The 1997 ARRL 160-Meter Contest Results

nterest in the Top Band Contest continues to hold strong. There are a number of factors contributing to the success of the contest. One is the mere nature of the band. Operators seem to be more laid back and polite on 160. (This by no means diminishes the competition or the fierce battles for the top spots.) Contacts are plentiful and multipliers are easier to accumulate than one may think. There is a feeling of accomplishment when working stations that are 500 miles or more away, not to mention the thrill of completing a DX QSO with another continent. Working DX is always fun, and on 160 meters, it's twice as enjoyable.

Another contributing factor to the success of this year's contest was the better-than-normal band conditions with low atmospheric noise during most of the contest. Good band conditions are essential for high scores. We received good reports from all corners of the world. Aki, JE1SPY, relates, "Band conditions were very good. Japanese stations can work Europe and North America at the same time." (Although only the W/VE contacts count for DX stations during the contest.) Murphy cooperated quite well in the weather department. We didn't have all the snow, ice and wind we suffered during last year's contest. We did have a few reports of a storm or two, but nothing like last year.

Even though entries in this year's contest were down a little from last year's record number of entries (777), they were slightly higher than the number of entries in 1995. For 1997, we received 735 entries. There is no doubt that there were some of the 160-meter regulars out there giving the contesters a helping hand. The top scoring stations were completing between 1300 and 1400 QSOs!

Veteran 160 contester Jeff, K1ZM, operating from Cape Cod, Massachusetts, and taking advantage of the 5 pointers into Europe, outscored all others in the single-operator high-power category. Jon, N5JA, gave it his best ending up 57,000 points shy for a second place finish. Jon outgunned Jeff with QSO totals (N5JA completed 1361 QSOs, K1ZM completed 1322). It was the multipliers that did N5JA in. Jeff had 119 multipliers, Jon had 107. Is this another story of the "East Coast advantage"? You be the judge.

Again this year, the top spots in the low power category were very close with less than 3000 separating them. Eastern New Yorker, Bob, W2XL, topped the list of the low power single operators. Gordon, WA1LNP, finished in second place. The QRP category is becoming quite popular. Out of the 72 entries that tried QRP, Charlie, NØTT, finished in first

place with 95,000 points. Richard, WK3I, was second with 81,000. In the multioperator category, the crew at W4WA edged out WB9Z by 14,000 for the win. Check the boxes for other winners.

Club Competition for the gavels is still in its infancy. From the beginning, there hasn't been much change in the standings. It almost looks like a snapshot of last year's results. The Frankford Radio Club took the Unlimited category with 52 entries. The Potomac Valley Radio Club mustered a few more club



Jeff, K1ZM, was delighted to see so much participation from outside W/VE. Jeff finished in first place, single operator, high power.

members this year for their Medium Club gavel with the highest club score in any category. In the Local Club category, the Hudson Valley Contesters and DXers easily win again this year.

For those who haven't tried the ARRL 160-Meter Contest, you are missing out on the fun. Mark your calendar for this year's competition, December 4-6, 1998.

| Top Ten | ı | | |
|------------------|--------------------|--------------------------|--------------------|
| Single Ope | rator, | Single Ope High Power | |
| NØTT WK3I | 95,025 81,690 | K1ZM N5JA | 383,180 325,922 |
| N9JF W8VK | 70,856 67,518 | VE3EJ N1BB | 291,593 283,291 |
| K3CR (KB3AFT, | 57,600 | KQ2M N4AR | 264,276 249,400 |
| KØRI VE3DO | 56,070 53,106 | K8CC (W8MJ,op) | 245,427 |
| K9OM | 44,073 | K3RR K9DX | 234,816 |
| K8LUQ N9NE | 42,036 41,202 | K5NA | 233,151 212,236 |
| Single Ope | | Multioperat | |
| Low Power | | W4WA | 325,066 |
| W2XL | 170,016 | WB9Z | 311,472 |
| WA1LNP K1PX | 167,854 | WW2Y K8MK | 310,640 |
| W3EEE | 140,800 139,040 | K8KS | 300,195 267,549 |
| K7CA | 138,013 | K8ND | 238,452 |
| N4CM | 133.760 | W9RE | 237.632 |
| K1HTV | 129,750 | W4MYA | 217,798 |
| WØUO | 124,821 | NØNI | 216,152 |
| WO40 | 123,424 | K3WW | 212,042 |
| WJØM | 115,192 | | |

Murphy, Leave me Alone!

By Rich Carstensen, W8VK

Murphy wants to be my "pal" during almost every ARRL 160-Meter Contest. In 1995, a coax feed-through went bad and, as a consequence, my TS-520S transceiver was damaged. I switched to my TS-520SE, but after 30 minutes it succumbed to Murphy, too. My dreams of first-place in the QRP class went down the drain.

In 1996, Murphy struck again. This time it was the weather. Ohio was hit with a bad ice storm. My antenna tower and the inverted **V**s were covered with ice. Heavy winds came, and down went the wire antennas.

In June of 1997, I rebuilt the tower and strung some new wire antennas in the hope of catching the QRP first-place spot. Before I knew it, December 5—contest day—had arrived. As I sat waiting for the last 30 minutes to tick by, some thoughts came to mind. It had been two years since I'd contested as a single operator for more than 12 hours. My code speed was the worst it had ever been in two years. I hadn't used two computer keyboards together for some time. (That was part of my shack PC upgrade.) With so many good contest operators out there, I knew that clinching the top QRP spot was probably unreasonable. I set my sights somewhat lower—my goals for this year would be to nail down the championship for the Great Lakes, the Central Region, and to catch that 50th state for WAS on the Top Band.

I pounded through the first night with fierce determination. By 8 AM the sun was rising and activity was starting to die off—for now. I quickly summed up the operating period. I had maintained a pretty good QSO rate, and was down a few sections from my score in 1994.

I arrived back at the contest site around 2:30 that afternoon. Murphy had been visiting while I was away! A combination of wind and ice had tangled the antenna wires. What a mess! It took me two hours to restore everything to normal.

The second night of operating went very well. I finished my Worked All States on 160 when I bagged AH6M in Hawaii. My final score calculation beat my own records from 1994. I can't wait to see this year's results in the April *QST*.

Call sign, score, entry category (A = QRP, B = Low Power, C = High Power, D = Multioperator)

| Northeast Region | Southeast Region | Central Region | Midwest Region | West Coast Region |
|---|--|---|--|---|
| New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections | Delta, Roanoke and Southeastern Divisions | Central and Great Lakes Divisions; Ontario Section | Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections | Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections |
| WK3I 81,690 A K3CR (KB3AFT,op) 57,600 A W3TS 39,008 A N1TM 19,240 A N2VPK 9,724 A | KV8S 34,398 A N5OE 34,221 A W4TMR 33,120 A N4ROA 21,758 A K4MJ 11,232 A | N9JF 70,856 A W8VK 67,518 A VE3DO 53,106 A K9OM 44,073 A K8LUQ 42,036 A | NØTT 95,025 A KØRI 56,070 A K5AM 32,630 A NC7W 28,210 A KØFRP 28,188 A | WW7CC (K7FR,op) 35,264 A N7IR 23,430 A N6OJ 11,767 A AA7UN 10,168 A K7SY 9,176 A |
| W2XL 170,016 B WA1LNP 167,854 B K1PX 140,800 B K1HTV 129,750 B W2TZ 113,953 B | W3EEE 139,040 B N4CM 133,760 B W040 123,424 B WA4FFW 88,319 B N2NFG 82,278 B | WA8YRS 114,523 B WA8TMK 107,712 B WA1UJU 93,340 B VE3OSZ 89,096 B K9MMS 86,933 B | WØUO 124,821 B WJØM 115,192 B K5KA 102,179 B W5FO 86,163 B KØBJ 77,234 B | K7CA 138,013 B N7GP 67,562 B AH6M (K7SS,op) 58,362 B WA2DFI 54,460 B W6UC 52,736 B |
| K1ZM 383,180 C N1BB 283,291 C KQ2M 264,276 C K3RR 234,816 C W1SJ 179,655 C | AA4S 182,896 C KØEJ 170,396 C K1KY 158,000 C AA4NN 146,124 C K8OQL 143,724 C | VE3EJ 291,593 C N4AR 249,400 C K8CC (W8MJ,op) 245,427 C K9DX 233,151 C KE9I 177,762 C | N5JA 325,922 C K5NA 212,236 C WØUA 190,432 C VE5RA 144,254 C NØMA (WØEJ, op) 184,992 C | W7GG 156,046 C N6RO 122,672 C N6SS 110,136 C K6SE 84,688 C W7RM (KI7Y,op) 80,850 C |
| WW2Y 310,640 D K3WW 212,042 D K3SV 200,314 D N2MM 189,240 D W9XR 180,688 D | W4WA 325,066 D W4MYA 217,798 D K4PB 130,310 D WA4CBX 102,258 D NT4D 82,875 D | WB9Z 311,472 D K8MK 300,195 D K8KS 267,549 D K8ND 238,452 D W9RE 237,632 D | NØNI 216,152 D NX5M 210,672 D WØAH 198,832 D W7CW 179,197 D NA5B 163,125 D | K7OX 88,627 D N7KE 86,904 D KH7R 68,839 D W7LR 66,456 D W7AWA 64,440 D |

Affiliated Club Competition

| Tilliano o tilli o tillipotition | | |
|--|--|--|
| Unlimited Category Frankford Radio Club | 2,522,411 | 52 |
| Medium Category Potomac Valley Radio Club Society of Midwest Contesters Yankee Clipper Contest Club Mad River Radio Club Morth Coast Contesters Tennessee Contest Group North Texas Contest Club South East Contest Club South East Contest Club Klahoma DX Assn Kentucky Contest Group Minnesota Wireless Assn Northern California Contest Club Central Arizona DX Assn Rochester (NY) DX Assn Salt City DX Assn Texas DX Society Willamette Valley DX Club Western Washington DX Club Southern California Contest Club Florida Contest Club | 2,616,709 1,744,696 1,686,514 1,562,761 1,077,180 660,153 651,680 616,722 434,004 386,522 305,445 293,696 276,490 264,747 245,817 184,704 133,684 126,080 117,764 110,233 55,495 | 45 30 10 10 7 7 8 4 8 3 8 5 7 3 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 4 5 5 5 4 5 5 5 4 5 5 5 5 4 5 5 5 5 5 4 5 |
| Local Category Hudson Valley Contesters and DXers | 479,074 | 5 |
| West Park Radiops | 83,732 | 5 4 |

SOAPBOX

Boat, wood stove, ¹/4 wave vertical, balloon, and drink equals a fun weekend (WATUQV). I only had a few hours to operate due to a family visit and my 3-month-old son who demanded some attention. See you next year (K3CV). At the age of 81, night contests are getting tough (VE4JB). The contest was a great event as usual (K7OA). I enjoyed great conditions during the contest, using 5 W and an end-fed longwire up 20 feet. I am amazed what I could work with meager power and a poor antenna (WA3VAT). Using a quarter-wave balloon antenna on Saturday night helped. I am not used to pileups (WØUY). I was impressed by the overwhelming majority that honored the DX window. Seems like it was kept much clearer than in years past. While conditions to Europe seemed down, propagation to the western states seemed quite good. Another fun contest (N4XD). Great contest. Each year my station is getting closer to the top 10 in the country (W2RE). This was my first



Well-known Tokyo contester Aki, JE1SPY, operated single operator, low power.

year on the "Top Band" and my first contest entered as a single op. I didn't have much confidence in my little 1/4 wave inverted L, but after the contest I felt much better. I really enjoyed working 160 meters (KB8KIK). There were many fine signals out here again this year, KH7R's station was going like the Energizer Bunny. I could use their signal as an indicator of band conditions, but could not hear very many of the stations they were working (KH6/WB6FZH). I put the 160 meter module in the Argo just to check the band and found a contest under way. So I put the 80 meter feeders together into the tuner and jumped in. Most operators came back to my 5 W on the first call. It was really fun to work W7GG in Oregon (N2VPK). This is always a fun contest. Nice to work so many people on 160 meters. What a band! (KØWA)!. The first night band conditions were very good, with S1 or less noise levels. The second night was characterized with QRN due to storm activity. I didn't hear any stations from Florida, West Virginia, or Delaware (KI6CK). I was surprised to have contacted as many stations as I did. My antenna is a half-wave dipole up at 15 ft. Worked about everything I heard. Now I'll roll up the 200 feet

of wire strung all around my house until next month. The neighbors might actually miss it. Nah. They've never appreciated my sense of beauty and style. Wire is beautiful (K5OY). Where was the DX? Even without the DX it was great fun (N4GU). My first try at this contest. Thanks to Jim (VE5DX) for allowing me to put the station through its paces (VE5MX). I had a ball. There were great conditions. Special thanks to KL7Y for an all-time new one (VE2ZP). Conditions not as good as last year but I did break 1000 Qs for the first time (KØEJ). This was my first effort for this particular game. What a blast! The band conditions were excellent Friday into Saturday with more noise Saturday into Sunday. I found so many old friends during the contest that it seemed like a ham radio reunion (K1KY). This was a great contest, My big thrill was being called by WP2Z and being heard by RAØFF (K7CA). I decided to do a "nostalgia" contest this time and used my 20-year-old Drake C-Line barefoot. Remember when we could only run 100 W on 160? I'd forgotten how many knobs we used to turn! It was a great contest as usual (K5KA). I had a ball. There were many KH6s, and quite a few Europeans (VE2ZP). I had plenty of success running QRP this year. I added 14 new states (NØAX). This was a fun contest. My first 160 CW. I like it and will do it again (N5KB). The contest opened in a fury on Friday night. Murphy struck in the form of snow. DX was impossible for me on Friday, but conditions were better on Saturday. Thanks to everyone for my QSOs (K8FC). This is the first time I've operated 160 in over 25 years (N4ST). Fifty watts and a dipole can make for some good fun. Also having two KL7s call me sure got my heart pounding (NØHJZ). Who said CW was dead? There was lots of activity and fine operators (W9LNQ). This was a fun contest. I noticed there was not much DX activity. I am looking forward to next year (KN2T). It's amazing what you can do with 5 W on 160! (WX7G). Although conditions were definitely poorer than last year, we had a blast. DX was scarcer and weaker than in the previous 160 Meter Contests (K8KS). It was a thrill to operate this contest using low power (W5CWQ). I didn't do as well as past years, but had just as much fun (W4TMR). This is the first time for me to enter the 160 Meter Contest. I enjoyed every sleepless minute of it. See you again next year (W5FO). I ran QRP for the first time in a contest in 3 years. I couldn't believe the stations I worked and the fun I had. Everyone should try QRP once (WA8RCN).

Scores

Scores are listed by DXCC Countries and ARRL\RAC Sections. Within each country or section, scores are listed in descending order, by power categories, followed by multioperators. Line scores list call sign, score, QSOs, multipliers, power (A = QRP, B = Low Power, C = High Power, D = Multioperator). Division leaders are listed in **bold**.

| Asia | | | | | JH2BCN 208 | 13 | 8 | С | Europe | | | | | England | | | | | Denmark | | | | |
|---------------------------|-------------------------|----------------|----------------|--------|----------------------------|---------------|-----------|---|------------|--------|-----|----|---|-------------|------|----|----|---|-----------|--------|-----|----|---|
| Japan | | | | | JA9XBW 4 | 2 | 1 | С | Balearic I | slands | | | | GØKRL | 40 | 5 | 4 | В | OZ3W | 900 | 25 | 18 | С |
| JAØQNJ JI3KDH/3 | 1,760 900 | 40 | 22 15 | В | JHØZHQ (JH1BBT,JK 6.600 | 1GKG,o 100 | ps) 33 | D | EA6ACC | 588 | 21 | 14 | С | Italy | | | | | Netherlan | ds | | | |
| JE1SPY | 600 | 30 20 | 15 | B B | JA2YKA (JI4RDO.JL7 | | | _ | Ireland | | | | | I3VHO | 630 | 21 | 15 | С | PAØCLN | 2,150 | 43 | 25 | С |
| JA7AMK | 96 | 8 | 6 | В | 50 | 5 | 5 | D | EI7M | 16,192 | 184 | 44 | В | Czech Repul | olic | | | | Slovenia | | | | |
| JA2MOG | 2 | 1 | 1 | В | Asiatic Russia | | | | France | | | | | OK1DWC | 40 | 5 | 4 | С | S58A | 14,168 | 161 | 44 | С |
| JA7NI JL1ARF JH4ADK | 4,420 1,932 1,200 | 85 46 20 | 26 21 12 | CCC | RAØFF 532 | 19 | 14 | В | F5IN | 6,080 | 95 | 32 | С | | | | | | | | | | |
| OTTANDIC | 1,200 | 20 | 12 | 0 | | | | | | | | | | | | | | | | | | | |

| Company Comp | Poland | N2VT 11,774 203 29 B | W2GG 8,864 137 32 B | Virginia | K6HRT 7,548 102 37 C |
|--|---|---|---|---|---|
| Company Comp | SP7GIQ 17,688 201 44 C | W2KTF 6,138 99 31 B WB2DLA 5,050 101 25 B | W3MC 128,822 760 82 C K3MM 120,648 663 88 C | N4EUK 1.116 31 18 A | WB6FZH/KH6 20 2 2 A |
| March Marc | UA2FF 18,144 216 42 C | N2TX 106,726 583 86 D | W3TMZ 93,396 522 86 C W3GN 80,384 625 64 C K3KY 45.658 298 74 C | K4OAQ 77,409 630 61 B KR4V 45,632 362 62 B | 58,362 396 71 B KH7R (KH6ND,KH7U,WH6T,ops) |
| Control Cont | RV1CC 24 4 3 B | Northern New Jersey | W3AZ 44,352 333 64 C W3HVQ 40,052 320 62 C | K4MX 37,752 360 52 B W4UQ 33,768 294 56 B | 68,839 425 73 D Santa Barbara |
| Carting 1988 20 C 1985 70 20 20 20 20 20 20 20 | Ukraine | W2JEK 1,920 48 20 A | | N4ST 21,375 236 45 B K4IX 20,629 206 49 B | W7CB/6 32,300 230 68 B |
| Second | Latvia | N2ED 67,760 472 70 B N2WM 17,342 187 46 B | K3CR (KB3AFT,op) | W4VG 16,974 207 41 B | W6VM 17,390 185 47 B W6BKY 11,234 137 41 B |
| Continue | Yugoslavia | W2UDT 2,668 58 23 B K5KG 126,650 706 85 C | AA3GM 6,944 124 28 A WA3WAW 72 6 6 A | K4FOY 13,588 158 43 B WØCN 11,628 150 38 B | W6JEO 1,938 57 17 B W6JU 1,674 45 18 B |
| Section Property | | W1GD 25.308 210 57 C | AD8J 32,544 339 48 B W3IA 26,316 258 51 B | W4VC 8,132 107 38 B W4HM 7,000 100 35 B | |
| March Marc | St. Pierre & Miquelon | N2CG 18,270 203 45 C | W3ZA 12,025 104 37 B | K4UK 4,800 80 30 B | K6EI 4,455 81 27 A |
| Company Comp | 17,160 235 39 D Mexico | K2TW 78,037 512 73 D W2YR 45,570 312 70 D | KB3A 8,897 107 41 B WA3GQU 128 11 8 B | | W6PLJ 8,064 112 36 B K6GL 4,752 72 33 B |
| ## 15000 150 | | KB5U 2,592 48 27 D | W9XR (+W3GH) 180,688 952 92 D | K4BAM 37,180 356 52 C K4VV 36,960 333 55 C | K6XX 30.051 228 63 C |
| Consection | Aruba | | 139,062 789 86 D | KT4U 25.653 247 51 C | K6MO 24,302 202 58 C KI6CK 18,360 150 60 C N5KO/6 12,801 124 51 C |
| Company Comp | 130,284 846 77 D | WK2G 40,338 372 54 B | Alabama | W4MYA 217,798 1076 94 D WA4QDM 22,755 276 41 D | N6NM 11,760 137 42 C |
| Section Company Comp | Connecticut | W2NZH 15,840 198 40 B WA3WMF 12,247 164 37 B | K4IQJ 22,950 222 51 B KA9EKJ 18,040 220 41 B | Virgin Islands WP2Z (N9FD,op) 20.904 192 52 B | San Diego |
| Arthogology | NM1K 1,116 31 18 A K1PX 140,800 862 80 B | KN2T 32,186 170 77 C K2JLA 5,425 86 31 C | W4YNG 10,608 136 39 B K4NR 2,688 56 24 B | | W6JVA 20,094 191 51 B |
| Column C | W1GM 7,920 120 33 B W1JN 7,378 119 31 B | 310,640 1253 110 D N2MM 189,240 945 95 D | Georgia K4MJ 11.232 156 36 A | N5OE 34,221 279 61 A | N6OJ 11,767 142 41 A |
| Section Sect | WV1M 2,544 53 24 B | K2OWE 16,002 189 42 D | N4DÚ 61,755 443 69 B NN4S 40,832 313 64 B | AB5SE 44,663 377 59 B | K6UM 8,695 116 37 B |
| March 1-99 197 40 50 197 40 50 197 40 50 197 40 50 197 40 50 197 40 50 197 40 60 40 40 40 40 40 40 | K1VW 156,676 811 92 C N4XR 65.740 404 76 C | K2SB 10,810 116 46 D | K4OGG 19,272 219 44 B AD4J 7,848 109 36 B | N6SL 2.968 53 28 B | K6MI 608 19 16 A |
| ESATEM MASSACHUSTUS ESATEM MASSACHUSTS ESATE | N1HRA 14,910 176 42 C N8RA 10,520 127 40 D | W2QIP 8,580 143 30 A | K4BI 3,120 52 30 C W4WA (+AA4GA,KB4ID) | W5XV 11.137 128 43 C | KI6PG 3,328 52 32 B KA6BIM 40,548 324 62 C |
| Miles Mile | N1NQD 2,784 52 24 D | W2TZ 113,953 776 73 B KA2CDJ 60,800 362 80 B | N4XMX 14,241 150 47 D | WM9M/5 (+WD8LLR) | 3,024 63 24 C |
| Filter 1-301 174 19 | N1DM 23,355 255 45 B KE1AJ 22,896 237 48 B | W2LC 41,040 374 54 B K2JL 35,392 313 56 B | KC4WQ 50,635 388 65 B KM4FO 30,600 300 51 B | Mississippi | K6ME 42,092 305 68 B W6RFF 1,650 33 25 B |
| Wilson | K1NTR 14,391 174 41 B W1EM 9.024 141 32 B | W2LB 27,048 276 49 B WA2RZJ 23,500 250 47 B | AA2GS 17,688 201 44 B W3GEO 17,480 187 46 B | WA5NYG (AB5XP, W5ZDW, KC5XX, | KV6H 34,368 264 64 C KI6T 3.926 71 26 C |
| | W1MK 8,235 151 27 B K1EP 5,040 105 24 B | W2IC 2,346 51 23 B K8FC 169,920 914 90 C | W4PDZ 6,784 106 32 B | 78,651 469 81 D | N6FR (WB6RVR, WB6RUU, ops) 16,674 197 42 D |
| Color 1.5 1. | K1ZM 383,180 1322 119 C N1BB 283,291 1091 109 C | K2LO 45.240 378 58 C | KF8VS 4,096 64 32 B KM4CH 3,024 56 27 B | N5UL 107,016 671 78 C | 11,398 139 41 D |
| WHERE MALES 25 15 D WART WARDS 25 15 A WARD NOT BE STAN 197 BS B ALTON NOT BE STAN 197 BS B | N1IA 16,168 188 43 C | KW2J 44,899 376 59 C N2WK 16,720 152 55 C | WØOQ 9,768 132 37 C | WØUO 124,821 748 81 B | Alaska |
| MAFC 666 25 13 A N2LM 23.822 277 43 D N2LM 23.826 65 28 A N NGC 10.824 123 44 8 B NGG 10 | W1BB (K1RV,K1VV,ops) 55,083 432 61 D | AA2PQ (+K2ZJ) 169,385 845 95 D | W4TMR 33.120 345 48 A | W5CWQ 25,578 197 63 B W4YOK 25,404 216 58 B | Arizona |
| NUCH 19 | Maine | 23,822 277 43 D | 3,696 66 28 A | N5KB 10,824 123 44 B K5LH 6,290 91 34 B | N7GP 67,562 452 74 B WA2DFI 54,460 380 70 B |
| New Ampshire | K1TGS 10,440 145 36 B K1DRV 2,928 61 24 B | | N2NFG 82,278 647 63 B KS4S 34,398 348 49 B | K5RA 24,960 202 60 C | KY7M 25,056 213 58 B W7LM 1.957 50 19 B |
| WAILING | N1CGP 47,520 393 60 C | K3HRO (N9GG,op) | KE4QZB 6,930 198 35 B W4AGI 1,190 35 17 B | K5KA 102,179 659 77 B | N6SS 110,136 661 78 C W7YS 39,476 275 71 C K7OX 88.627 547 77 D |
| NYAD September NYAD September NYAD September Septemb | W1XV 2,346 51 23 A WA1LNP 167,854 895 89 B | NY3C 8,679 130 33 B | AA4S 182,896 952 92 C N4XD 136,000 776 85 C K2AV 116,999 727 79 C | K5YAA 72,540 462 78 C NA5B (+W5VHP,W5AO) | K7ON 29,241 255 57 D |
| China Chin | K1PTF 37,300 367 50 B K1TR 26,505 293 45 B | Eastern Pennsylvania | NY4A 58,527 460 63 C NW6S 48,507 338 69 C | South Texas | WW7CC (K7FR,op) 35,264 271 64 A W7PQE 20,450 203 50 B |
| AATLN 27,642 288 51 C | KD1AW 4,900 98 25 B K1WD 1,600 40 20 B | K3AN 6,200 100 31 A K2LNS 47,465 430 55 B | N4UH 23,712 225 52 C K4PB (+N4CW) | WA8GHZ 66 11 3 A AC5K 47,940 345 68 B | W7UB 15,350 152 50 B W7OVJ 1,386 33 21 B |
| Main | KC1F 24,064 250 47 D | K3MQH 25.652 290 44 B | NT4D 82,875 630 65 D K3KO 68,510 512 65 D | W5MJ 34,584 259 66 B K5NZ 33,856 257 64 B KG5YA 27.145 221 61 B | |
| WARDING NAME WARD | K1DFT 23,414 253 46 B | W3BEN 10,800 150 36 B K3PP 6,256 86 34 B | 6,664 98 34 D | W5BA 14,750 146 50 B KZ5E 10,534 110 46 B | |
| Wild | K2MN 96 8 6 B | W3KV 3,080 55 28 B NY3Y 2,024 46 22 B | W4ROM 25,783 214 59 B K4LDR 15,795 174 45 B | K5IX 6,200 100 31 B NA5TR 800 25 16 B | N7AGP 69,412 466 74 C |
| Vermont | W1OP (K1DT,K1JNJ,W1GS,W1IUX, N1JDA,ops) | W3BGN 105,469 536 91 C K3ATO 78,880 574 68 C | W4NB 1,300 28 20 B | K5NA 212,236 1016 97 C K5TR 127,756 764 82 C | Nevada |
| Western Massachusetts WT3W 20,145 190 51 C | Vermont | WB3FAA 78,740 632 62 C K3TEJ 64,456 574 56 C N3RJ 34,776 316 54 C | KP3W 50,768 289 76 C | K5DX 77.040 471 80 C | K7CA 138,013 842 79 B |
| WHT | W1CX 101,772 765 66 C | AA3B 26,358 282 46 C K3ZA 24,647 250 49 C WT3W 20,145 190 51 C | K4DB 14,570 155 47 B | NX5M (+N5TU,N5XJ,KB5ZFO) 210,672 986 99 D | W7YĀQ 26,840 220 61 B K7GX 1,116 31 18 B |
| Wish | WF1L 41,450 410 50 B | K4JLD 18,600 146 60 C W3MF 12,726 150 42 C W3AP 7,942 100 38 C | K4UA (N4TJ.op) | N5QWF,WD5KBY,WA5SNL) | W7GG 156,046 896 82 C K7ZUM 29,810 271 55 C |
| KTITT (+KBITW) 116,366 665 83 D WF3T 124,062 680 87 D WF3T 124,062 680 87 D WATHEN 156,245 179 48 B N5CC 48,960 354 68 C WATHEN 26,720 38,661 37 C WATHEN 35,510 22 66 67 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 22 67 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D NAMED 17,732 200 44 C WATHEN 35,510 27 TI D N | W1CSM 21,378 253 42 B W1PF 3,276 63 26 B | K2CD 7,524 114 33 C K3ND 7,098 80 42 C | | West Texas | |
| 2 | KZ1M 12,432 142 42 C K1TTT (+KB1W) | K3WW 212,042 1021 97 D K3SV 200,314 1019 94 D | W4MLA 16,245 179 45 B | NZ5M 1,600 40 20 B | NC7W 28,210 226 62 A WA7HQD 40,740 338 60 B |
| KDZIX | | W8FJ 70,956 420 81 D K3NZ 58,619 376 73 D | WD4AHZ 3,668 64 28 B W4OX 52.852 353 73 C | 6 | W7HS 35,510 256 67 C AF7O 8,584 116 37 C |
| W2XI | K2ETA 7.320 122 30 A | NN3Q 24,096 251 48 D K3II 19,125 183 51 D | | | 64,965 456 71 D KO7X (+K7VYY) |
| KZUF 45,103 421 53 B K3SWZ 7,942 103 38 D WO4D 123,424 80 80 76 B K6VR 1,802 53 17 A K7SY 9,176 124 37 A K2DW 31,455 348 45 B W2CX 6,790 97 35 D N6VR 22,856 227 50 B K6VR 1,802 53 17 A K7SY 9,176 124 37 A K2DW 31,455 348 45 B W2CX 6,790 97 35 D N6VR 22,856 227 50 B K6VR 1,802 53 17 A K7SY 9,176 124 37 A K2DW 31,455 134 13 38 B K3ANS 5,040 81 30 D K4MC 5,544 84 33 B K6RO 16,023 162,49 B W7LD 51,204 376 68 B W2CX 1,748 113 33 B N3AD 3,968 61 31 D K4MC 5,544 84 33 B K6RO 16,023 162,49 B W7LD 51,204 376 68 B W2CX 1,748 113 33 B K7LOX 15,570 173 45 B W2CX 1,748 113 33 B K7LOX 15,570 173 45 B W2CX 1,748 113 33 B K7LOX 15,570 173 45 B W2CX 1,749 155 43 C WK31 81,690 579 70 A K1KY 158,000 977 80 C KUBT 7,7410 95 39 B W7KOU 6,050 55 55 B N2AS 1,748 113 113 113 113 113 113 113 113 113 11 | KD2IX 2,976 62 24 A W2XL 170,016 930 88 B W4AA 46,464 334 66 B | N3MKZ 16,740 120 62 D NE3F 16,050 156 50 D K3CP 15,548 166 46 D | AC4HF 1,360 40 17 A N4CM 133,760 877 76 B | K6TS 5,400 75 36 C | 56,304 379 72 D Western Washington |
| N2CJJ 7,458 113 33 B N3AD 3,968 61 31 D K4AMC 5,544 84 33 B KQGES 10,249 137 37 B WTLD 51,204 375 68 B WBZPUH 576 18 16 B W2RE 173,088 861 96 C W2RE 173,088 861 96 C K2BX 13,459 155 43 C WK3I 81,690 579 70 A K1KY 158,000 977 80 C KUGET 7,748 577 66 D W3AVAT 2,200 50 22 A W4W4RR (N4ZZ,op) K2DS (+WA2JQK,AA2DY) 50,902 400 62 D M3I 28,458 276 51 B W4CZ 21,924 200 54 C NDEP 1,615 41 19 B W7RM (K17Y,op) NYC-Long Island 1974 577 68 C W3CF 177,000 107 35 B W7LOX 15,570 173 45 B W7LOX 1 | K2UF 45,103 421 53 B K2DW 31,455 348 45 B N2DBD 16,400 200 41 B | K3SWZ 7,942 103 38 D W2OX 6,790 97 35 D K3ANS 5,040 81 30 D | N5OR 22,850 227 50 B N4PQV 11,726 143 41 B | K6VR 1,802 53 17 A W6ZH 1,258 37 17 A | NØAX 6,747 85 39 A K7QF 2,610 45 29 A |
| VZBX 13,459 155 43 | N2CJJ 7,458 113 33 B WB2PUH 576 18 16 B | N3AD 3,968 61 31 D Maryland-DC | WB3JKQ 3,900 65 30 B KØEJ 170,396 1030 82 C | KQ6ES 10,249 137 37 B KØINT 7,700 107 35 B | W7LD 51,204 375 68 B N7LOX 15,570 173 45 B AE7W 8,446 103 41 B |
| K2DS (+WA2JQK,AA2DY) | K2BX 13,459 155 43 C N2SA (+KE2SD) | WD3P 6,534 99 33 A WA3VAT 2,200 50 22 A | WW4RR (N4ZZ,op) | W6LX 7,128 108 33 B N6ED 4,710 77 30 B | W7KQU 6,050 55 55 B NM7M 3,484 67 26 B |
| NYC-Long Island W3CP 25,070 271 46 B WACDX 102,258 642 78 D Orange K9JF7 39,644 275 68 C | K2DS (+WA2JQK,AA2DY) | K1HTV 129,750 850 75 B N3II 28,458 276 51 B | 52,101 412 63 C W4CZ 21,924 200 54 C | ND6P 1,615 41 19 B | KK7GW 100 10 5 B W7RM (KI7Y.op) |
| NOTE: 21,000 000 10 2 NOTE: 10 2 NOTE: 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | NYC-Long Island KC6ETY 24,480 306 40 B | | WA4CBX 102,258 642 78 D W4PA 16,928 184 46 D | Orange K6NR 11,634 137 42 B | K9JF/7 39,644 275 68 C K7UU 7,600 100 38 C |

| W7TSQ N7KE (UC2AFB | 4,059 NG9C | 60 W7HQ.I | 33 AC2F | C | AF9DX N9CK | 72,065 46,023 | 506 332 | 71 69 | B B |
|--------------------------------------|----------------------------|-------------------------|-------------------|----------------|---------------------------------|------------------------------|--------------------|-----------------|--------------|
| KB7N,W7QC, KB7ZFO.ops) | ,K7SZL, I | KB7V,W | /7VP, | | K9DAF N9CIQ | 33,489 23,540 | 273 214 | 61 55 | B B |
| W7AWA 6 WA7UQV (+N7) | 6,904 4,440 NC) | 591 443 | 71 72 | D D | N9WAR WD9GWH WT9Q | 10,836 9,280 148,434 | 126 116 947 | 43 40 78 | B C |
| 6 | 1,110 | 426 | 70 | D | K9NX K9CAN | 139,356 72,864 | 816 503 | 84 72 | C |
| Wyoming AB1HZ/7 11 W7CW (+W7GS | 9,658 | 762 N7\/\/\ | 77 | С | KB9S WA9TZE N9UA | 45,698 36,864 31,130 | 307 270 283 | 73 64 55 | 000000 |
| 17 W7CA (+KØHP) | 9,197 1 | 063 | 83 | D | W9GIL WØAIH (KØTO | 28,428 3,K9ALP, | 200 | 69 | |
| 7 | 2,450 | 519 | 69 | D | | 199,360 | 1087 | 89 | D |
| 8 Michigan | | | | | Ø Colorado | | | | |
| K8LUQ 4 W8RU 1 | 2,036 0,920 | 336 140 | 62 39 | A A | KØRI KØFRP | 56,070 28,188 | 396 243 | 70 58 | A A |
| N8JM K8SIA 4 | 2,392 5,304 | 52 403 | 23 56 | A B | KIØII KGØDS WØFTT | 280 42,651 | 14 337 226 | 10 63 | A B B |
| NE8O 2 | 9,760 9,792 | 291 304 210 | 56 49 45 | B B B | W9KV WØAZ | 27,300 15,810 2,592 | 155 48 | 60 51 27 | B B |
| K8GVK 1 | 8,900 5,916 5,523 | 173 179 | 46 43 | B B | NØKE NØFCK | 2,300 176 | 46 11 | 25 8 | B B |
| N8VEN 1 | 1,778 0,668 | 151 127 | 39 42 | B B | WØUA WØTM NW7E | 190,432 106,172 59,358 | 1019 682 370 | 88 76 78 | CCC |
| W8WVU K8AI W8YL | 7,232 5,984 1,320 | 113 88 33 | 32 34 20 | B B B | WØMU NØHF | 42,560 39,996 | 301 303 | 70 66 | CCC |
| K8CC (W8MJ,o | p) | 1270 | 93 | С | NØSXX WØAH (+KF7 | 25,365 MD) | 221 1081 | 57 86 | C D |
| W8KZM 2 | 2,232 | 344 194 | 58 56 | CCC | Iowa | , | | | |
| W8EB 1 W8ROS 1 K8KS (+N8CC, | 9,883 4,904 K8AQM | 164 159 NU8Z.V | 59 46 V8MC | C | NØBB WTØD | 57,794 36,840 | 404 307 194 | 71 60 48 | B B B |
| KG8CO,K8AE 26 | EM) 57,549 1 | 1272 1 | 101 | D | KBØSK KØTVD WBØB | 18,624 8,640 3,074 | 108 | 48 40 29 | B B |
| K8FX (W8WA,K | 8GM,op 3,906 | 950 | 89 | D | NØMA (WØEJ | l, op) 184,992 | 1116 | 82 | С |
| | 7,518 | 543 | 62 | A | NØNI (+WØDO KEØFT (+K9V | 2,000FLS: 216,152 | ,NØAC) 1306 | 82 | D |
| WA8RCN 3 K8OUA 1 | 6,400 | 300 205 122 | 51 40 | A A A | Kansas | 67,188 | 506 | 66 | D |
| WB8ZWY | 1,115 7,140 2,000 | 122 105 50 | 45 34 20 | A A A | KØBJ KØRY | 77,234 36,288 | 517 279 | 73 64 | B B |
| WA8YRS 11 WA8TMK 10 | 4,523 7,712 | 805 745 | 71 72 | B B | WAØYXK WØWPL | 6,764 5,814 | 89 75 | 38 38 | B B |
| W8EH 4 W8IDM 4 | 19,206 15,144 | 414 415 | 59 54 61 | B B B | KDØG NØUU KUØKU | 5,580 5,022 2,208 | 90 81 46 | 31 31 24 | B B |
| W8DHG 3 N8BJQ 3 K8AB 1 | 1,659 0,038 6,562 | 255 325 166 | 46 49 | B B | WØUY KØWA | 80,850 77,400 | 527 533 | 75 72 | B C C |
| W8PN 1 AF8C | 5,162 8,680 | 179 124 | 42 35 | B B | NØIN NØJJO | 45,430 168 | 311 12 | 70 7 | C C |
| K8KSN | 6,864 3,051 | 104 55 750 | 33 27 80 | B B | Minnesota NØUR | 7,920 | 120 | 33 | Α |
| K8MR 5 | 1,200 3,394 60,344 | 400 400 | 66 62 | C C C | WJØM KIØF | 115,192 38,720 | 742 301 | 77 64 | В |
| K8SM 4 K5ZG 3 | 10,128 32,670 | 349 301 | 57 54 | C | WØZQ NØHJZ KØCJ | 33,062 20,800 1,633 | 271 200 34 | 61 52 23 | B B B |
| KF8TM 2 KB8KIK 1 K8MK (+K8LR,F | 6,892 7,204 | 243 187 37D WR | 54 46 8C) | CCC | WØHW NØIJ | 102,141 3,944 | 617 55 | 81 34 | C |
| 30 K8ND (+K1LT) | 0,195 1 | 1329 1 | 105 | D | KRØB (+KSØ* WØJH (WØSE | 44,604 | 351 KFØCI.KE | 63 BØRC | D S. |
| N8NR (+N9AG) | 18,452 1 13,128 1 | 1249 | 93 88 | D D | KBØROA,W | /B5EMX,c 27,342 | ps) 217 | 63 | D |
| K8NZ 2 W8CCI (W8KVI | 20,570 J.KD8RI | 184 F.W8KJ. | 55 KI8C | D Z, | Missouri NØTT | 95,025 | 629 | 75 | A |
| | 8,234 | ops), 88 | 46 | D | KØJPL WBØQLU NSØB | 13,288 7,656 105,825 | 151 116 704 | 44 33 75 | B C |
| West Virgin | 4,398 | 351 | 49 | A | K4VX KØLIR (WAØI KØRAY,KB | 13,900 | 133 | 50 | С |
| K8KFJ 8 | 6,758 31,606 52,326 | 109 606 483 | 31 67 54 | A B B | KØRAY,KB AAØA,ops) | 0KK,K0ZZ 147,926 | 995, WBØIU | N,KG 74 | ØKP, D |
| W8ZA 1 W8WEJ 1 | 5,007 4,696 | 173 155 | 43 44 | B B | North Dak | ota | | | |
| K8OQL 14 K2UOP/8 2 | 3,724 6,871 | 830 243 | 84 53 | C | N7IV WBØO KIØE | 37,696 45,658 4,260 | 304 301 71 | 62 74 30 | B C C |
| 9 | | | | | Nebraska | | | | |
| Illinois N9JF 7 K9OM 4 | 0,856 | 518 372 | 68 59 | A A | KKØDX KØNC WJØZ | 5,220 3,360 864 | 90 56 54 | 29 30 16 | B B B |
| | 4,073 25,728 4,060 | 268 58 | 48 35 | A A | Nova Sco | tia | 318 | 74 | С |
| K9MMS 8 K9LU 8 | 6,933 0,735 | 557 601 | 77 67 | B B | Quebec | 57,054 | | | |
| WO9S 4 K9WA 2 | 18,192 25,012 20,800 | 375 239 200 | 64 52 52 | B B B | VE2ZP VE2AWR | 98,364 23,408 | 557 266 | 84 44 | B B |
| W9LNQ 2 W9CA 1 | 8,000 8,000 | 200 180 | 50 50 | B B | Ontario VE3DO | 53,106 | 501 | 53 | A |
| K9QVB 1 WB9VTF 1 | 0,902 0,160 | 114 127 52 | 46 40 23 | B B B | VE3OSZ VE3UZ VE3TDG (VA | 89,096 38,931 3SYL.op) | 581 340 | 74 57 | B B |
| K9DX 23 WB9SKE 4 | 2,392 3,151 17,744 | 1219 370 | 93 64 | Č | VA3NR | 31,490 21,840 | 335 226 | 47 48 | B B |
| KJ9O 4 W9OA 3 | 3,008 19,528 | 333 264 | 64 72 | CCC | VE3WZ VE3BUC VE3EJ | 21,120 1,100 291,593 | 240 25 1330 | 44 22 103 | B B C |
| WB9Z (+K9CS, | 5,953 K9NR,A 1,472 1 | 146 K9F,K9 I431 1 | 53 EFO) 103 | C D | VE3KP VE3KZ | 149,345 53,613 | 856 378 | 85 69 | C |
| NO9Z (+N1HRV 16 | N) 8,299 | 926 | 89 | D | VE3ZTH Manitoba | 4,059 | 60 | 33 | С |
| N4SI (+W9QA) | 6,933 0,050 | 609 356 | 79 70 | D D | VE4AAU VE4JB | 14,202 45,359 | 130 337 | 54 67 | B C |
| K9MOT 4 | 4,191 | 373 | 59 | Б | Saskatche VE5SF | 10.368 | 108 | 48 | В |
| W9UR | 660 4,088 | 100 510 | 33 72 | A B | VE5RA VE5DX (VE5 | 144,254 | 851 503 | 83 74 | С |
| K9PX 4 WD8DSB 2 | 2,700 7,234 | 350 267 | 61 51 | B B | Alberta | | | | |
| W9HLY 1 | 6,238 7,762 1 | 175 1017 | 46 86 | B C | VE6EX VE6KC VE6LB | 49,088 11,792 13,426 | 382 134 137 | 64 44 49 | B B C |
| 23 WN9O (+K9DAI | 17,632 1 L) | 216 | 94 | D | VE6JY British Co | 23,335 | 172 | 65 | Ď |
| 10 WA2KVX (+K9F | 15,867 HIA,K9T | 643 FP,KG9 408 | 81 AP,N 54 | D Z9R) D | VE7FPT VE7NSR (VE | 35,750 7QH, VE7 | 266 CA. VE7 | 65 7CQK | С |
| Wisconsin | 4,226 | | | _ | VE7ZED, V | E7YQ, VE 23,232 | 239 | ps) 48 | , D |
| WD9IAB | 1,202 5,460 3,340 | 327 105 718 | 63 26 65 | A A B | Checklog: K2YLH, KØN | | J, W10k | (. j | 15 ∓∠ |
| | 2,040 | | 00 | - | | | | Ŀ | |