

# Results of the 2010 CQ WW WPX CW Contest

BY RANDY THOMPSON,\* K5ZD

**F**ew things match the hope and optimism present at the beginning of a major DX contest. Participants anxiously watch the seconds tick down. Will the new antennas work? Will conditions be good? Can I win my region or break a record? What contacts or openings will I experience and tell stories about?

For the first 6 hours or so of May 29–30, 2010, the 31st edition of the CQ WPX CW Contest was providing plenty of hope. CR6K in Portugal started the contest running USA stations on 15 meters. At the same time, USA stations were working into Japan and the Pacific. Then a solar event bombarded the ionosphere and the party was over.

To be charitable, conditions for the remainder of the weekend were challenging. Any path over the northern polar region was gone. The Europeans complained of not being able to work North America. The western USA couldn't work Europe. The eastern USA couldn't work Japan. The contest became separate QSO parties where each continent worked the locals, but at a loss of valuable DX QSO points and multipliers.

Yet, sporadic-E on 10 meters provided some entertainment. Europe enjoyed good openings on both days. There were even reports of QSOs from southern Europe to China and the USA. YT2T and 9A1CCY made 1348 and 1273 QSOs, respectively, on the band! The USA also saw E-skip openings. WN1GIV in south Florida made over 700 contacts on 10 meters.

In spite of the terrible conditions, and the usual conflict with the Memorial Day holiday in the USA, the WPX CW event once again broke records for log submissions, with 3649 logs received. To twist a phrase, for many amateur radio operators even a bad day of contesting is better than a good day fishing, or mowing the yard, or any of the other things people do on a weekend in late spring!

A Haiku poetry contest on the CQ WPX fan page on Facebook produced this commentary.

*As I sit in chair  
I admire my iron pants  
So very stylish.*  
—Khrystyne Keane, K1SFA

And for those operators with iron pants who were willing to stay in the chair despite the poor conditions, that style was rewarded. There were seven new world or continental records (see records table elsewhere

\*e-mail: <k5zd@cqwpx.com>



*The team at CQ3L set a new Africa record in the Multi-Two category. Left to right back: Diethelm, DJ2YE; Joerg, DL3QQ; Norbert, DJ7JC; Wil, PA0BWL; Dieter, DJ8DS; Hape, DL1XW; Uli, DJ9IE. Front: Deti, DK3QZ, and Kai, DL3HAH.*

in this issue). Yes, all came from areas south of the major population centers, but it still takes a great deal of effort and skill to set one of these top-level records. Many comments included in the logs pointed to personal best scores or new countries to be found. By the way, there were 160 different countries reported active during the weekend.

Countries are nice, but it's prefixes we want. The multi-multi team at DR1A repeated their accomplishment in the SSB contest by having the highest prefix multiplier in the contest with 1255, not quite up to their record of 1313 prefixes set in 2008. Close behind were LZ9W with 1231 and ZW5B with 1223. The top single operator prefix hunter was EF8M with 1026. In all, there were 28 stations that recorded over 1000 prefix multipliers. Some of the more unusual callsigns that submitted logs included 3Z9TA, 4U10NPT, BX0WPX, CD1R, DL60DARC, HF100HP, HG60VOTT, LZ180FT, OL26LP, PC600P, PD05CW, SP2010CY, TM77M, and V55X.

## Single Operator All Band High Power

The world champion in the Single Operator All Band High Power category was again from the station of EF8M, but this time with Alex, RZ3AZ, at the key. Alex broke the world

record set just a year earlier from the same station. In second place was John, K4BAI, operating from PJ4A. John broke the all time single-op record for South America that has stood since 1994! Andy, UU0JM, once again travelled to 4L0A to take third place. Just a few contacts behind in fourth was Jeff, K1ZM, operating from his VY2ZM station on Prince Edward Island in eastern Canada. Pertti, OH2PM, piloted TC4X to fifth place without making a contact on 160 or 80 meters.

In the USA, it was Alex LZ4AX, taking a break from his advanced studies at Penn State University to operate under the KC3R callsign. How bad were conditions? Alex's winning score this time was 30% below his winning score in 2009. Ouch! Bud, AA3B, took second place by just 15K points over Paul, K8PO, operating as AJ1I. Dick, WC1M, was right behind them in fourth. All of these operators are extremely accurate, and it was log checking that helped settle the final order of finish.

The competition in Europe was intense as always. CR6K, operated by Filipe, CT1ILT, took advantage of his southern location to take the win. Ranko, 4O3A, was only 15 contacts behind in second place. The difference was Felipe's 57 additional multipliers. Continuing the dominance of southern Europe was UW2M in third, operated by Roman, UR0MC. Serge, RA3CW, operating

## TROPHY WINNERS AND DONORS

### SINGLE OPERATOR ALL BAND

**WORLD:** Steve Bolia, N8BJQ Trophy. Won by: **EF8M** operated by **Alexandr Gimano**, RZ3AZ  
**WORLD Low Power:** Caribbean Contesting Consortium Trophy. Won by: **P49Y** operated by **Andrew L. Faber**, AE6Y  
**WORLD QRP:** Bill Parker, W8QZA Trophy. Won by: **TM77M** operated by **Laurent Fontaine**, F5MXX  
**USA:** Dennis Motschenbacher, K7BV Trophy. Won by: **KC3R** operated by **Alexander Avramov**, LZ4AX  
**USA Low Power:** Ken Boasi, N2ZN Trophy. Won by: **NN5J** operated by **Kevin Stockton**, N5DX  
**USA QRP:** John T. Laney, K4BAI Trophy. Won by: **Gary Hembree**, N7IR  
**USA Zone 3 High Power:** Northern California Contest Club Trophy. Won by: **KR7X** operated by **Denis Pochuev**, K7GK  
**USA Zone 3 Low Power:** Arizona Outlaws Contest Club Trophy. Won by: **John Arthurs**, K7WP  
**USA Zone 4 High Power:** Society of Midwest Contesters Trophy. Won by: **NN4US** operated by **Erik Martin**, N5WR  
**USA Zone 4 Low Power:** Society of Midwest Contesters Trophy. Won by: **KS9K** operated by **Terry Zivney**, N4TZ  
**EUROPE:** Ivo Pezer, 5B4ADA/9A3A Trophy. Won by: **CR6K** operated by **Filipe Monteiro Lopes**, CT1ILT  
**EUROPE Low Power:** Vitor Santos, PY2NY Trophy. Won by: **OL6P** operated by **Petr Prokop**, OK2PP  
**EUROPE QRP:** Julius Fazekas, N2WN Trophy. Awarded to: **Miroslav Vohlidal**, OK1DVM  
**AFRICA:** Chris Terkla, N1XS Trophy. Won by: **ST2AR** operated by **Robert Kasca**, S53R  
**ASIA:** Rick Tavan, N6XI Trophy. Won by: **4L0A** operated by **Andy Kazantsev**, UU0JM  
**NORTH AMERICA:** Louisiana Contest Club Trophy. Won by: **V26E** operated by **Darrell Neron**, AB2E  
**NORTH AMERICA QRP:** Dale Martin, KG5U Trophy. Won by: *no entry*  
**OCEANIA:** Lloyd Cabral, KH6LC Trophy. Won by: **John Loftus**, VK4EMM  
**SOUTH AMERICA:** David Kopacz, KY1V Trophy. Won by: **PJ4A** operated by **John T. Laney III**, K4BAI  
**SOUTHERN CONE (CE,CX,LU):** Tom Morton, K6CT Trophy. Won by: **CW5W** operated by **Jorge Diaz**, CX6VM  
**CANADA:** Radio Amateurs of Canada (RAC) Trophy. Won by: **VY2ZM** operated by **Jeffrey T. Briggs**, K1ZM  
**CANADA Low Power:** Contest Club Ontario Trophy. Won by: **Nick Lekic**, VE3EY  
**JAPAN:** Simone Candotto, IV3NVN Trophy. Won by: **Masaki Okano**, JH4UYB

### SINGLE OPERATOR, SINGLE BAND

**WORLD 28 MHz:** Steve Hodgson, ZC4LI Trophy. Won by: **Juan Morandi**, LU1HF  
**WORLD 21 MHz:** Andrei Stchislenok, NP3D Trophy. Won by: **ZX5J** operated by **Rafael Oliveira Martins**, PY2NDX  
**WORLD 14 MHz:** Gene Walsh, N2AA Trophy. Won by: **CT1JLZ** operated by **Jiri Pesta**, OK1RF  
**WORLD 7 MHz:** 6Y1V Contest Station Trophy. Won by: **3V8CB** operated by **Dragan Acimovic**, YT3W  
**WORLD 7 MHz Low Power:** Neal Campbell, K3NC Trophy. Won by: **Slavko Celarc**, S57DX  
**WORLD 3.5 MHz:** Ranko Boca, 4O3A Trophy. Won by: **Emil Tafro**, E71A  
**WORLD 1.8 MHz:** Dusko Dumanovic, ZL3WW Trophy. Won by: **Vemic Miroslav**, YT4A  
**USA 28 MHz:** Paul Beringer, NG7Z Trophy. Won by: **WN1GIV/4** operated by **Bob Patten**, N4BP  
**USA 21 MHz:** Charlie Wooten, NF4A Trophy. Won by: **NR5M** operated by **Eric Silverthorn**, NM5M  
**USA 14 MHz:** Kansas City DX Club Trophy. Won by: **Dave Patton**, NN1N  
**USA 7 MHz:** Darin Divinia, WG5J Trophy. Won by: **Richard Lee**, W2EG  
**USA 3.5 MHz:** Wes Printz, W3SE / ZL3TE Trophy. Won by: **Madison Jones**, W5MJ  
**EUROPE 28 MHz High Power:** SKY Contest Club Trophy. Won by: **9A1CCY** operated by **Sasa Pokorni**, 9A3NM  
**EUROPE 21 MHz High Power:** SKY Contest Club Trophy. Won by: **Vladeta Krkic**, YU1KX  
**EUROPE 14 MHz High Power:** SKY Contest Club Trophy. Won by: **Marko Munih**, S50K  
**EUROPE 7 MHz High Power:** SKY Contest Club Trophy. Won by: **YT0A** operated by **Ivan Cakarevic**, YT1CI  
**EUROPE 3.5 MHz High Power:** SKY Contest Club Trophy. Awarded to: **Patrick Bittiger**, F2DX  
**EUROPE 1.8 MHz High Power:** SKY Contest Club Trophy. Awarded to: **Nemeth Nicolae Iuliu**, YO5AJR

### SINGLE OPERATOR ASSISTED

**WORLD:** D4C Station Trophy. Won by: **KP2M** operated by **John L. Bednar**, K3TEJ  
**USA:** Ron Sigismonti, N3RS Trophy. Won by: **Gene Shablygin**, WU3A/1  
**EUROPE:** Martin Huml, OL5Y Trophy. Won by: **ER0WW** operated by **Sergey Rebrov**, UT5UDX

### OVERLAY CATEGORIES

**WORLD Tribander/Single Element:** Helmut Mueller, DF7ZS Trophy. Won by: **TC4X** operated by **Perti Simovaara**, OH2PM  
**USA Tribander/Single Element:** Paul Newberry, N4PN Trophy. Won by: **NX0X/4** operated by **Paul Newberry**, N4PN  
**EUROPE Tribander/Single Element:** WPX Contest Committee Trophy. Won by: **Matija Brodnik**, S53MM  
**WORLD Rookie:** Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **OF50RR** operated by **Mikko Silvola**, OH8FKU  
**NORTH AMERICA Rookie:** Chris Kantarjiev, K6DBG Trophy. Won by: **David Levine**, K2DSL

### MULTI-OPERATOR SINGLE-TRANSMITTER

**WORLD:** Steve Miller, N0SM Trophy. Won by: **P33W** operated by **RW4WR**, RV1AW, RA3AUU  
**USA:** Phil Allardice, KT3Y Trophy. Won by: **NY4A** operated by **AA4FU**, N4AF  
**AFRICA:** Rhein Ruhr DX Association Trophy. Won by: *no entry*  
**ASIA:** W2MIG Memorial (NX7TT Sponsor) Trophy. Won by: **C4N** operated by **5B8AD**, RV6LNA, UA6LP, RA6LFO, RW3QC  
**EUROPE:** Andy Ruse, YO3JR/YR1A Trophy. Won by: **RT4F** operated by **UA4FMV**, UA4FER, RW4FO, RK4FD, RK4FQ, RK4FW, RZ4FA  
**NORTH AMERICA:** Jim George, N3BB Trophy. Won by: *no entry*

### MULTI-OPERATOR TWO-TRANSMITTER

**WORLD:** UA1DZ Memorial (W3UA Sponsor) Trophy. Won by: **C4I** operated by **LZ1UK**, LZ2HM, LZ3CQ, LZ3NY  
**USA:** Florida Contest Group Trophy. Won by: **K1LZ** operated by **K0DXC**, K1LZ, KQ2M, K3JO, NU5Y, N8BO, LZ1MS  
**AFRICA:** Walter Skudlarek, DJ6QT Trophy. Won by: **EA8URL** operated by **RD3AF**, EA8ZS, EA8DP, EA8BQM, EA8AJW, EA8BEX, EA8AGF, EA8CAC, EA8RY, EA8AVK  
**EUROPE:** Tom Georgens, W2SC Trophy. Awarded to: **OM7M** operated by **OK2BFN**, OM2IB, OM3PA, OM5MF, OM5RM, OM5RW, OM5ZW

### MULTI-OPERATOR MULTI-TRANSMITTER

**WORLD:** Steve Merchant, K6AW Trophy. Won by: **CQ3L** operated by **DJ2YE**, DJ7JC, DJ8DS, DJ9IE, DK3QZ, DL1XW, DL3HAH, DL3QQ, PA0BWL  
**USA:** Jim Reisert, AD1C Trophy. Awarded to: **KM3T/1** operated by **KM3T**, WA1Z, K1GQ, W1FV, N1KWF  
**EUROPE:** David Robbins, K1TTT Trophy. Won by: **LZ9W** operated by **LZ1ZD**, LZ1ANA, LZ1GL, LZ1PJ, LZ1PM, LZ1UQ, LZ2CJ, LZ2HQ, LZ2GL, LZ2TU, LZ2UU, LZ2PO, LZ2UZ, LZ3FM, LZ3UM

### CONTEST EXPEDITION

**WORLD:** Phil Goetz, N6ZZ Memorial Trophy. Won by: **Hal Offutt**, MJ/W1NN

### COMBINED SSB/CW

**WORLD Single Operator:** Yuri Blanarovich, K3BU Trophy. Won by: **KH7XS/KH7B** operated by **Bill Kollenbaum**, K4XS  
**USA Single Operator:** Bill Fisher W4AN Memorial (KM3T Sponsor). Won by: **KC3R** operated by **Alexander Avramov**, LZ4AX  
**WORLD Club Score:** CQ Magazine trophy. Won by: **Bavarian Contest Club**

Please contact Doug Grant, K1DG, at <plaques@cqwpx.com> if you are interested in sponsoring a trophy.

RS3A, was the only one from central or northern Europe to crack the European top ten.

## Single Operator All Band Low Power

The poor conditions were not as friendly to the low power operators. There are no new records to brag about, but there were still some great scores! Andy, P49Y (AE6Y), backed up his world high finish on SSB with one on CW. As the contest started for everyone else, the electrical power was out for the whole island of Aruba. When the lights came back on at 0705Z, all Andy could do was push as hard as possible and be happy the rules required everyone to take 12 hours off some-time during the weekend. A remarkable effort to achieve the win! Second place went to Vitor, PY2NY, operating from PS2T. Eric, K9GY, once again travelled to Nicaragua and made his best score ever from YN2GY to finish in third. Bill, K4XS, used the call KH7B and dropped down to low power this year to chase the Oceania record. His 4.4-million points easily surpassed the existing record of 3.3 Meg set back in 2001. Olli, OH0XX, visited the station of T15N and claimed fifth place.

The top low power score for the USA was made by Kevin, N5DX, operating under the callsign NN5J. Another example of a great op taking advantage of the conditions that seemed to favor stations more to the south. Less than 200K points behind was Maury, W3EF, showing you don't need a rare prefix to do well in the contest. Perennial top ten finisher NV1N (Ed, N1UR op) complained that these were "definitely the worst WPX contest conditions ever experienced from this QTH in Vermont." Another regular was Will, WJ9B, operating from Florida, who finished well behind his score of 2009. Terry, N4TZ, deserves credit for putting in a full effort from KS9K in Indiana to make the top five.

The race for first place low power in Europe came down to log checking. Petr, OK2PP, used the call OL6P. Franco, TK/S59AA, did a DXpedition to Corsica and operated from a camp site using a TH33jr tribander only 30 feet above ground. Franco had more QSOs, while Petr had more multipliers. It was a lower error rate that gave Petr the victory! Of course, we should mention that Franco only operated 30 hours, so a bit more operating time might have made the difference. Very close behind was Nasko, LZ3YY, operating as LZ9R, who lost several hours of operation due to thunderstorms.

## Single Operator Single Band

If one is the loneliest number, then one-sixty is surely the loneliest band in WPX CW. Even so, there are hardy souls who take up the challenge of summertime QRN. The top high power score was made by Mike, YO5AJR. In an unusual twist, the world high score was done with low power by Vemic, YT4A. Richard, K5NA, took the USA honors and broke a 25-year-old record for the W5 call area.

After losing by just a few points on SSB, Emil, E71A, returned to 80 meters for the CW contest and ended up with the world high





OK1DVM, took the win over fellow countrymen Milan, OK2BYW, and Antonin, OK7CM. Gary, N7IR, took first place in the USA and tenth place overall. Jim, W4QO, finished just 2k points behind Gary.

Arsene, YO8DDP, had an excellent score to finish well ahead of the competition on 10 meters. Gab, HA3JB, operated from the International Police Association club station HG3IPA, to win 15 meters. Twenty meters was led by Francesco, I0UZF. The highest QRP single band score was on 40 meters by Klaus, DL1DQY, who faced strong competition from Vladimir, YU1WC. The biggest score on 80 meters by far was from Vitas, LY5G. Bela, HA8BE, did an amazing job to make 196 contacts in winning 160 meters

### Single-Operator Assisted

If you operated the contest and used any help other than your own two ears to find and work stations, then you must be in the Assisted category. It's a fun category that is enjoyed by casual participants chasing new countries or prefixes, as well as serious competitors who want extra information about what is happening on the bands. The High Power All Band category was a very close race with John, K3TEJ, at KP2M finishing only 20k points ahead of Anatoly, UA9PC. Sergey, UT5UDX, visited ER0WW for third place. It was Gene, WU3A, who backed up his USA win on SSB with one on CW.

The Low Power All Band category was a race between two Asiatic Russians. Yuri,

UA9AM, used his RG9A contest call to set a new world record for the category and finish ahead of Yuri, UA9SP. YT3M, operated by Acim, YU1YV, was the top European score in third place overall. Less than 2000 points separated the top two USA scores. Kirk, W1FA, just got by Bill, AA4LR.

Serge, UR2VA, bested fellow countryman Alex, UR5LO, on 10 meters. Dmytro, UU1AZ, set a new world record in winning 15 meters. Vinko, S53F, took the 20 meter title. Cicero, PY7ZY, set a new South American record, finishing second. Forty meters was dominated by Olof, G0CKV, operating as M5E. Aloyzas, LY3CW, was

the champion on 80 meters. Bill, N4NX, set a new USA record on 40 meters and Paul, W8AEF, did the same on 80 meters.

### Overlay Categories

The overlay categories were made available to all single operator entrants this year, and 601 operators took advantage of the opportunity to compete in these separate contests-within-a-contest. For the overlay categories, we combine all entries into high or low power. Winner of the Tribander/Single Element category for high power was Pertti, OH2PM, at TC4X. Matija, S53MM, took second just

### Logging Accuracy

We received a record 3567 logs for the WPX CW contest this year. The poor conditions resulted in a 10% decline in total QSOs to 2,080,844. The log-checking process continues to improve and we were able to cross check 82.5% of all QSOs against another log. It is interesting to note that 58.4% of the unique calls (calls worked by only one station) were found to be errors. Since a broken callsign loses the contact plus a penalty of additional QSO points, it pays to get the calls correct.

It is not always easy for the operators who activate unusual prefixes, as many people do struggle copying their call. The callsigns that caused the most logging errors were LZ65P, OL26LP, and PA44N. Petr, OK1CZ, was the operator at OL26LP and offered this advice: "Do not use a two-figure prefix ending with number 4 or 6, as this can be copied as V or B." Even well-known contest calls such as HG1S and ES9C were often copied incorrectly.

Even with the deep log checking, there were still 143 stations that produced logs with no score reductions. The top "golden" logs (with number of QSOs) were: WT5R (369), RU3VV (222), RA3BT (184), OZ5UR (175), RK6ASY (173), and RA0AY (173).

The average score reduction for all single operator entries was 12.9%. For the top 20 Single Operator All Band scores, the average reduction was 5.8%. Detailed log-checking reports are available for every submitted log and may be requested by sending an e-mail to <k5zd@cqwpx.com>.

## USA TOP SCORES

### SINGLE OPERATOR HIGH POWER ALL BAND

KC3R (LZ4AX).....	6,532,302
AA3B.....	5,532,196
AJ1I (K8PO).....	5,517,941
WC1M.....	5,361,419
K3ZO.....	3,964,797

#### 28 MHz

WN1GIV/4 (N4BP).....	320,306
K5DU.....	150,894
AB7E.....	35,483

#### 21 MHz

NR5M (NM5M).....	713,094
W4SVO.....	602,490
K8IA/7.....	323,360

#### 14 MHz

NN1N.....	2,216,760
NM5M (K5GA).....	2,014,517
KT3M.....	1,548,063

#### 7 MHz

NG5A (N1XS).....	474,897
W0EWD.....	431,208
AB9H.....	400,327

#### 3.5 MHz

W5MJ (W5MJ/W5PR).....	65,567
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#### 1.8 MHz

KT2Z/5 (K5NA).....	28,676
KQ8M.....	12,728

### SINGLE OPERATOR LOW POWER ALL BAND

*NN5J (N5DX).....	2,626,140
*W3EF.....	2,437,827
*NV1N (N1UR).....	2,062,368
*W9B/4.....	1,897,920
*KS9K (N4TZ).....	1,474,998

#### 28 MHz

*KN4Y.....	28,350
*NA4W (K4WI).....	21,109
*N9TF.....	2,331

#### 21 MHz

*WB4TDH.....	124,509
*K8AJS.....	61,770
*WA7NWL.....	7,504

#### 14 MHz

*KM6Z.....	157,530
*NJ3K.....	130,255
*W2AW (N2GM).....	128,594

#### 7 MHz

*W2EG.....	841,759
*K9UIY.....	216,500
*KZ3M.....	209,729

#### 3.5 MHz

*AB1J.....	48,000
*AC0DS.....	35,250
*WB8JUI.....	18,382

#### 1.8 MHz

*K4WI.....	351
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### SINGLE OPERATOR QRP ALL BAND

N7IR.....	403,170
W4QO.....	400,830
W6QU/0 (W8QZA).....	352,401
N5DO.....	293,728
AA1CA.....	270,458

#### 28 MHz

W5GAI.....	32,250
AB8FJ.....	156
N1VVV.....	80

#### 21 MHz

WA6FGV.....	22,032
N6WG.....	14,952

#### 14 MHz

N8HP.....	59,168
W7JU/0.....	46,359
NT2DR.....	18,600

#### 7 MHz

NE6M.....	50,673
K3TW.....	32,700
N2JNZ.....	15,824

### SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND

WU3A/1.....	4,139,520
K3WW.....	3,769,519
WK1Q (K1MK).....	3,147,290
NS1S/4 (K1ZZI).....	2,492,952
W5MX/4.....	2,271,132

#### 21 MHz

WZ7ZR (W7ZR).....	158,063
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#### 14 MHz

K0LUZ/4.....	1,363,716
N2MM.....	1,233,940
WO4O.....	1,100,840

#### 7 MHz

N3GJ.....	9,840
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#### 3.5 MHz

W4PK.....	177,946
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### SINGLE OPERATOR ASSISTED LOW POWER ALL BAND

*W1FA.....	423,108
*AA4LR.....	421,935
*NV4B.....	288,090
*N0SXX.....	274,596
*N3CZ/4.....	268,920

#### 28 MHz

*ND6S.....	1,677
*WD4DDU.....	322

#### 21 MHz

*WA7LNW.....	115,291
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#### 14 MHz

*NW4V.....	125,255
*WB2AA.....	96,555
*K7FA.....	43,492

#### 7 MHz

*N4NX.....	298,480
*N7MAL.....	81,065
*KN6VVH/7 (W6NF).....	27,700

#### 3.5 MHz

*W8AEF/7.....	44,250
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### TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND

NX0X/4 (N4PN).....	3,086,655
AB3CX/2.....	2,067,440
N1WR/3.....	1,736,640
KR4F.....	1,404,718
K3MD.....	1,389,584

#### 28 MHz

WN1GIV/4 (N4BP).....	320,306
AB7E.....	35,483

#### 21 MHz

WZ7ZR (W7ZR).....	158,063
N4NM.....	16,376

#### 14 MHz

W4CU.....	440,360
W6AEA/7.....	310,500
NQ5D (K5NZ).....	280,908

#### 7 MHz

K4XD.....	10,335
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### TRIBANDER/SINGLE ELEMENT LOW POWER ALL BAND

*NA4K.....	1,247,076
*KV8Q.....	798,391
*KW2G/1 (W1WBB).....	795,476
*KZ9O (KB9OWD).....	646,815
*K2PO/7.....	562,650

#### 28 MHz

*N9TF.....	2,331
*W5K1.....	15

#### 21 MHz

*WA7LNW.....	115,291
*WA7NWL.....	7,504
*W4JHC/5.....	3

#### 14 MHz

*NW4V.....	125,255
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*K7FA.....	43,492
*NI5L/7.....	31,624

#### 7 MHz

*KS5A/7.....	182,206
*K0PK.....	84,796
*N7MAL.....	81,065

#### 3.5 MHz

*AB1J.....	48,000
*W8AEF/7.....	44,250
*WW1M.....	3,395

### ROOKIE LOW POWER ALL BAND

*K2DSL.....	67,500
*AF6EV.....	59,840
*K6MEE.....	28,980
*KF7ADB/4.....	19,929
*WI4R.....	13,050

### MULTI-OPERATOR SINGLE-TRANSMITTER

NY4A.....	5,841,118
NJ4M.....	4,844,296
KX7M/6.....	3,975,669
NG7M.....	2,391,264
WV7J.....	1,918,080

### MULTI-OPERATOR TWO-TRANSMITTER

K1LZ.....	14,081,100
KD4D/3.....	11,223,000
NY6N.....	6,573,159
WX3B.....	5,128,932
ND2T/6.....	5,079,270

### MULTI-OPERATOR MULTI-TRANSMITTER

KM3T/1.....	14,733,230
NQ4I.....	10,921,286
NR4M.....	10,876,056
NR6O.....	5,612,130
NI6T.....	1,885,520

ahead of Boris, S50C. On low power, it was Yuri, UA9SP, ahead of the Corsican camping expedition of Franc, TK/S59AA.

The Rookie category does not attract the same attention on CW as it does on SSB, but we were very pleased to have 32 entries. Mikko, OH8FKU, gave everyone a new prefix with the call OF50RR and finished ahead of Sebastian, OH7FKV. Keep an eye on these two in the future! David, K2DSL, just beat out last year's winner David, AF6EV, for the top USA score.

## Multi-Operator

The winning Multi-Operator Single-Transmitter score was gained by P33W operated by RW4WR, RV1AW, and RA3AUU. They used a WRTC-style lockout system to maximize their score while only allowing one transmitted signal at a time. It was another Cyprus station, C4N, finishing in second. A seven-operator team drove RT4F to the top spot in Europe. Take a look at how close the scores were between LS1D, ES9C, and E7DX. In the USA, it was NY4A getting past NJ4M on the basis of a much higher points per QSO.

A four-operator team from Bulgaria visited C4I in Cyprus for first place in the Two-Transmitter category. The second-place team at PW7T employed CW Skimmer technology for the first time instead of traditional DX Cluster. There were only two ops covering the bands at third-place finisher PJ2T. K1LZ dominated the competition in the USA.

The Multi-Multi stations provide a reference point to show us what is truly possible across all bands. The team at CQ3L had the highest score in the contest and set a new record for Africa. It was a bit of a confusing callsign, as some people simply logged it as "3L." LZ9W and DR1A continued their friendly rivalry for top score in Europe. This year it was LZ9W winning the plaque. USA winner KM3T operated from the station of KC1XX and used the contest to test new logging software.

## Club Competition

There were 151 clubs from around the world that met the requirement of three or more logs to be listed in the results. Once again, the highest club score came from the Bavarian Contest Club (BCC) in southern

Germany. The Northern California Contest Club scored an impressive win over the 52 USA clubs that submitted three or more member logs.

## Final Thoughts

We were saddened to hear the news that long-time WPX Award manager Norm Koch, WN5N (ex-K6ZDL), became a Silent Key in November 2010. Norm was CQ WPX Award Manager for nearly a quarter century, from December 1981 to August 2006. To honor his memory, Gail, K2RED, is sponsoring a new plaque for 2011 that is focused on Norm's interest in prefixes—Single-Operator Highest Combined SSB/CW Prefix Total. Please contact Doug, K1DG, if you have an interest in sponsoring a plaque for the WPX Contest.

There are a lot of people who work to help make the WPX contest such a success. Thanks to AL1G, DL8MBS, ES5JR, G0SYP, K0HB, K1PX, K2DSL, K8PO, N1XS, N5IE, N8RA, NJ1F, UA4FER, W2JU, W7ZR, and W8AEF for their help in typing in all of the paper logs. F6BEE maintains the club name database. Thanks to Barry, W5GN, for han-

## EUROPE TOP SCORES

<b>SINGLE OPERATOR HIGH POWER ALL BAND</b>		<b>7 MHz</b>	<b>28 MHz</b>	<b>1.8 MHz</b>	<b>7 MHz</b>	
CR6K (CT1ILT)	6,922,045	*S57DX	2,056,256	I17M (IK7JWV)	576,650	
4O3A	6,493,360	*S51F	1,930,480	IT9VDQ	529,686	
UW2M (UR0MC)	5,807,730	*ER6A	1,725,584	S53O	522,309	
RS3A (RA3CW)	5,548,400					
LZ3FN	5,353,144					
<b>28 MHz</b>		<b>3.5 MHz</b>	<b>21 MHz</b>	<b>TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND</b>	<b>3.5 MHz</b>	
9A1CCY (9A3NM)	978,924	*UA2FL	711,350	S53MM	4,722,668	
YT2T	908,600	*OM3ZWA	602,160	S50C (S53CC)	4,171,825	
AO3T (EA3AKY)	601,145	*LY2GW	487,976	IK0YVV	3,769,880	
<b>21 MHz</b>		<b>1.8 MHz</b>	<b>14 MHz</b>	M9X (G4MKP)	3,258,405	
YU1KX	1,420,710	*YT4A	151,646	MJ/W1NN (W1NN)	2,973,225	
LY8O	1,089,622	*UX5NQ	115,978			
YL2SM	798,970	*OK6Y (OK2PTZ)	110,544			
<b>14 MHz</b>		<b>SINGLE OPERATOR QRP ALL BAND</b>	<b>7 MHz</b>	<b>28 MHz</b>	<b>ROOKIE ALL BAND</b>	
CT1JLZ (OK1RF)	4,875,330	TM77M (F5MUX)	1,951,964	9A2U (9A3ZA)	482,664	
S50K	2,704,130	OK1DVM	1,756,188	OH3BU	289,161	
S55T (S57AL)	2,525,910	OK2BYW	1,369,887	UA6AA	183,586	
		OK7CM	1,297,322			
		TM3T (F5VBT)	808,152	<b>21 MHz</b>	EA5FID	641,538
				OL6X (OH6NJ)	333,000	
				G7N (G0ORH)	292,600	
				<b>14 MHz</b>	EU1FC	1,209,663
				OR2A (ON7YX)	840,155	
				UY7C (UR3CMA)	742,368	
				<b>7 MHz</b>	YU2A	551,688
				G3MZV	425,568	
				UY2ZZ	229,152	
				<b>3.5 MHz</b>	HA3LI	789,360
				<b>1.8 MHz</b>	DD9WG	30,120
				<b>28 MHz</b>	<b>TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND</b>	
				*UR2VA	173,121	
				*UR5LO	169,443	
				*UA6AK	148,608	
				<b>21 MHz</b>	*TK/S59AA	2,424,200
				*UU1AZ	1,082,640	
				*DH8BQA	301,824	
				*UA3AO	203,490	
				<b>14 MHz</b>	*S53F	1,198,891
				*YT2AAA	587,010	
				*YU1R (YT1NP)	554,830	
				<b>7 MHz</b>	*M5E (G0CKV)	1,621,069
				*OK1UG	811,632	
				*EU1AZ	719,468	
				<b>3.5 MHz</b>	*LY3CW	399,500
				*SP6EY	327,816	
				*UT3L	232,200	
				<b>28 MHz</b>	*DH8BQA	301,824
				*UA3ABJ	234,432	
				*CT1BWW	97,812	
				<b>14 MHz</b>	*S54A	613,725
				*Z35F	419,133	
				*UA1AFT	382,630	
				<b>21 MHz</b>		
				<b>7 MHz</b>		
				<b>28 MHz</b>		
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				<b>7 MHz</b>		
				<b>28 MHz</b>		



## SSB & CW COMBINED CLUB SCORES

UNITED STATES			
Club	Entries	Score	
NORTHERN CALIFORNIA CONTEST CLUB	110	190,075,001	
YANKEE CLIPPER CONTEST CLUB	85	151,862,440	
POTOMAC VALLEY RADIO CLUB	101	145,303,572	
SOUTH EAST CONTEST CLUB	37	71,880,356	
FRANKFORD RADIO CLUB	42	67,718,641	
SOCIETY OF MIDWEST CONTESTERS	77	60,293,481	
FLORIDA CONTEST GROUP	54	56,496,877	
SOUTHERN CALIFORNIA CONTEST CLUB	40	55,344,263	
CENTRAL TEXAS DX AND CONTEST CLUB	35	34,262,712	
WILLAMETTE VALLEY DX CLUB	35	32,732,770	
TENNESSEE CONTEST GROUP	43	30,950,589	
MAD RIVER RADIO CLUB	28	21,602,677	
HUDSON VALLEY CONTESTERS AND DXERS	21	20,096,632	
NORTH COAST CONTESTERS	9	19,892,831	
WESTERN WASHINGTON DX CLUB	26	18,410,387	
MINNESOTA WIRELESS ASSN	26	17,932,306	
ALABAMA CONTEST GROUP	27	15,245,641	
GRAND MESA CONTESTERS OF COLORADO	21	11,298,874	
ARIZONA OUTLAWS CONTEST CLUB	66	9,852,537	
NORTH TEXAS CONTEST CLUB	13	8,048,162	
LOUISIANA CONTEST CLUB	13	7,786,625	
SOUTHWEST OHIO DX ASSOCIATION	5	7,503,944	
KANSAS CITY DX CLUB	12	7,106,155	
EMPIRE CONTEST CLUB	4	5,982,375	
SPOKANE DX ASSOCIATION	16	5,663,782	
ORDER OF BOILED OWLS OF NEW YORK	8	2,574,901	
CTRI CONTEST GROUP	9	2,568,294	
ROCHESTER (NY) DX ASSN	12	1,748,342	
NORTHEAST WISCONSIN DX ASSN	4	1,377,480	
NORTHERN ARIZONA DX ASSN	5	1,342,363	
IOWA DX AND CONTEST CLUB	4	1,317,492	
CAROLINA DX ASSOCIATION	8	1,124,496	
TEXAS DX SOCIETY	6	1,033,415	
MISSOURI DX/CONTEST CLUB	4	945,639	
BERGEN ARA	7	927,744	
MOTHER LODE DX/CONTEST CLUB	6	912,670	
ALLEGHENY VALLEY RADIO ASSOCIATION	4	900,602	
UTAH DX ASSOCIATION	9	857,927	
NORTHERN ROCKIES DX ASSOCIATION	3	840,677	
PORTAGE COUNTY AMATEUR RADIO SERVICE	9	744,564	
KENTUCKY CONTEST GROUP	5	643,405	
STERLING PARK AMATEUR RADIO CLUB	5	583,372	
MAGNOLIA DX ASSOCIATION	4	533,861	
SKYVIEW RADIO SOCIETY	7	407,842	
WESTERN NEW YORK DX ASSOCIATION	7	407,474	
GREAT SOUTH BAY AMATEUR RADIO CLUB	4	279,936	
WEST PARK RADIOPS	6	269,260	
MERIDEN ARC	6	262,048	
METRO DX CLUB	3	257,287	
MIDLAND AMATEUR RADIO CLUB	4	256,126	
DELAWARE LEHIGH AMATEUR RADIO CLUB	5	229,440	
MISSISSIPPI VALLEY DX/CONTEST CLUB	4	172,669	
DX			
Club	Entries	Score	
BAVARIAN CONTEST CLUB	197	289,001,968	
RHEIN RUHR DX ASSOCIATION	150	234,973,333	
ARAUCARIA DX GROUP	43	173,845,851	
LU CONTEST GROUP	51	158,826,567	
CONTEST CLUB ONTARIO	67	107,583,924	
BLACK SEA CONTEST CLUB	76	100,909,181	
SLOVENIA CONTEST CLUB	39	99,389,261	
UKRAINIAN CONTEST CLUB	95	89,314,658	
URAL CONTEST GROUP	39	81,963,094	
LZ CONTEST TEAM	3	69,444,551	
BOSNIA AND HERZEGOVINA CONTEST CLUB	13	61,151,552	
CONTEST CLUB FINLAND	35	59,476,474	
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	45	55,021,914	
SP DX CLUB	74	51,466,052	
HUNGARIAN DX CLUB	12	47,782,323	
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	13	44,120,975	
RUSSIAN CONTEST CLUB*	30	43,098,221	
CARIBBEAN CONTESTING CONSORTIUM*	3	38,658,165	
CROATIAN CONTEST CLUB	35	38,580,958	
VK CONTEST CLUB*	16	38,198,380	
LATVIAN CONTEST CLUB	34	37,779,130	
WEST SERBIA CONTEST CLUB	5	32,843,746	
ALRS ST PETERSBURG	18	29,090,036	
SKY CONTEST CLUB	8	24,663,522	
BRITISH COLUMBIA DX CLUB	12	23,765,853	
LES NOUVELLES DX	11	22,036,471	
CANTAREIRA DX GROUP	17	20,274,696	
LA CONTEST CLUB	9	19,445,456	
YU CONTEST CLUB	18	19,239,437	
UA2 CONTEST CLUB	7	18,123,689	
LITHUANIAN CONTEST GROUP	13	17,731,478	
BELARUS CONTEST CLUB	14	16,570,518	
ARIPA DX TEAM	3	15,880,714	
CE CONTEST GROUP	7	15,807,221	
AUSTRIAN CONTEST CLUB	7	15,030,244	
MARITIME CONTEST CLUB	18	14,984,644	
RIO DX GROUP	28	14,568,799	
DXCOLOMBIA AMATEUR RADIO CLUB	6	13,455,822	
WORLD WIDE YOUNG CONTESTERS*	16	12,373,129	
BELOKRANJEC CONTEST CLUB	7	12,057,787	
YO DX CLUB	35	12,030,486	
SOUTH URAL CONTEST CLUB	15	11,166,306	
FOX CONTEST CLUB	8	10,608,470	
CENTRAL SIBERIA DX CLUB	10	10,470,136	
TARTU CONTEST TEAM	3	10,420,261	
CONTEST GROUP DU QUEBEC	11	9,843,765	
ATCC*	13	8,664,000	
RADIOAMPT	3	8,620,145	
ANTWERP CONTEST CLUB	4	8,604,404	
CHILTERN DX CLUB	16	8,591,315	
RADIO CLUB HENARES	5	8,323,224	
GIPANIS CONTEST GROUP	11	7,742,853	
MICHURINSK CONTEST GROUP	6	6,921,989	
VRHNIKA CONTESTERS	15	6,269,682	
GUARA DX GROUP	15	6,106,570	
B1Z CLUB	3	5,864,614	
CS PETROLUL PLOIESTI	5	5,480,911	
BRIMHAM CONTEST GROUP	4	5,077,638	
STAVROPOL REGION CONTEST CLUB	6	5,032,213	
MOSCOW RADIO CLUB	8	4,058,091	
CICEVAC CONTEST CLUB	3	3,767,299	
SP CONTEST CLUB	7	3,757,106	
BASHKORTOSTAN DX CLUB	10	3,602,473	
TEMIRTAU CONTEST CLUB	7	3,591,541	
NICOSIA CONTEST GROUP	3	3,581,957	
CSM CRAIOVA	4	3,413,834	
TOP OF EUROPE CONTESTERS	8	3,252,700	
GRUPO DXXE	7	3,244,847	
SIAM DX GROUP	6	3,218,297	
SAMARA RADIO CLUB	5	3,061,397	
SK7OA SWEDISH SOUTHCOAST RADIOAMATEUR SOCIETY	6	3,014,038	
DOMODEDOVO	4	2,897,578	
CSTA BUCURESTI	4	2,844,514	
RADIO CLUB PARMA	6	2,788,596	
LYNX DX GROUP	3	2,623,500	
ORENBURG CONTEST CLUB	4	2,562,335	
FOSHAN AMATEUR RADIO CLUB	3	2,546,717	
ARCK	10	2,546,475	
LOMA DEL TORO CONTEST CLUB	3	2,459,641	
BALATON RADIOAMATEUR DX CLUB	3	2,296,620	
VERENIGING VAN RADIO ZEND AMATEURS	4	2,268,915	
IRKUTSK RADIO CLUB	3	2,036,952	
SARATOVSKAYA OBLAST RADIO CLUB	5	1,995,282	
YAROSLAVL CONTEST CLUB	6	1,827,414	
BALKAN CONTEST CLUB	3	1,636,587	
ARCTIKA	6	1,613,265	
DANISH DX GROUP	5	1,602,810	
SK6AW HISINGENS RADIOKLUBB	3	1,543,492	
RU-QRP CLUB	14	1,518,719	
KKKK CONTEST CLUB KRASNODARSKOGO KRAYA	3	1,499,020	
FRO-NORRTELJE	5	1,405,293	
RADIOCLUBUL RADU BRATU	3	1,385,200	
ARGO	6	1,296,052	
DONBASS	9	1,292,275	
SK7DX SOUTHWEST SCANIA RADIOAMATEURS CLUB	8	1,289,157	
INSUBRIA RADIO CLUB	4	1,249,705	
ROSTOV RADIO CLUB	3	1,226,365	
AGB ACTIVITY GROUP OF BELARUS*	3	1,210,036	
599 CONTEST CLUB	7	1,205,955	
NANAIMO AMATEUR RADIO ASSOCIATION	3	1,196,734	
MAYCOPSKIJ RADIO CLUB	5	1,189,774	
SK5AA VASTERAS RADIOKLUBB	5	1,130,514	
VU CONTEST GROUP	10	1,007,053	
VOLYN CONTEST GROUP	4	993,355	
ZENIT-RADIO	3	958,691	
DNEPR CONTEST GROUP	5	950,342	
UKRAINIAN DX CLUB	3	930,394	
GERMAN DX FOUNDATION	4	910,628	
VLADIMIR RADIO CLUB	10	879,991	
SASKATCHEWAN CONTEST CLUB	4	846,877	
OBINSK QRU CLUB	5	842,839	
SPEKTR	3	789,532	
CZECH CONTEST CLUB	4	750,741	
NOR NIZHEGORODSKOE AMATEUR RADIO COMMUNITY	3	699,425	
UPPSALA RADIOKLUBB	3	698,637	
CSR ISTRITA BUZAU	3	618,544	
MARCONI CONTEST CLUB	3	582,594	
NOVOSIBIRSK CONTEST CLUB	3	567,252	
NOVOKUZNETSK RADIO CLUB	7	545,303	
RTTY CONTESTERS OF JAPAN	4	525,247	
OK QRP CLUB	4	518,948	
SHAKHAN CONTEST CLUB	5	496,330	
FALKOPINGS RADIOCLUB	7	474,573	
IZMAIL RADIO CLUB	4	471,340	
HAROS RADIO CLUB	4	469,061	
ARA AMIGOS RADIO ALTOARAGON	3	440,582	
BEIJING SUNNY HAM CLUB	4	414,182	
VORONEZH RADIO CLUB	3	396,926	
UNION FRANCAISE DES TELEGRAPHISTES	3	378,162	
PALATUL COPAILOR SI ELEVILOR ORADEA	4	336,659	
GRIMSBY AMATEUR RADIO SOCIETY	3	318,032	
SPORT CLUB MIERCUREA-CIUC	3	304,516	
HONDA R AND D HAM CLUB TOCHIGI	3	302,553	
ACTIVITY SMOLENSK GROUP	3	296,352	
RADIOCLUBUL NOSTRU DIN CONSTANTA	3	263,805	
PODOLSK	6	260,524	
RADIO AMATEUR ASSOCIATION OF WESTERN GREECE	3	219,437	
BITTERN DX GROUP	3	212,330	
EDIT14	3	196,632	
CSM BAIA MARE	3	184,353	
GRUPO ARGENTINO DE CW	3	162,351	
DL-DX RTTY CONTEST GROUP	3	144,220	
GMDX GROUP	3	141,219	
KALININGRAD CONTEST CLUB	5	138,496	
CWJF GROUP*	4	135,420	
WATERLAND	5	135,090	
CS SILVER FOX DEVA	3	134,982	
WAIKIKI AMATEUR RADIO CLUB	3	83,996	
KRIVBASS	3	82,723	
KRISTIANSTADS RADIOAMATORER	3	50,360	
TURKISH SPECIAL WIRELESS ACTIVITY TEAM	3	30,163	

\* Club entry does not meet all rules.

ding the printing and mailing of over 1400 certificates. K1DG does a great job with the 63 different award plaques that are available. Thanks to Ken, K1EA, for continuing improvements in the log-checking software. We also appreciate the efforts of the CQ WW Contest Committee for their development of new log-checking methods.

For expanded results of the contest, including the QRM, operators of multi stations, and the full tables, go to the CQ website ([www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)).

The 2011 WPX CW Contest will be held on May 28 and 29. There are some small rule changes for the 2011 contest, so please read the rules very carefully (in the February issue of CQ magazine, on the CQ website, and on the WPX Contest website. Visit the frequently asked questions page on the CQ WPX Contest website ([www.cqwpw.com](http://www.cqwpw.com)). Please submit your WPX CW logs by e-mail to [cw@cqwpw.com](mailto:cw@cqwpw.com) before June 27, 2011.

See you in the next contest!

73, Randy, K5ZD

## CQ WW WPX CW CONTEST ALL-TIME RECORDS

The contest is held each year on the last full weekend of May. The All-Time Records are updated and published annually. Data shown below is: callsign, year of operation, total score, and number of prefix multipliers.

### WORLD RECORD HOLDERS Single Operator

1.8	IH9/OL5Y('98)	341,068	182
3.5	TM5Y('08)	1,983,366	567
7.0	3V8CB('10)	10,758,020	805
14	UP2L('09)	7,928,886	1043
21	ZX5J('05)	7,061,000	920
28	ZX5J('02)	6,787,440	857
AB	EF8M('10)	18,395,154	1026
Assisted	CN3A('09)	12,900,240	943
<b>Multi-Operator Single Transmitter</b>			
CT9M('08)		24,125,802	1182
<b>Multi-Operator Two Transmitters</b>			
EF8M('07)		33,324,192	1256
<b>Multi-Operator Multi-Transmitter</b>			
HC8N('99)		54,697,072	1264

### U.S.A. RECORD HOLDERS Single Operator

1.8	K1ZM('95)	40,446	107
3.5	W3BGN('08)	641,092	332
7.0	KG1D('05)	3,594,822	651
14	N2NC('06)	5,418,630	915
21	NU5A('99)	4,411,299	789
28	WW4M('01)	2,547,046	674
AB	KC3R('09)	9,597,400	806
Assisted	K3WW('04)	5,997,446	806
<b>Multi-Operator Single Transmitter</b>			
K1LZ('09)		10,691,724	964
<b>Multi-Operator Two Transmitters</b>			
KM4M('04)		16,283,745	1095
<b>Multi-Operator Multi-Transmitter</b>			
WE3C('09)		21,910,252	1274

<b>CLUB RECORD</b>	
Northern Calif. Contest Club('02)	253,543,497

<b>WPX (Prefix) RECORD</b>		<b>QRP/p RECORD</b>	
DR1A('08)	1313	P40W('97)	4,018,208

## CONTINENTAL RECORD HOLDERS

### AFRICA

1.8	IH9/OL5Y('98)	341,068	182
3.5	7X0RY('08)	1,701,260	407
7.0	3V8CB('10)	10,758,020	805
14	6W1SJ('09)	6,755,364	924
21	5X1Z('01)	6,362,352	782
28	ZS4TX('01)	4,602,028	722
AB	EF8M('10)	18,395,154	1026

### SOUTH AMERICA

1.8	YV1OB('86)	11,550	35
3.5	YX3A('89)	1,004,060	305
7.0	LU1IV('97)	7,671,456	702
14	HK1X('10)	4,667,505	815
21	ZX5J('05)	7,061,000	920
28	ZX5J('02)	6,787,440	857
AB	P4A('10)	14,688,993	957

### ASIA

1.8	4X4NJ('96)	259,420	170
3.5	TA0/Z33F('02)	1,452,552	348
7.0	ZC4LI('10)	4,770,336	632
14	UP2L('09)	7,928,886	1043
21	A45XR('99)	6,557,697	843
28	HZ1AB('02)	3,669,994	659
AB	4L0A('09)	12,560,363	967

### MULTI-OPERATOR SINGLE TRANSMITTER

AF	CT9M('08)	24,125,802	1182
AS	P33W('08)	21,314,175	1145
EU	RU1A('09)	13,838,256	1236
NA	8P4A('02)	18,516,960	1056
OC	AH2R('01)	11,541,420	957
SA	P49V('01)	19,760,744	1034

### EUROPE

1.8	SN7Q('08)	339,542	307
3.5	TM5Y('08)	1,983,366	567
7.0	CT1JLZ('09)	6,075,936	816
14	4O3T('06)	5,313,554	986
21	9H0A('02)	5,389,008	933
28	9H0A('01)	3,965,315	841
AB	CU2X('09)	10,208,016	1066

### MULTI-OPERATOR TWO TRANSMITTER

AF	EF8M('07)	33,324,192	1256
AS	C4I('09)	14,632,800	1005
EU	ES9C('08)	18,557,028	1266
NA	6Y1V('08)	20,507,972	1108
OC	ZL6QH('05)	13,312,768	952
SA	HC8N('03)	30,928,268	1187

### NORTH AMERICA

1.8	VA1A('99)	103,680	120
3.5	FM5BH('97)	833,490	315
7.0	V26BA('97)	6,227,550	659
14	N2NC('06)	5,418,630	915
21	ZF1A('99)	5,330,129	799
28	FM5GU('01)	2,849,769	621
AB	VY2TT('09)	12,878,826	1054

### MULTI-OPERATOR MULTI-TRANSMITTER

AF	CQ3L('10)	28,736,154	1173
AS	A61AJ('02)	42,766,232	1244
EU	DR1A('08)	24,285,248	1313
NA	6Y2A('02)	38,821,328	1274
OC	ZL6QH('04)	16,143,840	1010
SA	HC8N('99)	54,697,072	1264

### OCEANIA

1.8	KH6ND('07)	22,100	50
3.5	KH6ND('09)	596,673	231
7.0	ZM3A('09)	6,437,695	737
14	KH6ND('03)	4,126,690	730
21	KH6ND('99)	6,107,256	813
28	KH6ND('00)	1,523,008	424
AB	KH7XS('09)	9,124,899	879

### QRPp

AF	5Y4FO('92)	649,057	311
AS	ZC4BS('02)	2,515,388	521
EU	LY5A('01)	2,331,414	646
NA	TI5X('01)	2,568,470	615
OC	FO8JP('86)	572,131	259
SA	P40W('97)	4,018,208	632