

# Results of the 2008 CQ WPX RTTY Contest

BY GLENN VINSON,\* W6OTC, AND PAOLO CORTESE,† I2UIY

The 14th annual CQ WPX RTTY Contest was held February 9–10, 2008, with yet another record number of entrants—1,846 logs from 104 countries (including A5, 3V8, XW, D2, D3, SV5, T7)—by far the largest number of entries for any RTTY contest ever. One can only wonder what the results will be when 15 and 10 meters open again in the next few years.

Again, many new world records were set, including World Single Op All Band High Power, Single Op 21 MHz, SO 7 MHz, and Single Op 3.5 MHz, as were many important regional records. In addition, U.S. multi-op stations moved closer to parity with their European competitors. Total QSOs increased to 764,485 this year (vs. 681,000 in 2007) with 15,069 different callsigns (vs. 14,231 in 2007) in the database. Let's watch these numbers go up over the next few years as the solar flux improves dramatically over this year's number of 70, approximately the same as it was in 2007.

For log-checking, Paolo, I2UIY, was aided this year by the veteran and expert team of I2EOW, RW3FO, and N5KO. The most used software was N1MM Logger, followed by MixW, and then by WriteLog, collectively accounting for two-thirds of all logs submitted. Far behind the top three, but growing in popularity, is Win-Test, while a few of us hardheads continue to use the old reliable RTTY by WF1B.

## Single Operator

**Single Operator, Low Power (SOL).** Winning SOL this year, Mohamed, 5C5W (op: CN8KD), moved up from second place last year, and just missed setting a new world record with a score of 4,169,452 points (1,610 Q's, 6,926 pts, 602 mults). As it was, Mohamed increased the Africa SOL record for the second year in a row. In world second was Roger, P40R (aka: N4RR), who scored 3,660,636 points, making a significant contribution to the club score of the Society of Midwest Contesters. A bit farther north, from the Caribbean, Ted, HI3T (op: HI3TEJ), was world third, setting a new NA SOL record for the second year in a row with a score of 3,444,939 points. Setting a new Europe SOL record was world fourth, Sam, UT9FJ, who scored



World second-place Single Op All Band Low Power Roger, P40R (N4RR).

3,314,126 points, significantly exceeding TM6A's (op: F6IRF) 2006 Europe record of 2,747,824 points. Of at least equal significance, KS1Y (op: N1BAA), in world fifth place, trounced the USA SOL record (1,887,187 points) formerly held by Don, AA5AU, with a score of 2,978,766 points (1,625 Q's, 4,527 pts, 658 mults). Don was not idling. He also broke his old USA record with a score of 2,032,008 (1,634

Q's, 3,784 pts, 537 mults), but despite Don's QSO rate, he could not match KS1Y's points and mults. World sixth, and setting a new Asia SOL record, RT9S scored 2,906,568 points (1,391 Q's, 5,688 pts, 511 mults).

**Single Operator, High Power (SOH).** But wait. New SOH records were at least as significant as those in SOL. As in 2007, Ed, W0YK, operating as P49X, set anoth-



North America winner (outside U.S.) Andrei, EW1AR, at YN2S.

\*e-mail: <w6otc@garlic.com>

†e-mail: <i2uiy@cqww.com>

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er new World SOH record, this year scoring 10,055,636 points (2,997 Q's, 13,756 pts, 731 mults), the difference being in this year's mults, 731 versus last year's 723. World second was AO8A (op: RD3AF), who set a new Africa SOH record of 8,047,575 points (2,520 Q's, 11,415 pts, 705 mults), beating by almost 90% the Africa SOH record set in 2006 by 7X0RY. Next Tyler, K3MM, continued his dominance of USA/NA by setting another NA record, his fifth title, with 6,859,587 points (2,597 Q's, 8,897 pts, 771 mults). In world fourth, D4C also exceeded the previous Africa record with a score of 6,523,509 points, a great result, but not close to AO8A. However, world fifth, UA9CLB, exceeded his own Asia SOL record with a score this year of 6,007,579 points, an

increase of about 40% over his 2007 record score. Mike, K4GMH, was world sixth, and USA winner with a score of 5,146,737 points. Europe was won by world seventh finisher DL3TD, who scored 4,359,264 points.

**Single Operator, Single Band 28 MHz (28).** Ten meters continued to have relatively little single-band activity, with the winner, LU1HF, scoring 46,041 points, a substantial increase over 2007. But just wait until next year!

**Single Operator, Single Band 21 MHz (21).** Fifteen meters shows how much propagation has, in fact, improved already, despite the relatively low solar flux. Here LS1D (op: LW9EOC) won for the second year in a row, but this time set a new SO 21 World record, with a score of

### 2008 CQ WPX RTTY CONTEST PLAQUE SPONSORS AND WINNERS

#### Single Operator High Power

**World:** Sponsored by John (Bob) Orton, WA6BOB. Winner: P49X (Op: Ed Muns, WØYK)

**Africa:** Sponsored by Andrei Stchislenok, EW1AR-NP3D (in Memory of EU1MM). Winner: AO8A (Op: Valery Komarov, RD3AF)

**Asia:** Sponsored by Tyler Stewart, K3MM. Winner: Vadim Ovsyannikov, UA9CLB

**Europe:** Sponsored by DL-DX RTTY Contest Group. Winner: Lothar Wilke, DL9TD

**N.A.:** Sponsored by Ed Muns, WØYK. Winner: Tyler Stewart, K3MM

**N.A. Outside K/VE:** Sponsored by Alex Priluk, K2PAL. Winner: YN2S (Op: Andrei Stchislenok, EW1AR-NP3D)

**USA:** Sponsored by Glenn Vinson, W6OTC. Winner: Mike Sims, K4GMH

#### Single Operator Low Power

**World:** Sponsored by Mike Sims, K4GMH. Winner: 5C5W (Op: Mohamed Kharbouche, CN8KD)

**Asia:** Sponsored by Trey Garlough, N5KO. Winner: Yuri Kotelnikov, RT9S

**Europe:** Sponsored by Paolo Cortese, I2UIY. Winner: Sam Sorokin, UT9FJ

**N.A.:** Sponsored by Wayne King, N2WK. Winner: HI3T (Op: Ted Jimenez, HI3TEJ)

**Oceania:** Sponsored by Steve (Sid) Ceasar, NH7C. Winner: Felimon Morano, Jr., 4D75J

**USA:** Sponsored by Jim Reisert, AD1C. Winner: KS1Y (Op: Jose Castillo, N1BAA)

#### Single Operator Single Band

**3.5 MHz World:** Sponsored by Doug Faunt, N6TQS. Winner: Tone Crv, S53E

**7 MHz World:** Sponsored by Don Reed, K2OGD. Winner: Jose Duarte Sousa Goncalves, CT3KY

**14 MHz World:** Sponsored by Fabi Bertolotto, VA2UP. Winner: Zelimir Klasan, 9A2DQ

**21 MHz World:** Sponsored by Jim Steel, M0ZAK. Winner: LS1D (Op: Silvio Martin, LW9EOC)

**28 MHz World:** Sponsored by Steve Hodgson, ZC4LI. Winner: John Morandi, LU1HF

#### Multi-Op Single Transmitter

**World:** Sponsored by Steve Merchant, K6AW. Winner: T93M (Ops: T93M, T93Y, T94KC, T97M)

**Asia:** Sponsored by CT3 Madeira Contest Team/CQ9K/CT9M. Winner: RK9CWA (Ops: RW9CF, RV9COX)

#### Multi-Op Two Transmitter

**World:** Sponsored by HC8N RTTY Team. Winner: NP3U (Ops: KI1G, NG1G, N1HRA, WE1H, KP4VP, WP4U)

**N.A.:** Sponsored by Ed Muns, WØYK. Winner: N2WK (Ops: N2WK, WA2TMC)

#### Multi-Op Multi-Transmitter

**World:** Sponsored by Neal Campbell, K3NC. Winner: Z37M (Ops: Z31MM, Z32ID, Z35T, Z35X, Z36N, Z36W, Roberto)

**N.A.:** Sponsored by KA4RRU RTTY Team. Winner: WW4LL (Ops: WW4LL, KI5XP, K1ZZI, K9JS, K9MUG)

**USA:** Sponsored by Fred Dennin, WW4LL. Winner: KA4RRU (Ops: KA4RRU, N4DXS, K3UI, KI4ZKJ, K5OF, KI4VUQ, KI4ZKI, N3WSO, W4MLD, KG4URW, N3XJN, WA4TK, KD6AKC)

#### Club Competition

**World:** Sponsored by Potomac Valley Radio Club. Winner: Bavarian Contest Club (DL)

**N.A.:** Sponsored by Northern California Contest Club. Winner: Northern California Contest Club

2,165,968 points. The veteran contesteer Wanderley, ZX2B (op: PY2MNL), also exceeded the old (2002) world record of 5U8B (op: I2UIY) with a score of 1,945,581 points. CT3FQ was world third, scoring 1,448,172 points.

**Single Operator, Single Band 14 MHz (14).** The results this year on 20 meters were good, but no new world record was set. The winner was 9A2DQ, scoring 2,124,825 points. Very close behind, in second place, LZ9W scored 2,012,023 points. In world third place, LZ8A scored 1,943,928 points.

**Single Operator, Single Band 7 MHz (7).** The conquest of new SO7 records continued this year with another new SO7 world (and Africa) record, this year set by CT3KY with a score of 3,686,144 points (1,132 Q's, 6,776 pts, 544 mults). In world second, YT5C scored 2,435,520 points, while world third was GW4SKA with a score of 2,124,752 points. Other notable scores were a new SO7 Oceania record set by AH6OZ, with a score of 1,817,924 points, and another new SO7 USA record set by AE5AA (op: N5ZM), who scored 1,715,778 points.

**Single Operator, Single Band 3.5 MHz (3.5).** On 80 meters, the quest for new records has been intense for several years, and yet again this year that quest was rewarded. Returning for his fifth 80-meter win, and reclaiming the SO3.5 world record, Tone, S54E, set the new world record of 2,225,056 points (985 Q's, 4,486 pts, 496 mults). Very close behind was OK3R (op: OK1DVM), who also broke last year's world record of 1,936,118 points, with his own score this year of 2,151,016 points. In world third, CT3EE almost equaled the old record with his score of 1,902,712 points.

## Multi-Operator

**Multi-Operator Multi-Transmitter (MOM).** The three top finishers in MOM had remarkably close numbers of QSOs, each higher than the highest number (3,254) made in 2007. However, the multiplier totals this year were not as high as OM8A's winning number in 2007 (877). Last year's third-place winner, Z37M (ops: Z31MM, Z32ID, Z35T, Z35X, Z36N, Z36W, Roberto), moved to world first this year with a score of 9,792,090 points (3,262 Q's, 12,089 pts, 810 mults), more than 500,000 points above their 2007 score. RW0A (ops: RA0AM, RA0AHC, RA0ALM, RU0AB, RU0AM, RU0AT, RU0AIG, RV0AR, RV0AX, RW0AR, RX0AE, RZ0AF, RZ0AT) was world second, scoring 9,238,341 points (3,257 Q's, 12,957 pts, 713 mults). WW4LL (ops: WW4LL, K4ZJ, KI5XP, K1ZZI, K9JS, K9MUG), in world third, smashed their own 2007 U.S./N.A. MOM record of 4,699,200 points with a very impressive leap to the world-class level of 8,084,176



World Multi-Two champion team NP3U (left to right): N1HRA, WE1H, KI1G, NG1G, WP4U.

points (3,293 Q's, 10,156 pts, 796 mults).

**Multi-Operator Single Transmitter (MOS).** After 2007's record-breaking scores in MOS, no new world record was set this year, but big scores were logged by a number of stations. In world first and setting a new Europe MOS record, T93M (ops: T93M, T93Y, T94KC, T97M) scored 7,185,772 points (2,520 Q's, 9,119 pts, 788 mults). World second was UF3CWR (ops: RZ3AZ, RX3DU), scoring 6,627,418 points (2,631 Q's, 8,686 pts, 763 mults). Very close behind, in world third, OM8A (ops: 9A7R, OM3NA, OM3RM, OM7JG) scored 6,468,024 points (2,212 Q's, 8,466 pts, 764 mults). RL3A was world fourth with 6,261,164 points. In world fifth, and setting a new USA MOS record, K1LZ (ops: KG6KZK, KE5KHS) smashed NN6NN's 2005 record of 2,973,030 points with a score of 5,581,185 points (2,247 Q's, 7,635 pts, 731 mults). Like WW4LL's score in MOM, this result moves the top U.S. entry closer to parity with the big guns in Europe and Africa.

**Logging Note for RTTY WPX MOS:** Remember, in WPX RTTY (unlike CQWW RTTY), only a single transmitter is used to make all contacts. Accordingly, MOS stations must use a *single sequence of serial numbers*, not separate numbers for each band or for any other purpose.

**Multi-Operator Two Transmitter (M2).** M2 continue what seems to have become a tradition by achieving the highest score in any category, with NP3U (ops: KI1G,

NG1G, N1HRA, WE1H, KP4VP, WP4U) scoring 14,053,680 points (4,387 Q's, 15,720 pts, 894 mults), and establishing a new NA M2 record. Not surprisingly, this group was led by Rick Davenport, KI1G, who was already the USA/NA M2 champion and record-holder in CQWW RTTY as well as in WPX RTTY from his home station. In world second, OG8X (ops: OH8JT, OH8MWD, OH6KXL, OH8KVY, OH8GZN, OH6CT, OH8GZQ, OH8BQT) scored 7,465,920 points (2,746 Q's, 9,240 pts, 808 mults). World third was TM7Z (ops: F5MOO, F4EGD, F5CWU, F6FYA) with a score of 7,265,205 pts (2,602 Q's, 9,497 pts, 765 mults).

## Rookie of the Year

Forty-one operators entered as Rookies this year, and IZ1LBG set a new World Rookie record, entering in SOH and scoring 2,437,044 points. Moving up from world third to world second place was RK9AJZ, entered in SOL, who scored 1,607,022 points, an improvement of 500,000 points for him. World third was XE3RBA, who scored 847,584 points. *Please remember that those entering the Rookie class must have been licensed for no more than three years as of the time of the WPX RTTY contest.*

## SWL

The SWL winner this year was I1-12387, who logged 680 Q's for 930,204 points.

## Important On-Line Resources

To prepare for the 2009 contest, please refer to the following on-line resources:  
 Contest rules: <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)>  
 Contest records: <[www.rttystesting.com/records/cqwpxrty.html](http://www.rttystesting.com/records/cqwpxrty.html)>  
 Operating, logging, and log submission tips: <[www.i2uiy.it/wpx.html](http://www.i2uiy.it/wpx.html)>  
 Cabrillo specifications: <[www.kkn.net/~trey/cabrillo/spec.html](http://www.kkn.net/~trey/cabrillo/spec.html)>  
 Cabrillo template for this contest: <[www.kkn.net/~trey/cabrillo/wpx-rty.txt](http://www.kkn.net/~trey/cabrillo/wpx-rty.txt)>  
 Log Submissions: <[wpxrty@kkn.net](mailto:wpxrty@kkn.net)>  
 List of logs received: <[www.cqwpxrty.com](http://www.cqwpxrty.com)>

## Clubs

As one might expect in a year of a record number of log entries, club entries also increased from 55 to 62. Repeating as the decisive winner was the Bavarian Contest Club, increasing its score substantially from 32-million points to 46-million points, and winning the World Club plaque sponsored by the Potomac Valley Radio Club. PVRC was again world second, with 30-million points, winning the new North America plaque sponsored by the Northern California Contest Club. Contest Club Finland repeated in world third with 21.6-million points, while the Yankee Clipper Contest Club was fourth with 19.5-million points. Please remember to write the full name of your club in the Cabrillo header. Otherwise, we may not recognize the abbreviation of your club's name.

## Summary

CQ WPX RTTY Contest participation and scores were exceptional this year, and suggest that future growth in RTTY contesting will be very impressive as the solar flux has now begun to increase. Again this year about 60% of all logs were submitted within the first week after the contest, and more than 85% within the first two weeks after the contest. As noted before, in both RTTY WW and WPX the master call files created for each contest are split about one-third U.S. calls and two-thirds non-U.S. calls. Strong International participation is clearly a significant factor in increasing scores. This year logs were received from 100 countries and 6 continents.

**If you operate using a special callsign, please submit your log using that callsign and show your normal callsign in the Cabrillo header on the "operator" line. Do not submit the log under your own callsign.**

**The 30 hour time limit for SO classes:** Remember that in CQ WPX RTTY all single operator classes are limited to 30 hours of operation, with minimum breaks of 60 minutes. When submitting Cabrillo-format logs, nothing need be marked in the log to show off-times. The log-checking software will automatically calculate the operating time. However, if you exceed 30 hours of operation (as about 60 operators did this year), we will delete all contacts made after 30 hours for purposes of calculating your score.

**No self-spotting is allowed:** Remember that while spotting networks are permitted for all classes, self-spotting is not permitted for any class.

**Summary sheets:** No summary sheet is required for any log submitted in Cabrillo format.

**All-time CQ WPX RTTY Records:** To check these records, go to <[www.rttystesting.com/records/cqwpxrty](http://www.rttystesting.com/records/cqwpxrty)>.

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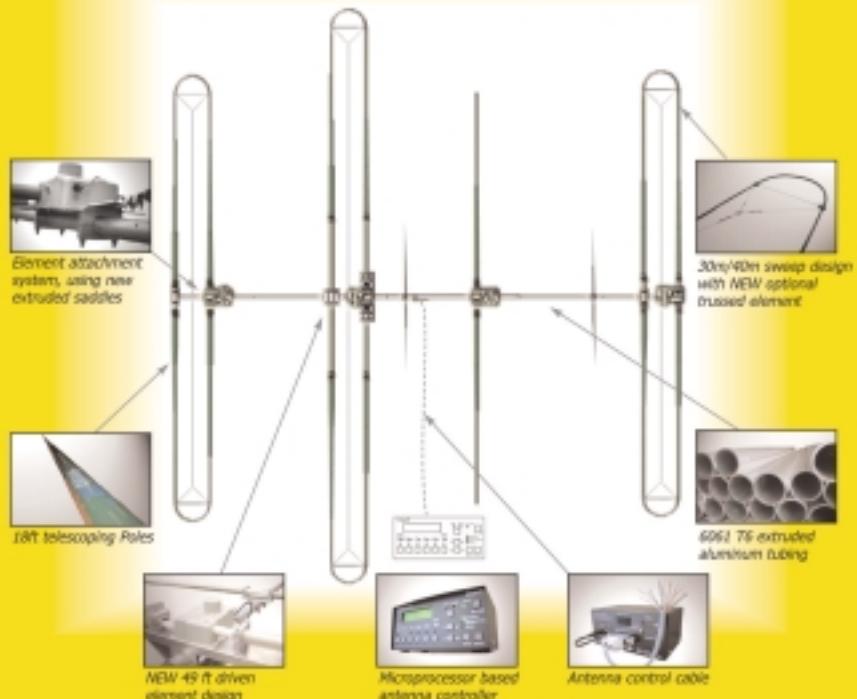
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| Antenna Specs       | Dream Beam 36                  |
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| Weight              | 180 lbs / 72.5 kg              |
| Wind load           | 17.5 sq ft / 1.63 sq m         |
| Longest element     | 46 ft / 15.1 m                 |
| Turning radius      | 26 ft / 8.0 m                  |
| Boom length         | 35' 10" ft / 11.1 m            |
| Mast clamps (incl.) | 2.0 in / 5.08 cm               |
| Power rating        | 3 KW                           |
| Wind rating         | 100 mph EIA-222-C              |
| Frequency coverage  | **3.4 MHz - 54 MHz             |
| Cable requirements  | 16 conductor 22 gauge shielded |
| Tuning rate         | 1.33 ft/sec - .4 m/sec         |

| Band | Performance |            |
|------|-------------|------------|
|      | dBi Gain    | F/R dB     |
| 80m  | 1.35        | N/A        |
| 40m  | 7.2         | 23         |
| 30m  | 8.2         | 38         |
| 20m  | 9.27        | 21.5       |
| 17m  | 9.88        | 25.5       |
| 15m  | 10.21       | 27.1       |
| 12m  | 10.49       | 21.1       |
| 10m  | 10.65       | 11.0       |
| 6m   | 4.07(12.75) | 1.78(27.4) |

- Sketch shown with optional 6m passive kit
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USA Multi-Two champion team N2WK: WA2TMC (front) and N2WK.

html> hosted and maintained by Don, AA5AU, a great friend to all RTTY contesters.

**Expanded Results:** For comments by participants, see the QRM sections that follow here, and also go to <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)> for expanded QRM and a list of the ops of the multi stations.

### The 2009 CQ WPX RTTY Contest

The 15th Annual CQ WPX RTTY Contest will be run on February 7–8, 2009 (the second full weekend of February). Please note that Cabrillo-format logs are highly encouraged for all entrants with e-logs required from all potential high scoring entrants in any category. Also, any computer-generated log with more than 50 contacts must be submitted via e-mail or on a 3.5-inch diskette via snail mail. For those who submit diskettes, please remember to send the diskettes in a protective envelope. E-mail is clearly the most reliable and easiest mode for log submissions, but we welcome all logs, including (subject to the restrictions described above) paper logs, no matter how they may be sent. Finally, the **deadline for log submissions is March 6, 2009**. The full text of the 2009 rules will be published in the January 2009 issue of CQ and on the CQ website at <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)>. Please read the rules carefully prior to the contest, and please note that **all logs submitted via e-mail go to <[wpxrty@kkn.net](mailto:wpxrty@kkn.net)>**.

**Plaques.** The plaque program for CQ WW RTTY and CQ WPX RTTY is chaired by four-time SOH USA CQ WPX RTTY winner Mike Sims, K4GMH. Be sure to contact Mike ([k4gmh@arrl.com](mailto:k4gmh@arrl.com)) if you would like to sponsor a plaque for either contest.

73, Glenn, W6OTC, and Paolo, I2UIY

### DX QRM

**5C5W:** Nice conditions on the first day on low bands helped the score. I worked 30 hours. Thanks to all participants. **9A2EU:** Limited time this year. I did just for fun couple of hours. Good propagation on 80 and 40 meters. **CT1AOZ:** Many thanks for all QSOs I made. Once again Mr. Murphy was here. I was prepared for the contest but linear fry, QRP fry, then take my old IC-720 from junkbox. When try to drive it, FSK switch was "kaput." Really was not my good day and went and had a walk around for one hour of time before repairing the FSK switch. **DJ3WE:** First time participation in a RTTY contest. Well, I just got my feet wet and had to stop just when I started to understand how it works. Seems to be a fairly relaxed way to participate in a contest. **DL4EAX:** Niceconds on 15m and 20m. Nothing on 10m. Equipment: FT-847 and 80m horizontal loop. See you next year! **DU1UGZ:** The propagation was very unpredictable. The band would open to Europe for 5 minutes and suddenly everybody was gone, even regional stations such as JA, YB, VK, and others. **EF5J:** This call wil be used for all CQ WW contests this year. I hope you can enjoy with this prefix, not usual in Spain. In next contest I try to activate the prefix more times.

### TOP SCORES

#### Single Op High Power

|                       |            |              |           |
|-----------------------|------------|--------------|-----------|
| P49X (op: W0YK).....  | 10,055,636 | D4C .....    | 6,523,509 |
| AO8A (op: RD3AF)..... | 8,047,575  | UA9CLB ..... | 6,007,579 |
| K3MM .....            | 6,859,587  |              |           |

#### Single Op Low Power

|                        |           |            |           |
|------------------------|-----------|------------|-----------|
| 5C5W (op: CN8KD).....  | 4,169,452 | UT9FJ..... | 3,314,126 |
| P40R (op: N4RR).....   | 3,660,635 | KS1Y ..... | 2,978,766 |
| HI3T (op: HI3TEJ)..... | 3,444,939 |            |           |

#### Multi-Op Single Transmitter

|              |           |            |           |
|--------------|-----------|------------|-----------|
| T93M .....   | 7,185,772 | RL3A ..... | 6,261,164 |
| UF3CWR ..... | 6,627,418 | K1LZ.....  | 5,581,185 |
| OM8A .....   | 6,468,024 |            |           |

#### Multi-Op Two Transmitter

|            |            |              |           |
|------------|------------|--------------|-----------|
| NP3U.....  | 14,053,680 | DA0BCC.....  | 7,137,858 |
| OG8X ..... | 7,465,920  | J40WPX ..... | 5,306,224 |
| TM7Z ..... | 7,265,205  |              |           |

#### Multi-Op Multi-Transmitter

|            |           |              |           |
|------------|-----------|--------------|-----------|
| Z37M ..... | 9,792,090 | OH6R .....   | 7,731,220 |
| RW0A.....  | 9,238,341 | KA4RRU ..... | 4,591,668 |
| WW4LL..... | 8,084,176 |              |           |

#### Single Op 3.5 MHz

|                       |           |              |           |
|-----------------------|-----------|--------------|-----------|
| S54E.....             | 2,225,056 | IV3SKB ..... | 1,718,528 |
| OK3R (op: OK1DVM).... | 2,151,016 | I4AVG .....  | 1,717,100 |
| CT3EE .....           | 1,902,712 |              |           |

#### 7.0 MHz

|                       |           |                      |           |
|-----------------------|-----------|----------------------|-----------|
| CT3KY .....           | 3,686,144 | UT7U (op: UT7UV).... | 2,091,376 |
| YT5C (op: YT7AW) .... | 2,435,520 | UW5Q.....            | 1,945,084 |
| GW4SKA .....          | 2,124,752 |                      |           |

#### 14 MHz

|                        |           |              |           |
|------------------------|-----------|--------------|-----------|
| 9A2DQ.....             | 2,124,825 | I4IKW .....  | 1,863,225 |
| LZ9W (op: LZ2HM).....  | 2,012,023 | VE2RYY ..... | 1,810,074 |
| LZ8A (op: LZ2BE) ..... | 1,943,928 |              |           |

#### 21 MHz

|                       |           |                       |         |
|-----------------------|-----------|-----------------------|---------|
| LS1D (op: LW9EOC).... | 2,165,968 | UR6F (op: UX0FF)..... | 714,688 |
| ZX2B (op: PY2MNL).... | 1,945,581 | ZS6DXB .....          | 555,489 |
| CT3FQ.....            | 1,448,172 |                       |         |

#### 28 MHz

|             |        |
|-------------|--------|
| LU1HF ..... | 46,041 |
|-------------|--------|

**G0HVQ:** My first WPX RTTY. Great fun. Didn't expect to work the Caribbean on 10m at the bottom of the cycle. Will be back next year with better antennas and more planning. Was too conscious of the 30 hr rule for single-ops and only ended up operating 24 hrs in the end. **GW4SKA:** Fantastic contest wth huge activity. Came so close to the magic 1000 contacts on a single band. **HZ1PS:** Many thanks to all for the QSOs. New antenna made a lot of difference but need to get the 40m antenna up and running. Thanks to CQ for the contest. **JH8KYU1:** I had a fun time with a barefoot radio and 1 meter short whip antenna. **KL8DX:** What a blast! Saturday was standing room only on 20 meters, if that! Stations were lined up from 14065 thru 14130, and then came Sunday! A high solar wind nearly rendered the bands useless. Stations were workable over the pole but lots of polar flutter made many hard to copy. Saturday was easy but Sunday, that was a challenge. That's contesting! **LV5V:** Nice contest as usual. Had problem with my 15 meter Yagi so lost much time reparing it. Only 12 hours operation. Mny tnx to all and hope we see you agn in 2009. 73 Jorge, LU5VV.

**M0GBP:** Rookie operator, licenced Feb. 2007. Wall to wall stations all the time. I'm afraid I cherry picked the juicy DX in the time I had. Thanks everyone for taking part and CQ for organising. **NL7V:** Condx better than last year. **OM8A:** We worked NP3U on all 5 bands. Thanks to whoever was manning the contest station there! That is the first DX 5 band contact I have had in a contest for a couple of years. Maybe a sign of propagation improving finally! Equipment/software worked flawlessly. **P40R:** My most favorite contest. Need to increase operating time for single operators to 36 hours because of the increasingly higher activity. **PA0-**

**FAW:** Condx Saturday not okay, on Sunday better. Worked on 15m LU and PY with 5 watts and an indoor longwire. **RM9RZ:** Many peoples worked in this year. Very fine weekend. Cu next year. **RZ4HZW:** Murphy was present all weekend. Lost 80/40 dipole balun on Saturday night. Remote antenna switch burned out on Sunday morning. Hooked SteppIR straight into rig; resurrected the 80/40 antenna during the day. All in all I enjoyed the contest. It was my second contest in doing RTTY.

**S56G:** Just couple of hours for setup and

software testing. Thanks to all good ops who managed to decode me! **SP0DXC:** A lot of fun, a small WWYC gathering. We were using SP DX club callsign (big thanks to SP5UAF). **T77NM:** We tested homemade 4-square verticals. Had good experience and a lot of fun. Now we start to build 80m system. We operated only on 40m and only 24 hr. **VE3AP:** Thanks again to VE3RM for being host. Thanks again to LW8EXF for her support. SO2R with WF1B is a real challenge. **VE3FZ:** Fun contest this year and was great to see 15m open. **VE7FCO:** Still

in the learning curve of this method. Thanks for everyone's support. **VK4EJ:** Terrific conditions for this great contest. Worked 4 continents at the same time on 40 meters, all this with no sunspots. Roll on Cycle 24 for next year. **VU2LBW:** The best thrills were to hear ZM2A call me and working OY3JE for an all time new one! **XE2RV:** This was my first RTTY WPX contest. It was really fun getting new DXCC and U.S. states for my list. I really enjoyed it. I am looking forward to next RTTY contest. **ZS2EZ:** Very enjoyable contest! 20m was a big disappointment on Sunday night, but 15 was in good shape for the first time in quite a while. Improved my score from last year but could have been much better!

## CLUB COMPETITION

|   |            |
|---|------------|
| BAVARIAN CONTEST CLUB (DL)              | 46,192,426 |
| POTOMAC VALLEY RADIO CLUB               | 30,151,456 |
| CONTEST CLUB FINLAND (OH)               | 21,570,313 |
| YANKEE CLIPPER CONTEST CLUB             | 19,517,374 |
| RHEIN RUHR DX ASSOCIATION (DL)          | 17,046,233 |
| NORTHERN CALIFORNIA CONTEST CLUB        | 16,087,370 |
| CTR1 CONTEST GROUP                      | 14,892,345 |
| URAL CONTEST GROUP (UA9)                | 14,663,570 |
| RUSSIAN CONTEST CLUB (UA)               | 14,296,832 |
| UKRAINIAN CONTEST CLUB (UR)             | 13,218,803 |
| ALABAMA CONTEST GROUP                   | 13,112,013 |
| CENTRAL SIBERIA DX CLUB (UA0)           | 10,940,337 |
| SOUTH URAL CONTEST CLUB (UA9)           | 10,861,927 |
| CONTEST CLUB ONTARIO (VE3)              | 10,849,097 |
| HA DX CLUB (HA)                         | 9,568,914  |
| SOCIETY OF MIDWEST CONTESTERS           | 8,260,851  |
| MADEIRA CONTEST TEAM (CT3)              | 7,242,394  |
| CONTEST GROUP DU QUEBEC VE2)            | 7,014,454  |
| LATVIAN CONTEST CLUB (YL)               | 6,625,128  |
| BLACK SEA CONTEST CLUB (UR)             | 6,409,775  |
| FLORIDA CONTEST GROUP                   | 6,071,339  |
| SP DX CLUB (SP)                         | 6,040,718  |
| YU CONTEST CLUB (YU)                    | 5,968,009  |
| LU-CG CONTESTER GROUP (LU)              | 5,944,587  |
| FRANKFORD RADIO CLUB                    | 5,536,935  |
| DRCG (DL)                               | 5,225,677  |
| ROCHESTER (NY) DX ASSN                  | 4,988,796  |
| WORLDWIDE YOUNG CONTESTERS (*)          | 4,598,181  |
| KIEV CONTEST GROUP (UR)                 | 4,480,343  |
| TENNESSEE CONTEST GROUP                 | 3,789,862  |
| TEMIRTAU CONTEST CLUB (UN)              | 3,293,202  |
| MINNESOTA WIRELESS ASSN                 | 3,229,400  |
| GRAND MESA CONTESTERS OF COLORADO       | 3,162,282  |
| MARITIME CONTEST CLUB (VE)              | 2,976,739  |
| SKY CONTEST CLUB (YU)                   | 2,776,828  |
| BRITISH COLUMBIA DX CLUB (VE7)          | 2,480,113  |
| TULA REGION CLUB (UA3)                  | 2,444,573  |
| ORDER OF BOILED OWLS OF NEW YORK        | 2,263,252  |
| KRIVBASS (UR)                           | 2,077,844  |
| TIKKIRIKI CONTEST CLUB (I)              | 2,006,116  |
| SLOVENIA CONTEST CLUB (S5)              | 1,983,283  |
| DXXE DX GROUP (XE)                      | 1,963,501  |
| EPC (UA9)                               | 1,934,211  |
| SOUTHERN CALIFORNIA CONTEST CLUB        | 1,785,837  |
| KKKK (UA6)                              | 1,770,114  |
| SIAM DX GROUP (HS)                      | 1,467,922  |
| GMDX GROUP (GM)                         | 1,437,514  |
| ORENBURG CONTEST CLUB (UA9)             | 1,367,292  |
| BARTG (G)                               | 1,213,633  |
| WILLAMETTE VALLEY DX CLUB               | 1,142,176  |
| MAIKOP RADIO CLUB (UA6)                 | 1,140,250  |
| CAROLINA SHINE                          | 1,070,173  |
| WESTERN WASHINGTON DX CLUB              | 833,961    |
| LOW COUNTRY CONTEST CLUB                | 663,910    |
| RTTY CONTESTERS OF JAPAN (JA)           | 540,870    |
| CENTRAL TEXAS DX AND CONTEST CLUB       | 386,672    |
| DAUBERVILLE DX ASSOCIATION              | 381,872    |
| SPOKANE DX ASSOCIATION                  | 328,330    |
| VLADIMIRSKIY RADIO CLUB (UA3)           | 326,703    |
| SOUTH EAST CONTEST CLUB                 | 310,854    |
| KENTUCKY CONTEST GROUP                  | 277,890    |
| NANAIMO AMATEUR RADIO ASSOCIATION (VE7) | 192,083    |
| RIO DX GROUP (PY)                       | 43,173     |

(\*) Listed for completeness, however, not within Club Competition rules.

## USA QRM

**AA5AU:** My best WPX RTTY ever! What a great contest! **AA7FK:** Had a blast! 40 and 20 were the best bands at this QTH. Only a handful of stations seen on 15. Looking forward to the next one and improvement in the cycle!

**K0BX:** The WPX RTTY gets bigger and bigger each year. Sure is a lot of fun. **K4XD:** First SO2R experience. Poor man's version. Just used WriteLog to run two RTTY windows and hooked up the second radio to one of my Cobra ultralight multiband antennas. About 10.5% of the Q's were on the second radio. Did help to keep me awake! Thanks all for the fun and Q's. **K7RE:** Conditions to Europe up this far north were very spotty, and poor especially on Sunday morning. The QSB was horrendous and at times surrealistic. At times there were no signals at all showing on the display! I got that sinking feeling more than once that something on my end had failed, especially with the band noise being so incredibly loud. **K7XC:** A fun contest! Even 10m opened for a few hours Sunday afternoon! **KG4OLG:** Each contest is a learning opportunity. I hope I improve with each contact. Thanks to the ops who take the time to help a new RTTY contest.

**KI4NSP:** This was my first contest and also my first RTTY contact! I had a great time! Thanks very much for conducting the contest!

**KY5G:** Had a great time this year after a log malfunction right at the first. Needed my 400 ft 120 ft high double zepp, but wasn't able to get it fixed during the contest. Even though I couldn't spend a lot of time in the chair it was fun. Thanks to everyone for the Q's. **N9TF:** Just played a bit Sunday. Was looking to fill in some RTTY DXCC and hand out some points. Good signs from EU Sunday morning on 20 but had hard time getting my 100 watts into mini beam to be heard. **NN6NN:** Part-time effort. However, my pile-up fix was satisfied for now.

**W0RAA:** Things started out slow but picked up. I was beginning to wonder if my FT-950 was getting out. I did better than I thought but not as good as I wanted to do. Thanks to all who gave me a contact. **W4ZE:** This contest was really fun. I hit my 30 hour mark at 1817Z and had a really good run going on 15m. Speaking of 15m, what a pleasure to see Cycle 24 starting up and to have such good conditions on 20/15 for a change. I tried my hand at SO2R. **WG8Y:** Lost Friday night fixing balky blower on amp. Computer locked up Saturday AM. Keyboard trouble. WriteLog saved file. Had S9+ snow static part of Sunday AM. Lost power for 42 min. at end of test. Guess what? Still had a great time.

(Continued on page 107)

# RTTY Results (from page 31)

Number groups after callsigns denote the following: QSOs, Points, Prefixes, and Final Score. Certificate winners are listed in boldface.

## 2008 WPX RTTY RESULTS

Single Operator All Band High Power

|        |      |        |     |            |
|--------|------|--------|-----|------------|
| P49X   | 2997 | 13,756 | 731 | 10,055,636 |
| A08A   | 2520 | 11,415 | 705 | 8,047,575  |
| K3MM   | 2597 | 8897   | 771 | 6,859,579  |
| D4C    | 2343 | 9201   | 709 | 6,523,509  |
| UA9JMP | 2320 | 9551   | 629 | 6,007,579  |
| K4GMH  | 2347 | 7363   | 699 | 5,146,737  |
| DL3TD  | 1749 | 6487   | 672 | 4,359,264  |
| UW2M   | 1825 | 6661   | 637 | 4,243,057  |
| AJ1I   | 2012 | 5902   | 716 | 4,225,832  |
| RG9A   | 1771 | 7118   | 591 | 4,206,738  |
| VE3AP  | 1579 | 5834   | 588 | 4,301,392  |
| EA1AKS | 1498 | 5681   | 562 | 3,192,722  |
| YN2S   | 1728 | 5505   | 570 | 3,137,850  |
| Y0H9P  | 1501 | 5167   | 583 | 3,012,361  |
| JS3CTQ | 1418 | 5429   | 545 | 2,958,805  |
| I2UIY  | 1451 | 5329   | 538 | 2,867,002  |
| RA3CM  | 1550 | 5085   | 522 | 2,857,770  |
| JH4UYB | 1327 | 5107   | 539 | 2,752,753  |
| WB9Z   | 1600 | 4451   | 605 | 2,692,855  |
| VA3DX  | 1367 | 4924   | 542 | 2,668,808  |
| VE3UTT | 1283 | 4626   | 564 | 2,609,064  |
| UW2N   | 1287 | 4488   | 552 | 2,477,376  |
| I2LBG  | 1313 | 4321   | 564 | 2,437,044  |
| UZ1G   | 1432 | 4550   | 528 | 2,402,400  |
| KH6ZM  | 1462 | 5892   | 405 | 2,386,260  |
| SP4TXI | 1224 | 4318   | 550 | 2,374,900  |
| RD4WA  | 1496 | 4324   | 549 | 2,373,876  |
| YL2CI  | 1379 | 4318   | 546 | 2,357,628  |
| UA9OG  | 1351 | 4680   | 490 | 2,293,200  |
| W3MF   | 1344 | 4004   | 559 | 2,238,236  |
| YL6W   | 1208 | 4310   | 514 | 2,215,340  |
| RG3K   | 1375 | 4112   | 538 | 2,212,256  |
| SP9LJD | 1190 | 4349   | 491 | 2,135,359  |
| W4ZE   | 1456 | 3657   | 580 | 2,121,060  |
| UA4HOX | 1358 | 4061   | 511 | 2,075,171  |
| W4PK   | 1230 | 3929   | 528 | 2,074,512  |
| DJ6QT  | 1084 | 4105   | 502 | 2,060,710  |
| 4Z5ML  | 998  | 4267   | 449 | 1,915,883  |
| HG4I   | 1074 | 3717   | 508 | 1,888,236  |
| SO6C   | 1006 | 3731   | 506 | 1,887,886  |
| 329U   | 1124 | 3772   | 490 | 1,848,280  |
| LU4DX  | 1105 | 3877   | 464 | 1,798,928  |
| OK2SFP | 1103 | 4075   | 439 | 1,788,925  |
| JM1XCV | 998  | 4000   | 444 | 1,776,000  |
| H1C0B  | 1129 | 3687   | 478 | 1,762,386  |
| DL4R   | 1098 | 3621   | 486 | 1,759,806  |
| K3MO   | 1166 | 3454   | 509 | 1,758,086  |
| RW4PL  | 1141 | 3369   | 504 | 1,697,976  |
| OH2BP  | 1143 | 3649   | 465 | 1,696,785  |
| RN3CZ  | 1119 | 3509   | 476 | 1,670,284  |
| YT2U   | 1063 | 3490   | 474 | 1,654,260  |
| XE2WWW | 1321 | 4021   | 410 | 1,648,610  |
| K0TG   | 1275 | 3336   | 485 | 1,617,960  |
| OG6R   | 1033 | 3402   | 458 | 1,558,120  |
| E5ADKU | 1019 | 3427   | 454 | 1,555,858  |
| Y06A   | 989  | 3431   | 453 | 1,554,243  |
| WA2ETU | 1139 | 3067   | 493 | 1,512,031  |
| YV2LJ  | 992  | 3237   | 444 | 1,437,228  |
| WX4TM  | 1283 | 3135   | 455 | 1,426,425  |
| IK2SND | 940  | 3133   | 446 | 1,397,318  |
| DUF5Z  | 886  | 3323   | 417 | 1,385,691  |
| NO1W   | 1054 | 2784   | 409 | 1,366,944  |
| EF3A   | 972  | 3036   | 447 | 1,357,092  |
| W3FV   | 972  | 2981   | 441 | 1,314,621  |
| OH2LW  | 944  | 3027   | 428 | 1,295,556  |
| OH2HAN | 866  | 2949   | 434 | 1,279,866  |
| KA2D   | 945  | 2699   | 474 | 1,279,326  |
| EE3R   | 861  | 2877   | 429 | 1,234,233  |
| RA3ON  | 937  | 2858   | 421 | 1,203,218  |
| DH0GHU | 844  | 2829   | 409 | 1,157,061  |
| VE2FK  | 887  | 2890   | 395 | 1,141,550  |
| KR4F   | 978  | 2582   | 439 | 1,133,498  |
| RW6CR  | 904  | 2778   | 404 | 1,122,312  |
| KH6FI  | 933  | 3553   | 315 | 1,119,195  |
| RL3WX  | 808  | 2847   | 391 | 1,113,177  |
| HF4K   | 789  | 2511   | 432 | 1,084,752  |
| DK6CQ  | 811  | 2589   | 416 | 1,077,024  |
| UA30GT | 826  | 2587   | 403 | 1,042,561  |
| OV1A   | 768  | 2689   | 386 | 1,037,954  |
| RV3WT  | 763  | 2727   | 380 | 1,036,260  |
| EA1CJ  | 755  | 2656   | 388 | 1,030,528  |
| DF4WC  | 752  | 2722   | 378 | 1,028,916  |
| N6AR   | 764  | 2495   | 410 | 1,022,950  |
| RZ3EC  | 764  | 2398   | 403 | 996,394    |
| N4ZZ   | 943  | 2508   | 380 | 953,040    |
| F5CQ   | 652  | 2434   | 371 | 903,014    |
| JR3NZC | 706  | 2437   | 365 | 889,505    |
| A16YL  | 909  | 2717   | 327 | 888,459    |
| OH2MZB | 738  | 2360   | 366 | 863,760    |
| RV6FG  | 802  | 2248   | 383 | 860,984    |
| K14MF  | 726  | 2102   | 398 | 836,596    |
| G6BOX  | 682  | 2292   | 363 | 831,996    |
| K3WI   | 748  | 2122   | 392 | 831,824    |
| W1BYH  | 794  | 2147   | 375 | 805,125    |
| N8TDL  | 826  | 2002   | 400 | 800,800    |
| RX9SA  | 589  | 2477   | 320 | 792,640    |
| S540   | 659  | 2138   | 368 | 786,784    |
| RM9RZ  | 630  | 2444   | 321 | 784,524    |
| N6CK   | 980  | 2222   | 352 | 782,144    |
| ZM2B   | 600  | 2374   | 329 | 781,046    |
| VK4AN  | 703  | 2299   | 338 | 777,062    |
| LY3UV  | 685  | 2173   | 350 | 760,550    |
| OK2PF  | 622  | 2346   | 315 | 738,990    |
| LV5V   | 684  | 2158   | 342 | 738,036    |
| HB9AAA | 545  | 2162   | 337 | 728,594    |
| RV3WD  | 647  | 2105   | 343 | 722,015    |
| LR4E   | 691  | 2028   | 355 | 719,940    |
| YL2NN  | 630  | 2108   | 340 | 716,720    |
| NT2A   | 644  | 1934   | 369 | 713,646    |
| DL5MEV | 611  | 2094   | 338 | 707,772    |
| NC7J   | 977  | 2133   | 328 | 699,624    |
| US6IOT | 541  | 2198   | 311 | 683,578    |
| OK1KT  | 557  | 1929   | 351 | 677,079    |
| RA6XV  | 691  | 1997   | 334 | 666,998    |
| K0FX   | 772  | 1892   | 351 | 664,092    |
| UA9BS  | 585  | 2153   | 308 | 663,124    |
| UA0YAY | 697  | 2172   | 304 | 660,288    |

|        |      |          |     |           |
|--------|------|----------|-----|-----------|
| AA3B   | 595  | 1862     | 348 | 647,976   |
| YU1BN  | 714  | 1686     | 384 | 647,424   |
| KR7X   | 949  | 1931     | 335 | 646,885   |
| OK1HMP | 556  | 1996     | 317 | 632,732   |
| PG3N   | 578  | 1883     | 332 | 625,156   |
| N6QO   | 768  | 1870     | 330 | 617,100   |
| RU0LL  | 541  | 2077     | 275 | 615,125   |
| WA5ZUP | 1049 | 2073     | 292 | 605,316   |
| JH4UTP | 541  | 2004     | 300 | 601,200   |
| SP3EPX | 530  | 1857     | 322 | 597,954   |
| GW7X   | 675  | 1607     | 371 | 596,197   |
| V01TA  | 577  | 1797     | 328 | 589,416   |
| DL8SCG | 575  | 1871     | 314 | 587,494   |
| KH6GMP | 709  | 2192     | 266 | 583,072   |
| DL3TD  | 1749 | 6487     | 672 | 4,359,264 |
| UW2M   | 1825 | 6661     | 637 | 4,243,057 |
| RG9A   | 1771 | 7118     | 591 | 4,206,738 |
| VE3AP  | 1579 | 5834     | 588 | 4,301,392 |
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| I2LBG  | 1313 | 4321     | 564 | 2,437,044 |
| UZ1G   | 1432 | 4550     | 528 | 2,402,400 |
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| SP4TXI | 1224 | 4318     | 550 | 2,374,900 |
| RD4WA  | 1496 | 4324     | 549 | 2,373,876 |
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| UA9OG  | 1351 | 4680     | 490 | 2,293,200 |
| W3MF   | 1344 | 4004     | 559 | 2,238,236 |
| YL6W   | 1208 | 4310     | 514 | 2,215,340 |
| RG3K   | 1375 | 4112     | 538 | 2,212,256 |
| SP9LJD | 1190 | 4349     | 491 | 2,135,359 |
| W4ZE   | 1456 | 3657     | 580 | 2,121,060 |
| UA4HOX | 1358 | 4061     | 511 | 2,075,171 |
| W4PK   | 1230 | 3929     | 528 | 2,074,512 |
| DJ6QT  | 1084 | 4105     | 502 | 2,060,710 |
| 4Z5ML  | 998  | 4267     | 449 | 1,915,883 |
| HG4I   | 1074 | 3717     | 508 | 1,888,236 |
| SO6C   | 1006 | 3731     | 506 | 1,887,886 |
| 329U   | 1124 | 3772     | 490 | 1,848,280 |
| LU4DX  | 1105 | 3877     | 464 | 1,798,928 |
| OK2SFP | 1103 | 4075     | 439 | 1,788,925 |
| JM1XCV | 998  | 4000     | 444 | 1,776,000 |
| H1C0B  | 1129 | 3687     | 478 | 1,762,386 |
| DJ6QT  | 1098 | 3621     | 486 | 1,759,806 |
| K3MO   | 1166 | 3454     | 509 | 1,758,086 |
| RW4PL  | 1141 | 3369     | 504 | 1,697,976 |
| OH2BP  | 1143 | 3649     | 465 | 1,696,785 |
| RN3CZ  | 1119 | 3509     | 476 | 1,670,284 |
| YT2U   | 1063 | 3490     | 474 | 1,654,260 |
| XE2WWW | 1321 | 4021     | 410 | 1,648,610 |
| K0TG   | 1275 | 3336     | 485 | 1,617,960 |
| OG6R   | 1033 | 3402     | 458 | 1,558,120 |
| E5ADKU | 1019 | 3427     | 454 | 1,555,858 |
| Y06A   | 989  | 3431     | 453 | 1,554,243 |
| WA2ETU | 1139 | 3067     | 493 | 1,512,031 |
| YV2LJ  | 992  | 3237     | 444 | 1,437,228 |
| WX4TM  | 1283 | 3135     | 455 | 1,426,425 |
| IK2SND | 940  | 3133     | 446 | 1,397,318 |
| DUF5Z  | 886  | 3323     | 417 | 1,385,691 |
| NO1W   | 1054 | 2784     | 409 | 1,366,944 |
| EF3A   | 972  | 3036     | 447 | 1,357,092 |
| W3FV   | 972  | 2981     | 441 | 1,314,621 |
| OH2LW  | 944  | 3027     | 428 | 1,295,556 |
| OH2HAN | 866  | 2949     | 434 | 1,279,866 |
| KA2D   | 945  | 2699     | 474 | 1,279,326 |
| EE3R   | 861  | 2877     | 427 | 1,234,233 |
| RA3ON  | 937  | 2858     | 421 | 1,203,218 |
| DH0GHU | 844  | 2829     | 409 | 1,157,061 |
| VE2FK  | 887  | 2890     | 395 | 1,141,550 |
| KR4F   | 978  | 2582     | 439 | 1,133,498 |
| RW6CR  | 904  | 2778     | 404 | 1,122,312 |
| KH6FI  | 933  | 3553     | 315 | 1,119,195 |
| RL3WX  | 808  | 2847     | 391 | 1,113,177 |
| HF4K   | 789  | 2511     | 432 | 1,084,752 |
| DK6CQ  | 811  | 2589     | 416 | 1,077,024 |
| UA30GT | 826  | 2587     | 403 | 1,042,561 |
| OV1A   | 768  | 2689     | 386 | 1,037,954 |
| RV3WT  | 763  | 2727     | 380 | 1,036,260 |
| EA1CJ  | 755  | 2656     | 388 | 1,030,528 |
| DF4WC  | 752  | 2722     | 378 | 1,028,916 |
| N6AR   | 764  | 2495     | 410 | 1,022,950 |
| RZ3EC  | 764  | 2398</td |     |           |

|        |     |     |     |        |           |     |      |     |           |         |     |      |     |         |          |     |      |     |         |
|--------|-----|-----|-----|--------|-----------|-----|------|-----|-----------|---------|-----|------|-----|---------|----------|-----|------|-----|---------|
| K9BJM  | 226 | 478 | 134 | 64,052 | IZ7CRW    | 829 | 2494 | 440 | 1,097,360 | DF8XC   | 409 | 1279 | 275 | 351,725 | AB8XG    | 378 | 987  | 192 | 189,504 |
| W6SX   | 222 | 503 | 127 | 63,881 | DD5M      | 815 | 2741 | 393 | 1,077,213 | JAS5UD  | 410 | 1515 | 232 | 351,480 | SP9OHP   | 266 | 1023 | 185 | 189,255 |
| K5HDU  | 198 | 460 | 130 | 59,800 | E21YDP    | 791 | 2828 | 373 | 1,054,844 | YL2PJ   | 397 | 1457 | 241 | 351,137 | OED3MA   | 285 | 957  | 197 | 188,529 |
| K2TV   | 158 | 418 | 140 | 58,520 | ON4QX     | 790 | 2473 | 423 | 1,046,079 | AC9X    | 539 | 1304 | 268 | 349,472 | JAEBU    | 348 | 1038 | 181 | 187,878 |
| W4GHD  | 197 | 452 | 120 | 54,240 | AA4U      | 920 | 2446 | 419 | 1,024,874 | VO1KVT  | 443 | 1359 | 256 | 347,904 | VE9IO    | 300 | 957  | 196 | 187,572 |
| VA7DM  | 190 | 505 | 107 | 54,035 | T91S      | 803 | 2573 | 384 | 988,032   | SM7BWW  | 418 | 1318 | 261 | 343,993 | N3XL     | 343 | 859  | 217 | 186,403 |
| DP4N   | 136 | 461 | 116 | 53,476 | I21AVA    | 760 | 2563 | 379 | 971,377   | RW6HJV6 | 456 | 1228 | 258 | 342,624 | W7NNN    | 477 | 917  | 203 | 186,151 |
| N6IE   | 176 | 436 | 121 | 52,756 | Y6EAXX    | 721 | 2667 | 351 | 926,117   | SP3DSC  | 407 | 1243 | 252 | 338,436 | SP1DMD   | 327 | 1000 | 185 | 185,500 |
| DB3L0  | 144 | 466 | 112 | 52,192 | OE2GEN    | 775 | 2354 | 395 | 929,830   | SI0F    | 405 | 1405 | 237 | 332,085 | RN4CA    | 299 | 996  | 185 | 184,260 |
| K9AD   | 219 | 414 | 126 | 52,164 | SP9H      | 684 | 2616 | 355 | 928,650   | YO5OHY  | 391 | 1458 | 228 | 332,424 | F1IWH    | 278 | 958  | 192 | 183,936 |
| OH4MCV | 137 | 434 | 116 | 50,344 | YL2JZ     | 744 | 2603 | 349 | 908,447   | W3KB    | 488 | 1293 | 257 | 332,301 | WB2QOO   | 312 | 921  | 197 | 181,437 |
| AE4EC  | 167 | 430 | 117 | 50,310 | OH7TN     | 776 | 2597 | 349 | 906,353   | WN6K    | 637 | 1258 | 261 | 328,338 | SP2IW    | 287 | 833  | 217 | 180,761 |
| N0RN   | 163 | 433 | 115 | 49,795 | RD3PM     | 813 | 2143 | 421 | 902,203   | K4HAL   | 565 | 1231 | 266 | 327,446 | BD1BVY   | 299 | 1167 | 154 | 179,718 |
| N0AT   | 197 | 352 | 139 | 48,928 | OK1TPS    | 697 | 2584 | 348 | 899,232   | EB2CYQ  | 392 | 1239 | 263 | 325,857 | RA9CQO   | 269 | 1074 | 167 | 179,358 |
| J2A2XB | 134 | 499 | 98  | 48,902 | WA1EHK    | 749 | 2137 | 411 | 878,307   | S53F    | 396 | 1399 | 232 | 324,568 | 7N2UQC   | 372 | 952  | 188 | 178,976 |
| SV1DP1 | 147 | 393 | 123 | 48,339 | UT8EL     | 759 | 2394 | 364 | 871,416   | UA3YAA  | 401 | 1366 | 236 | 322,376 | WF6FF    | 454 | 806  | 222 | 178,932 |
| RW0AQ  | 199 | 456 | 106 | 48,336 | UA9AFS    | 688 | 2505 | 347 | 869,235   | DF7ZQ   | 405 | 1274 | 252 | 321,048 | OH2LZI   | 289 | 933  | 187 | 174,471 |
| J2A2KS | 149 | 456 | 103 | 46,968 | UR7EQ     | 710 | 2390 | 362 | 865,180   | SP3BPK  | 429 | 1337 | 240 | 320,880 | OK1ZP    | 273 | 891  | 195 | 173,745 |
| N5DD   | 136 | 441 | 102 | 44,982 | EETE      | 801 | 2219 | 388 | 860,972   | Y08RFS  | 362 | 1385 | 229 | 317,165 | EA2RU    | 279 | 938  | 185 | 173,530 |
| N3NZ   | 172 | 353 | 125 | 44,125 | OM5TX     | 713 | 2395 | 357 | 855,015   | RZ1OM   | 467 | 1011 | 313 | 316,443 | MM0CBL   | 289 | 866  | 199 | 172,334 |
| NA8W   | 174 | 380 | 116 | 44,080 | X3RBA     | 908 | 2592 | 327 | 847,584   | AE1P    | 504 | 1185 | 266 | 315,210 | DL6TS    | 260 | 871  | 195 | 169,845 |
| N2BJU  | 157 | 375 | 117 | 43,875 | E45XC     | 710 | 2421 | 344 | 832,824   | RZ3PS   | 390 | 1235 | 255 | 314,925 | OM4TC    | 275 | 944  | 179 | 168,976 |
| EA1ASC | 125 | 412 | 105 | 43,260 | DJ8EW     | 681 | 2258 | 359 | 810,622   | RD3DT   | 385 | 1351 | 233 | 314,783 | RK9UC    | 283 | 870  | 194 | 168,780 |
| N0LLH  | 171 | 384 | 112 | 43,008 | WB4YDL    | 886 | 2193 | 368 | 807,024   | RU6YJ   | 380 | 1276 | 246 | 313,896 | HTAK2P   | 355 | 957  | 176 | 168,432 |
| WB6JJ  | 161 | 393 | 106 | 41,658 | VE2AXO    | 689 | 2183 | 369 | 805,527   | Y06FCB  | 351 | 1317 | 237 | 312,129 | JA1BNW   | 315 | 944  | 175 | 165,200 |
| N6MA   | 116 | 413 | 99  | 40,887 | DL1ZBQ    | 676 | 2294 | 345 | 791,430   | DC8QT   | 421 | 1303 | 238 | 310,114 | KA2CYN   | 383 | 820  | 201 | 164,820 |
| SP9R0H | 123 | 423 | 94  | 39,762 | VE3GSI    | 685 | 2138 | 365 | 780,370   | RA0ACM  | 444 | 1306 | 237 | 309,522 | Y02RLC   | 286 | 899  | 183 | 164,517 |
| J2BHU  | 155 | 386 | 103 | 39,758 | S58P      | 607 | 2305 | 335 | 772,175   | UR1MN   | 404 | 1349 | 229 | 308,921 | UX3IJW   | 261 | 872  | 188 | 163,936 |
| RK3WB  | 142 | 303 | 122 | 36,966 | HA2ESM    | 629 | 2247 | 337 | 757,239   | RU3WR   | 384 | 1345 | 229 | 308,005 | HL5BMX   | 328 | 1004 | 161 | 161,644 |
| NG2P   | 124 | 328 | 105 | 34,440 | N4IG      | 815 | 1963 | 385 | 755,755   | DL2RUG  | 357 | 1316 | 232 | 305,312 | UA0LKD   | 328 | 944  | 171 | 161,424 |
| SP2FTL | 140 | 318 | 107 | 34,026 | UT9IM     | 684 | 2216 | 339 | 751,224   | G4DWB   | 393 | 1266 | 241 | 305,106 | R49HM    | 295 | 938  | 172 | 161,326 |
| PA3EBP | 115 | 332 | 101 | 33,532 | Y03APJ    | 650 | 2065 | 361 | 745,465   | JP1ODH  | 425 | 1313 | 232 | 304,616 | VAT7AM   | 373 | 906  | 178 | 161,269 |
| K3PH   | 117 | 365 | 89  | 32,485 | E41TD     | 637 | 2129 | 346 | 736,634   | JH7XQJ  | 399 | 1364 | 222 | 302,808 | DL5JBW   | 264 | 882  | 182 | 160,524 |
| UV5ZZ  | 101 | 368 | 83  | 30,544 | N9CK      | 828 | 1917 | 373 | 715,041   | D09ST   | 360 | 1243 | 241 | 299,563 | DL3DRN   | 259 | 891  | 180 | 160,380 |
| RZ9IR  | 123 | 337 | 87  | 29,319 | DH6BH     | 643 | 2090 | 342 | 714,780   | MW0CRI  | 400 | 1151 | 259 | 298,109 | 6K5AYC   | 291 | 966  | 165 | 159,390 |
| PY2JO  | 116 | 311 | 94  | 29,234 | KE4KWE    | 971 | 2110 | 337 | 711,070   | SO9CND  | 371 | 1292 | 230 | 297,160 | AA2NA    | 352 | 808  | 196 | 158,368 |
| PA1WLB | 121 | 275 | 101 | 27,775 | WB2RHM    | 789 | 2007 | 350 | 702,450   | SM6BSK  | 297 | 1000 | 297 | 297,000 | SP6JOD   | 227 | 951  | 166 | 157,866 |
| UA0ACG | 99  | 354 | 75  | 26,550 | DL5KUD    | 581 | 2090 | 334 | 698,060   | SP6EYI  | 383 | 1226 | 242 | 296,692 | SP3NYR   | 244 | 861  | 181 | 155,841 |
| K06LU  | 154 | 247 | 107 | 26,429 | DM2RG     | 619 | 2072 | 326 | 675,472   | RZ3DC   | 386 | 1172 | 252 | 295,344 | EW7LE    | 241 | 808  | 192 | 155,136 |
| W4BCG  | 128 | 274 | 96  | 26,304 | EA8KK     | 471 | 2377 | 282 | 670,314   | N2KI    | 484 | 1140 | 257 | 292,980 | W0VX     | 330 | 790  | 196 | 154,840 |
| K6OI   | 110 | 305 | 86  | 26,230 | RA3BB     | 683 | 1853 | 359 | 665,227   | YR9JD   | 382 | 1341 | 218 | 292,338 | NA4Y     | 298 | 797  | 194 | 154,618 |
| W5JE   | 107 | 298 | 87  | 25,926 | YL3CU     | 599 | 2164 | 306 | 662,184   | IK2YSJ  | 378 | 1282 | 228 | 292,296 | KC0KNW   | 403 | 827  | 186 | 153,822 |
| I2ZEW  | 91  | 323 | 77  | 24,871 | E4ABT     | 617 | 1799 | 367 | 660,233   | VE4EAR  | 457 | 1439 | 203 | 292,117 | HK6P     | 238 | 948  | 162 | 153,576 |
| K3KO   | 93  | 264 | 90  | 23,760 | PA3DBS    | 626 | 1973 | 333 | 657,009   | IK1EK   | 372 | 1200 | 243 | 291,600 | GM4KLN   | 298 | 729  | 209 | 152,361 |
| SP7JIT | 83  | 359 | 64  | 22,976 | D75J      | 665 | 2714 | 242 | 656,788   | RA9SN   | 333 | 1198 | 228 | 273,144 | N9BH7/H  | 413 | 821  | 178 | 146,138 |
| VE3EJ  | 97  | 277 | 79  | 21,883 | 4X2Z      | 522 | 2263 | 289 | 654,007   | UK8AK   | 375 | 1314 | 220 | 289,080 | UT7EJ    | 246 | 899  | 169 | 151,931 |
| G61SE  | 87  | 290 | 74  | 21,460 | RW6HP     | 653 | 1834 | 348 | 638,232   | 9A2BW   | 376 | 1211 | 236 | 285,796 | VE7BSW   | 341 | 892  | 169 | 150,748 |
| VE3RTG | 95  | 246 | 85  | 20,910 | SP3RGB    | 564 | 1921 | 328 | 630,088   | DM5Z    | 383 | 1197 | 237 | 283,689 | KR1ST    | 325 | 823  | 181 | 149,963 |
| W1KQ   | 75  | 276 | 75  | 20,700 | EU2MM     | 531 | 1946 | 315 | 612,990   | JAIKRH  | 416 | 1275 | 220 | 280,500 | JH1GU/04 | 293 | 852  | 174 | 148,248 |
| RN4ABD | 99  | 252 | 81  | 20,412 | AD5XD     | 900 | 1927 | 312 | 601,224   | EA2BNU  | 361 | 1149 | 243 | 279,207 | G3KNU    | 245 | 770  | 191 | 147,070 |
| K7KAR  | 126 | 234 | 87  | 20,358 | N6OJ      | 919 | 1771 | 323 | 572,033   | XE2YBG  | 504 | 1145 | 242 | 277,090 | OM1VA    | 239 | 794  | 185 | 146,990 |
| A19T   | 105 | 256 | 72  | 18,432 | SV8RX     | 531 | 1724 | 325 | 560,300   | UT5UKY  | 347 | 1217 | 226 | 275,042 | U2VNS    | 232 | 833  | 176 | 146,608 |
| K7CV   | 121 | 187 | 94  | 17,578 | VE3JU     | 545 | 1836 | 305 | 556,110   | Y05HJ   | 372 | 1221 | 223 | 272,283 | K7JXN    | 290 | 813  | 179 | 145,527 |
| E4J3W  | 86  | 188 | 64  | 12,032 | RV3LO     | 516 | 1755 | 299 | 524,745   | YL2NK   | 336 | 1144 | 223 | 271,551 | UX0SX    | 236 | 813  | 166 | 134,958 |
| KE1FO  | 77  | 176 | 67  | 11,792 | IV3PQG    | 537 | 1817 | 299 | 523,488   | W4UK    | 541 | 1040 | 245 | 254,800 | N7RN     | 438 | 765  | 175 | 133,875 |
| VE9GLF | 72  | 181 | 61  | 11,041 | RN0SS     | 644 | 1767 | 293 | 517,731   | RU3PU   | 333 | 1188 | 219 | 260,172 | ON4KGL   | 278 | 723  | 189 | 136,647 |
| N8NOE  | 83  | 194 | 77  | 14,938 | OM7AG     | 540 | 1822 | 284 | 517,448   | R26AK   | 384 | 1125 | 231 | 259,875 | U4UFC    | 245 | 833  | 164 | 136,612 |
| IK1WEG | 70  | 163 | 64  | 10,432 | SP9AUUV   | 507 | 1775 | 289 | 512,975   | RV4LC   | 361 | 1090 | 238 | 259,420 | G6OKU    | 254 | 747  | 182 | 135,954 |
| UA0SMF | 64  | 162 | 51  | 8,626  | EBSARP    | 485 | 1754 | 292 | 512,168   | F6CBL   | 343 | 1136 | 228 | 259,008 | N2OPW    | 296 | 752  | 180 | 135,360 |
| G3SJX  | 56  | 167 | 48  | 8,016  | UT2M      | 551 | 1836 | 278 | 510,408   | EB5CNC  | 321 | 1098 | 227 | 257,570 | PT7AZ    | 249 | 823  | 187 | 135,201 |
| UJ2JQ  | 49  | 184 | 42  | 7,728  | Y9WJY</td |     |      |     |           |         |     |      |     |         |          |     |      |     |         |

|          |     |     |     |         |         |     |     |     |        |        |     |     |     |        |          |    |     |    |       |
|----------|-----|-----|-----|---------|---------|-----|-----|-----|--------|--------|-----|-----|-----|--------|----------|----|-----|----|-------|
| RD4HD    | 214 | 626 | 166 | 103,916 | K5OM    | 176 | 433 | 130 | 56,290 | SM3ETC | 114 | 287 | 94  | 26,978 | SM5OSZ   | 56 | 176 | 48 | 8,448 |
| N6PC     | 327 | 647 | 160 | 103,520 | N1NOX   | 205 | 413 | 136 | 56,168 | W5SNM  | 115 | 307 | 87  | 26,709 | DLSAOJ   | 69 | 148 | 57 | 8,436 |
| DK7UM    | 238 | 634 | 163 | 103,342 | SM7CW   | 144 | 452 | 124 | 56,048 | DL1ARD | 116 | 293 | 91  | 26,663 | IK3ASM   | 58 | 156 | 54 | 8,424 |
| BD3APX   | 270 | 700 | 147 | 102,900 | UA3DPM  | 137 | 481 | 116 | 55,796 | K9OH   | 121 | 293 | 91  | 26,663 | N3RVD    | 75 | 153 | 54 | 8,262 |
| HGSACZ/P | 179 | 740 | 138 | 102,120 | JE4AE/J | 159 | 555 | 100 | 55,500 | UY5OZ  | 93  | 325 | 80  | 26,000 | TA1BM    | 59 | 155 | 53 | 8,215 |
| KH6/N0CO | 208 | 829 | 123 | 101,967 | N1MD    | 159 | 433 | 127 | 54,991 | WO4O   | 126 | 260 | 100 | 26,000 | UA3RW    | 69 | 139 | 59 | 8,201 |
| W0PC     | 290 | 667 | 151 | 100,717 | OM7YL   | 145 | 469 | 117 | 54,873 | F5UFX  | 108 | 272 | 94  | 25,569 | KC9TJ    | 69 | 141 | 57 | 8,037 |
| DK1AUP   | 208 | 648 | 155 | 100,440 | SP2PKP  | 144 | 440 | 124 | 54,640 | PY1ZV  | 90  | 335 | 76  | 25,460 | JH8KYU/1 | 65 | 166 | 48 | 7,968 |
| F5VMO    | 219 | 593 | 168 | 99,624  | EA8AG   | 141 | 505 | 108 | 54,540 | JASFNX | 110 | 342 | 73  | 24,966 | NC5P     | 87 | 120 | 64 | 7,680 |
| DH3RB    | 240 | 609 | 163 | 99,267  | UN7JX   | 127 | 561 | 97  | 54,417 | KB1JUF | 135 | 254 | 98  | 24,892 | PY1NB    | 53 | 154 | 48 | 7,392 |
| IK2BUF   | 210 | 634 | 156 | 98,904  | SM3JUR  | 176 | 396 | 136 | 53,856 | PA3EWG | 100 | 279 | 89  | 24,631 | VK4EJ    | 50 | 175 | 41 | 7,175 |
| KB9DVC   | 266 | 642 | 154 | 98,868  | DP5X    | 149 | 480 | 112 | 53,760 | PA3HGF | 99  | 313 | 79  | 24,727 | WA7BME   | 55 | 140 | 49 | 6,860 |
| XE2RC    | 229 | 675 | 146 | 98,550  | KN4JA   | 189 | 437 | 119 | 52,003 | K3MZ   | 92  | 299 | 81  | 24,219 | JA0KJE   | 50 | 154 | 44 | 6,776 |
| KA1HC    | 239 | 646 | 152 | 98,192  | RA3FF   | 147 | 422 | 123 | 51,906 | YU1RP  | 99  | 299 | 81  | 24,219 | ER3ZZ    | 47 | 152 | 43 | 6,536 |
| K2PAL    | 270 | 681 | 144 | 98,064  | DL1NRC  | 157 | 384 | 135 | 51,840 | N0TR   | 135 | 260 | 93  | 24,180 | W8IDM    | 60 | 137 | 47 | 6,439 |
| DG0KS    | 212 | 592 | 165 | 97,680  | JA1XUY  | 157 | 483 | 107 | 51,681 | K6BIR  | 130 | 279 | 86  | 23,994 | JEBNTJ   | 61 | 141 | 45 | 6,345 |
| DL3ARK   | 217 | 628 | 154 | 96,712  | G0RPM   | 145 | 480 | 107 | 51,360 | 2E0EBV | 96  | 282 | 85  | 23,970 | UU2JUA   | 50 | 162 | 39 | 6,318 |
| RW3WX    | 193 | 677 | 142 | 96,134  | 9M4DX   | 166 | 422 | 121 | 51,062 | D06GZ  | 93  | 277 | 85  | 23,545 | K3TD     | 61 | 122 | 51 | 6,222 |
| DJ6UP    | 206 | 631 | 151 | 95,281  | AB5C    | 210 | 413 | 123 | 50,799 | O21DGQ | 102 | 254 | 92  | 23,368 | UA4ANZ   | 50 | 133 | 45 | 5,985 |
| UR0IO    | 199 | 646 | 147 | 94,962  | JK2KNR  | 152 | 529 | 96  | 50,784 | UX2IO  | 89  | 298 | 78  | 23,244 | JF2IU    | 57 | 129 | 46 | 5,934 |
| N9LF     | 267 | 620 | 153 | 94,860  | RA6FUZ  | 129 | 456 | 111 | 50,616 | I2TEUB | 102 | 297 | 78  | 23,166 | KO1H     | 49 | 129 | 45 | 5,805 |
| WY7YL    | 353 | 642 | 147 | 94,374  | N4VZ    | 146 | 450 | 112 | 50,400 | NF0N   | 129 | 258 | 89  | 22,962 | DL1DOJ   | 41 | 147 | 39 | 5,733 |
| 6W7RV    | 193 | 611 | 154 | 94,094  | N2ZQ    | 211 | 413 | 122 | 50,386 | KG9IL  | 114 | 282 | 81  | 22,842 | EAT7K    | 36 | 163 | 35 | 5,705 |
| JG3FEA   | 199 | 752 | 125 | 94,000  | JA1IZ   | 155 | 449 | 112 | 50,288 | KG6HH  | 142 | 238 | 95  | 22,610 | N8PUG    | 54 | 131 | 41 | 5,371 |
| CT1BYK   | 177 | 616 | 152 | 93,632  | IW8PO   | 131 | 441 | 114 | 50,274 | UA9UNG | 103 | 288 | 78  | 22,464 | AD7BN    | 47 | 145 | 37 | 5,365 |
| UA9APA   | 156 | 751 | 124 | 93,124  | 9A2EU   | 113 | 526 | 95  | 49,970 | K4SV   | 122 | 236 | 95  | 22,420 | I2ZBSA   | 46 | 125 | 42 | 5,250 |
| DK1AX    | 193 | 642 | 145 | 93,090  | DL6JAM  | 130 | 480 | 104 | 49,920 | BG4CZK | 97  | 322 | 69  | 22,218 | K3GM     | 54 | 105 | 50 | 5,250 |
| AB0S     | 293 | 658 | 141 | 92,778  | I2ZLSC  | 140 | 441 | 113 | 49,833 | D01BEN | 92  | 291 | 76  | 22,116 | IK0LN    | 38 | 135 | 38 | 5,130 |
| NG7Z     | 306 | 634 | 146 | 92,564  | VE3FZ   | 144 | 488 | 102 | 49,776 | VE6EPK | 101 | 263 | 84  | 22,092 | VE3XL    | 53 | 125 | 41 | 5,125 |
| DL5MAT   | 197 | 605 | 152 | 91,960  | D02UWE  | 132 | 438 | 113 | 49,494 | XE1CT  | 93  | 292 | 75  | 21,900 | F1T1M    | 48 | 118 | 43 | 5,074 |
| DL3BBY   | 201 | 603 | 151 | 91,053  | K3PP    | 168 | 418 | 118 | 49,234 | NOUX   | 132 | 263 | 83  | 21,829 | I2ZHQH   | 50 | 115 | 43 | 4,945 |
| RV9MVN   | 190 | 664 | 137 | 90,968  | AD4YO   | 166 | 447 | 110 | 49,170 | JL8MBF | 134 | 286 | 75  | 21,450 | WA2EMF   | 41 | 129 | 37 | 4,773 |
| UA3UHZ   | 199 | 626 | 145 | 90,770  | EA4ERZ  | 145 | 387 | 126 | 48,762 | AD5OB  | 115 | 274 | 78  | 21,372 | RK0SV    | 44 | 126 | 37 | 4,662 |
| VU2LBW   | 217 | 607 | 149 | 90,443  | KB2NB   | 148 | 419 | 115 | 48,185 | DL1WE  | 105 | 270 | 79  | 21,330 | LU6QI    | 40 | 145 | 32 | 4,640 |
| DK9ETM   | 205 | 649 | 138 | 89,562  | F5LTU   | 128 | 436 | 110 | 47,960 | DJ3EF  | 88  | 287 | 74  | 21,238 | JF1HXJ   | 51 | 120 | 38 | 4,560 |
| N4GVA    | 246 | 613 | 146 | 89,498  | N2JSO   | 168 | 413 | 115 | 47,495 | YCB8XL | 93  | 263 | 80  | 21,040 | N9TF     | 42 | 113 | 40 | 4,520 |
| K7ON     | 318 | 564 | 158 | 89,112  | VE3RZ   | 151 | 461 | 103 | 47,483 | SP3JIA | 86  | 283 | 74  | 20,942 | PY2BRZ   | 43 | 112 | 40 | 4,480 |
| DL2FK    | 188 | 610 | 146 | 89,060  | EB3CML  | 133 | 445 | 106 | 47,170 | K7JE   | 86  | 282 | 74  | 20,868 | JL7R     | 42 | 127 | 35 | 4,445 |
| DK7MCX   | 207 | 561 | 156 | 87,516  | DL6UYA  | 139 | 416 | 123 | 47,008 | WA0BNX | 132 | 220 | 93  | 20,460 | JAZGHP   | 37 | 137 | 32 | 4,384 |
| W0SM     | 321 | 538 | 162 | 87,156  | N1JH    | 156 | 387 | 121 | 46,827 | UA1WBV | 88  | 275 | 73  | 20,075 | DLSKUR   | 40 | 118 | 37 | 4,366 |
| VA6XDX   | 205 | 588 | 142 | 87,050  | IQ3ME   | 121 | 454 | 98  | 44,492 | XE2RV  | 100 | 243 | 76  | 18,468 | GW3VVC   | 39 | 99  | 38 | 3,762 |
| DS5KJR   | 241 | 764 | 113 | 86,332  | RU3VD   | 118 | 444 | 105 | 44,620 | JA1BFN | 83  | 282 | 68  | 19,176 | EAS1Y    | 36 | 124 | 34 | 4,216 |
| KA5EYH   | 300 | 551 | 156 | 85,956  | OK2FB   | 134 | 420 | 109 | 45,780 | K9HCK  | 102 | 230 | 83  | 19,090 | SP9VRY   | 38 | 123 | 34 | 4,182 |
| IK3CST   | 196 | 591 | 145 | 85,695  | G6CSY   | 122 | 450 | 101 | 45,450 | WA7SHP | 115 | 278 | 68  | 18,904 | KAGDGT   | 47 | 103 | 39 | 4,017 |
| H45OMM   | 180 | 668 | 128 | 85,504  | WA7AYZ  | 207 | 382 | 117 | 44,694 | LZ2UZ  | 85  | 263 | 71  | 18,673 | N9ID     | 49 | 92  | 43 | 3,956 |
| KA9O     | 243 | 582 | 144 | 83,808  | PY4BL   | 139 | 391 | 114 | 44,574 | AB0YM  | 121 | 233 | 80  | 18,640 | N3CZ     | 40 | 119 | 33 | 3,927 |
| IZ6HRT   | 183 | 576 | 145 | 83,520  | KN4Q    | 196 | 384 | 116 | 44,544 | W3DSX  | 100 | 235 | 79  | 18,565 | DL6UAA   | 37 | 111 | 35 | 3,885 |
| WA40SD   | 250 | 588 | 142 | 83,496  | IQ3ME   | 121 | 454 | 98  | 44,492 | XE2RV  | 100 | 243 | 76  | 18,468 | GW3VVC   | 39 | 99  | 38 | 3,762 |
| DK1LRS   | 190 | 543 | 153 | 83,079  | PA3CWO  | 142 | 402 | 110 | 44,220 | JN4UUS | 82  | 287 | 63  | 18,081 | PT9PA    | 40 | 99  | 37 | 3,663 |
| DL6RHB   | 182 | 563 | 147 | 82,761  | XE1ZTW  | 170 | 445 | 99  | 44,055 | W7MTM  | 122 | 231 | 78  | 18,018 | UT0EZ    | 29 | 125 | 28 | 3,500 |
| OH2BTB   | 171 | 568 | 145 | 82,360  | DS5DYM  | 143 | 546 | 80  | 43,680 | DF6WE  | 79  | 251 | 71  | 17,821 | SP3BGD   | 35 | 112 | 31 | 3,472 |
| RX3DFW   | 171 | 608 | 135 | 82,089  | VE3DZ   | 149 | 383 | 114 | 43,662 | W9JAR  | 110 | 210 | 84  | 17,640 | SP1DTG   | 29 | 117 | 28 | 3,276 |
| SP5GMM   | 157 | 611 | 133 | 81,263  | KR7RK   | 167 | 341 | 128 | 43,648 | K4OD   | 103 | 208 | 83  | 17,264 | ON5KDX   | 30 | 105 | 30 | 3,150 |
| VA2HJ    | 206 | 591 | 127 | 80,967  | KM4K    | 128 | 420 | 103 | 43,260 | W6R6O  | 107 | 223 | 77  | 17,171 | HA2OU    | 33 | 112 | 28 | 3,136 |
| ON8NT    | 177 | 566 | 143 | 80,928  | F5KLF   | 114 | 426 | 101 | 43,026 | W85NMZ | 99  | 220 | 78  | 17,160 | RW9WW    | 27 | 120 | 25 | 3,000 |
| N3QLS    | 224 | 550 | 147 | 80,850  | GM0AAY  | 116 | 451 | 95  | 42,845 | KG9JP  | 96  | 204 | 84  | 17,136 | C3JK     | 38 | 96  | 29 | 2,784 |
| J43JM    | 212 | 611 | 131 | 80,041  | AM3A    | 148 | 363 | 118 | 42,834 | N4CBK  | 108 | 231 | 74  | 17,094 | DL2AWB   | 28 | 106 | 25 | 2,650 |
| DF900    | 165 | 597 | 134 | 79,998  | LZ1MC   | 130 | 375 | 112 | 42,000 | UR5ET  | 76  | 251 | 68  | 17,068 | AI4G     | 40 | 95  | 35 | 2,625 |
| WA0LPV   | 293 | 484 | 165 | 79,860  | W4ROT   | 145 | 387 | 108 | 41,796 | M0COP  | 68  | 282 | 80  | 16,920 | N3JNX    | 38 | 71  | 36 | 2,556 |
| EA7AZA   | 182 | 570 | 145 | 79,800  | AE5MM   | 162 | 360 | 110 | 41,796 | KB1CJ  | 101 | 210 | 76  | 16,892 | KU5B     | 38 | 74  | 32 | 2,368 |
| UA6YIU   | 156 | 563 | 127 | 79,744  | ES9UO   | 125 | 385 | 99  | 41,711 | N3ME   | 92  | 177 | 79  | 16,768 | VE3IEH   | 22 | 101 | 18 | 2,181 |
| K4OYLO   | 153 | 574 | 119 | 78,306  | OK2PHI  | 125 | 354 | 100 | 41,570 | JF1HML | 72  | 244 | 57  | 16,680 | DB6R     | 28 | 44  | 24 | 2,106 |
| AC0E     | 174 | 497 | 135 | 67,095  | RX3MM   | 119 | 329 | 102 | 33,558 | AD0K/5 | 98  | 184 | 73  | 13,432 | UR5IKH   | 14 | 43  | 13 | 559   |
| O090     | 185 | 456 | 147 | 67,032  | W5DG    | 147 | 334 | 100 | 33,400 | EA     |     |     |     |        |          |    |     |    |       |

|                            |      |      |     |           |          |     |     |     |        |                            |     |      |     |           |          |           |      |     |       |        |  |  |  |  |
|----------------------------|------|------|-----|-----------|----------|-----|-----|-----|--------|----------------------------|-----|------|-----|-----------|----------|-----------|------|-----|-------|--------|--|--|--|--|
| EE2K                       | 278  | 668  | 211 | 140,948   | G2DWB    | 170 | 373 | 137 | 51,101 | OZ6TL                      | 155 | 638  | 130 | 82,940    | PY2SRB   | SO-15-HI  | 120  | 325 | 105   | 34,125 |  |  |  |  |
| Y02R                       | 217  | 560  | 162 | 90,726    | UA4FTA   | 163 | 378 | 132 | 49,896 | VE7KS                      | 153 | 682  | 118 | 80,476    | M0GBP    | SO-ALL-LO | 113  | 324 | 105   | 34,020 |  |  |  |  |
| CT1AOZ                     | 228  | 541  | 166 | 89,806    | XW1A     | 192 | 426 | 113 | 48,138 | EA7OT                      | 139 | 662  | 119 | 78,778    | D1LHW    | SO-ALL-LO | 103  | 327 | 95    | 31,065 |  |  |  |  |
| DL9NDS                     | 199  | 494  | 161 | 79,534    | VA3PL    | 148 | 413 | 116 | 47,908 | T99D                       | 137 | 678  | 114 | 77,292    | BG4CZX   | SO-ALL-LO | 97   | 322 | 69    | 22,218 |  |  |  |  |
| IW1QN                      | 199  | 505  | 154 | 77,770    | LA1YE    | 160 | 368 | 123 | 45,264 | W0GJ                       | 215 | 560  | 134 | 75,040    | D01BEN   | SO-ALL-LO | 92   | 291 | 76    | 22,116 |  |  |  |  |
| YU2A                       | 195  | 497  | 149 | 74,053    | JK3GWT   | 151 | 397 | 114 | 45,258 | WT00                       | 240 | 548  | 134 | 73,432    | E1HML    | SO-ALL-LO | 72   | 286 | 55    | 15,730 |  |  |  |  |
| BD4SI                      | 198  | 481  | 134 | 64,454    | CT1BNW   | 165 | 350 | 129 | 45,150 | W1IJ                       | 175 | 530  | 119 | 63,070    | EA2CY    | SO-ALL-LO | 74   | 216 | 62    | 13,392 |  |  |  |  |
| RW9RA                      | 169  | 443  | 124 | 54,922    | UX2MF    | 159 | 358 | 126 | 45,108 | TE3M                       | 128 | 584  | 104 | 60,736    | SP6XO    | SO-15-HI  | 75   | 188 | 68    | 12,784 |  |  |  |  |
| HG3IPA                     | 165  | 421  | 128 | 53,888    | UN7PL    | 136 | 375 | 116 | 43,500 | UK7F                       | 104 | 580  | 98  | 56,840    | KC2PCG   | SO-ALL-LO | 95   | 200 | 62    | 12,400 |  |  |  |  |
| HP1AC                      | 170  | 394  | 128 | 50,432    | I4DOO    | 154 | 369 | 116 | 42,804 | WB0R                       | 155 | 450  | 117 | 52,650    | WE6MO    | SO-ALL-LO | 80   | 174 | 65    | 11,310 |  |  |  |  |
| PY2SRB                     | 120  | 325  | 105 | 34,125    | WR1H     | 137 | 337 | 124 | 41,788 | W9SE                       | 167 | 478  | 108 | 51,624    | WB9L     | SO-ALL-LO | 75   | 157 | 57    | 8,949  |  |  |  |  |
| JH7RTQ                     | 101  | 259  | 83  | 21,497    | OE1KTS   | 153 | 344 | 121 | 41,624 | HA0GK                      | 109 | 470  | 96  | 45,120    | KC8ZTJ   | SO-ALL-LO | 69   | 141 | 57    | 8,037  |  |  |  |  |
| UA0WL                      | 86   | 235  | 68  | 15,990    | 005M     | 148 | 364 | 109 | 39,676 | KA4RAB                     | 116 | 374  | 92  | 34,408    | UU2JUA   | SO-ALL-LO | 50   | 162 | 39    | 6,318  |  |  |  |  |
| SP5XO                      | 75   | 188  | 68  | 12,784    | F5TMJ    | 142 | 308 | 128 | 39,424 | DL1DWL                     | 94  | 400  | 86  | 34,400    | I2ZHBQ   | SO-ALL-LO | 50   | 115 | 43    | 4,945  |  |  |  |  |
| EE4MM                      | 73   | 183  | 65  | 11,895    | H7/NP3D  | 173 | 362 | 104 | 37,648 | Y02LBM                     | 97  | 408  | 82  | 33,456    | EA7HY    | SO-ALL-HI | 30   | 89  | 30    | 2,670  |  |  |  |  |
| JH2BTM                     | 62   | 165  | 49  | 8,085     | JL3SBE   | 129 | 343 | 97  | 33,271 | YN2/EWE1AR                 | 83  | 424  | 78  | 33,072    | VE4AHZ   | SO-20-HI  | 27   | 49  | 26    | 1,274  |  |  |  |  |
| OM7PY                      | 49   | 131  | 47  | 6,157     | RV3TA    | 122 | 267 | 111 | 29,637 | Y03III                     | 81  | 362  | 76  | 27,512    | EA2DVT   | SO-20-HI  | 6    | 15  | 6     | 90     |  |  |  |  |
| OK2PMS                     | 44   | 120  | 43  | 5,160     | SP9DNO   | 116 | 281 | 97  | 27,257 | J46WF/HC5                  | 81  | 358  | 67  | 23,986    | I2QGMX   | SO-ALL-LO | 4    | 15  | 4     | 60     |  |  |  |  |
| RW4LQ                      | 43   | 116  | 39  | 4,524     | UR0IM    | 122 | 259 | 91  | 23,569 | SM3LBP                     | 79  | 320  | 71  | 22,720    |          |           |      |     |       |        |  |  |  |  |
| SO9MUV                     | 47   | 119  | 38  | 4,522     | GM0KWW   | 106 | 243 | 96  | 23,328 | EA4EQ                      | 68  | 288  | 59  | 16,992    |          |           |      |     |       |        |  |  |  |  |
| 7N4WPY                     | 52   | 109  | 39  | 4,251     | BD7JLR   | 107 | 242 | 73  | 17,666 | YY6JAG                     | 54  | 302  | 51  | 15,402    |          |           |      |     |       |        |  |  |  |  |
| VE3FJ                      | 44   | 101  | 42  | 4,242     | SP6BEB   | 90  | 190 | 80  | 15,200 | RX0AT                      | 52  | 262  | 51  | 13,362    |          |           |      |     |       |        |  |  |  |  |
| RA4LK                      | 38   | 98   | 37  | 3,626     | JK1LUY   | 82  | 218 | 69  | 15,042 | EA7JB                      | 49  | 206  | 49  | 10,094    |          |           |      |     |       |        |  |  |  |  |
| UR5GPN                     | 36   | 93   | 34  | 3,162     | RX9JM9   | 76  | 219 | 64  | 14,016 | I2GOL                      | 46  | 226  | 43  | 9,718     |          |           |      |     |       |        |  |  |  |  |
| I2ZCDB                     | 32   | 86   | 30  | 2,580     | UX0FY    | 78  | 166 | 64  | 10,624 | FM5FJ                      | 43  | 228  | 42  | 9,576     |          |           |      |     |       |        |  |  |  |  |
| ZS1JY                      | 29   | 85   | 24  | 2,040     | Z3F      | 73  | 152 | 61  | 9,272  | PY2ZY                      | 41  | 230  | 40  | 9,200     |          |           |      |     |       |        |  |  |  |  |
| JR1NKN                     | 20   | 51   | 17  | 867       | KL1SF    | 64  | 159 | 56  | 8,904  | BG1LEN                     | 36  | 172  | 34  | 5,848     |          |           |      |     |       |        |  |  |  |  |
| DJ3WE                      | 16   | 46   | 16  | 736       | RA0CL    | 91  | 174 | 48  | 8,352  | DL7DZ                      | 35  | 146  | 35  | 5,110     |          |           |      |     |       |        |  |  |  |  |
| JA1MVK                     | 10   | 28   | 9   | 252       | DB1BMM   | 65  | 138 | 57  | 7,866  | DJ5IW                      | 28  | 142  | 28  | 3,976     |          |           |      |     |       |        |  |  |  |  |
| OM4AA                      | 5    | 10   | 5   | 50        | DL9XAW   | 56  | 128 | 50  | 6,400  | SP5TZA                     | 24  | 106  | 24  | 2,544     | TM4P     | 1643      | 5822 | 578 | 3,365 | 116    |  |  |  |  |
| <b>Single Operator 20m</b> |      |      |     |           | OK6AB    | 52  | 134 | 45  | 6,030  | PY2OC                      | 18  | 106  | 18  | 1,908     | UO4P     | 1462      | 6012 | 522 | 3,138 | 264    |  |  |  |  |
| 9A2QD                      | 1366 | 3455 | 615 | 2,124,825 | SP9HP    | 49  | 144 | 39  | 5,616  | VK7AAP/3                   | 12  | 70   | 12  | 840       | UR4EWT   | 1567      | 5211 | 578 | 3,011 | 958    |  |  |  |  |
| L29W                       | 1346 | 2293 | 611 | 2,012,023 | FA5FIV   | 51  | 112 | 49  | 5,488  | W1QLH                      | 10  | 48   | 10  | 480       | DL2MWB   | 1441      | 4825 | 602 | 2,904 | 650    |  |  |  |  |
| L28A                       | 1361 | 3192 | 609 | 1,943,928 | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | SI4G     | 1528      | 5143 | 557 | 2,864 | 651    |  |  |  |  |
| I41KW                      | 1244 | 3185 | 585 | 1,863,225 | HP1DCP/9 | 35  | 79  | 35  | 2,765  | <b>Single Operator 80m</b> |     |      |     |           |          |           |      |     |       |        |  |  |  |  |
| VE2RRY                     | 1155 | 2982 | 607 | 1,810,074 | RV9JM9   | 76  | 219 | 64  | 14,016 | S54E                       | 985 | 446  | 496 | 2,225,056 | T93M     | 2520      | 9119 | 788 | 7,185 | 772    |  |  |  |  |
| ZC4LI                      | 1106 | 3194 | 525 | 1,676,850 | SP9HP    | 49  | 144 | 39  | 5,616  | OK3R                       | 982 | 4328 | 497 | 2,151,016 | UF3CWR   | 2631      | 8686 | 763 | 6,627 | 418    |  |  |  |  |
| C1TBD                      | 1076 | 3217 | 514 | 1,653,530 | FA5FIV   | 51  | 112 | 49  | 5,488  | W1QLH                      | 10  | 48   | 10  | 480       | OM8A     | 2212      | 8466 | 764 | 6,468 | 024    |  |  |  |  |
| TM20FL                     | 1103 | 2696 | 512 | 1,461,232 | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | K1LZ     | 2247      | 7635 | 731 | 5,581 | 185    |  |  |  |  |
| KK5QO                      | 1166 | 2391 | 557 | 1,331,787 | SP9HP    | 49  | 144 | 39  | 5,616  | W1QLH                      | 10  | 48   | 10  | 480       | HG80HQ   | 2076      | 8050 | 691 | 5,562 | 550    |  |  |  |  |
| UV8VM                      | 1065 | 2482 | 526 | 1,305,532 | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | OA4O     | 2075      | 8572 | 639 | 5,477 | 508    |  |  |  |  |
| OH7MUJ                     | 1091 | 2516 | 516 | 1,298,256 | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | RK9CW    | 2031      | 8309 | 579 | 4,810 | 911    |  |  |  |  |
| RK3DZB                     | 1041 | 2438 | 504 | 1,228,752 | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | OE9R     | 1864      | 7012 | 669 | 4,691 | 028    |  |  |  |  |
| OK4RO                      | 960  | 2407 | 504 | 1,213,128 | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | TM4P     | 1643      | 5822 | 578 | 3,365 | 116    |  |  |  |  |
| EA7ZY                      | 967  | 2242 | 480 | 1,076,166 | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | UO4P     | 1462      | 6012 | 522 | 3,138 | 264    |  |  |  |  |
| EG5G                       | 1016 | 2245 | 465 | 1,043,928 | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | UR4EWT   | 1567      | 5211 | 578 | 3,011 | 958    |  |  |  |  |
| RV3FF                      | 920  | 2117 | 477 | 1,009,809 | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | DL2MWB   | 1441      | 4825 | 602 | 2,904 | 650    |  |  |  |  |
| UA0AGI                     | 857  | 2283 | 439 | 1,001,237 | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | SI4G     | 1528      | 5143 | 557 | 2,864 | 651    |  |  |  |  |
| RK9JWR                     | 801  | 2163 | 419 | 906,297   | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | OM3RJ    | 1472      | 5093 | 552 | 2,811 | 336    |  |  |  |  |
| WG8Y                       | 858  | 1902 | 466 | 886,332   | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | PY5/K5MM | 1446      | 5060 | 554 | 2,803 | 240    |  |  |  |  |
| GM4FDM                     | 831  | 1963 | 451 | 885,313   | 9A5YY    | 6   | 14  | 6   | 84     | EA7FIQ                     | 1   | 3    | 1   | 3         | RK30WA   | 1508      | 4571 | 581 | 2,655 | 751    |  |  |  |  |
| LT0H                       | 744  | 2199 | 397 | 873,003   | F10K     | 1   | 2   | 1   | 2      | EA7FIQ                     | 1   | 3    | 1   | 3         | I01KSL   | 1372      | 4462 | 580 | 2,587 | 960    |  |  |  |  |
| SX1L                       | 896  | 1950 | 441 | 859,950   | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | S56A     | 1200      | 4224 | 528 | 2,230 | 272    |  |  |  |  |
| Y1V1DX                     | 796  | 2369 | 362 | 857,588   | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | W0LSD    | 1593      | 4166 | 522 | 2,174 | 652    |  |  |  |  |
| HA7TM                      | 820  | 2106 | 401 | 844,506   | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | RK3MWI   | 1375      | 4471 | 470 | 2,101 | 370    |  |  |  |  |
| OH9MSW                     | 850  | 1946 | 429 | 834,834   | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | AJ9C     | 1410      | 3471 | 513 | 1,780 | 623    |  |  |  |  |
| EU1AZ                      | 783  | 1863 | 420 | 82,460    | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | OM3KZW   | 1055      | 3951 | 442 | 1,746 | 342    |  |  |  |  |
| US0YWN                     | 746  | 1768 | 406 | 717,808   | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | RZ4HZW   | 1165      | 3529 | 469 | 1,655 | 101    |  |  |  |  |
| RV0AL                      | 682  | 1812 | 370 | 670,440   | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | VE3T/W   | 1175      | 3342 | 490 | 1,637 | 580    |  |  |  |  |
| PY2VN                      | 632  | 1866 | 326 | 636,188   | FA5FIV   | 51  | 112 | 49  | 5,488  | EA7FIQ                     | 1   | 3    | 1   | 3         | W1TBM    | 881       | 3091 | 376 | 1,162 | 216    |  |  |  |  |
| UR5FV                      | 738  | 1692 | 362 | 646,344   | WB2WPM   | 45  | 89  | 43  | 3,827  | EA7FIQ                     | 1   | 3    | 1   | 3         | AT7NM    | 698       | 2382 | 350 | 833   | 700    |  |  |  |  |
| JH7XGN                     | 624  | 1678 | 372 | 624,216   | SP9HP    | 49  | 144 | 39  | 5,616  | EA7FIQ                     | 1   | 3    | 1   | 3         | SP9ZHR   | 672       | 2238 | 359 | 803   | 442    |  |  |  |  |
| KZ7X                       | 906  | 1438 | 398 | 572,324   | FA5FIV   | 51  | 112 | 49  | 5,488  |                            |     |      |     |           |          |           |      |     |       |        |  |  |  |  |