ... **YC6BRS**. Pretty bad propagation in YO, with little-to-no real runs towards NA. Good participation from all continents. Didn't put up much effort after first day, just enjoyed the rest of the contest and gave out some points. 73, Mircea, YO3XX ... **YP3A**. Good fun! Good polite operating observed. Some interesting phonetics utilized in efforts to get callsigns through the noise! Wish I could have logged more ... **ZL1AAO**.

USA QRM

It was wonderful to see 15 open again. Now let's see what 10 can bring! Great contest as usual ... **AC9S**. 20 meters much better this year into Colorado. At least one signal every 1 kHz! Running was difficult, mostly had to do S&P ... **K0IZ**. Golf date on contest Friday cut into start. Nice western EU openings on 15 both days. Special thanks to JA1NUT for a rare SSB QSO! ... **K0RF**. Lots of fun with only a 160 mtr Window and a dipole at 25 ft for 20m! ... **K1HTJ**. Can't believe the QRM on 20 meters. How can you pack so many stations in a 200 kHz bandwidth? There must have been ten stations deep per every kHz. When will the higher bands open up to spread out the contesters? ... **K2MFY**. Where did 10 meters go? Best conditions ever on 160m, worked plenty of stations with a shorted G5RV.... **K2CS**. Not much to show for an 8 hour effort but this was my first CQ WW and I had a lot of fun. What I need now is a better antenna system. I am psyched for the contests to come! ... **K4EET**. Good conditions or bad, this contest always offers a few nice surprises. 40 was as amazing as 10 was bad ... **K5ZD**. Another CQ WW with no sunspots. Never heard a signal on 10m! I tuned up there several times too and called CQ. 15m had a surprise early Sunday morning opening to CT, I, F, EA, etc. On 20m, there were times when it was S9+ sigs solid from 14150-350. Strong EU/SA openings there. On 40m, the usual deaf EU and EU/Far East stations booming in and not listening up. On 80m, my R7 seemed like a wet noodle. Hopefully, there will be better condx for the CW part ... **KC6X**. More 15m activity in CQ WW SSB than the whole rest of the year! Maybe the new sunspot cycle didn't stall out after all! ... **KE7DX**. My first CQ WW. I had a great time, and worked several new DXCC entities. Best was Spain and Italy on 40m Sunday AM, and HI on 15m Sunday afternoon ... **KG4ZDM**. I am 9 years old and this is my second contest. Great fun! ... **KJ4BIW**. Way to go Africa! Even with a sunspot count of 0 worked more Africans in this contest than ever before in 52 yrs of contesting! ... **KS7T**. This was my first CQ WW as a high power entry. Lots of fun with many new ones on the low bands. Even some propagation on 15m ... **N0YO**. I hope everyone had a good time. Conditions were not great but good enough to provide some great Q's... **N1BCL**.

Great "cherry pickin." 11 hours of fun. Wanted to play in the sandbox some more, but grass mowing, "honey-do," Eagles game, and the Phillies in the World Series. Too much to do, and never enough time. Lotsa new ones on 40m and 75m for 5BDXCC. 18 new countries on 40; 7 on 75m. Seeing the light at the end of the 5-band tunnel. Hi! ... **N3TR**. Mobile with minimum time; however, good to participate some to keep the hobby alive ... **N4LS**. What a great experience operating from W8JI's super station. If log checking holds up, will have set a new US record for 40m in this one. Conditions were good and no problem with equipment or QRM. Just terrible broadcast QRM all over the band ... **N4PN**. Another bad year on the third rock. Someday 10/15 will really open, hopefully in my lifetime ... **W3TZ**. JH1OGC gets my vote for best "ears." TM6M was the only European who

could hear me. Rig here was "Original" IC-706, CtWin, and HF-2V ... **W6HH**. Wow, my first CQ WW! People were very nice. Had a very fun time! ... **W7JAZ**. The great activity opens up the bands every year. Spent months getting new tower ... **W9RE**. Had a great time even though conditions were pretty poor. Nice to see 15m open for a run from U.S. East Coast to Japan and New Zealand. Look forward to next year. Thanks for putting on the contest ... **WB4ROA**. Hey, conditions are finally looking better! ... **WB8JUI**. Conditions much better this year! 20 and 15 meters were excellent. Next year maybe 10 meters will be alive again? See you then! ... **WK0P**. Always challenging from AZ but did OK considering. Need to upgrade here to be more competitive but I sure have fun with what I have! ... **WU9B**.

(Continued on page 101)

RIGblasters

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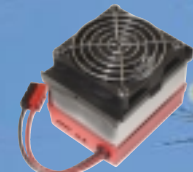
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Results of the 2008 CQ WW DX SSB Contest (from page 29)

Number groups after call letters denote following Band (A=all), Final Score, Number of QSOs, Zones, and Countries. An asterisk (*) before call indicates low power. Certificate winners are listed in bold. (All country terminology reflects the DXCC list at the time of the contest.)

2008 SSB RESULTS

SINGLE OPERATOR NORTH AMERICA

United States	
K5ZD1	A 6,121,516 3680 127 469
K1LZ	A 4,915,323 3307 121 446
K1DG	A 4,620,600 2839 126 486
N2NT1	A 4,584,160 2989 119 441
W1HS	A 638,050 687 82 268
W6PH1	A 598,920 766 77 233
W1OP	A 584,168 695 77 251
(OP: K1PLX)	
N1DD	A 524,901 639 74 239
W1FM	A 344,810 482 77 213
W1KQ	A 330,638 478 60 206
W1WFE	A 270,657 421 75 186
K1SND	A 201,480 335 61 169
W1BWH	A 187,824 289 77 224
W1ZS	A 184,569 374 45 142
N4XR1	A 148,350 259 61 169
KB1W	A 118,140 257 40 139
KB1PAJ	A 60,760 177 33 91
K1KU	A 52,752 145 43 114
W1WQM	A 46,512 183 45 108
(OP: W1AHH)	
AD5TJ1	A 24,416 109 39 73
W1YRC	A 12,851 68 29 42
A1O	A 12,441 86 27 60
W1MK	A 1,443 28 15 24
K1YM	A 840 24 10 18
NN1N	21 146,433 413 29 104
KO2M1	14 1,242,150 2504 38 144
W3UA1	A 693,211 1488 35 138
K8PO1	A 683,612 1744 30 118
K1IM	A 196,983 603 77 102
W1X	7 118,560 421 25 89
W1CSM	A 900 17 5 13
AA1BU	3.7 168,982 723 19 87
W5WMMU1	A 168,498 626 20 91
K1HAP	1.8 8,832 77 11 37
K1BX	A 1,655,738 1346 101 353
N1UR	A 1,591,320 1337 101 346
N1PGA	A 684,070 752 75 260
W1JQ	A 291,375 426 65 194
N4CWC1	A 278,863 418 59 188
K1BV	A 207,427 426 36 137
K1SLB	A 180,297 355 52 149
W1AO	A 155,792 278 55 153
WB1EDI	A 117,018 229 53 144
W1KT	A 116,610 243 40 129
W1DAD	A 63,600 166 43 107
AD1DX	A 51,770 170 43 102
W1RPG	A 46,182 152 38 91
K1A1C	A 39,648 137 33 85
K1HTJ	A 39,474 144 42 87
K1HI	A 34,226 124 36 73
K1AVMG	A 17,094 83 22 55
N1HITS	A 16,511 77 22 57
W1GZX	A 16,500 90 23 52
W1R1Q	A 14,691 87 31 52
KB1JUDY	A 13,090 96 22 41
K1VU	A 12,126 75 29 57
K1KJN	A 11,748 70 22 44
W1J1B	A 11,455 70 30 49
N1TURA	A 7,680 61 19 41
K1NKA	A 7,452 54 25 44
AB1JB	A 5,865 48 26 43
W21JU1	A 5,832 42 21 33
KB1FRK	A 5,551 48 20 41
K1MPT	A 2,576 35 19 27
N1N1N	A 1,683 26 12 21
W1QH	A 837 17 13 14
N4QX1	A 36 3 3 3
KB1LXX	A 0 1 1 1
N1NK	21 45,838 199 18 64
K1V5J	A 36,465 156 19 66
W1DYJ	14 4,116 39 13 29
W2GB	A 565,950 752 66 228
W2NHA	A 560,196 777 67 206
N2ED	A 498,582 631 94 284
W2LK	A 291,893 418 66 193
NE2I	A 255,195 452 72 193
K2NV	A 119,400 232 56 143
K2UT	A 95,864 200 54 130
W2FU	A 73,712 188 38 98
KN2L	A 68,586 177 38 100
N2LT	A 65,554 157 43 103
W2TB	A 47,847 143 32 91
K1P2	A 47,376 157 35 91
N2CK	A 43,568 150 33 79
N2NI	A 19,350 87 24 66
N2EIK	A 17,082 110 18 60
KD2HE	A 11,680 65 23 50
K2MK	A 5,022 45 20 34
KC2KZJ	A 3,136 39 20 29
N2ZP	21 227,408 747 26 96
W2RR	A 46,750 197 20 65
AB00X/2	A 7,790 74 12 29
W2OSR	14 42,300 206 20 85
NT2A	7 47,415 190 24 85
N2GC	A 11,940 73 17 43
AB2IO	A 468 12 3 10
W2MF	1.8 25,912 140 15 10
K2CS	A 510,190 595 78 248
N2RJ	A 432,630 610 54 199
K3OX/2	A 244,223 342 71 180
W2AJOK	A 235,470 391 71 211
WB2WPM	A 223,660 398 48 163
AB2TC	A 125,705 288 37 118
N2MTG	A 90,712 216 54 130
N2WSY	A 87,824 183 44 132
N2AMCR	A 83,000 193 11 10
WAS3RH/2	A 49,776 147 40 96
KD2MU	A 29,854 129 34 84
W2VU	A 25,440 97 29 67
K2BBO	A 22,892 103 35 62
N2VM	A 16,568 90 35 74
KC2OJB	A 13,244 82 21 65
W5M2P	A 10,584 93 21 62
N2MCI	A 9,966 48 18 48
W2T2PS	A 6,125 48 19 34
W2GDJ	A 5,453 50 13 28

*K5GMT/2	A 3,854 40 14 27
*N2WLS	A 3,827 36 16 27
*KA2FHN	A 2,220 27 15 22
*W3TUA/2	A 1,702 23 16 21
*KB2URI	A 1,296 22 14 22
K2RNY	A 1,000 16 11 14
*K2RNY	A 480 11 10 10
*WB2AIV	A 190 11 8 11
W2AZART	A 143 8 6 7
*KC2FOL	A 30 3 2 3
*K2MPY	14 162,426 439 27 111
*KXZS	A 33,180 155 18 66
*W2ZAW	A 28,440 129 61 21
(OP: N2GPM)	
*W2YSJ	A 7,696 56 14 38
*K2BOW	A 7,350 66 14 36
*W2LHL	A 2,475 26 11 22
*K2YEH	3.7 27,888 140 19 65
*K2SZ	A 13,237 91 15 46
*A1ZN	A 1,593 25 7 20
K3CR	A 4,051,088 2738 112 424
(OP: L2AAZ)	
AA1K/3	A 3,005,836 2277 114 394
W3BGN	A 2,729,251 1979 117 394
K3ZO	A 2,687,024 2128 99 365
*N3AYY	A 26,656 103 36 76
*ND3R	A 26,590 106 34 72
*K3VED	A 21,948 104 28 65
*WB3CJU	A 20,898 98 23 58
*KA3JLW	A 7,564 58 21 40
*N3JNX	A 5,141 48 19 34
*N3DFK	A 2,730 38 17 25
*A1G	A 1,802 27 10 24
*N3XLS	A 1,457 27 13 18
*KA3CUO	A 1,131 28 13 26
*KB3LVH	A 567 24 11 16
*KB3NUQ	A 192 9 6 6
*W3TD	21 4,255 45 12 25
*N0MSB/3	A 396 13 7 11
*K4EET/3	14 3,854 46 14 33
*K3LAB	A 1,860 23 10 21
*A1JT	3.7 29,498 153 19 67
K4ZW	A 4,601,575 2937 130 447
K4SSU	A 1,909,978 1713 119 335
(OP: N4ABW)	
K4AB	A 1,478,880 1180 113 367
N4POX	A 1,259,225 963 115 360
K4PV	A 902,915 1093 94 283
K4FX	A 709,464 856 71 238
K3ZM/4	A 702,420 800 86 259
K5VP/4	A 71,592 201 45 107
N4KZ	A 58,788 159 39 99
W4AEJ	A 50,862 139 44 103
W4SUL	A 46,545 211 20 67
W4RIS	A 41,375 154 45 80
K4CEB	A 38,532 150 32 82
W2CZ/4	A 34,055 116 52 87
A14FW	A 33,915 135 23 72
N4MJ	A 33,550 132 40 82
AE4EC	A 33,499 144 42 97
N4AC	A 31,654 122 47 72
N4DXI	A 25,116 111 24 67
W200/4	A 23,571 115 24 57
KF4DNL	A 22,908 97 30 62
W4STB	A 21,728 87 31 81
K4DZR	A 21,335 99 22 63
W4NTI	A 13,962 75 29 49
K2EK/4	A 12,720 121 16 32
N4RI	A 5,808 49 18 48
W8D0/4	A 4,758 61 23 38
N2XD/4	A 1,628 26 13 24
W4HJ	A 928 23 11 21
K4WI	28 3,381 59 9 12
N4BP	21 161,000 498 28 97
W4M0BUE	14 30,200 132 22 78
K0AY	A 26,675 109 21 76
*K4IE	A 60,760 173 40 100
*AD2H/4	A 56,797 188 38 101
*N4W0	A 56,154 170 40 107
*KR1ST/4	A 51,549 155 41 96
*K4CX	A 51,168 162 33 90
*A14GR	A 50,126 147 44 98
*KM4OZ	A 45,486 146 41 92
*W4RQ	A 40,940 134 32 83
*W9WNY/4	A 35,937 151 34 90
*N4VB	A 35,464 109 44 80
*N3UJA	A 33,561 107 35 81
*KB2MR	A 29,648 119 32 77
*N4LKE	A 28,560 124 37 82
*K4IKO	A 27,776 97 36 76
*KM4RK	A 26,760 114 43 77
*K4AOC	A 26,133 115 31 62
*W4VAV	A 25,070 93 38 71
*N4MUH	A 24,612 117 20 64
*W3GNNW/4	A 24,464 114 26 62
*W7T/4	A 24,200 95 38 83
*W7OF/4	A 23,114 97 24 67
*K7CS/4	A 22,990 107 29 66
*N1ADY/4	A 22,704 101 21 65
*W4PFM	A 22,407 97 31 66
*N4IOZ	A 21,660 118 27 68
*KN4DS	A 21,300 98 36 64
*A14KM	A 19,648 125 31 65
*A14AD	A 18,758 97 26 57
*ND4X	A 17,204 75 33 59
*K4EJ	A 16,984 84 27 61
*A14CJ	A 12,397 104 25 52
*K4FTO	A 11,096 70 24 52
*W04R	A 10,240 64 21 43
*N4ARO	A 10,212 57 29 45
*K2EUH/4	A 9,856 55 31 46
*K4YJ	A 9,039 60 22 42
*K4UMT	A 8,330 57 26 44
*W3ARGH/4	A 7,626 86 22 60
*N4RVM	A 6,273 48 16 35
*KX4O	A 5,904 49 24 38
*N4APR	A 5,656 50 22 34
*KJ4BIX	A 5,390 56 22 33
*K9RIM/4	A 5,246 56 22 39
*W1WTCG/4	A 5,145 40 19 30
*W4O5D	A 4,305 40 13 28
*K1MLI/4	A 4,176 40 17 31
*K2TV/4	A 3,969 40 16 33
*K4SVZG/4	A 3,807 35 17 30
*K1VP/4	A 3,760 42 13 27
*K4GZDM	A 3,234 36 18 24
*AA4KD	A 2,772 32 11 25
*N0VR/4	A 2,747 29 15 26
*K4DXV	A 2,501 29 16 25
*K2VX/4	A 1,932 30 16 26
*W8BR/4	A 1,508 27 10 16
*K4GOP	A 795 39 21 32
*K4FIRC	A 690 15 9 14
*KJ4UV	A 672 15 9 12
*K4MAMZM	A 384 12 5 11
*K4JCNZ	A 350 14 4 6
*K3MZ/4	A 315 9 7 8
*N4K	A 24 6 3 3
*N0AK	21 8,040 73 13 27
*K4TVO	A 7,987 64 16 33
*W4FRA	A 2,077 31 12 19
*W4OGG	A 1,300 27 7 13
*N4ARH	A 1,000 21 7 13
*N3AO/4	A 540 18 9 11
*W4LC	14 130,284 390 25 101
*W4FNC/4	A 107,160 381 26 94
*KZ5H/4	A 84,637 304 23 90
*WB2TFM/4	A 76,152 269 24 90
*K4NVJ	A 38,223 160 20 73
*AG4PJ	A 6,148 50 14 39
*W8KHP/4	A 4,356 45 14 30
*K0RRP/4	A 1,372 29 9 19
*W4AAZ	A 253 19 8 15
*N4AW	1.8 1,508 27 9 17
(OP: K4WV)	
NSDX	A 3,199,983 2286 135 402
N2IC/5	A 3,141,460 2244 137 395
K5ER	A 482,205 627 82 223
W4SZUP	A 272,118 508 54 155
K5LAD	A 260,268 435 73 173
K5ZCJ	A 123,959 273 55 136
KD5JGA	A 88,128 218 41 112
N1OXV/5	A 77,818 260 33 108
WNSV	A 66,576 215 39 107
K7IA/5	A 61,200 215 41 95
NSRGV	A 50,050 205 46 97
K4SBQM	A 49,432 143 54 94
KD5JAA	A 41,328 151 48 75
W5MIL	A 24,476 122 42 74
NS0T	A 11,115 89 46 71
NSZK	21 63,852 236 25 77
W5OV	14 1 1 1
W6PU/5	7 22,922 112 22 51
W5ZZ	3.7 8,140 122 10 34
K5RX	1.8 15,470 116 16 54
*N5D0	A 508,625 584 96 229
*W5DG	A 503,132 622 82 220
*W5GFI	A 95,190 253 47 120
*W5LJ5	A 76,160 204 40 100
*KESLO	A 54,864 152 49 95
*K5DZS	A 50,700 146 58 92
*K3TD/5	A 47,847 161 45 78
*N1CC/5	A 47,388 155 45 87
*K5CYP	A 26,300 109 39 61
*W4SJE	A 19,686 92 35 67
(OP: W5EX)	
*K0GE0/5	A 18,584 83 32 60
*K5YJ	A 17,630 87 32 54
*W5BZD	A 12,390 80 20 39
*W5OLF	A 10,281 61 28 41
*NSDIT	A 7,865 57 25 40
*K5M5MM	A 7,632 51 21 32
*K5DHY	A 5,605 41 23 36
*AA5TB	A 5,225 45 24 31
*W5JNC	A 4,277 36 18 29
*W5R	A 3,294 53 18 36
*W5UJ	A 3,049 34 20 27
*K5XRW	A 1,855 22 16 9
*AF5Q	A 1,680 28 25 31
*N5MHM	A 962 23 11 15
*A15G	A 285 8 7 8
*K5SMR	A 195 17 8 7
*N5R1	A 90 5 5 5
*K5JTO	A 18 5 1 2
*N4LJ5	21 71,172 285 27 81
*AF5J	A 816 21 7 9
*AC5O	14 13,912 79 19 55



When a tin can no longer cuts it.

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