

Results of the 2004 CQ WW DX CW Contest

BY BOB COX,* K3EST

Expanded CQ WW Contest Results on the Web

Several elements of our contest reporting are on the CQ website, including Station Operators of Multi-Op stations and expanded QRM. To view these additional and expanded elements of this year's CQ WW results, go to <<http://www.cq-amateur-radio.com/cqwwhome.html>>, then click on "Expanded results, 2004 CQ WW CW" and select the category you want to see. You may also get there by going to our home page at <<http://www.cq-amateur-radio.com>>, clicking on "Contest Rules & Info," then clicking on "CQ World Wide DX Contest" and selecting "Expanded Results, 2004 CQ WW CW."

The sunspots were really going down and depressed conditions were expected for the 2004 CQ WW DX CW Contest. What happened gives truth to the saying "The CQ WW makes its own propagation." The 2004 CW test was a real surprise. Yes, conditions were suppressed. The CQ WW was not. The 2004 contest marks the highest number of submitted CW logs in radio history. Over 4040 logs were received. Contesters got in on the action in droves from all over the world.

New records were set. Hundreds of contesters left home to try an adventure from a DX location. The CQ WW is a fantastic competition, and it brings out the best in operators. Months of preparation, trying out new antennas and equipment, and finally the celebration of ham radio skill and effort come to fruition during 48 fun-filled hours. If you operate in the CQ WW, you can't lose. It draws you in with its siren call. As has often been said, it's a world-wide party . . . and all of you are invited!

All Band, High Power

The category that has always stood high on the prestige ladder is Single Operator, All Band, High Power. It is really tough. D4B operated by Al, 4L5A, took the top prize. Almost everyone is now familiar with D4B's big signal and operating skill (<http://www.qsl.net/d44tt>). Al is an enthusiast contesteer. He had to retire from the contest late on Sunday because of illness. However, he still managed to take first place! EA8ZS operated by many-time world champion Jose, CT1BOH, took the number two position (<http://www.qsl.net/ct1boh>). Jose was signing "dit dit" after every QSO as a thank you to Aruba (P40E and P43E). Third place went to Scott, K0DQ, who operated at P40Q (P43P's QTH).

Randy, K5ZD/1, pushed the pedal to the floor and took the number one position in the U.S. (<http://www.k5zd.com/>). His skill plus station allowed him to edge out Pat, N9RV, from Indiana (<http://www.qrz.com/n9rv>). Pat lost most of antennas soon after the contest and hopefully they will be rebuilt by the 2005 contests. Third place was taken by Alex, LZ4AX, operating from the Penn State station of K3CR (<http://www.clubs.psu.edu/up/k3cr/>).

In Europe it was a real fight. After detailed

log checking, CT8T, operated by OH1NOA, was declared the winner. Second place went to GI1W with GI0NWG at the key, and third place went to RK4FF. The number one scorer from the far west U.S. was Glenn, K6NA, followed by Steve, N2IC/5, from SW New Mexico.

Special mention should be made of A45XR, 6W1RW (F6BEE), S9A (OH2PM), and 9M6NA (JE1JKL). They made the maximum effort from rare locations.

The continental winners were: North America 8P5A (W2SC), USA K5ZD/1, Africa D4B (4L5A), Asia A45XR, Japan JH4UYB, Europe CT8T, Oceania 9M6NA (JE1JKL), South America P40Q (K0DQ).

All Band, Low Power

Running barefoot is fun. Most of the entrants in the CQ WW run 100 watts or less. The Low Power category is the largest by far. To win this category for your country is not easy. Winning for the world is very difficult. Reprising his win from SSB was Thomas, SU9NC. He was easy to work and active on all bands. In addition, he set a new Africa low power record. Second place went to long-time low power advocate Joe, AA3B, who pushed V26K up the rankings. Third place went to CT9M (<http://www.ct3ee.net>) operated by Jon, KL2A (<http://www.kl2a.com/>). Special mention is made of 3V8SQ operated by DL2OBF, who finished fourth in the world.

The number one score in Europe and number six in the world was CT7B, operated by 18-year-old Felipe, CT1ILT. CT1ILT is a call sign to keep your eyes on. He is going places (<http://ct1ilt.cypton.com/>)! Another Iberian peninsular station took second-place honors; Manuel, EA7RM, also pushed the key to ninth place in the world. Third place in Europe went to Goran, YT7AW, who operated from 4N0W. In the U.S., Michael, W1MU, led the pack with 2.2+ million points. Second was Ed, N1UR, and third was Marvin, N5AW.

The continental winners were: North America V26K (AA3B), USA W1MU, Africa SU9NC, Asia UO2M (UN7MO), Japan JI1RXQ, Europe CT7B (CT1ILT), Oceania VK2IMM, South America XQ4ZW.

QRP

If you want to practice your contesting skills, the QRP category is the way to do it. Finding new



4M5X, operated by W4SO.

stations and knowing when to call a station or give up and move on are what QRP is all about. It is surprising what you can work with 5 watts. If you want to improve your contesting skills, the QRP category could be the refresher course you need. The number one score was John P40A (KK9A). Travelling to a great location and placing a great op behind the key resulted in the biggest small signal in the contest. Second place went to Bosko, YT7TY, located at the Serbian-Hungary border. He took top honors in Europe. You had to travel to the beautiful country of Costa Rica to find TI5N operated by N0KE, who finished number three worldwide (<http://www.qsl.net/ti5kd/contest.htm>). KT8X, operated by KK8I (aka DL2HBX), Uli, took top U.S. honors. Almost breaking a thousand QSOs in the small-signal category means you are doing something right. Taking second place was Tom, N4KG, from northern Alabama. Bill, N8ET, took third place. In Europe, YT7TY took top honors. Second place went to HG5Z operated by HA1CW, and third to LY4XX (LY2MW; <http://www.qsl.net/ly2mw/>).

The continental winners were: North America TI5N (N0KE), USA KT8X (KK8I), Africa no entry, Asia UA9SG, Japan JR4DAH, Europe YT7TY, Oceania VK8AN, South America P40A (KK9A).

Assisted

When a single op receives QSO/multiplier spotting assistance from some source in any form, he or she is in the Assisted category. There are lots of reasons to try the Assisted category, and helping your club is one. You have to make the best use of spots without it affecting your QSO total. This is not easy to do. This year's world top scorer was 9Y4ZC, operated by Bernd, DL6FBL. Bernd did so well that he keyed his way to a new world record. Second place went to 5B/AA1TN, and third place went to John, W2GD, who put P40W through a workout. Way over in Tanzania, Mas made a lot of people happy as 5H3KK. Contesting from Germany's

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Chris, A45SR, put Oman on the map.

most southern corner, Manfred, DJ5MW, submitted the the number one score from Europe (<http://www.dj5mw.de>). Two Zone 16 callsigns battled for second and third place. Finishing number two was Vlad, RX4HZ. Third place in Europe was taken by UW8M, operated by UR5MID (<http://uw8m.narod.ru/index.html>).

If you are familiar with U.S. Assisted operators, you know the callsign K3WW. This year Charlie again took the top spot as number one USA (<http://www.k3ww.com/>). Not too far away geographically was Noah, K2NG, who took second place. The third-place position went to NI1N located in southwestern Virginia.

The continental winners were: North America K3WW, USA K3WW, Africa 5H3KK (JE3MAS), Asia 5B/AA1TN, Japan JF1PJK, Europe DJ5MW, Oceania VK1AA, South America 9Y4ZC (DL6FBL).

Multi-Single

Each year contesters band together and travel to compete in a multi category, of which Multi-Single is the most popular. A real battle occurred in this category in the 2004 contest. Three FB stations with top operators went head to head. Three different continents took top honors. Putting Aruba on the map, P40L was a three-man team from northern California. They keyed their way to the top. Second place went to EA6IB located on Ibiza among the Balearic islands. Ideally located from a holiday and contesting perspective, EA6IB is always loud (<http://www.qsl.net/ea6ib>). Third place went to long-time Asian top scorer UA9AYA. Located on the outskirts of Chelyabinsk, UA9AYA put Zone 17 in a lot of logs.

The top Oceania score was the Japanese team at AH2R. They set a new Oceania record. Another team that deserves special mention is the Russian team at 8Q7DV (<http://www.fotki.com/8q7dv>). They provided a double multiplier for lots of people. First place in Japan was JA7YAA, who took away the combined SSB/CW MS trophy (<http://www.ja7yaa.org.tohoku.ac.jp/index.html>).

The number one scorer in Europe was the above-mentioned EA6IB. That team was followed by two Slovakian teams. At number two in Europe was the HF contest station situated in the heart of Europe, OM7M (<http://www.qsl.net/om7m>). They started seriously operat-

ing MS in 1999 and their results prove their skill. Just a little behind in third place was OM8A (<http://www.qsl.net/om8a>).

In the U.S. the number one score was submitted by K1IR. Jim's team from Sudbury, Massachusetts led all the rest to reach the top of the scores list. Second place went to K8AZ. Tom's crew is always competitive and his north-eastern Ohio station did its usual fine job. Third place in the U.S. went to W2FU in New York.

The continental winners were: North America VP2M2M, USA K1IR, Africa C91F, Asia UA9AYA, Japan JA7YAA, Europe EA6IB, Oceania AH2R, South America P40L.

Multi-Two

The M2 category continues to grow in popularity. You have to have a good plan and operators if you want to try for the top spot. You cannot do better than to set a new world record the first time you enter a new category. The multinational team of HC8N would make Darwin proud, as it evolved to new heights and set a new Multi-Two world record. Operating from the heights of an extinct volcano with antennas really in the clouds, HC8N is to be congratulated (<http://hc8n.info/>). The Caribbean Contesting Consortium, PJ2T, took second place from the island of Curacao (<http://www.pj2t.org>). Third place went to CT9L representing the Rhein-Ruhr DX Association team. Three European teams have taken up the M2 challenge. Finishing number one was club station RU1A. Founded in 1956, this callsign has been a beacon from northern Europe. Did you ever wonder where IQ4A went? They changed into IR4X. Sitting on a mountain overlooking the plains of central Italy, IR4X took second place. Third place in Europe went to the UU7J contest team in the Crimea (<http://www.uu7j.com>).

The number six world score and number one USA M2 score was submitted by K4JA. This was Paul's last contest from his location located in northeastern Virginia (<http://www.k4ja.com>). What a way to go out! Second place went to Sig's N3RS team from the Philadelphia area. Made up of seasoned veterans, this Frankford Radio Club powerhouse always finishes near the top. Third place went to K1AR. John's team ventured into M2 and found they had lots of fun. Finally, Akira, JA8RWU, decided to try his luck in the M2 category and ended up with the new Japan record.

The continental winners were: North America K4JA, USA K4JA, Africa CT9L, Asia RT9W, Japan JA8RWU, Europe RU1A, Oceania no entry, South America HC8N.

Multi-Multi

What makes up a good Multi-Multi team? Take a lot of work, a lot of planning, and friends coming together from all corners of the world and you have a Multi-Multi effort. Usually planning begins early in the year, as was the case with this year's winner, 5U5Z, the Voodoo Contest Club. This group of friends has placed western Africa on the map for a decade or more. They are to be congratulated for their dedication. The 5U5Z gang made it into almost everyone's log.

It is quite unusual for the second- and third-place winners to be from the U.S. Second in the world and number one in the USA was K3LR (<http://www.k3lr.com>). This was K3LR's first CW win in the CQ WW and it is very special to all the team members! Wow, number two world and number one U.S.! Tim's team from

western Pennsylvania just edged out the number-three world score of W3LPL. This was a real competition. Third place in the U.S. went to KC1XX, who experienced some aurora-like conditions (<http://www.kc1xx.com>).

The number one scorer from Europe was the DF0HQ club call of the Ilmenau Contest Club. The number world IARU champion certainly showed its skills in the CQ WW (<http://www.df0hq.de>). Second place went to the LZ9W Contest Team. They were loud and they could hear. The GMDX Group Contest Team, GM5A, made Scotland proud by finishing third in Europe (<http://www.gmdx.org.uk/>).

The continental winners were: North America K3LR, USA K3LR, Africa 5U5Z, Asia UP5G, Japan JA3YBK, Europe DF0HQ, Oceania ZL6QH, South America no entry.

Clubs

Radio clubs are an important glue in contesting. They provide friendships, construction skills, and advice. Contesters can talk for days about their contesting experiences, a feature for which clubs are well suited. To end up with the huge scores achieved by the winners takes an enormous effort.

The 2004 winners amassed many of top scores in the world. The world's highest club score came from the Frankford Radio Club. This famous club draws upon a winning strategy every year. Second place was taken by the Yankee Clipper Contest Club. Getting all your members on the air helps everyone. Third place went to another East Coast powerhouse, the Potomac Valley Radio Club.

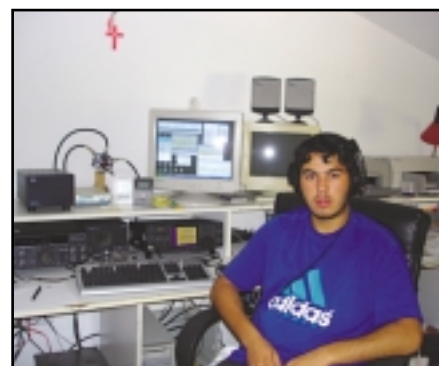
Every year in Europe there is a friendly battle in Germany for the top DX club score. The 2004 top DX club score came from a club in southern Germany, the Bavarian Contest Club. Second place was taken by the club from central Germany, the Rhein-Ruhr DX Association. Third place went to Contest Club Finland.

The total points accumulated by the six clubs was over 1.48 billion! That's a lot of people on the air. A great job was done by all the clubs.

Team Contesting

What do five contesters from anywhere in the world have in common? Besides the fun of contesting, they can make a team. Register your team before the contest and you are all set to enter the Team Contesting category. As you can see in these results, the teams can be made up of members from all over the world.

1. Neiger's Tigers Team No. 1 (51,375,582): 8P5A (W2SC), EA8ZS (CT1BOH), D4B (4L5A), P40Q (K0DQ), TO4A (N6TJ).



CT7B, operated by Filipe, CT1ILT.

2. Team Horizontal (27,029,341): K1DG, K5ZD/1, K2UA, N9RV, VY2NT (K6LA).
3. Neiger's Tigers Team No. 2 (20,907,259): KQ2M/1, K1ZZ (N6ZZ), K6NA, 6W1RW (F6BEE), IR7G (N6AA).
4. CCF Team Sibelius (17,874,372): CT8T (OH1NOA), ES5TV, OH1F (OH1MDR), OH6NIO, 8R1K(OH0XX).
5. WWYC The Big 5 (11,697,680): CT7B (CT1ILT), ON5ZO, OZ1AA, DJ1YFK.
6. Have-CW – Will Contest (6,410,105): ZS1EL, ZS4TX, VE1OP, N5KA, K5UN.
7. VKCC East (6,349,200): VK2NU, VK9AA, VK2BAA, VK2IMM.
8. VKCC North-East (6,223,522): VK4DX, VK1AA/4, VK1KI (K1KI).
9. CCF Team Nurmi (3,540,900): EA8EW (ES2RR), OH0V (OH6LI), OH6AC (OH6CS), OH6BG.
10. CCF Team Sauna (2,713,381): OH0B (OH2UA), OH0I (YL2KL), OH2U (OH2IW), OH4A (OH6QU).
11. CCF Team Finlandia (2,096,246): EA8EA (OH2MM), OH0Z (OH5DX).
12. N1MM Logger Users Group (1,510,539): KE5CTY, ZZ8Z (PY8AZT), VA7ST, N7OR.
13. VKCC South-West (1,581,689): VK6LW, VK3YB, VK4AN, VK6DXI.
14. CCF Team Sisu (948,825): OH2LU, OH4MFA.
15. CCF Team Terva (943,730): OH0M (OH1MM), OH2BH (OH1WZ), OH4MCV, OH6XX.
16. CCF Team Mannerheim (762,684): OH2BO, OH6KXL, OH6OS, SM0W (SM0WKA).

Records

On the CQWW.com web page are the all-time records for each continent and country. Setting a new record is difficult and challenging. Take a look at your country's records and choose a record you can try to beat. Congratulations to the following stations which set new world and continental records.

World: 14 CN2KM(SM2EKM), 1.8 IH9U (IN3QBR), Q1.8 LY5A (LY2PAJ), AA 9Y4ZC (DL6FBL), A3.5 HA5A (HA7ANT), M2 HC8N.

Africa: 14 CN2KM (SM2EKM), 1.8 IH9U (IN3QBR), LA SU9NC, L3.5 6W7RV (F5CW).

Asia: 14 A61AJ (N2AA), 7 A61AJ (S53R), AA 5B/AA1TN (RW3QC), A1.8 UA9AT.

Europe: 7 T9/9A5E, L3.5 OH0I (YL2KL), Q7 OM7DX, Q3.5 SP6GCU, Q1.8 LY5A (LY2PAJ), A3.5 HA5A (HA7ANT).

Japan: M2 JA8RWU.

North America: 14 3E1A (DJ7AA).

USA: L3.5 N4IJ.

Oceania: 14 KH7X (KH6ND), A14 VK1AA, A1.8 VK6VZ, MS AH2R.

South America: AA 9Y4ZC (DL6FBL), A7 PY2WC, A3.5 PY2NDX, M2 HC8N.

Special Mention

The CQ WW sure brings out the desire to travel for many ops. Thanks to the many DX-peditions and the efforts of hundreds of contesters who made the contest experience more interesting for all of us this time. Here are some calls you probably worked:

VP2ETL, V26K, C6AKQ, C6AOQ, C6AWS, SU9NC, 8P5A, V31JP, VY2NT, VE6JY, J79A, HI3KM, TO4A, 3E1A, KP4KE, KP3/VE7AHA, V47KP, PJ7/K4MA, IH9P, IH9U, EA8EW, EA8EA, EA8/OH4NL, EA8/DJ1OJ, EA8/PC8E, EA8/LY1DF, D4B, SU8BHI, CN2KM, CN2R, V51/DL5XL, S9A, 6W1RW, 6W7RV, ST2T, 3V8SQ, 3V8SF, R9/UT7CR, XU7ADE, XU7ADF, 5B/KI0BP, VU2WAP, HL2/JH1FFX, XW8KPL/RU3DX, HS0ZAR, HS0ZDR, A61AJ, UK/JI2MED, 9M2/G3TMA, 9M2/G4ZFE, OH0Z, OH0V, OH0B, OH0M, OH0I, OH0RB, ZA/Z35M, OE2G, T9/9A5E, 9A9D, J45KLN, SX5R, J43J, JI1NJC/TF, EI/SP4Z, IR7G, I0/N6CY, LX/G3VQO, CT8T, YO2/DL1CW, MW5A, VK1KI, 9M6NA, 9M8YY, KH2/WX8C, K1ER/KH6, KH6/N0CO, KH6/W0CN, YE0X, VK9AA, VK9NW, DU9/N0NM, ZK1DRA, P40Q, P40J, 5K5Z, 8R1K, CW2A,



EA8ZS, operated by Jose, CT1BOH.

TI5N, 5H3KK, 5B/AA1TN, HS0ZDJ, 4U1ITU, EI/AB2E, P40W, PJ4M, 9Y4ZC, 4U1UN, VP2VVV, VP2MZM, C91F, 8Q7DV, LX7I, AH2R, P40L, VP8WWW, J7OJ, VP9I, V31RM, VP5W, CT9L, YI9KT, OD5/DJ5CL, 9N7BCC, GJ2A, HC8N, PJ2T, 5U5Z, HS72B, 3D2XA, 9Y4TBG, EA6/DH5CM, and HP1/DL6MYL.

One fun aspect of the contest is the competition that takes place within a country or other locality. Two friends or more go to it to see who will come out on top. By looking carefully at the results you can see many such competitions.

Comments

The number of CW logs received for the 2004 contest reached an all-time high mark of approximately 4040. Over the years the number of CW logs has not declined; it has grown. The activity on CW is most apparent to anyone who tunes across the spectrum during the CQ WW CW contest. There is activity wall to wall on all the bands. CW is certainly an eloquent mode.

The percentage of electronically received logs continues to rise. The CQ WW Contest Committee wants to thank all of the entrants who took the time to submit their log via the CQWW robot. Your effort to submit an electronic log allows for a fairer adjudication process (please send in your log no matter how small). Submitting an electronic log is easy. Send your SSB log and summary to <cw@cqww.com> (SSB to <ssb@cqww.com>). Please send your log in Cabrillo format. If you did everything okay, you will get back an acknowledgment and a tracking number. The number of entrants who have a problem with log submission has decreased greatly.

Thanks to the sharp eyes of you, the CQ WW entrants, several corrections were made to the final UBN/NIL reports which are available at CQWW.com. We appreciate your input. It helps make the contest as accurate as possible.

In the CW section of the 2004 contest there were several stations that were flagged as having potential problem logs. It takes a great deal of time to research a "flagged" log to find out what the entrant was doing. The CQ WW Contest Committee has a lot of data at its figure tips. We have compiled averages for the number of packet hits that should occur in a non-packet vs. an Assisted log for each category for Europe, the U.S., and DXpeditions. Each has its own average. Using this information plus some very sophisticated software, we run all the logs through several programs to create a list of logs that require further inquiry. The

(Continued on page 99)

CW TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND World
D4B (Opr: Alexander Teimurazov, 4L5A)
 Donor: W9IOP Memorial (Albert Kahn, K4FW)

World Low Power
Thomas Poland, SU9NC
 Donor: Slovenia Contest Club

World QRPp
P40A (Opr: John Bayne, KK9A)
 Donor: Gene Walsh, N2AA

World Assisted
9Y4ZC (Opr: Bernd Och, DL6FBL)
 Donor: Robert McGwier, N4HY

USA
Randall Thompson, K5ZD/1
 Donor: Frankford Radio Club

USA Low Power
Michael Zak, W1MU
 Donor: North Coast Contesters

USA - Zone 3
Glenn Rattmann, K6NA
 Donor: Central Arizona DX Association

USA - Zone 4
Patrick Barkey, N9RV
 Donor: The Society of Midwest Contesters

Canada
VC3L (Opr: Ron Vander Kraats, VE3AT)
 Donor: CQ magazine

Carib./C.A.
8P5A (Opr: Tom Georgens, W2SC)
 Donor: Chuck Shinn, W7MAP

Europe
CT8T (Opr: Timo Klimoff, OH1NOA)
 Donor: W3AU Memorial (Pete Raymond, N4KW)

Europe - Low Power
CT7B (Opr: Filipe Monteiro Lopes, CT1ILT)
 Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Scandinavia
OH1F (Opr: Timo Pohjola, OH1MDR)
 Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)

Russia
RK4FF
 Donor: Roman Thomas, RZ3AA

Africa
EA8ZS
 (Opr: Jose Carlos Cardoso Nunes, CT1BOH)*
 Donor: Gordon Marshall, W6RR

Asia
Chris Dabrowski, A45XR
 Donor: Chuck Shinn, W7MAP

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

Japan - Low Power
Hiroyuki Ueno, JI1RXQ
 Donor: Western Washington DX Club

Oceania
9M6NA (Opr: Saty Nakamura, JE1JKL)
 Donor: Chris Tran, ZL1CT

South America
P40Q (Opr: Scott Redd, K0DQ)
 Donor: Venezuela DX Club

SINGLE OPERATOR, SINGLE BAND
World - 28 MHz
Pedro Alberto Cano Pereira, CX5BW
 Donor: Joel Chalmers, KG6DX

World - 21 MHz
Bernie Van Der Walt, ZS4TX
 Donor: Lew Sayre, W7EW

World - 14 MHz
CN2KM (Opr: Jan Erik Holm, SM2EKM)
 Donor: W2JT Memorial (North Jersey DX Assn.)

World - 7 MHz
Robert Orehoci, T9/9A5E
 Donor: Alex M. Kasevich, VP2MM

World - 3.5 MHz
CN2R (Opr: James Sullivan, W7EJ)
 Donor: Fred Capossela, K6SSS

World - 1.8 MHz
IH9U (Opr: Mauro Tomazzoni, IN3QBR)
 Donor: Kenneth Byers, Jr., K4TEA

USA - 28 MHz
Bill Tippett, W4ZV
 Donor: Wireless Institute of the Northeast

USA - 21 MHz
Bertram Aaron, K2BA/5
 Donor: Wayne Carroll, W4MPY

USA - 14 MHz
Saul Abrams, K2XA
 Donor: Northern Illinois DX Association

USA - 7 MHz
Bill Kollenbaum, K4XS
 Donor: W6AM Memorial (Jan Perkins, N6AW)

USA - 3.5 MHz
K7RAT (Opr: Tree Tyree, N6TR)
 Donor: Bill Feidt, NG3K

USA - 1.8 MHz
David Patton, NN1N
 Donor: Kat Obermann Memorial
 Dave Patton, NT1N & Mark Obermann, AG9A

Canada (14 MHz)
VE6JY (Opr: Gary Caldwell, VA7RR)
 Donor: Radio Amateurs of Canada

Carib./C.A. (14 MHz)
C6AKQ (Opr: Robert Patten, N4BP)
 Donor: Bill Hein, NT1Y

Europe - 28 MHz
OH0Z (Opr: Ari Korhonen, OH5DX)
 Donor: Jay Pryor, K4OGG

Europe - 21 MHz
9A80A (Opr: Zdravko "Emil" Balen, 9A9A)
 Donor: Robert Naumann, N5NJ

Europe - 14 MHz
Ranko Boca, YF6A
 Donor: G3FXB Memorial (Maud Slater)

Europe - 7 MHz
OH0B (Opr: Toni Linden, OH2UA)*
 Donor: Ivo Pezer, 9A3A

Europe - 3.5 MHz
SN3A (Opr: Czeslaw Dubicki, SP3HLM)
 Donor: K3VW Memorial (Frankford Radio Club)

Europe - 1.8 MHz
Jerzy Staniszl, SP3BQ
 Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Japan - 21 MHz
Akito Nagi, JA5DQH
 Donor: DX Family Foundation

Japan - 14 MHz
Hiroyuki Inaba, JS3CTQ
 Donor: Chris Terkla, N1XS

Asia - 14 MHz
A61AJ (Eugene Walsh, N2AA)
 Donor: JA4WFM Memorial
 (Alexander Teimurazov, 4L5A/D4B)

MULTI-OPERATOR, SINGLE TRANSMITTER
World
P40L (Oprs: KX7M, N6XI, W6LD)
 Donor: Anthony Susen, W3AOH

U.S.A.
K11R (Oprs: K11R, K1LZ, K10A, K1VR, KE1J, W1VE)
 Donor: Douglas Zwiebel, KR2Q

Canada
VE7GL (Oprs: VE7GL, VA7OO, VA7AO, VE7JH, VA7VZ, VE7HJJ)
 Donor: Eastern Canadian DX Assn.

Carib./C.A.
VP2MZM (Oprs: K2DM, K3ZM)
 Donor: Lone Star DX Association

Africa
C91F (Oprs: AA4NN, W4GMY)
 Donor: Harry Booklan, RA3AUU

Asia
UA9AYA (Oprs: RA9AB, RW9MG/9, RZ9AZ, UA9AR, UA9BA, UA9CDV, UN4L, UN0L)
 Donor: Steve Merchant, K6AW

Europe
EA6IB (Oprs: EA3AIR, EA3AVV, EA3KU, EA5BM, EA5GX, EA6BF, EA6FB, EA6FO)
 Donor: Bob Cox, K3EST

Japan
JA7YAA (Oprs: JE7HLZ, JH0NZN, JG7PSJ, 7M1JAS, JO7DJT, JO7FTJ, JI5RPT)
 Donor: Vienna Int'l Amateur Radio Club - 4U1VIC

Oceania - Pacific Rim
AH2R (Oprs: JI3ERV, JR70MD, JR3RVO, JO1DFG)
 Donor: Junichi Tanaka, JH4RHF

South America
CP6CW (Oprs: CP6UH, KM6O, N0AT, N0STL, W0OR, W0ZR)
 Donor: Araucaria DX Group

MULTI-OPERATOR, TWO-TRANSMITTER
World
HC8N (Oprs: N5KO, K6AW, HA1AG, K1TO)
 Donor: Ranko Boca, YT6A

USA
K4JA (Oprs: K4JA, AJ9C, K7SV, KA9FOX, KE9I, KO9A, WE9V)
 Donor: Northern Neck Contest Club

Europe
RU1A (Oprs: RU1AA, RW1AC, RV1AW, RA1AIP, RK1AM, UA1ARX, RA1AR, RN1AM)
 Donor: Aki Nagi, JA5DQH

MULTI-OPERATOR, MULTI-TRANSMITTER
World
5U5Z (Oprs: G0MTN, G3PJT, G3SXW, G4BWP, G4PIQ, K5VT, KC7V, N7NG)
 Donor: K2GL Memorial (Doug Zwiebel, KR2Q)

USA
K3LR (Oprs: K3LR, K3UA, K0RF, N2NC, K3EST, W0UA, N5RZ, K8CX, N3SD, KL9A, W2AU)
 Donor: N6RJ Memorial (Bob Ferrero, W6RJ)

Europe
DF0HQ (Oprs: DL1AUZ, DL1DTL, DL3OI, DL3TD, DL4MM, DL5ANT, DL5AXX, DL5YY, DL7VOA, DL8WAA)
 Donor: Finnish Amateur Radio League

Japan
JA3YBK (Oprs: JH3PRR, JG3KIV, JI3OPA, JP3PZD, JO3LDN, JH3AIU, JH4NMT, JR4ISF, JF4FUF)
 Donor: Ryozo Goto, JH3JYS

Oceania
ZL6QH (Opr: ZL1AZE, ZL1BYZ, ZL2AGY, ZL2BSJ, ZL1CT, ZL1TM)
 Donor: Prairie DX Group

WORLD - SSB/CW COMBINED
HC8L/HC8N (69,753,125)
 Donor: W0ID/W0UN Alpha Award

USA - MULTI-MULTI SSB/CW COMBINED
W3LPL (34,641,108)
 Donor: N8SM Memorial (Operators of K3LR)

JAPAN - MULTI-SINGLE SSB/CW COMBINED
JA7YAA (8,083,290)
 Donor: Vienna Int'l Amateur Radio Club - 4U1VIC

CONTEST EXPEDITIONS
World Single Operator
S9A (Opr: Pertti Simovaara, OH2PM)
 Donor: Yankee Clipper Contest Club

World Multi-Single
8Q7DV (Oprs: RA9CKQ, RW6AN, UA9CDC, UA9CLB, UA9DD, UN9LW)
 Donor: Carl Cook, A16V

World Multi-Multi - Jim Neiger, N6TJ Award
3D2XA (Oprs: K2KW, N6BT, KE7X, AG9A, WA6O, W2VJN)
 Donor: Alexander Teimurazov, 4L5A/D4B

SPECIAL - SINGLE OPERATOR AWARD
World SSB/CW Combined
D4B (Opr: Alexander Teimurazov, 4L5A/D4B)
 (34,038,802 points)
 Donor: Hrane Milosevic, YT1AD

World All Band: Under 21 years old
CT7B (Opr: Filipe Monteiro Lopes, CT1ILT)
 Donor: Chuck Shinn, W7MAP

CLUB
World SSB/CW
Frankford Radio Club
 (387,506,863)
 Donor: W1WY Memorial (CQ magazine)

Non-USA SSB/CW
Bavarian Contest Club
 (263,199,539)
 Donor: N6AUV Memorial
 (Northern California Contest Club)

*Second place

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
D4B	91/13/47	186/17/48	1478/27/93	1470/34/112	1952/33/114	2062/31/105
EA8ZS	144/7/33	569/17/66	1886/33/103	1144/28/98	1248/34/99	1361/33/103
P40Q	94/11/23	459/21/69	1885/26/92	981/31/92	2016/27/9	971/25/78
A45XR	141/12/43	466/22/68	1336/33/100	1010/36/109	1757/38/111	837/32/102
8P5A	151/11/22	672/22/76	1079/28/85	1434/35/94	1810/30/91	1376/26/89
VY2NT	340/13/53	984/21/87	1369/28/94	1478/33/106	798/23/86	251/20/47
S9A	24/7/17	53/15/35	450/24/74	1086/35/111	1556/33/100	1559/25/86
CT8T	181/8/49	433/21/68	1526/26/92	882/28/97	1220/29/99	896/30/96
6W1RW	9/5/9	77/11/38	437/23/72	1122/30/95	1509/33/108	1109/27/91
9M6NA	38/10/12	270/19/53	1008/31/9	826/35/85	1282/35/95	502/26/73

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	62/13/34	418/21/83	616/29/106	1174/37/124	803/31/108	131/23/68
N9RV	33/8/16	258/21/72	852/35/102	1125/40/116	889/32/113	175/24/71
K3CR	60/11/31	333/21/80	486/26/97	952/38/118	860/30/105	130/23/64
W1KM	46/11/24	692/21/79	487/24/80	840/32/96	684/26/91	132/23/65
K1DG	42/11/25	253/20/75	514/30/104	913/34/111	675/29/101	157/25/76
AA1K/3	45/11/29	357/19/70	537/24/86	776/37/112	890/26/98	117/20/59
K1TV	56/11/34	412/21/72	647/27/90	829/33/98	613/25/90	139/23/68
N2IC/5	32/12/16	229/25/63	785/34/88	477/38/107	674/32/103	276/29/61
K1ZZ	40/10/24	300/24/79	483/29/101	655/31/100	645/27/90	225/26/85
K5GN	37/11/20	206/20/71	563/35/86	548/37/107	862/33/111	238/26/69

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

P40L	115/11/29	731/25/85	1631/33/121	1229/40/130	1758/32/117	1226/28/96
EA6IB	69/16/67	1095/32/109	1769/37/138	1643/38/144	1558/37/135	571/34/116
UA9AYA	247/17/57	917/26/92	1219/35/125	960/37/121	980/36/122	725/31/96
AH2R	21/15/20	297/28/65	1261/33/105	980/39/119	2016/37/115	704/36/88
807DV	35/13/30	433/21/68	1526/26/106	653/35/122	1391/33/117	1217/31/98
OM7M	333/21/83	1133/32/118	1428/39/144	1009/39/138	806/37/138	215/34/108

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1IR	37/13/34	489/21/85	766/33/120	1094/37/134	709/31/120	114/24/77
K8AZ	42/15/39	240/24/87	795/38/132	919/40/145	764/32/127	104/26/85
W2FU	34/12/31	447/22/86	544/34/118	706/40/138	827/35/124	105/24/75
K300	22/16/22	341/24/86	540/29/98	730/38/141	832/31/115	88/24/76
N4UR	28/10/26	166/21/80	406/31/112	695/38/129	862/32/122	116/23/74
N0NI	27/12/26	121/23/65	355/34/106	678/39/128	726/35/128	110/26/72

WORLD MULTI-OPERATOR TWO TRANSMITTER

HC8N	276/14/39	1114/28/94	2552/38/131	2219/40/140	3585/39/143	2683/37/132
PJ2T	329/16/45	720/25/89	2520/33/122	2224/39/136	2493/34/115	1902/30/102
CT9L	237/10/51	1189/22/87	2534/32/108	1717/37/129	2383/33/123	2215/31/109
R19W	362/15/57	1016/26/103	1501/36/129	1211/37/125	1353/33/124	960/31/99
RU1A	634/22/74	879/33/124	1791/39/148	1995/40/140	1443/40/135	412/34/107
K4JA	132/13/51	652/27/97	1598/38/141	1488/40/146	1478/34/137	389/30/102

USA MULTI-OPERATOR TWO TRANSMITTER

K4JA	132/13/51	652/27/97	1598/38/141	1488/40/146	1478/34/137	389/30/102
N3RS	81/12/46	644/25/86	1259/38/129	1194/39/141	1408/35/132	292/26/92
K1AR	46/12/27	346/23/87	994/38/129	900/39/136	967/33/126	186/24/83
N4WW	36/11/25	252/21/84	813/37/121	783/39/120	997/34/128	296/24/83
W6YI	29/12/16	239/27/56	1154/38/125	654/39/131	695/35/113	313/30/66
W8AV	47/10/28	215/21/79	422/33/116	1022/40/131	762/33/123	154/24/78

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

SU5Z	333/16/59	929/30/87	2062/36/129	4276/39/155	4045/39/153	2602/36/137
K3LR	160/16/58	654/31/103	1441/40/152	1988/40/158	1411/38/147	568/33/112
W3LPL	228/15/54	909/29/101	1575/37/139	1814/40/160	1548/37/149	613/32/109
DF0HQ	878/18/70	1968/35/121	2531/40/158	1905/39/145	1243/38/144	502/33/114
LZ9W	852/17/70	1407/30/106	2749/36/141	2173/36/132	1835/36/137	636/34/115
KC1XX	225/14/50	958/27/103	1322/39/139	1811/40/153	1285/34/136	468/31/109

USA MULTI-OPERATOR MULTI-TRANSMITTER

K3LR	160/16/58	654/31/103	1441/40/152	1988/40/158	1411/38/147	568/33/112
W3LPL	228/15/54	909/29/101	1575/37/139	1814/40/160	1548/37/149	613/32/109
KC1XX	225/14/50	958/27/103	1322/39/139	1811/40/153	1285/34/136	468/31/109
K9NS	179/20/52	533/29/94	1113/39/135	1414/40/150	1331/36/138	477/31/102
K1TTT	125/14/53	662/25/96	584/34/123	1716/40/155	1185/35/127	354/26/94
K1RX	121/13/43	679/26/94	800/37/125	1626/40/148	1058/34/131	339/26/89

good news is that very few logs are flagged. Out of approximately 4040 CW logs only 40 were flagged. The great majority of the 40 were stations that innocently forgot to claim the Assisted category. The remaining logs remained suspicious. More sophisticated checking techniques were needed to prove that something was amiss. As you can imagine, this creates a lot of work. Fortunately, the CQ WW CC has dedicated members who are in the highest levels of contesting.

A problem that has been emerging over the last few years is the use of help in the contest. If you are single operator in any category, you cannot receive help in any way from another person. Each year we receive reports of someone allegedly having another operator spot or work QSOs for him. This is against the rules, and we will enforce CQ WW DX Contest Rule XII in such cases (see the 2005 rules elsewhere in this issue).

Thanks

Thanks to the dedicated CQ WW log checkers who help make the CQ WW the standard of contest log checking. Here is the present list: K1DG, K3WW, K3ZO, KR2Q, N2AA, N2NC, N3ED, N6ZZ, N9RV, W3ZZ, K1AR, KM3T, KT3Y, N5TJ, N5NJ, K6AW and N8BJQ. The DX advisors offered advice and sorted out potential problems: CT1BOH, DL6RAI, EA3DU, F6BEE, G3SXW, I2UIY, JE1CKA, OH2KI, OH2MM, PY5EG, S5OA, UA9BA, VA7RR, VE3EJ, RA3AAU, E21EIC.

Dick, N6AA, and Larry, N6TW, once again spent countless hours dealing with incoming logs and making the CQ WW database the best in contesting. The CQ WW uses the software developed by Tree, N6TR. Additional software provided by WT4I was used. The CQ WW records are maintained by John, N2NC, and K3EST. Phil, N6ZZ, put in lots of hours making sure the database was as clean as possible. Thanks as always to John, K1AR, for his advice.

Congratulations to all the participants! See you in the 2005 contests.

73, Bob, K3EST

DX QRM

Great fun! A big thank you to my hosts, the Scouts of Monastir! . . . **3V8SQ**. Definitely the most fun one can have in a contest with just one dipole! Hats off to all the great CW op callers who let us keep the rate up despite our weak signal. . . . **4U1UN**. Huge pile-ups at times made run tough, but it was a great contest. Poor antennas on low bands. I'll be back with a real setup! . . . **6W1RW**. First time on 160m in CQWW. Happy with the result considering I was using an inverted Vee antenna. . . . **7S2E**. Wow, as usual the WW DX contest is the king of the contests! . . . **B4TB**. My 1st SOAB contest. Feels good, although met the tribander problem. See you next year! . . . **BA4RF**. What a hoot! First time as DX in CQ WW CW! . . . **C91F**. My fourth trip to CT8T. Again thanks to Santos family! . . . **CT8T**. Biggest thrill was working CX5AO and LU5FF on an almost dead 20m band Sunday night as country multipliers #100 and #101! . . . **DL4AAE**. Great to work my second CQWW CW on 160m and enjoyed the nice but different condx. Improved my antennas with a helium balloon and DX rate improved



VK9AA, operated by Bernd, VK2IA.

more than I thought. . . **DL7CX**. Special thanks to my host John, EI7BA, for his hospitality, making it a wonderful contest. . . **EI/AB2E**. Sunday saw the band close down very early here but it was interesting to see 10m during low sunspots. . . **EI4CF**. In my 40th year of contesting, and CQ WW is still the top event. A real pleasure to operate from home for a change, but will hit the road again next year. . . **F5VHJ**. This was my first serious entry in a contest for some years and it was a chance to test my new antenna. The conclusion: it needs improvement! It was a joy to listen to D4B run the 40 metre pile-ups in the wee hours of Sunday morning, and a wonder how he can keep such a mess flowing so smoothly. . . **G0RTN**. Enjoyable contest, even though conditions were a bit marginal for QRP, and 10m didn't really open. As usual the K2 worked superbly; it really is an ace contest rig. . . **G3YMC**. Many thanks to the Jersey club GJ3DVC for letting us rearrange the shack and change all the antennas! No antenna was higher than 45 ft., but we

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CT8T	181/8/49	732/18/70	1526/26/92	882/28/97	1220/29/99	896/30/96
GI1W	518/9/50	1014/22/75	1156/29/109	1170/29/95	884/27/104	167/21/64
RK4FF	192/12/47	786/24/94	1297/34/129	773/33/110	559/32/101	284/29/80
YP3A	155/7/38	607/18/78	1100/35/115	975/33/106	969/34/113	164/30/84
IR7G	209/10/50	506/20/67	1227/31/100	649/30/91	759/34/104	347/25/59
EA5FV	43/6/31	236/14/67	1255/29/106	635/33/102	1108/31/103	532/28/75
TM6X	119/10/52	431/21/74	810/27/103	791/31/88	647/34/99	240/25/77
ES5TV	363/15/53	572/25/84	1019/33/110	761/30/80	566/35/93	256/21/65
HA8A	199/10/49	514/19/70	897/34/104	753/31/105	570/35/116	200/32/73
OH1F	201/7/46	335/20/73	669/30/92	1019/35/98	734/31/92	159/19/60

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

EA61B	69/16/67	1095/32/109	1769/37/138	1643/38/144	1558/37/135	571/34/116
OM7M	333/21/83	1133/32/118	1428/39/144	1009/39/138	806/37/138	215/34/108
OM8A	278/17/68	1085/34/119	1311/36/138	1323/38/135	783/36/129	255/33/110
S50A	159/13/60	681/32/109	1497/36/143	869/37/134	1099/37/126	135/33/96
HG1S	167/10/53	1091/29/99	1318/37/137	1334/37/133	826/36/123	139/31/104
RW2F	748/25/81	1008/31/113	1169/38/139	988/36/134	490/34/128	180/32/110

EUROPE MULTI-OPERATOR TWO TRANSMITTER

RU1A	634/22/74	879/33/124	1791/39/148	1995/40/140	1443/40/135	412/34/107
IR4X	300/14/66	1301/32/113	2016/38/144	1836/38/136	1386/37/131	387/34/105
UJ7J	515/19/70	1407/33/118	2140/36/138	2247/40/141	1586/35/128	681/33/127
ES6Q	676/16/67	1374/29/108	1502/38/138	1651/39/133	928/34/134	237/28/86
HG6N	582/16/66	1112/30/106	1236/37/137	1114/36/126	978/35/119	305/32/98
GJ2A	817/12/58	1440/16/80	1372/31/111	1408/33/107	1350/32/123	424/26/92

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

DF0HQ	878/18/70	1968/35/121	2531/40/158	1905/39/145	1243/38/144	502/33/114
LZ9W	852/17/70	1407/30/106	2749/36/141	2173/36/132	1835/36/137	636/34/115
GM5A	1022/14/63	1720/26/104	1920/35/128	2159/39/134	1350/32/124	347/26/92
LY7A	843/13/59	1321/25/88	1464/33/133	1201/35/121	735/35/120	350/32/96
OZ5E	613/10/51	1073/25/96	838/31/115	894/34/108	348/27/101	89/21/50
UV2L	318/10/50	822/17/75	567/28/90	1022/33/114	382/31/98	140/25/61

had a lot of fun with a small Multi-2 team. . . . **GJ2A**. This was my third QRP entry in CQ WW. It was great to make nearly 1000 QSOs with just 5 watts to simple antennas. . . . **GW4ALG**. A good time to be in HC8. For some reason, we really struggled to work EU on 20. . . . **HC8N**. Had fun, most at the end the last 90 minutes. My first CQWW November 1954 as I1YCZ/Trieste, license 5 months old. . . . **IK2AIT**. 20m is still new to me since until February 2003. I wasn't allowed to transmit there because of my past license privilege, so I'm still learning the propagation using this good opportunity of CQWW contest. . . . **J1BDX/3**. What a contest! Had great fun. Loads of DX to be worked. First attempt at a big CW contest. See you all next time. . . . **M3CVN**. Tnx for another nice contest weekend. Unusual: no soldering iron during whole contest. . . . **OE3GSA**. Contest QTH went QRT just in time for the CW leg. Made some QSOs with indoor dipole for 15/20m. Great fun anyway! . . . **OE5OHO**. Second time ever I made over 1,100 QSOs during a single weekend, hi. Running 100W keeps my neighbors happy, hi. No CQ's, only S&P. Did I ever mention my shack is part of the bedroom? Tnx to my XYL. She must be getting used to have dits and dashes as a lullaby. CU agn in the next contest. Pse don't forget the QSL chore, guys! . . . **ON4CAS**. Great contest for little pistol. Low noise from aurora and nice to give out double mult! . . . **OX2KAN**. Great fun. Jacky, P43P, was the consummate host, as always. Spent most of pre-contest time repairing and setting up Jacky's station after separate lightning and tornado strikes. 168 second radio QSOs but still managed to miss lots of easy multipliers. . . . **P40Q (op K0DQ)**. Being a 160m DXer is not good for overall score. . . . **P40W (op W2GD)**. Had a great contest. Worked with my Banaba K2/100 and that little rig performed outstanding. Great filters which is needed on a crowded band. Little concerned about the impact of a packe cluster on a DX station. Not everyone can handle that big pile-up after being spotted. . . . **PA2R**. Thanks to Atilano (PY5EG/PY2OMS) who gave your unbelievable station at my hands. Really hard to work under these special situation, listening practically to everybody, hi! . . . **PS2T**. 10m was alive and kicking in spite of low solar flux. Saturday was better than Sunday, but Sunday offered some skewed paths and good EU backscatter for many multipliers. . . . **SM6FHZ**. I used the station of Martin, V51WM, on farm Otjikoko near Omaruruin the northern part of Namibia. I'd like to thank Martin and his wife Ursi for their generous hospitality. During the contest, a heavy thunderstorm with 45mm of rain hit the farm. It was really pouring! So I suffered very strong QRN on all bands during the contest weekend, particularly on the low bands. I am sorry to those callers that did not make it through the static. . . . **V51/DL5XL**. Awesome time! I just missed the 1m point mark, so something to shoot for next year. My kingdom for another hour! See everyone again next year. . . . **VE6TN**. Murphy's Law . . . who needs it when you can have an 8 hour power outage on

TOP SCORES IN VERY ACTIVE ZONES

Zone 3	K1DG.....4,334,442	OK1AVY.....2,066,474
K6NA.....2,249,808	AA1K/3.....4,214,421	*SP4R.....1,909,200
K6XX.....2,094,344	KT1V.....4,209,712	
N7TT.....1,534,764	K1ZZ.....3,940,670	
WA7LT.....1,243,032	KQ2M/1.....3,649,088	Zone 16
K07X.....956,940	W1WEF.....3,572,316	RK4FF.....4,771,950
KG7H.....942,630		RW1ZA.....2,479,598
W6UM.....800,442		*UA4FER.....2,183,800
*K6XV.....693,294		UV5U.....2,001,926
K7ZA.....671,606	Zone 14	*RW3GU.....1,766,682
VA7ST.....669,892	CT8T.....6,646,626	*UR3HC.....1,657,436
	GI1W.....5,215,284	RT3T.....1,627,909
	*CT7B.....4,741,380	*RZ4AG.....1,248,102
	EA5FV.....4,448,125	UY5HF.....1,174,500
	TM6X.....4,246,625	RN6FA.....1,152,039
Zone 4	DL3YM.....3,530,565	RD4WA.....1,131,140
N9RV.....5,847,400	MW5A.....3,378,080	
VC3L.....5,247,550	TM2Y.....3,242,400	Zone 25
VE3EJ.....4,322,120	DJ1YFK.....3,233,508	JH4UYB.....5,048,535
N2IC/5.....4,050,496	*EA7RM.....3,152,800	JA6GCE.....3,437,497
K5GN.....3,761,008		JE1CKA.....2,302,366
VE3JM.....3,286,754		JH0FUW.....2,161,614
VE3EY.....3,034,010		JH7XGN.....1,917,552
K8GL.....2,781,914	Zone 15	*J11RXQ.....1,369,695
WX0B/5.....2,584,944	IR7G.....4,456,917	JS1OYN.....1,218,736
*VE3DZ.....2,537,536	ES5TV.....3,848,544	JK1OPL.....1,172,600
	HA8A.....3,829,344	*JA2AXB.....1,009,800
	OH1F.....3,725,334	JR3NZC.....890,109
	S57DX.....3,675,246	
Zone 5	OH6KN.....3,331,664	
VY2NT.....7,789,028	*4N0W.....2,551,060	
K5ZD/1.....6,070,659	S53XX.....2,077,634	
K3CR.....4,976,188		
W1KM.....4,513,080		

*Low Power

Friday night and Saturday morning, and then have your neighbour switch on an electric blanket on Saturday night just when the 160, 80, and 40 meter bands were in good condition, and completely wipe signals out, (except for the strongest stations). On top of that, you have to call in an arborist to top three trees which were preventing you from rotating the beam. Other than that really enjoyed the contest. . . . **VE7NH**. Many equipment failures, hence a small entry! Good fun while it lasted! ICOM IC735, tuned rain gutting on the side of the house as an antenna! . . . **VK2BAA**. I have enjoyed operation on 80m during this contest very much. It is a band I started my hamming on, some 30 years ago. Time flies. . . . **VK6DXI**. Great fun as always. Nice conditions into Europe on the first nite but poor to North America. Roll on CQWW CW 2005! . . . **VK6VZ**. Fun to be one of three (3!) VK9s active for the event! . . . **VK9NW**. What a thrill it was to operate from Montserrat! . . . **VP2MZM**. Good long path conditions. . . . **WH2A**. Team contesting "Aztecas II" first time operation in the 80m band. Conditions were better on Friday night. Saturday night the band had more noise and opening to Europe was shorter. Many thanks to XE1V and XE3KKT for being great hosts. . . . **XE1NW**. I used small equipments in this year but Vy fun. Thanks to all QSOs. . . . **XU7ADE (op E21EIC)**. First time to participate in 40m band. Hello USA! . . . **YC3MM**. Nice contest and good propagation on 80m. I was very surprised by the number of U.S. station that came on my CQ. I operated from my house located on mount of Zlatibor (at 889m ASL). It was very cold and windy before the contest and the antennas were damaged but I managed to fix it before the contest. . . . **YT2A**. Two young kids and wife, but managed 1100 QSOs on 40m! . . . **YU1LA**. Great contest. Few hours before the contest we decided to work Multi-2, without cluster, multiplier stations etc.. We have a nice fun as usual. Thanks to all who called us. . . . **Z37M**. Think that I broke my dupe record 120. Auto Morse "ain't what it used to be." Thanks to all concerned for running the contest. . . . **ZC4LI**. To stations far away (from ZK1): We hear you! We always don't answer because of QRM, so send your call only once, as we have to wait until everybody is finished sending before we can respond. Remember, if we are 459 to you (W, JA, even EU) you are 589+ to us. 747 contacts using a J38 key and a ballpoint pen. . . . **ZK1DRA**. Great contest as always! Lost power to the QTH for 3 days before the event. Conditions down since 2003. Highlights: being called by ZS6MG on 80m and 5U5Z on 10m. . . . **ZL6QH**. My second CQWW contest. This time using a vee beam directed towards North America. Two days of fun and madness! . . . **ZS1AN**.

USA QRM

Here's a tip from experience: Don't break a tooth right before the contest, and spend four hours Saturday morning in the dentist's chair, especially when working single band on a daylight-only band. . . . **AE9F/6**. 15 meters still the band to be on. . . . **K0BX**. Biggest thrill was working several JA's in the last two hours of the contest to bump my contact total above my goal of 1200. I also got a kick out of some rare DX that called me on my frequency, including S9, KH2, KL (not really rare, but sometimes hard to get zone 1 on several bands), TK, and HS. . . . **K1KD**. Special thanks to those who took the time for a QSO with a weak signal instead of hitting the CQ button again! . . . **K2TA**. It's always a great experience to operate with the best CW contest operators in the world. . . . **K2ZR**. Thanks to all the great ops with great ears! . . . **K3UW**. First, the computer crashed. Then by the time I had the laptop working (several hours later) the transmitter smoked and died. Hooked up another rig and managed to get in a couple of hours. . . . **K4GM**. This was a tough contest if you had the overnight shift on 160 and 20 meters. Slow! Breaking in a few new ops and still enjoying the company of all. Thanks to all for

the QSOs and spots. . . . **KB1H**. I ran a homebrew amp (25–50 watts) to a low (10m) dipole fed with ladder line. Not the best setup, but I had a lot of fun. The skill of most of the ops is simply amazing. . . . **KD5CMN**. The conditions this year were incredible for being so near the sunspot minimum. Put up a portable tower this year on top of a mountain. Unfortunately, punctured. Murphy is getting a sense of humor! . . . **KP4US**. Special thanks to A61AJ (op N2AA) for being extra patient and correcting "KI" to "KS" for my only new 40m DX on a wire vertical! . . . **KS7T**. CQWWW CW is the contest! . . . **KT1V**. Was glad to finish 80m 4-square 10 minutes into the contest, but was so happy about it that forgot to run 40 meters. . . . **KU1CW/Ø**. With 4-week-old infant, bottle, burp cloth in one arm, his first contest. A truly single-handed effort! . . . **N2NI**. Now that was a good reason to have been working on my code speed! . . . **N3GNW**. Conditions not as good as CQWWW SSB. More

hours in the chair almost the same score. Have to work on my three S's: improve skills, improve strategy, stay in the seat! . . . **N3MX**. No chance to make a full effort this year, but this is one contest you just can't stay away from! . . . **N4GN**. If you're not moving ahead, you're falling behind. My low-power competitors seemed to be following this adage. N5AW added a 4-element SteppIR. N1UR replaced his Field-Day type setup with real towers. W1MU goes to his Maine QTH to be closer to the DX. I, on the other hand, just barely got back to my standard antenna setup by erecting my 80 and 160 antennas the week before the contest. So, while the leaders were falling only 300k or 600k off their last year's scores due to the declining propagation, my score dropped by 1 meg. I like to feel I'm performing a public service by not changing my station; that permits others to more accurately gauge their station improvements despite changing propagation. . . . **N4TZ/9**. What is with the

TOP SCORES

<p>World All Band</p> <p>D4B13,605,364 EA8ZS11,484,894 P40Q10,597,877 A45XR10,488,336 8P5A9,447,417 VY2NT7,789,028 S9A7,499,328 CT8T6,646,626 6W1RW6,610,774 9M6NA6,316,800</p> <p>28 MHz</p> <p>CX5BW1,196,103 CX6VM1,133,008 5B/KIØBP528,220 PS2E415,758 OH0Z263,238 RF4R239,612</p> <p>21 MHz</p> <p>ZS4TX1,606,140 EA8EW1,566,126 IH9P1,480,720 8R1K1,316,412 ZC4LI993,876 WH2A900,136</p> <p>14 MHz</p> <p>CN2KM2,023,740 EA8EA1,833,008 3E1A1,577,532* 4M5X1,304,206 A61AJ1,245,904 4L8A1,162,560</p> <p>7 MHz</p> <p>A61AJ1,655,109 T9/9A5E1,048,017 P40J936,720 OH0B898,275 EA8PP826,354 F6ARC778,260</p> <p>3.5 MHz</p> <p>CN2R1,037,704 EA8/OH4NL693,264 SN3A541,650 OK2RZ511,820 A61AJ432,279 OH2BH408,455</p> <p>1.8 MHz</p> <p>IH9U274,032 SP3BQ155,870 ON4WWW151,368 YR2I125,557 S57M118,464 HA8BE117,059</p> <p>Low Power All Band</p> <p>SU9NC8,411,944 V26K7,468,593 CT9M7,165,665 3V8SQ5,446,230 KP4KE5,086,719 CT7B4,741,380 HI3K4,092,192 J79A3,596,216 EA7RM3,152,800 UO2M2,804,358</p> <p>28 MHz</p> <p>LT7W506,883 CT1AOZ163,215 9A3VM130,458 9A7D114,720 RA9SO94,168 RU4SS80,586</p> <p>21 MHz</p> <p>V31LZ748,500 EA8NN705,012</p>	<p>LU5FC664,724 LO2F661,149 CO8LY567,936 EA8/LY1DF515,247</p> <p>14 MHz</p> <p>CX5AO799,444 3V8SF708,246 5K5Z618,788 SU8BHI571,956 Z28Z560,120 CX9AU504,668</p> <p>7 MHz</p> <p>YZ1W515,732 4N1FG508,680 VE7SV464,310 A45WD403,795 LZ9R293,832 JA6WFM/HI8296,370</p> <p>3.5 MHz</p> <p>C6ATP235,000 OH0I231,516 YU7CB192,572 YT2A159,430 SP5KEH141,350 YZ5W138,075</p> <p>1.8 MHz</p> <p>OH0RB56,355 ER5GB41,210 ES6PZ35,264 9A3RE33,600 UT1FA29,504 OL6T29,315</p> <p>Assisted, All Band</p> <p>9Y4ZC14,581,665 5B/AA1TN13,715,573 P40W9,488,012 5H3KK5,470,958 DJ5MW5,004,964 PJ4M4,645,888 K3WW4,435,981 RX4HZ3,622,592 K2NG3,522,717 RG9A3,455,097</p> <p>Multi-Op, Single Trans</p> <p>P40L13,592,412 EA6IB11,026,533 UA9AYA10,647,435 AH2R10,283,700 8Q7DV9,244,364 OM7M9,028,838</p> <p>Multi-Op, Two Trans</p> <p>HC8N30,971,500 PJ2T22,440,300 CT9L22,157,172 RT9W13,556,710 RU1A13,021,632 K4JA12,901,632</p> <p>Multi-Op, Multi-Trans</p> <p>5U5Z36,651,908 K3LR15,170,944 W3LPL15,067,008 DF0HQ14,652,565 LZ9W13,875,100 KC1XX13,408,500</p>	<p>Europe All Band</p> <p>CT8T6,646,626 GI1W5,215,284 RK4FF4,771,950* YP3A4,670,469* IR7G4,456,917 EA5FV4,448,125 5K5Z4,246,625 ES5TV3,848,544 HA8A3,829,344 OH1F3,725,334</p> <p>28 MHz</p> <p>OH0Z263,238 RF4R239,612 LZ9X174,178 EA5HT154,854 9A6A146,765 HG8Z108,406</p> <p>21 MHz</p> <p>9A80A760,416 OH0V670,806 T97M590,226 IU3X491,508 YZ5Z449,226 UR5IAW294,600</p> <p>14 MHz</p> <p>YT6A901,458 OH4A826,200 9A5W812,337 SO2R788,072* YZ9A704,802 G3TXF699,524</p> <p>7 MHz</p> <p>T9/9A5E1,048,017 OH0B898,275 F6ARC778,260 YT7A771,711 OH2U757,390 SK3W748,744</p> <p>3.5 MHz</p> <p>SN3A541,650 OK2RZ511,820 OH2BH408,455 YU7AV389,536 OH0M381,545 GØIVZ376,740</p> <p>1.8 MHz</p> <p>SP3BQ155,870 ON4VWV151,368 YR2I125,557 S57M118,464 HA8BE117,059 LY3UM114,777</p> <p>Low Power All Band</p> <p>CT7B4,741,380 EA7RM3,152,800 4N0W2,551,060 YO3APJ2,257,668 UA4FER2,183,800 SP4R1,909,200 RW3GU1,766,682 EA4NP1,721,937 LY9A1,672,825 UR3HC1,657,436</p> <p>28 MHz</p> <p>CT1AOZ163,215 9A3VM130,458 9A7D114,720 RU4SS80,586 4N1N80,228 SX5R72,675</p> <p>21 MHz</p> <p>YT7Z454,020 J43J424,760 EA4KR344,410</p>	<p>HG8I304,022 S57L209,166 YT1RA192,172</p> <p>14 MHz</p> <p>YZ2A489,372 G6M320,951 US7IGF275,710 OK1EP270,413 DL1LH256,247 SV1BJW239,136</p> <p>7 MHz</p> <p>YZ1W515,732 4N1FG508,680 LZ9R293,832 T94FC263,790 S54A249,312 YU1LA228,816</p> <p>3.5 MHz</p> <p>OH0I231,516 YU7CB192,572 YT2A159,430 SP5KEH141,350 YZ5W138,075 HA8MD132,114</p> <p>1.8 MHz</p> <p>OH0RB56,355 ER5GB41,210 ES6PZ35,264 9A3RE33,600 UT1FA29,504 OL6T29,315</p> <p>Assisted, All Band</p> <p>DJ5MW5,004,964 RX4HZ3,622,592 UW8M3,288,976 DK3GI3,249,372 RA6CM3,178,300 LY9Y3,023,943 UW5V2,982,554 UA6LV2,880,889 SN8F2,754,000 RZ3AZ2,659,377</p> <p>Multi-Op, Single Trans</p> <p>EA6IB11,026,533 OM7M9,028,938 OM8A8,877,313 S50A8,046,400 HG1S7,440,275 RW2F7,225,119</p> <p>Multi-Op, Two Trans</p> <p>RU1A13,021,632 IR4X12,791,640 UJ7J12,076,290 ES6Q8,842,550 HG6N7,884,742 GJ2A7,638,274</p> <p>Multi-Op, Multi-Trans</p> <p>DF0HQ14,652,565 LZ9W13,875,100 GM5A10,975,578 LY7A6,915,660 OZ5E3,842,067 UV2L2,979,880</p>	<p>USA All Band</p> <p>K5ZD/16,070,659 N9RV5,847,400 K3CR4,976,188 W1KM4,513,080 K1DG4,334,442 AA1K/34,214,421 KT1V4,209,712 N2IC/54,050,496 K1ZZ3,940,670 K5GN3,761,008</p> <p>28 MHz</p> <p>W4ZV237,600 K4MM67,574 W9YYG24,057</p> <p>21 MHz</p> <p>K2BA/5413,624 W6YA291,688 K4OAG264,465 K2AAW/9178,158 K8JM175,558 NØVD172,692</p> <p>14 MHz</p> <p>K2XA662,742 N2MF595,170 W7WA486,066 KØAV170,956 W8TWA141,932 KØRI105,868</p> <p>7 MHz</p> <p>K4XS534,842 HG5Z1,159,878 LY4XX905,464 RN6AL739,276 YT2T695,622 OK1Y2A651,024 S52P594,688 LY5G531,456 HB9DAX461,898 OH4MFA440,176</p> <p>3.5 MHz</p> <p>K7RAT191,309 K1LZ140,990 K6OY128,520 K5RX110,094 W5UN92,773 N2GC62,792</p> <p>1.8 MHz</p> <p>NN1N27,432 W2VO7,350 W3GH5,040 K7OX2,784 KJ7WY1,020 K4PIC860</p> <p>Low Power All Band</p> <p>W1MU2,125,404 N1UR1,822,503 N5AW1,728,720 AK2P1,668,080 KØEJ41,612,840 W1AO1,570,465 K2PS1,542,238 N4TZ/91,486,448 N2NL1,439,616 W3EF1,427,736</p> <p>28 MHz</p> <p>KM6Z35,550 KW4CW25,755 W5GAI21,097 AA1ZT18,200 W1END13,504 K4WI11,592</p> <p>21 MHz</p> <p>WB4TDH238,176 N2BA220,150 N4MO182,130 K2MFY134,563 KA7T122,484 K9WA98,413</p>	<p>14 MHz</p> <p>N7WA145,250 K9AW/484,600 K1VSJ24,882 N1LW15,762 WA2ASQ12,154 WAØKDS/711,250</p> <p>7 MHz</p> <p>W1RM264,920 K3BU/2143,550 K7WP62,964 WA1FCN/447,088 AA4GA41,356 AD8J/333,575</p> <p>3.5 MHz</p> <p>N4IJ67,728 NØAX/730,128 K2TA27,010 W7AT24,367 K8DO9,324 NS3T8,967</p> <p>1.8 MHz</p> <p>NA4W774 K1IB30</p> <p>GRP, All Band</p> <p>KT8X953,520 N4KG782,768 N8ET631,220 KA1IS457,146 W6JTI431,235 N1TM216,381 K6SU210,154 K4ORD156,524 NU4B145,842 K2JT140,822</p> <p>Assisted, All Band</p> <p>K3WWW4,435,981 K2NG3,522,717 N1N3,051,100 KU1CW/Ø3,024,558 W2RE2,972,366 N1EU/22,875,640 K2KQ/12,846,528 K3PH2,689,206 KQ3F2,658,225 W2UP/32,640,330</p> <p>Multi-Op, Single Trans</p> <p>K1IR6,249,717 K8AZ5,732,240 W2FU4,897,353 K3OØ4,710,015 N4RV4,143,328 NØNI3,516,498</p> <p>Multi-Op, Two-Trans</p> <p>K4JA12,901,632 N3RS9,921,186 K1AR6,675,226 N4WV5,658,241 W6YI5,561,792 W8AV4,636,816</p> <p>Multi-Op, Multi-Trans</p> <p>K3LR15,170,944 W3LPL15,067,008 KC1XX13,408,500 K9NS10,441,362 K1TTT9,651,102 K1RX9,397,960</p>
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CLUB SCORES

DX

Bavarian Contest Club (DL)	263,199,539
Rhein-Ruhr DXA (DL)	226,830,817
Contest Club Finland	116,455,732
Contest Club Ontario	107,670,337
Slovenian Contest Club	71,633,922
Russian Contest Club	54,895,893
Ural Contest Group	51,215,002
Araucaria DX Group (PY5)	48,119,972
Croatian Contest Club	45,275,314
Mt. RF (JA3)	35,451,100
Kaunas Technology University (LY)	35,023,776
Central Siberia DX Club (UA0A)	33,254,835
YU Contest Club	30,432,106
Bashkortostan DX Club (UA9W)	30,343,792
BC DX Club (VE7)	29,949,395
Tartu Contest Team (ES)	27,467,295
VK Contest Club	26,750,405
Crimean Contest Club (UU)	24,990,702
Tikiriiki Contest Club (I)	24,295,101
Bad Power (LU)	24,152,709
GMDXC (GM)	24,022,665
Latvian Contest Club	22,839,359
Marconi Contest Club (I)	21,731,104
HA DX Club	19,241,018
Maritime Contest Club (VE1/9VY2)	19,190,125
SP DX Club	18,832,104
East Coast Canada CC (VO)	15,693,078
Ukrainian Contest Club	15,660,251
Vrhnika Contesters (S5)	13,594,396
Lithuanian Contest Group	13,302,065
Bosnia-Herzegovina CC	13,076,466
South Ural Contest Club (UA9A)	12,641,320
Southwest Ohio DXA	12,275,643
LNDX (F)	11,983,490
Chiltern DX Club (G)	11,853,036
Top of Europe Contesters	10,432,940
LU Contest Group	9,888,387
Beemster Contest Club (PA)	8,873,375
Aruk (EX)	8,438,276
UA2 Contest Club	7,612,752
Danish DX-Group	6,876,316
Kiev Contest Group	6,539,847
Sky Contest Club (YU)	5,470,757
Guara DXG (PY7/8)	5,150,971
RAAWG (SV)	4,916,904
University of Tokyo Contest Club	4,817,109
GACW (LU)	4,728,666
Orenburg Contest Group (UA9S)	4,587,203
Moscow Contest Club	4,339,282
Temirtau Contest Club (UN)	3,765,124
LYNX (EA5)	3,334,192
Mother Lode DXCC (W6)	3,213,941
ATCC (EY)	3,197,197
KKKK (UA6A)	3,159,904
Udmurtia (UA4W)	3,049,433
Z30M Contest Team	2,782,384
Belarus Contest Club	2,781,325
TuPY DX Group (PY2)	2,717,036
Aztecans II (XE)	2,496,982
South German DXG	2,440,347
Pizza & Pasta CC (I2)	2,359,670
Alberta Clippers (VE6)	2,323,754
Ivanovo DX Club (UA3U)	2,316,100
SP Contest Club	1,999,007
Bloemfontein ARC (ZS)	1,954,143
Jiangsu DX Club (BY)	1,923,254
Fox Contest Club (YU)	1,872,440
KRS (UR-H)	1,736,248
Sao Paulo Contest Group	1,717,888
Brimham Contest Group (G)	1,567,859
Venezuela DX Club	1,512,576
Amateur Radio Club of Saipan	1,445,120
Kemerovskiy RC (UA9U)	1,426,423
Banat DX Group (YU7)	1,417,984
ADXC (PA)	1,163,975
Siam DX Group (HS)	1,063,280
Kiel Canal Activity Group (DL)	964,124
Uirapuru DX Club (PY8)	823,617
Belokranje Contest Club (S5)	808,712
Low Land Crazy Contesters (PA)	730,059
Serpukhov RC (UA3)	722,684
Obninsk-QRU-Club (UA3X)	693,881

Vladimir Radio Club (UA3V)	616,203
ARCK (UA0)	601,465
Far East ARC (UA0C)	591,034
Yaroslavl Club (UA3M)	581,329
SK6AW Club	572,560
BFRR (EU)	568,443
Mediterraneo DX Club (I8)	558,245
RK0BWW Team	556,242
YO DX Club	521,703
Pushkino (UA3)	520,399
West of Scotland ARS	430,402
ALRS St. Petersburg	426,451
URE Cartagena (EA5)	399,144
Taganrog RC (UA6L)	368,129
Noviomagnum DX Club (PA)	328,874
ARM (ER)	325,235
HA6KNX Club	298,797
Cocosolo Sibichi Club (V4)	287,806
Club 22 (UA3I)	180,794
Wythall Radio Club (G)	159,530
SK4BX Club	133,014
Russian QRP Club	127,579
Krivbass (UT)	62,129
Arrow Communications (W8)	54,180
Parnu RC (ES)	45,655
CSM Craiova (YO)	35,129
SK6HD Club	15,805
CSM YO7KFA	14,352

USA

Frankford Radio Club (W3)	387,506,863
Yankee Clipper Contest Club	331,489,157
Potomac Valley Radio Club (W3/4)	169,644,326
Northern California CC	116,712,815
Florida Contest Group	71,416,703
North Texas Contest Club	60,216,014
Southern California Contest Club	50,222,126
Society of Midwest Contesters (W9/O)	49,255,436
North Coast Contesters (W3)	48,707,192
Minnesota Wireless Assn	45,082,827
Southeast Contest Club (W4)	43,925,777
Mad River RC (W8)	27,515,488
Western Washington DX Club	24,430,389
Willamette Valley DX Club (W7)	24,430,389
Carolina DX Assoc. (W4)	23,246,423
Hudson Valley DXCC (W2)	20,877,990
Central Texas DX & Contest Club	20,611,505
Tennessee Contest Group	16,932,596
Grand Mesa Contesters (W0)	13,415,575
Rochester DXA (W2)	11,152,776
Texas DX Society	6,042,677
Kansas City DX Club	5,844,893
Central AZ DXA	5,255,175
Spokane DXA (W7)	4,263,065
Eastern Iowa DXA	3,836,154
Northern Illinois DXA	3,658,372
Kentucky Contest Group	3,206,487
Oklahoma DXA	2,621,279
North Alabama DXC	2,601,155
Western NY DXA	2,303,243
Sterling Park ARC (W4)	1,922,490
North Florida DXA	1,375,887
Northern Rockies DXA (W7)	1,323,333
Salt City DXA (W2)	1,268,991
Bergen ARA (W2)	1,196,225
Redwood Empire DXA (W6)	731,940
Northern Arizona DXA	559,550
West Park Radio Ops (W8)	523,666
Order of Boiled Owls of NY	402,239
South Jersey DXA (W2)	394,398
Metro DX Club (W9)	385,864
Northern Ohio DXA	302,387
Great South Bay ARC (W2)	295,817
South Texas DXCC	235,711
Boring ARC (W7)	223,631
Central Oregon DX Club	189,274
Southeastern DX Club (W4)	142,116
CT RI Contest Group	132,135

A index going to 60! Wow! . . . **N6IC**. This was an amazing contest, full of surprises. . . . **N6WG**. Strange propagation. I could easily work ZL and 3D2 from Florida with 4 watts but had trouble into the normally easy parts of Europe! . . . **NA4CW**. My first time in WW DX CW, and I had a blast! Thanks to the many ops who were understanding about my sending. . . . **N06E**. What strange conditions! 78 countries with only 75 watts and an aluminium rain gutter for an antenna. I love CW! . . . **W3UTD**. A great team. Integrated networking made a difference. A special hats off to AA7CQ for his low band efforts! . . . **W7VJ**. Small problem: XYL left the microwave oven door open; picked up RF and acted as a monitor. First case I ever heard of MO!! . . . **W9LYA**. Fifty-four years of contesting and I still enjoy putting in 40 hours in this one. . . . **W4TLT**. My first time using N3FJP contest software. Slick! Propagation was strange here in Michigan with aurora flutter and sigs in and out like twinkling stars! Wkg Madeira Island on 10 meters QRP through a pile-up using a dipole 6 feet off the ground was a huge thrill. Special tx to several DX stns who hrd my weak sig and sent an as to other stns in order to complete the exchange. . . . **WA8REI**. Full-size 80 meter vertical not finished but did well with only four radials! Had lots of interruptions from kids and guests. Murphy hit hard when I was in the shower Sunday AM, though. Water pressure died! Only got washed on the right side (no kidding) before the pressure went to zero. Seems the windmill overcharged the batteries and the system shut down during the night! Had it rewired and operational in about an hour, but never made it back to the shower — after all, the bands were open and I was actually dressed. Spent the rest of the day precariously favoring the clean side. Quick note for next year: Turn the lights on when you enter the shack so when it gets dark and the action is hot you don't have to sit in the dark hoping the XYL will look in so she can turn them on! PS: Put deoderant in the shack for emergency usage. . . . **WT6G**. The ops from Croatia had excellent fists! Best I heard all weekend. . . . **WW9R**.

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

**2004 CW RESULTS
SINGLE OPERATOR
NORTH AMERICA**

Table with columns for call sign, band, score, and various categories. Includes sub-sections for UNITED STATES and (OP: N6ZZ).

Table with columns for call signs, countries, and numerical values. Categories include SWITZERLAND, UKRAINE, AUSTRALIA, EAST MALAYSIA, GUAM, HAWAII, INDONESIA, MARSHALL ISLANDS, NEW ZEALAND, NORFOLK ISLAND, NORTHERN MARIANAS, PHILIPPINES, SOUTH COOK ISLANDS, SOUTH AMERICA, and ANTARCTICA. The table lists various call signs and their corresponding numerical values.

