

ARRL CW Sweepstakes 2013 Results By Kelly Taylor, VE4XT



A look at the granddaddy of domestic contests — then and now.

With shouts of 'On ye Brave; Who rush to glory or the grave'... So began E.L. Battey's report on the first Sweepstakes from the May, 1930 issue of *QST*, eighty-three years ago. (The article is available to ARRL members from the *QST* Online Archives.) It was a much different time, in a much different month (January), with the winner, J.F. Feely, W1ADW, of Danbury, Conn., running a Hi-C Hartley transmitter in a largely homebuilt station replete with exposed tuning coils, capacitors, tubes and high-voltage connections. To win it took him two weeks to log a record-setting 153 QSOs in 43 sections — missing a clean sweep of all 68 sections. Back in 1930, only 48 sections took part!

The contest has been held for all but 4 of the 83 years since, and contesters have tried to claim the title in the granddaddy of domestic contests. Much of the contest has changed, yet contesters are still awarded two points per contact. The reasoning behind this can be traced back to the 1930 Sweepstakes, where stations were awarded one point for sending an exchange and one point for receiving an exchange.

Single-Operator, High Power (B or SOHP)

This category is considered the gold standard for Sweepstakes because the victor in this category is usually the overall winner of the contest, and because of the number of entrants, and the fact no spotting assistance is permitted.

| Single Operator, High Power | | | | | | | | |
|-----------------------------|---------|--|--|--|--|--|--|--|
| W7RN (N6TV, op) | 242,360 | | | | | | | |
| N9RV | 235,720 | | | | | | | |
| NØNI (AG9A, op) | 235,388 | | | | | | | |
| N5RZ | 228,250 | | | | | | | |
| WDØT | 222,108 | | | | | | | |
| NR5M | 219,452 | | | | | | | |
| K6LA | 217,294 | | | | | | | |
| WØUA | 216,464 | | | | | | | |
| N4OGW | 215,136 | | | | | | | |
| W9RE | 215,136 | | | | | | | |

Sweepstakes went through a period where it seemed if you weren't operating from Puerto Rico, you didn't have a hope. Lately, the southwestern U.S. seems to be the hot spot, and this year's winner is no exception. Bob, N6TV, piloted the Comstock Memorial Station, W7RN, in Nevada, not only winning with 1,460 QSOs and 83 sections, but setting a Pacific Division record with 242,360 points.

"I didn't notice it was the contest's 80th anniversary," Bob writes. "But it was exactly 40 years since my very first SS in 1973 (at age 16)." Bob credits new antennas at W7RN (at the home of Tom, K5RC) for his being loud and being able to hear well, as well as Nevada's semi-rare status as a multiplier. "People will hang around the frequency much longer to work you."

But most of all, he credits accuracy in copying and logging. His error rate was an excellent 0.7 per cent. "I was trained at a very young age by one of my contest mentors, N6AA, that accuracy is everything, especially in Sweepstakes where there are so many things in the exchange that you can miscopy," he writes. "So though I always go for rate, I never hesitate to ask for a confirmation or repeat if I have any doubt. I don't want to lose a single QSO.

"My view is if you run 100 QSOs per hour but have a lot of busted QSOs, your real QSO rate is much lower, so a high run rate can be very misleading."



Bob, N6TV, at the controls of W7RN, on his way to a coveted win in the Single-Op, High Power category. (Photo by K5RC)

Pat, N9RV, is right behind, taking second place and setting the Northwestern Division record with 1,420 QSOs and 83 sections for 235,720 points. In third place is another common Top Ten finisher, Mark, AG9A operating his usual haunt at NØNI. He scored 1,418 QSOs and 83 sections for 235,388 points. Rounding out

the Top 5 are Gator, N5RZ (228,250 points) and Todd, WDØT (222,108).

The Secret of Contest Longevity

Finding out why Sweepstakes has endured for 80 years might require looking not at the top scores, but at some in the middle. Ted, WB3AVD, took up the broom in 1998 and is a self-proclaimed "putterer" in Sweepstakes. He usually averages about 200 QSOs or so and only worked a sweep once, in 2013. That doesn't diminish the sense of accomplishment felt when he put Nebraska in the log Sunday night and then "retired to a good bottle of Port."

"You see, for all those years, to me being a kind of lazy, not-very-serious contest operator, the Clean Sweep seemed about like seeking the Holy Grail," Ted writes. "So after all these years, ham radio still had a challenge and a reward which made me feel like a kid again. And on a key I built myself!" Ted has been building keys for three years, teaching himself to be a machinist. "Typically, now, I use the contest to evaluate one of my new key designs — figuring that if it doesn't work well, I'm not stuck in a long ragchew," he said.



Ted, WB3AVD, holding his homemade Key No. 19. It can be used four ways: as a standard dual-lever paddle, a singlelever paddle, a straight key, or as an iambic paddle with fingers actuating the keys horizontally, like the buttons on a computer mouse. (Photo by WB3AVD)

One longtime Top Ten operator, Matt, K7BG, salutes operators like Ted. "Sweepstakes, as with most any contest, is made possible by the casual operator. That is how I started out. When I entered my first few Sweepstakes years ago and realized how much fun it was, my goal became simply to improve my previous best score," Matt wrote. "I tip my hat to the casual operator who gets out a bug or straight key and memorializes the love of CW and Sweepstakes by returning each year. In many ways, these operators are leading the flock."

In a contest where the winning stations must work more stations than actually submit logs (top-scoring W7RN made 1,460 QSOs, 97 more than the 1,363 logs submitted), casual operators such as Ted and others who don't submit logs are critical to the contest's success.

Single-Operator, Low Power (A or SOLP)

A common battle at the top of this category has usually pitted two close friends, Matt, K7BG, and Randy, KØEU. While Randy was off winning the Single-Op Unlimited, High Power category, Matt was busy running away with the title in Single-Op, Low-Power. His 1,206 QSOs and 83 sections were good for 200,196 points and the Northwestern Division record for the category.

| Single Operator, Low Power | | | | | | | | |
|----------------------------|---------|--|--|--|--|--|--|--|
| K7BG | 200,196 | | | | | | | |
| K7GK (@W6JZH) | 189,904 | | | | | | | |
| N9CK | 187,580 | | | | | | | |
| K4RO | 187,414 | | | | | | | |
| NØAT (NØKK, op) | 186,916 | | | | | | | |
| NAØN | 185,920 | | | | | | | |
| KØAD | 180,774 | | | | | | | |
| WA1Z | 176,292 | | | | | | | |
| WJ9B | 175,794 | | | | | | | |
| N7XU (K4XU, op) | 171,478 | | | | | | | |

"I must admit it was with some degree of disappointment when I worked Randy and he was not in 'A' class this year," Matt said. "I will also admit it was with some degree of relief, as well." Incredulous, he went on to say, "You mean I actually stayed above the 200k mark after log checking? I can now retire! That has been a goal for some time now. Of course, the three new Ontario sections made it possible, but don't tell anybody." Actually, Matt didn't know it, but his error rate was identical to N6TV's at 0.7 per cent. High marks for accuracy!

Matt's main piece of advice for anyone hoping to bridge the gap between casual participant and competitor is this: "SO2R (single-operator, two radios) is essential to be competitive in Sweepstakes. It also makes the slower Sunday operating so much more enjoyable. Being able to CQ on one radio and tune on another band simultaneously looking for additional stations to work is the bread and butter of modern-day radiosport, but especially Sweepstakes."

Matt closes, saying, "I really can't say when the last time was that I found myself not operating the CW SS. Like the swallows returning to Capistrano at their appointed time each year, so the CW ops return to Sweepstakes. It's always fun to work all the old familiar "faces" each year and one tends to really notice when some of the regulars don't make it into the log for whatever reason."

A number of 'A' category division records were set in 2013, not the least of which was Matt's. Second-place K7GK (@W6JZH) took the Pacific Division record with 1,144 QSOs and 83 sections for 189,904 points. Third-place N9CK is the new Central Division record holder with 1,130 QSOs and 83 sections for 187,580 points. Kirk, K4RO, didn't set a record but did take fourth with 1,129 QSOs, 83 sections and 187,414 points. Ron, NØAT, operating at another Kirk's station, NØKK, closes out Top 5 with 1,126 QSOs, 83 sections, 186,916 points and the Dakota Division record.

Contacts and Exchanges, Then and Now

Today's exchange is a relatively simple affair, complex as it is. Call sign, serial number, precedence (denotes operating classification), check (year of first license) and section. In 1930, the exchange was not specified exactly, but had to be a two-way exchange consisting of no fewer than 10 words each. It is one thing to have a complex exchange when you know what to expect: It is something else entirely when operators can choose a random 10 words themselves.

In 1930, Sweepstakes was a two-week contest consisting mainly of CW contacts, though one station (W9GHI in Baldwin, Kansas) was singled out for using phone for "a good number" of contacts. Considering amateurs didn't start seriously experimenting with single-sideband modulation until after World War II, AM would have ruled the day in 1930. Back then, the few phone contacts made were blended with the CW contacts and all counted the same. SS today is divided between the first and third weekends in November, with CW taking place on the first and Phone on the third weekend. Operators may work a maximum of 24 hours.

Over those 2 weeks in 1930, the winner, W1ADW, made 153 QSOs. Today's top stations can make that many QSOs in less than an hour during the high-rate periods on Saturday afternoon. In 2013, we measure rate in QSOs per hour. In 1930, some rates were measured in hours per QSO.

Single-Operator, QRP (Q)

It is perhaps the height of irony on display at the top of the QRP category for 2013. Mark, K6UFO, operating as NN7SS, won with 766 QSOs, 82 sections and 125,624 points, just a hair ahead of Ward, NØAX, operating as WØEEE, with 751 QSOs, 83 sections and 124,666 points.

| Single Operator, QRP | | | | | | | |
|----------------------|---------|--|--|--|--|--|--|
| NN7SS (K6UFO, op) | 125,624 | | | | | | |
| WØEEE (NØAX, op) | 124,666 | | | | | | |
| NØUR | 120,682 | | | | | | |
| WI9WI | 117,916 | | | | | | |
| K9TM | 117,588 | | | | | | |
| N1RR (@K1TTT) | 115,038 | | | | | | |
| N7IR | 113,212 | | | | | | |
| WF7T | 105,742 | | | | | | |
| KØOU | 105,410 | | | | | | |
| N4OO | 102,754 | | | | | | |

The ironic part? A few years back, Ward sold his Vashon Island station just outside Seattle and moved back to Missouri. Who did he sell it to? You guessed it: Mark. "I got beat by my old station!" Ward writes.

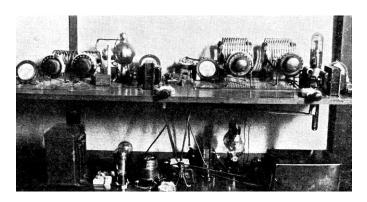
"Well, I count Ward as a good friend — maybe not anymore," Mark counters jokingly. "He proved this was a good location and I made a few more improvements after I bought the house from him in 2006. "I'm sure Ward will get his revenge on me in some other contests, so I think I just re-energized a future competitor."

"You mentioned I missed a sweep, so one of my sections must have gone NIL (Not In the Log). It's tough when QRP to cleanly work them all through the unruly pileups," Mark e-mailed. Even so, with 766 clean QSOs, 82 sections and a fraction of the transmitting power, in 24 hours he quintupled W1ADW's 1930 QSO count while running five watts.

The other contestants may not have been ironic, but they were close. NØUR was third with 727 QSOs, 83 sections and 120,682 points; WI9WI fourth at 719 QSOs, 82 sections and 117,916 points and K9TM in fifth with 717 QSOs, 82 sections and 117,588 points.

Historical Hardware

The first entrants used homebrew tube transmitters, with J.F Feely, W1ADW using a Hartley circuit and 2nd place winner W9DEX using the famed Type 10. The most recent high-power winner, W7RN (operated by Bob, N6TV), used a pair of Elecraft K3s which combined took up less than one-quarter the desk space of W1ADW's station. Full details of W1ADW's equipment aren't specified, but one can imagine it likely included lead-acid batteries for both the tube filaments and possibly for driving a generator to produce the B+, likely between 500 and 1,000 V.



In 1930, W1ADW would have had his hands full operating one radio set, juggling T-R switching and swapping his UV-203a triode transmitting tube for an 852 triode from time to time. Bob, N6TV, like most topscoring stations, would have alternated between his two Elecrafts, often transmitting on one while listening on the other, a quite-legal practice known as Single-Operator, Two Radio (SO2R). "SO2R is essential to winning Sweepstakes these days," Bob wrote. "I spend every possible moment doing S&P (search and pounce) on the second radio, trying to find new ones, while also trying to keep a CQ run going on the first. It is very difficult."

In 1930, the operators confined themselves to "the 3500, 7000, and 14000 kc bands." Today, Sweepstakes contacts are made on all of the traditional bands from 160 to 10 meters, excepting 60, 30, 17, and 12 meters.

Little was said of antennas in the 1930 Sweepstakes report, but it's safe to assume wire antennas were the norm. Most articles of the day referred to coupling to single-wire feed lines and Hertz antennas or doublets and even today, some stations achieve outstanding results in this domestic contest using nothing more than the average city-lot antenna farm.



A pair of rotating monopoles holding multiple stacked antennas at W7RN. (Photo by K5RC)

On the other hand, among its eight towers W7RN uses a pair of rotating monopoles with multiple stacks of antennas, including a pair of three-element 80 meter Yagis, one at 175 feet and the other at 55 feet.

Bob, N6TV, said the biggest benefit was being able to hear signals approaching from multiple angles, helping eliminate fading and maximizing received signal strength. In 1930, many were still learning the many nuances of propagation.

Multioperator, Low Power (ML)

One of the smallest categories might be one of the best for introducing new operators to Sweepstakes. Multioperator, Low Power appeals to a variety of operators, from those looking to get newcomers' feet wet to those who don't want to individually go hard for 24 hours but don't want to run big power to be competitive.

It's a good category for new operators because with only 23 entries in 2013, you're guaranteed a Top 25 finish. But it's not as though the category can't be competitive, either. At the top, nine QSOs separated the top three stations. The gang at WØDLE in Colorado (W2UP [corrected ver 1.12], KØAV, WBØGAZ, and WØDLE) took top honors with 1,100 QSOs, 83 sections and 182,600 points; K5CM (K5CM, W5CW) was second with 1,094 QSOs, 83 sections and 181,604, and KH6LC (AH6RE, KH6LC and NH6V) was third with 1,091 QSOs, 83 sections and 181,106 points.

| Multioperator | , Low Power |
|---------------|-------------|
| WØDLE | 182,600 |
| K5CM | 181,604 |
| KH6LC | 181,106 |
| VE4EA | 137,924 |
| N4UW | 135,456 |
| W8EDU | 129,646 |
| W5RU | 126,492 |
| K5KC | 122,176 |
| AC5K | 115,702 |
| KU7Y | 88,614 |

In fourth place, marking the birth of the then-unnamed Radiosport Manitoba club is VE4EA (VE4EA, K3KU, VE4XT), with 841 QSOs, 82 sections and 137,924 points. Their presence was welcome news for those who regularly miss VE4 for a sweep. N4UW (N4UW, N4IR, N4DD) round out Top Five at 816 QSOs, 83 sections and 135,456 points.

Single-Operator Unlimited, Low Power (UL)

Is it fair to call Chad, WE9V, an accidental victor? Chad's an excellent operator, but he was also scheduled to have his daughter that weekend, so only expected a part-time effort. "I usually pull the plug at the 14-hour mark." But when it worked out his ex-wife had plans for

her and their daughter, Chad found himself at home with no one to answer to. "I was free to do what I wanted. Apparently, I wanted to operate SS CW."

Single Operator Unlimited, Low Power

| WE9V | 197,872 |
|------------------|---------|
| VE6EX | 188,078 |
| KK7S | 185,754 |
| W4MR (AA4NC, op) | 185,422 |
| KTØR (KØOB, op) | 184,758 |
| KE7X | 183,430 |
| KB7Q | 175,296 |
| K2NNY (K2DB, op) | 161,684 |
| N4PN | 160,854 |
| N2MM | 160,356 |
| | |

Chad writes he started off hoping to set the Wisconsin record for Single-Op Unlimited, Low Power, but like Forrest Gump, once he got to the state line, he just kept running. And running. Chad writes that once he achieved the Wisconsin record, he started wondering if the W9 record was in sight. He broke that, too. "Then I was wondering what the all-time record was. Well, I broke that, too!" Chad's 1,192 QSOs and 83 sections were good for 197,872 points as well as the all-time Single-Op Unlimited, Low Power record.

Contained within Chad's performance is some excellent insight for aspiring top-tier operators: Stay in the chair! "Ya know... I'm probably not the best person to ask," he demurs. This was only his second full-time effort, but what an effort it was! "I guess the best advice I can give to increase BIC (butt-in-chair) time is to increase your interest or fun. Do something different, not mundane. Use the second radio much more.

"While it won't help your rate as much: watch TV, read a magazine, surf the Internet: Something to take the boredom out and add spice. Want to help your score the most? Turn on packet spots and enjoy the folly. Shoot the fish in the barrel."

What a year for UL it turned out to be. After Chad's alltime record, the next six stations in line all set division records: VE6EX, KK7S, W4MR (AA4NC, op.), KTØR (KØOB, op.), KE7X, and KB7Q. N4PN, in 9th place, also set a division record. And while not enough for Top Ten, KØNE, N1QD, and N5DO also all set division records.

Sweepstakes Here and There

In 1930, operators such as VE4IC (the only Manitoba station but not the only VE4, because that call area then included Manitoba, Saskatchewan, and Alberta), would have been within arm's reach of their tuning controls. In 2013, Hal, W1NN, operating his Ohio station, wasn't even in North America. Hal is a business consultant helping North American companies do business in Japan and spends a large part of each year at his Tokyo

apartment. Hal's 961 QSOs and a sweep were good for 20th place in Single Operator, Low Power.

"I am using a TS-480 with the RemoteRig boxes (www.remoterig.com)," explained Hal. "The front panel of the radio is with me in Tokyo and the rear end stays in Ohio." Hal says that despite the separation, the part he misses the most about doing Sweepstakes remotely (he normally leaves for Japan after the contest) is not having SO2R capability. "Tokyo is about 6,500 miles from my station in Ohio, but amazingly, latency is not an issue at all," he said, referring to Internet delays. High-speed Internet connections at both ends extend the control wires of his TS-480. Keying, tuning, received audio, and antenna switching commands travel back and forth between Tokyo and Ohio.

Time difference is a big issue for Hal: "The contest starts at 6 AM Sunday Japan time and ends at noon on Monday. This may be an advantage during the first half of the contest, because I start off pretty fresh after a good night's sleep. However, when it's 3 AM in Ohio and things slow down, it is still only 5 PM in Tokyo." The time shifting made the usual sleep breaks impossible. "I operated on and off until 3 AM Tokyo time (1 PM Ohio time) but then collapsed for 3 and a half hours (during the afternoon Ohio time)."

Back in 1930, DX spotting was likely done by carrier pigeon, if at all. In 2013, 434 operators entered as Single Operator Unlimited, which allows stations to use the DX spotting network or other methods, including CW Skimmer (an automated, multi-channel, CW decoder), to find multipliers they need. Operators can set up their logging software to identify a needed station and then use the mouse to click on that spot and tune their radio to the station's frequency instantly.

"I like working a sweep as quick(ly) as possible. So toward the beginning of the contest, I used (spotting) fairly heavily to get the sweep," said Chad, WE9V. "I'm still amazed at the CW Skimmer technology, and for a CW contest, in assisted mode it's like drinking from a fire hose. There's always someone new to work."

Single-Operator Unlimited, High Power (UH)

Randy, KØEU, who won the Single Operator Unlimited, High Power category, admits even he finds it a bit hypocritical for him to be in this category, much less win it. He has wanted to try a new category for a while, having won and placed in the Single Operator, Low Power category a number of times. He said that when operating high power, the attraction of using spotting isn't as great as it seems. "Operating SO2R high power, a sweep is like the point-after after a touchdown — almost automatic. Add in spots, and — unless there is no activity from a given section — a sweep truly is automatic."

| Single Operator Unlimited, Hig | gh Power |
|--------------------------------|----------|
| KØEU | 234,890 |
| KH7XX (KH6SH, op @ KH6YY) | 218,788 |
| K7RL | 212,978 |
| K6LL | 206,670 |
| KO7AA | 206,006 |
| N4BP | 202,520 |
| NY3A | 201,192 |
| N4ZZ | 198,868 |
| N6XI | 195,548 |
| KTØA | 192,726 |

A perennial Top Ten entrant for more than a decade, Randy keys into one of the major attractions with Sweepstakes. "This may surprise you, but Sweepstakes is not my favorite contest. However, it is the one I have been most successful at in terms of first-place finishes. For that reason, I tend not to miss many of them."

"I've often wondered why the top assisted (Unlimited) category scores for a given power level rarely are on par with the top unassisted scores," he writes. "My guess is, by and large, the best operators consider assisted to be less of a challenge. To them, the only true competition is one where it is you and your radios against the world. I agree with that philosophy. My excuse is that entering in U class gave me a good shot at a first-place finish that I wouldn't have had in the B class."

Yet even in a category where a sweep is automatic and never worth more than 83 multipliers — rate is king. "Spots were helpful in finding second-radio opportunities. "It's hard to estimate how much different my score would have been without assistance, probably by 50-100 QSOs," Randy adds. "The Sunday doldrums didn't go away, even with assistance. The name of the game is to maximize rate throughout the contest."

In second behind Randy's 1,415 QSOs and 83 sections was John, KH6SH, operating at KH7XX at KH6YY. His 1,318 QSOs and sweep was good for 218,788 points and the Pacific division record. K7RL (1,283 Qs, 83 sections, 212,978 points), K6LL (1,245 Qs, 83 sections, 206,670 points) and KO7AA (1,241 Qs, 83 sections, 206,006 points) round out the Top Five.

Sweepstakes Rules!

In 2013, there remains much debate over rules. Is Hal's remote operation permitted by the rules? (Yes, it is.) Can we keep working once our 24-hour period has run out? (Yes, and stations you work will get credit for those contacts, but you'll only get credit yourself for contacts made within the 24-hour period.) In 1930, there was similar confusion about the rules. Some operators believed you could only work other ARRL members (not true). Other stations were under the impression only

contacts made with stations actually participating could count for points (also not true). Some stations did well by cajoling non-participants into giving them a contact just as they do during today's Sweepstakes.

Multioperator, High Power (MH)

Although multiop in SS — likely owing to the shorter time-frame — isn't the most-popular category (only 51 entries out of 1,364 in both high and low power), it is getting to be quite competitive.

W2FU (N2ZN, KØSM, NW2K, NM2O and W2FU) logged 1,386 QSOs and 83 sections to win the category and claim the Atlantic Division record with 230,076. More interesting is that they were within 100 QSOs of N6TV's single-op record from the geographically challenged (as far as Sweepstakes is concerned) Western New York section, with the same 24-hour limit. Could we one day see an MH entry challenge for No.1 overall? W2FU is in fifth place overall, with three Bs and one UH score ahead of them.

| Multioperator, High Power | | | | | | | | |
|---------------------------|---------|--|--|--|--|--|--|--|
| W2FU | 230,076 | | | | | | | |
| NX6T | 227,254 | | | | | | | |
| AA5B | 225,096 | | | | | | | |
| VY1EI | 210,986 | | | | | | | |
| W4RM | 207,002 | | | | | | | |
| KP2M | 202,354 | | | | | | | |
| KØWA | 195,880 | | | | | | | |
| NY6C | 162,348 | | | | | | | |
| K6SU | 157,534 | | | | | | | |
| KT4RR | 156,704 | | | | | | | |

NX6T (1,369 QSOs, 83 sections, 227,245 points), AA5B (1,356 QSOs, 83 sections, 225,096 points), VY1EI (1,271, 83 sections, 210,986 points) and W4RM (1,247 QSOs, 83 sections, 207,002 points) round out Top Five. Records also fell in the Canadian division (VY1EI (VY1EI, N6TR)) and Midwest division (KØWA (KØWA, ABØS, WØNO).

School Club (S)

This category could be so much more! As it is, most years, it has trouble attracting enough entries to be able to form a Top 10. This year is no different, though the winner, W6YX (KBØVVT and N7MH) and the runnerup, KØHC (WØBH op.) each posted scores that would be impressive in most other categories. W6YX scored 1,242 QSOs and 83 sections for 206,172 points, while Bob, WØBH at KØHC counted 1,103 QSOs and 83 sections for 183,098 points. A division record fell in this category, too, with W6RFU (AC6T, op.) claiming the Southwestern Division record with 732 QSOs and 83 sections for 121,512 points. That also is the new Santa Barbara record.

| School Club | | | | | | | |
|--------------------|---------|--|--|--|--|--|--|
| W6YX | 206,172 | | | | | | |
| KØHC (WØBH, op) | 183,098 | | | | | | |
| W6RFU (AC6T, op) | 121,512 | | | | | | |
| W6BB (K6JEB, op) | 113,324 | | | | | | |
| W3YI (AB3LS, op) | 73,538 | | | | | | |
| W2DSC (WB2NVR, op) | 37,228 | | | | | | |
| N5XU (AA5BT, op) | 28,552 | | | | | | |
| K5LSU | 15,494 | | | | | | |
| WB5H | 10,716 | | | | | | |
| W1AF (W1PL, op) | 9,800 | | | | | | |

So, here's the challenge, alumni, staff and students: Get your school club on the air! Let's get some rivalry going here. Harvard, you really going to sit back and let Stanford take all the marbles every year? What about you, Princeton? And it's not just limited to four-year universities, either: School Club is open to technical and trade schools as well as secondary and other schools.

The catch? Operators must be staff, students or alumni. As well, if the school has a club station, the operation must be at the club station. If there is no club station, another station may be used but it must be owned by a staff member, student or alumni to qualify. It's important to point out the spirit of the school club rules is to involve students and inspire them in ham radio and contesting, it's not just to bring in ringers and be an easier category.

Sweepstakes for the Past 80 Years

What has happened to Sweepstakes over the years? The following list captures major changes from the beginning.

1930 - First SS, then called the ARRL All-Section Sweepstakes, is held over two weeks in January.

1935 - Contest is cut to one week and renamed ARRL Sweepstakes, the name it enjoys today.

1936 - Contest begins to take modern form, cut to two 33-hour weekends with operators allowed a maximum 40 of the 66 hours. Exchange also begins to take modern form, becoming only the preamble to a message. Check isn't year of first license but rather a signal report.

1936 - First Sweep is made by W6ITH, cleaning up all 69 sections.

1937 - Number of entrants surpasses 1,000 for the first time, with 1,013.

1937 - Number of sections hits 70 with addition of South Carolina. W6MVK is only station to complete a sweep.

1939 - The Second World War breaks out, eliminating the possibility of a clean sweep as it imposed radio

blackout on Canadian amateurs, eliminating six sections. "You were missed!" *QST* exclaims to the Canadians.

1941 - Sweepstakes — with the sweep cut to 64 sections without the Canadian sections — is held Nov. 8-9 and Nov. 15-16. W9FS wins for CW and W9RBI wins on phone. Less than a month later, on Dec. 7, Japan attacks Pearl Harbor, plunging the U.S. into the Second World War. All Amateur Radio activity except for W1AW broadcasts is prohibited.

1946 - Sweepstakes is back!

1964 - Contest shortened to 24 hours

1974 - Contest weekends take on modern form, with CW the first weekend of November, Phone the third

1976 - In honor of the U.S. Bicentennial, special awards given for stations making 200 QSOs

1987 - QRP class is added

1990 - Participation pins for 100 or more QSOs offered

1992 - Mugs offered for clean sweeps

1999 - Added Unlimited, Multiop and School classes

2000 - West Central Florida section is created, making the total $80\,$

2012 - Ontario is split into four sections — Ontario North, Ontario South, Ontario East and Greater Toronto Area — making the total 83

2013 - ARRL celebrates 80th running of Sweepstakes

The Next 80 Years

As Sweepstakes heads into its 81st year, it appears to be as popular as ever. A domestic contest where anyone can make a splash appeals to a wide array of operators. In addition, the continuing popularity of a CW contest with a lengthy exchange is welcome news to any operator worried CW may be going the way of the spark gap.

KØEU, is gratified to see a large number of stations he hasn't heard before giving out recent checks (the year they were first licensed) in their exchanges. The results suggest about 80 or so stations had checks of the year 2000 or newer. "Always glad to see the new ops with the later check numbers. CW isn't dead!" he writes.

The 2014 running of Sweepstakes runs Nov. 1-3 for CW and Nov. 15-17 for Phone. Why not try it for yourself and write a little history of your own?

| | | | | 20137 | | RL Novembe Regional Leader | | | • | | | | | |
|--|---------|----------|--|-------------------|----|-----------------------------------|---------|---|------------------|---|---------|----------------------|---------|----|
| | Boxe | s list c | all sign, score, and categor | y (A/B/Q - Single | | .ow Power/High Power/QR | | <u> </u> | , | ultiop/LowPow | er, S - | School Club) | | |
| | | | | | | | | | | | | | | |
| Northeast | Region | | Southeast | Region | | Central R | egion | | 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 | | Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections | | Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Section | | erta, | | |
| N2NT (N2NC, op) | 213,642 | В | N4OGW | 215,136 | В | W9RE | 215,136 | В | NØNI (AG9A, op) | 235,388 | В | W7RN (N6TV, op) | 242,360 | В |
| AA3B | 204,678 | В | N4AF | 201,856 | В | KE9I | 180,774 | В | N5RZ | 228,250 | В | N9RV | 235,720 | В |
| K5ZD | 203,516 | В | K4BAI | 184,260 | В | K9BGL | 174,300 | В | WDØT | 222,108 | В | K6LA | 217,294 | В |
| WA1Z | 176,292 | А | K4RO | 187,414 | А | N9CK | 187,580 | Α | NØAT (NØKK, op) | 186,916 | А | K7BG | 200,196 | Α |
| N8NA | 164,672 | А | NP3A | 160,688 | А | W1NN | 159,526 | Α | NAØN | 185,920 | А | K7GK (@W6JZH) | 189,904 | Α |
| WY3A | 161,352 | А | KU8E | 156,538 | А | W8CAR | 158,364 | Α | KØAD | 180,774 | А | WJ9B | 175,794 | Α |
| N1RR | 115,038 | Q | WF7T | 105,742 | Q | WI9WI | 117,916 | Q | WØEEE (NØAX, op) | 124,666 | Q | NN7SS (K6UFO, op) | 125,624 | Q |
| W1QK | 90,720 | Q | N400 | 102,754 | Q | көтм | 117,588 | Q | NØUR | 120,682 | Q | N7IR | 113,212 | Q |
| AA1CA | 76,194 | Q | K4QPL | 101,898 | Q | кт8к | 101,352 | Q | KØOU | 105,410 | Q | W6JTI | 100,532 | Q |
| NY3A | 201,192 | UH | N4BP | 202,520 | UH | VE3KI | 179,114 | UH | KØEU | 234,890 | U | KH7XX (KH6SH, op @KH | 218,788 | U |
| WR3Z | 190,734 | UH | N4ZZ | 198,868 | UH | N4TZ | 164,174 | UH | ктøа | 192,726 | U | K7RL | 212,978 | U |
| KI1G | 184,426 | UH | N1LN | 176,292 | UH | K9NR | 152,554 | UH | K5RT | 183,762 | U | K6LL | 206,670 | U |
| K2NNY (K2DB, op) | 161,684 | UL | W4MR (AA4NC, op) | 185,422 | UL | WE9V | 197,872 | UL | KTØR (KØOB, op) | 184,758 | UL | VE6EX | 188,078 | UL |
| N2MM | 160,356 | UL | N4PN | 160,854 | UL | N9CO | 159,858 | UL | кøмрн | 159,360 | UL | KK7S | 185,754 | UL |
| K3AU (K2YWE, op) | 155,542 | UL | N4KH | 151,226 | UL | K8BL | 157,700 | UL | N5DO | 154,380 | UL | КЕ7Х | 183,430 | UL |
| W2FU | 230,076 | ΜΗ | W4RM | 207,002 | MH | KT4RR | 156,704 | ΜΗ | AA5B | 225,096 | М | NX6T | 227,254 | м |
| K3AJ/2 | 154,048 | MH | KP2M | 202,354 | ΜΗ | K8BZ | 132,136 | ΜΗ | KØWA | 195,880 | М | VY1EI | 210,986 | м |
| W3LJ | 29,400 | ΜΗ | AC8Y | 116,366 | ΜΗ | W9YK | 85,772 | ΜΗ | NY6C | 162,348 | М | K6SU | 157,534 | м |
| W3YI (AB3LS, op) | 73,538 | S | N4UW | 135,456 | ML | W8EDU | 129,646 | ML | WØDLE | 182,600 | ML | KH6LC | 181,106 | ML |
| W2DSC (WB2NVR, op) | 37,228 | S | W5RU | 126,492 | ML | VA3MN | 74,358 | ML | K5CM | 181,604 | ML | КU7Ү | 88,614 | ML |
| W1AF (W1PL, op) | 9,800 | S | K3MZ | 60,216 | ML | N9MT | 35,154 | ML | VE4EA | 137,924 | ML | W6K | 76,194 | ML |
| | | | K5LSU | 15,494 | S | | | | KØHC (WØBH, op) | 183,098 | S | W6YX | 206,172 | S |
| | | | | | | | | | N5XU | 28,552 | S | W6RFU | 121,512 | S |
| | | | | | | | | | | | | W6BB (K6JEB, op) | 113,324 | S |

Version 1.11 corrects the listings for Midwest and West Coast Region leaders

2013 ARRL CW Sweepstakes – Rare Sections

The following table shows the number of QSOs verified with each section (the total only includes QSOs for which logs were submitted from each station). The rarest section this year was not Yukon-Northwest Territories or even North Dakota, but Newfoundland! Keep an ear out for those VO1 or VO2 stations in 2014.

| X7 A | 20.402 | WININ | 9262 | | 1626 | W/W | 20.14 |
|------|--------|-------|------|-----|------|-----|-------|
| VA | 29493 | WNY | 8262 | WMA | 4636 | WY | 2944 |
| MDC | 25735 | OR | 8116 | SJV | 4521 | SB | 2878 |
| SCV | 23825 | MO | 8090 | WCF | 4516 | NV | 2866 |
| MN | 19731 | CT | 8075 | NM | 4509 | AK | 2685 |
| IL | 19614 | AL | 7945 | GTA | 4497 | PAC | 2674 |
| OH | 18966 | NNJ | 7488 | NLI | 4486 | NNY | 2629 |
| WWA | 17111 | ENY | 7231 | ME | 4321 | MB | 2463 |
| EPA | 17062 | EB | 7096 | SNJ | 4298 | VT | 2439 |
| AZ | 15627 | ORG | 6624 | WTX | 4070 | MAR | 2417 |
| NC | 15389 | NFL | 6044 | ID | 4068 | WY | 2263 |
| NTX | 14171 | SF | 6043 | BC | 4059 | ONN | 2005 |
| STX | 12950 | KS | 5986 | SC | 3793 | SK | 1745 |
| MI | 12547 | IA | 5833 | UT | 3756 | AB | 1730 |
| SV | 11962 | SDG | 5703 | ONS | 3607 | ND | 1698 |
| СО | 11897 | WPA | 5630 | MS | 3488 | VI | 1694 |
| WI | 11507 | SFL | 5605 | DE | 3484 | NE | 1638 |
| TN | 11481 | LAX | 5405 | SD | 3427 | PR | 1593 |
| EMA | 10792 | MT | 5006 | RI | 3389 | NT | 1548 |
| GA | 9331 | LA | 4907 | ONE | 3028 | QC | 1410 |
| IN | 9142 | KY | 4785 | AR | 3000 | NL | 1219 |
| NH | 8586 | OK | 4727 | EWA | 2999 | | |

2013 ARRL CW Sweepstakes - Division Winners

| Can Category Schle Category Schle New England AA3B B EPA 204,678 KSZD B WMA 203,516 NBNA A DE 164,672 WA12 A NH 176,233 WBSYYY Q MDC 27,832 N1RR Q WMA 115,038 M3NA UH EPA 200,76 WIAF (WIPL,op) UL ENA 9,000 W2FU MH WNY 166,528 N1AF (WIPL,op) S ENA 9,000 W37(MBSUS,op) S WA 7,538 Northwestern 9,001 22,978 VEAGV A MB 164,174 NN755 Q WW 22,2,978 VEAGV A MB 137,924 Pacific UL WW 22,2,978 VEAGN ML ONE 179,114 KK75 UL WW 22,2,978 VEAGV A MIR 137,924 K76K A EB | Call | Catagony | Section | Scoro | Call | Catagory | Section | Scoro |
|---|--------------------|----------|---------|---------|------------------|----------|---------|---------|
| AA3B B FFA 204,678 KSZD B WMA 203,516 NBNA A DE IG4,672 WN1Z A NH 126,338 NY3A UH EFA 201,132 KIIS UH EMA 130,330 W2FU UL NMY 230,075 WJAF (W1PL, op) S EMA 93,000 W3YI (AB3LS, op) S WFA 73,538 Northwestern 239,206 VEFCC B BC 211,434 KY786 A MT 202,022 VEFCC A MB 164,174 NN755 Q WWA 212,552 VEFAC UH ONE 179,114 K755 UH WWA 212,563 VEEK UH AB 185,078 Pacritic WWA 212,360 VEEK UH MH 775,114 K75K UH WVA 212,360 VEEK UH MH 117,5158 KSUM H </td <td></td> <td>Category</td> <td>Section</td> <td>Score</td> <td></td> <td>Category</td> <td>Section</td> <td>Score</td> | | Category | Section | Score | | Category | Section | Score |
| NSRAADE166,672 107,832WA1ZANHFC 292 107,832WBSYYQMDC27,832NIRRQWMA15,038NY2AUHEPA20,132KIIGUHRI110,390W2FUMHWNY15,584NIQDULEMA9,800W3F(JASLS,op)SWFA73,538Nortiwesternmt239,206CanadaTYSVBMT239,206VE7CCBBC211,484K78GAMT239,202VEAGWAMB164,174NTS5SQWWA125,562VEAGWAMB164,174NTS5SQWWA125,562VEAGWAMB180,078PacriticT129,960VEAKULAB180,078PacriticT129,961VEAKULAB180,078PacriticT100,552VEAKULAB187,920NGETUL107,152W9REBIN215,136KH7XKUHPAC23,788N9CKAWI117,9154KSSUMHUT157,152W9REBSD222,108K40PLQNC101,588N9CKAWI117,9156KSSUMHUT157,152MYRMHIR187,920NGARSSCV20,172W9RKMHIL857,527NGARANC< | | в | FPA | 204,678 | - | в | WMA | 203,516 |
| VMBRYYY Q MMC 27.83 NIRR Q WMA 115.038 NY3A UH EPA 201.132 KIG UH EMA 136.039 VZFU MH WNY 156.564 N120 UL EMA 9.800 VMSV (AB3LS, op) S WPA 73.538 Northwestern EMA 9.800 Canada N WT 229.205 V.4647 A MB 164.174 NN75S Q WWA 122.524 VASIS Q GTA A64.906 K/7RL UH WWA 122.524 VASIS Q GTA A64.906 K/7RL UH WWA 122.524 V126 UH MH TT 210.966 W7RN (KTV, op) B NV 223.206 VTELE MH MT 137.924 K7GK A EB 189.904 Central WSR A WI 137.958 KSEU UH SSCV | | | | | | | | - |
| NY3AUHFPA201.32K1GUHRIRI44.426K2NNY (K2DB, op)UHNNY230.076W1AF (MUPL, op)SEMA9,800W2YI (ABJLS, op)SWPA73.538NoTtwestern239.205VE7CCBBC211,484K78GAMT239.202VEAGVAMB164,174NY75SQWWA125,624VASISQGTA64,906K7RLUHWWA125,524VASISQGTA64,906K7RLUHWWA125,524VESKIULAB180.078Pacrific | | | | | | | | |
| K2NNY (K2DB, op)ULNNY161,624NLQDULFMA10.390W3FU (AB3LS, op)SWPA73,538NorthwesternNRT239,206VEFCCBBC211,484KY86GAMT220,205VEFCCAMB164,174NN75SQWWA212,573VESKIUHONE175,114KK78LUHWWA212,573VESKIUHONE175,114KK7SUHWWA212,575VESKIUHAB188,078PacrificVEGEXUHAS189,078VTEIMHNT219,366W7RN (KTV, op)BNV22,360VEAEAMLMB137,924K7GKAEB189,003VGEXAWI187,580NEEEUHS/V218,788NGCKAWI187,580NEEEUHS/V167,5410VISWIUHIN164,174KH6LCMLPAC181,106WISWIUHIN187,722NoanokeNU146,921181,106WISWIUHIN125,541NAAFBNC201,855NgAT (NGKr, op)AVA148,920NA148,920148,920VISWIUHIN185,916NILNUHNC165,922WISWIMHIL197,922NGYASSCU257,926NgAT (NGKr, op)BSD222,136KGUL <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> | | | | - | | | | - |
| VX2FU MH WNP 23:0076 WIAF (WJPL, op) S EMA 9.800 W3YI (AB3LS, op) S WPA 73:538 Northwestern N 239,206 VE7CC B BC 211,484 K786 A MT 239,206 VEACV A MB 164,174 NNTSS Q WWA 122,5624 VASIS Q GTA 64,906 K7RL UH WWA 122,5624 VASIS Q GTA 64,906 K7RL UH WWA 122,5624 VASIS Q GTA 64,906 K7RL UH WWA 122,5624 VEAEA ML MB 137,924 K7GK A EB 183,1061 Central WGAT A WI 137,580 NGEE UL S/V 105,412 MISWI Q WI 117,916 K65U ML PAC 121,856 MSGK A WI | | | | - | | | | - |
| NYA 73,538 Northwestern Northwestern VE7CC B BC 211,484 K7BG A MT 202,022 VE4GV A MB 164,174 NN7SS Q WWA 212,624 VA3SB Q GTA 64,906 K7RL UL WWA 212,978 VE4KI UH ONE 179,114 KK7S UL WWA 212,978 VE5KI UL AB 188,078 Pacific V WWA 212,978 VE4EA ML MB 137,924 KYGK A EB 189,904 Vefer WH NT 219,365 KH7XX UL VZ4,250 VM9RE B IN 215,316 KH7XX UL S 105,162 VISWI Q WI 179,156 KSU ML S 206,172 VISWI UL VI 197,872 Krofx ML VA 148,902 | | | | - | | | | - |
| Canada NSRV B MT 239,205 VE7CC B BC 211,484 K7BG A MT 230,202 VE4GV A MB 164,174 NN7SS Q MWA 125,624 VASB Q GTA 64,906 K7RL UH WWA 125,624 VASB Q GTA 64,906 K7RL UH WWA 125,524 VEEK UL AB 188,078 Pacific | | | | - | | - | | -, |
| VE7CC B BC 211,484 K7BG A MT 202,023 VE4GY A MB 164,174 NN75S Q WWA 212,578 VE3KI UH ONE 179,114 KK7S UL WWA 212,978 VEEKI UL AB 188,078 Pacific WWA 212,978 VTEI MH NT 210,986 W7RN (NFV, op) B NV 242,350 VE4EA ML MB 137,924 WGRE A EB 189,904 VeatA MS N475,808 NGEE UL SIV 105,410 WIM Q W1 137,924 KH7X UH PA 281,016 VE7V UL W1 197,872 KGSU MH UT 167,128 VM3RE ML IN 35,154 NA4F B NC 201,856 VM9YK ML IN 35,154 NA4F B | | | | | | В | MT | 239.206 |
| VE4GV A MB 164,174 NN7SS Q WMA 125,674 VA3SB Q GTA 64,906 K7RL UH WWA 212,978 VEEKI UH ONE 179,114 KK75 UL WWA 185,754 VEEKA UL AB 188,078 Pacific NV 242,360 VEAEA ML MB 137,924 K7GK A EB 100,532 VGRN Central WGTI Q SF 100,532 VGRK A WI 187,580 NGEE UL SIV 105,413 VISWI Q VI 117,916 KSU ML PAC 218,788 VISWI Q WI 117,916 KSU S S CV 205,712 WISWI Q WI VI 197,872 NAIA S S CV 203,656 VEESV UH NI 197,872 NA | | В | BC | 211.484 | | | | |
| VA3SB Q GTA 64,905 K7RL UH WWA 212,978 VE3KI UH AB 188,078 Pacific NU VISE NU 242,360 VY1EI MH NT 210,986 W7RN (N6TV, op) B NV 242,360 VCaEA ML MB 137,924 K7GK A EB 188,904 VCaEA ML MB 137,924 K7GK A EB 199,904 Central - 215,136 K417XX UH PAC 218,788 NGCK A WI 117,916 K450C ML PAC 218,786 WISWI UL WI 197,872 Work S 5 5C 206,172 WSYK ML IN 35,154 NA4F B NC 101,898 WOYK ML NI 85,152 K42 NU NC 101,892 VMAJK (MØK, op) A MN | VE4GV | | | - | | | | |
| VESK1 UH ONE 179,114 KX75 UL WWA 185,754 VE6EX UL AB 188,078 Pacific B NV 242,360 VT1EI MH NT 210,966 W7RN (N6TV, op) B NV 242,360 VE4EA ML MB 137,924 K7GK A E8 189,904 Central WSTR B IN 215,136 K17XX UH PAC 218,785 WSCK A WI 187,580 NEEE UL SIX 105,410 WSYM Q WI 117,916 KSSU MH UT 167,126 NSCK MH IL 85,772 Roanoke NC 201,856 Dakota MM 185,916 N1LN UH NC 176,292 NØUR Q MN 126,527 WARM (A4ALC, op) UL NC 185,422 NØUR Q MN 123,536 | | | | | | | | |
| VFEEX UL AB 188,078 Pacific VY1EI MH NT 210,986 W7RN (N6TV, op) B NV 22,360 VE4EA ML MB 137,924 K7GK A EB 189,994 Went B IN 215,136 K17XX UH PAC 213,788 V9CK A WI 187,580 NEEE UL SV 105,110 WISWI Q WI 197,872 WorKX S SC 206,172 V9SYK ML IN 35,154 NAAF B NC 201,856 Dakota VNDØT B SD 222,108 K4QPL Q NC 108,890 MØAT (MØKK, op) A MN 120,682 W4MR (AAANC, op) UL NC 185,422 KrØA UH SD 192,726 W4MR M 207,002 KrØA (MØKK, op) ML MN 23,560 WolAR | | | | - | | | | |
| VYLEI MH NT 210,986 W7RN (NGTV, op) B NV 2423,50 VE4EA ML MB 137,924 K7GK A EB 189,904 Central WGITI Q SF 100,532 W9RE B IN 215,136 K17XX UH PA 218,788 MSCK A WI 117,916 KSU MH U 57 105,410 MSTA UL WI 197,872 WGYX S SCV 206,172 W9YK MH IL 85,772 Roanoke WDØT B NC 201,856 Dakota MA MA 186,916 NLN UH NC 176,322 MØRT Q MN 186,916 NLN UH NC 176,323 MØRT Q MN 126,726 WARM (AAARC, op) UL NS 166,490 VBØT B MS 215,136 KØRI <td>VE6EX</td> <td>UL</td> <td>AB</td> <td>-</td> <td>Pacific</td> <td></td> <td></td> <td></td> | VE6EX | UL | AB | - | Pacific | | | |
| VE4EA ML MB 137,924 VTGK A E B 189,904 Central WGIT Q SF 100,532 W9RE B IN 215,136 KH7XX UH PAC 218,783 N9CK A WI 187,580 NEEE UL SIV 105,410 WISWI Q WI 117,916 KSU MH UT 167,162 N4TZ UH IN 164,174 KH6LC ML PAC 181,106 WE9V UL WI 197,872 Roanoke 201,856 N9MT ML 85 SD 222,108 K4QPL Q NC 103,898 MØAT (MØKK,op) A MN 126,922 W4MR MH NC 127,624 KTØA Q MN 120,622 W4MR MH VA 207,002 KTØR (KØOB,op) UL MN 123,736 RoKP ML VA 227 | | МН | | - | | В | NV | 242,360 |
| Central WG/TI Q SF 100,532 W9RE B IN 215,136 KH7XX UH PAC 218,788 M9CK A WI 187,580 N6EE UL SIV 105,410 MINU Q WI 117,916 KSSU MH PAC 218,788 M4TZ UH IN 164,744 KH6LC ML PAC 201,855 WE9V UL WI 197,872 WGYX S SCV 201,855 Dakota N9MT ML IN 35,154 NAFF B NC 201,856 Dakota NS 212,020 K4QPL Q NC 108,922 MØMT (NØKK,op) A MN 120,522 W4MR (A44NC,op) UL NC 126,224 MØMT (NØKK,op) UH MN 120,526 WG/PL ML 202,026 KØJE ML MN 32,556 K0K ML NC | VE4EA | ML | MB | | | А | EB | - |
| W3RE B IN 215,136 KH7XX UH PAC 218,788 N9CK A WI 117,916 K6EL UL SIV 105,410 WiSW1 Q WI 117,916 K6EU ML UL 105,712 N4TZ UH IN 164,174 KH6LC ML PAC 181,106 W9YK MH IL 85,772 Roanoke 201,856 N9MT ML IN 35,154 NAAF B NC 201,856 Dakota N9MB A VA 148,922 NQWI Q NC 103,898 NØAT (MØKK, op) A MN 120,652 W4MR (AA4RC, op) NC 162,922 NØUR Q MN 120,652 W4MR (AA4RC, op) UL NC 127,304 K7ØA (KØOB, op) MH MN 23,550 RØCL UL NC 24,890 N42Z MH MN 23,550 | | | | , | | Q | | - |
| NSCK A WI 187,580 NEEE UL SIV 105,110 WIBWI Q WI 117,916 K6SU MH UT 167,162 WHTZ UH IN 164,174 KH6LC ML PAC 181,106 WSYK ML II 87,727 Roanoke Versite 201,856 N9MT ML II 85,727 Roanoke Versite 108,8902 VDØT B SD<222,108 | W9RE | В | IN | 215,136 | | | PAC | |
| WISWI Q WI 117,916 KSU MH UT 167,162 N4TZ UH IN 164,174 KH6LC ML PAC 181,106 WE9V UL WI 197,872 WoYX S SCV 206,172 WSYK MH IL 85,772 Roanoke | N9CK | А | WI | - | | | SJV | - |
| NATZUHIN164,174KH6LCMLPAC181,106WE9VULWI197,872WGYXSSCV206,172W9YKMHIL85,772RoanokeNNN9MTMLIN35,154NAAFBNC201,856DakotaN9NBAVA148,902QNC101,898MØAT (NØKK, op)AMN186,916NLINUHNC176,292NØURQMN120,682W4MR (AAANC, op)ULNC185,422KTØAUHSD192,726W4RMMHVA207,002KTØAUHSD192,726W4RMMHVA207,002KTØAUHSD192,726W4RMMHVA207,002KTØAMHMN23,536WØUABCO227,304KØLEMLMN32,536WØUABCO234,890VA4OGWBMS215,136KØRIQCO78,560WF7TQTN105,742KØEUUHCO234,890V442ZUHTN105,742KØEUUHN22,906M4UWMLTN135,456WØDLEMLCO182,600Great LakesTN101,924AASBMHNM225,096M4UWMLTN135,567NP3AAPR160,688K9TMQOH177,3138 | | | | | | | | - |
| WE9V UL WI 197,872 WGYX S SCV 206,172 W9YK MH IL 85,772 Roanoke - | | | | | | | | |
| W9YK MH IL 85,722 Roanoke N9MT ML IN 35,154 N4AF B NC 201,856 Dakota N9MB A VC 148,902 W0ØT B SD 222,108 K4QPL Q NC 101,898 NØAT (NØKK, op) A MN 120,682 W4MRM (A44NC, op) UL NC 185,422 KTØA Q MN 120,682 W4MRM (A4ANC, op) UL NC 185,422 KTØA UH SD 192,726 W4RM (A4ANC, op) UL NA 207,002 KØIE MH MN 32,760 Rocky Mountain E 60,216 V40GW B MS 215,136 KØRI Q CO 78,560 W40GW B MS 215,136 KØRI Q CO 78,560 W477 Q TN 105,742 KØE ML CO 184,800 V4 | | | | | | | | |
| N9MT ML IN 35,154 N4AF B NC 201,856 Dakota N9MB A VA 148,902 WØØT B SD 222,108 KAQPL Q NC 11,898 NØAT (NØKK, op) A MN 186,916 N1LN UH NC 176,292 NØUR Q MN 120,682 W4MR (A44NC, op) UL NC 185,422 KTØA UH SD 192,726 W4MM ML VA 60,216 KØLE MH MN 23,760 Rocky Mountain E CO 227,304 KEØL ML MN 23,530 WØUA B CO 27,304 KEØL ML TN 105,742 KØEU UH CO 234,890 N40GW B MS 215,136 KØRL Q CO 78,560 N447Z UL TN 198,868 KK6MC UL NM | | | | - | | | | |
| Dakota N9NB A VA 148,902 WDØT B SD 222,108 K4QPL Q NC 101,898 MØAT (NØKK, op) A MN 186,916 NILN UH NC 176,292 NØUR Q MN 120,682 W4MR (AA4NC, op) UL NC 185,422 KTØR (KØOB, op) UL MN 124,758 K3MZ ML VA 60,216 KTØR (KØOB, op) UL MN 124,758 K3MZ ML VA 60,216 KTØR (KØOB, op) UL MN 32,506 Rocky Mountain K68,490 N422 DH TN 105,742 KØRI Q CO 78,560 VA4UW ML TN 135,456 WØDLE ML CO 182,600 Great Lakes UL TN 135,456 WØDLE ML CO 182,600 W1NN A OH | | | | - | | в | NC | 201.856 |
| WDØT B SD 222,108 K4QPL Q NC 101,898 NØAR (NØK, op) A MN 186,916 N1LN NH NC 176,292 NØUR Q MN 120,682 W4MR (AA4NC, op) UL NC 185,422 KTØA UH SD 192,726 W4RM ML NC 185,422 KTØA UH SD 192,726 W4RM ML NC 267,002 KTØK MH MN 32,560 Rocky Mountain K 227,304 KØJE ML MN 32,536 KØR Q 0 78,550 VF7T Q TN 105,742 KØEU UH ND 224,400 W4XZ UL TN 198,868 KK6MC UL NM 225,060 N42X UL TN 135,456 WØDLE ML CO 182,600 V1NN A OH 159,526 NP3A | Dakota | | | , - | | | | - |
| NØÅT (NØKK, op) A MN 186,916 N1LN UH NC 176,292 NØUR Q MN 120,682 W4MR (AA4Nc, op) UL NC 185,422 KTØA UH SD 192,726 W4RM MH VA 207,002 KKØR MH MN 184,758 K3MZ ML VA 60,216 KØJE MH MN 32,560 Rocky Mountain K KØJE KEØL ML MN 32,536 KØNU A WY 168,490 N40GW B MS 215,136 KØRI Q CO 78,560 WF7T Q TN 105,742 KØEU UL NM 225,096 N4UW ML TN 135,456 WØDLE ML CO 182,600 Great Lakes TN 135,456 WØDLE ML CO 184,260 W1NN A OH 159,526 NP3A | WDØT | В | SD | 222.108 | | | | |
| NØUR Q MN 120,682 W4MR (AA4NC, op) UL NC 185,422 KTØA UH SD 192,726 W4RM MH VA 207,002 KTØR (KØOB, op) UL MN 184,758 KSMZ ML VA 60,216 KØE MH MN 23,760 Rocky Mountain VA 60,217 KEØL MH MN 23,760 Rocky Mountain VA 168,490 N40GW B MS 215,136 KØRI Q CO 78,560 WF7T Q TN 105,742 KØEU UH CO 234,890 N42Z UH TN 198,868 KKMC UL NM 202,440 W4NV ML TN 135,456 WØDLE ML CO 182,600 Great Lakes NL TN 135,456 WØDLE ML CO 182,600 W1NN A OH 159,526 NP3A | | | | - | | | | - |
| KTØA UH SD 192,726 W4RM MH VA 207,002 KTØR (KØOB, op) UL MN 184,758 K3MZ ML VA 60,216 KØJE MH MN 23,760 Rocky Mountain K KEØL ML MN 23,760 Rocky Mountain K KEØL ML MN 23,750 KØRI Q CO 27,304 N40GW B MS 215,136 KØRI Q CO 78,560 N47T Q TN 105,742 KØEU UH CO 234,890 N4ZZ UL TN 101,924 AASB MH NM 225,096 Great Lakes TN 103,526 MØLE ML CO 182,600 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 157,700 N4PN UL GA 160,854 K9TK< | | | | | | | | |
| KTØR (KØOB, op) UL MN 184,758 K3MZ ML VA 60,216 KØJE MH MN 23,760 Rocky Mountain K K KEØL ML MN 32,730 KVU A WY 168,490 N4QGW B MS 215,136 KØRI Q CO 78,560 WF7T Q TN 105,742 KØEU UH CO 234,890 N42Z UH TN 101,924 AASB MH NM 225,096 N4UW ML TN 135,456 WøDLE ML CO 132,600 Great Lakes KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UH OH 65,702 N4BP UH | | | | 192,726 | W4RM | | VA | |
| KØJE MH MN 23,760 Rocky Mountain KEØL ML MN 32,536 WØUA B CO 227,304 Delta K7VU A WY 168,490 N4QGW B MS 215,136 KØRI Q CO 78,560 WF7T Q TN 105,742 KØEU UH CO 234,890 N4ZZ UH TN 198,868 K6MC UL NM 222,506 N4UW ML TN 135,456 WØDLE ML CO 182,600 Great Lakes DH TN 135,456 WØDLE ML CO 182,600 WINN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N40O Q GA 102,754 N8XE UL OH 67,562 N4BP UH SFL 202,520 N8BEDU < | KTØR (KØOB, op) | UL | MN | - | K3MZ | ML | VA | |
| Delta K7VU A WY 168,490 N4OGW B MS 215,136 KØRI Q CO 78,560 WF7T Q TN 105,742 KØEU UH CO 234,890 N4ZZ UH TN 105,742 KØEU UH CO 234,890 N4ZZ UL TN 101,924 AASB MH NM 202,440 W4NZ UL TN 101,924 AASB MH NM 225,096 N4WW ML TN 135,456 WØDLE ML CO 182,600 Great Lakes | | МН | MN | - | Rocky Mountain | | | |
| N4OGW B MS 215,136 KØRI Q CO 78,560 WF7T Q TN 105,742 KØEU UH CO 234,890 N4ZZ UH TN 198,868 KK6MC UL NM 202,440 W4NZ UL TN 101,924 ASB MH NM 202,440 W4W ML TN 135,456 WØDLE ML CO 182,600 Great Lakes Southeastern Southeastern NAQS B KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N40O Q GA 102,754 N8XE UH OH 67,562 N4BP UH SFL 202,520 K8BL UL OH 129,646 K4MM ML VI 202,354 W8EDU | KEØL | ML | MN | 32,536 | WØUA | В | со | 227,304 |
| WF7T Q TN 105,742 KØEU UH CO 23å,890 N4ZZ UH TN 198,868 KK6MC UL NM 202,440 W4NZ UL TN 101,924 AA5B MH NM 225,096 N4UW ML TN 135,456 WØDLE ML CO 182,600 Great Lakes Sutheastern Sutheastern NAQS B KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 175,720 N4PN UH GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 WBEDU ML OH 157,700 N4PN UL GA 160,854 K2YGM Q NI 213,642 K6LA B LAX 217,294 W2LK <td>Delta</td> <td></td> <td></td> <td></td> <td>K7VU</td> <td>А</td> <td>WY</td> <td>168,490</td> | Delta | | | | K7VU | А | WY | 168,490 |
| N4ZZ UH TN 198,868 KK6MC UL NM 202,440 W4NZ UL TN 101,924 AA5B MH NM 225,096 N4UW ML TN 135,456 WøDLE ML CO 182,600 Great Lakes Sutheastern Sutheastern NM 160,688 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UL OH 67,622 N4BP UL SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M ML SFL 45,428 BUSO ML OH 129,646 K4MM ML SFL 45,428 K2YGM Q NUI 16,352 N7IR Q< | N4OGW | В | MS | 215,136 | KØRI | Q | CO | 78,560 |
| W4NZ UL TN 101,924 AA5B MH NM 225,096 N4UW ML TN 135,456 WøDLE ML CO 182,600 Great Lakes Southeastern Southeastern N4QS B KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UH OH 67,562 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson V2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 160,854 | WF7T | Q | TN | 105,742 | KØEU | UH | CO | 234,890 |
| N4UW ML TN 135,456 WØDLE Southeastern ML CO 182,600 Great Lakes Southeastern Southeastern B KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N40O Q GA 102,754 N8XE UH OH 67,552 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson V2NT (N2NC, op) B NNJ 213,642 K6AQ K4ZI MA 160,854 K2YGM Q NLI 163,552 N7IR Q AZ 113,212 | N4ZZ | UH | TN | 198,868 | KK6MC | UL | NM | 202,440 |
| Great Lakes Southeastern N4QS B KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UH OH 67,562 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson V2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 | W4NZ | UL | TN | 101,924 | AA5B | MH | NM | 225,096 |
| N4QS B KY 173,138 K4BAI B GA 184,260 W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UH OH 67,662 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 | N4UW | ML | TN | 135,456 | WØDLE | ML | CO | 182,600 |
| W1NN A OH 159,526 NP3A A PR 160,688 K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UH OH 67,562 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 K14RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 124,832 KB7Q UL AZ 175,296 | Great Lakes | | | | Southeastern | | | |
| K9TM Q OH 117,588 N4OO Q GA 102,754 N8XE UH OH 67,562 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 < | N4QS | В | KY | 173,138 | K4BAI | В | GA | 184,260 |
| N8XE UH OH 67,562 N4BP UH SFL 202,520 K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern 145,422 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 160,657 WQ2N UL NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) | W1NN | A | ОН | 159,526 | NP3A | А | PR | 160,688 |
| K8BL UL OH 157,700 N4PN UL GA 160,854 KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 160,657 WQ2N UL NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 <td>K9TM</td> <td>Q</td> <td>ОН</td> <td>117,588</td> <td>N400</td> <td>Q</td> <td>GA</td> <td>102,754</td> | K9TM | Q | ОН | 117,588 | N400 | Q | GA | 102,754 |
| KT4RR MH KY 156,704 KP2M MH VI 202,354 W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 160,854 K2YGM UL NNJ 124,832 KB7Q UL AZ 175,296 M2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest VEST West Gulf S SB 121,512 NØ | N8XE | UH | ОН | 67,562 | N4BP | UH | SFL | 202,520 |
| W8EDU ML OH 129,646 K4MM ML SFL 45,428 Hudson Southwestern Southwestern Southwestern Item Southwestern Item Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 206,670 WQ2N UL NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest Vest Gulf Vest Gulf S SB 121,512 NØXR M KS 141,100 <td>K8BL</td> <td>UL</td> <td></td> <td></td> <td>N4PN</td> <td>UL</td> <td></td> <td>160,854</td> | K8BL | UL | | | N4PN | UL | | 160,854 |
| Hudson Southwestern N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 175,296 WQ2N UL NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest KS 141,100 K9K Gulf S SB 121,512 NØNI (AG9A, op) B IA 235,388 NSRZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 </td <td>KT4RR</td> <td>MH</td> <td>KY</td> <td>156,704</td> <td>KP2M</td> <td>MH</td> <td>VI</td> <td>202,354</td> | KT4RR | MH | KY | 156,704 | KP2M | MH | VI | 202,354 |
| N2NT (N2NC, op) B NNJ 213,642 K6LA B LAX 217,294 W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 206,670 WQ2N UL NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 West KS ENY 37,228 WA6KYR ML LAX 38,000 Midwest KS 141,100 WSFN A NTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) < | W8EDU | ML | ОН | 129,646 | K4MM | ML | SFL | 45,428 |
| W2LK A ENY 151,890 K6AQL (KØDI, op) A LAX 160,854 K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 103,212 W2VQ UH NNJ 130,974 K6LL UH AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest KS ENY 37,228 WA6KYR ML LAX 38,000 MØNI (AG9A, op) B IA 235,388 NSRZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR < | | | | | Southwestern | | | |
| K2YGM Q NLI 16,352 N7IR Q AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 113,212 W2VQ UH NNJ 130,974 K6LL UH AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest V Vest Gulf S SB 121,512 Midwest Vest Gulf Vest Gulf X 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 KSRT UH NTX 154,380 KØNE UL NE 127,654 N5DO UL WTX 154 | N2NT (N2NC, op) | В | | | | | | 217,294 |
| W2VQ UH NNJ 130,974 K6LL UH AZ 206,670 WQ2N UL NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest V KS ENY 37,228 WA6KYR ML LAX 38,000 NØNI (AG9A, op) B IA 235,388 NSRZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 KSRT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH <td></td> <td></td> <td>ENY</td> <td></td> <td>K6AQL (KØDI, op)</td> <td></td> <td>LAX</td> <td>160,854</td> | | | ENY | | K6AQL (KØDI, op) | | LAX | 160,854 |
| WQ2N UL NNJ 124,832 KB7Q UL AZ 175,296 AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest V K6FU S SB 121,512 Mówest Vest Gulf Vest Gulf Vest Gulf 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 KSRT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | Q | | | | Q | | |
| AB2DE MH NNJ 21,252 NX6T MH SDG 227,254 W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest K K West Gulf S SB 121,512 MØNI (AG9A, op) B IA 235,388 NSRZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 KSRT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | | | | | |
| W2DSC (WB2NVR, op) S ENY 37,228 WA6KYR ML LAX 38,000 Midwest W6RFU S SB 121,512 Midwest West Gulf West Gulf V 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 KSRT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | | | | | |
| Widwest West Gulf NØNI (AG9A, op) B IA 235,388 N5RZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 K5RT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | - | | | | |
| Midwest West Gulf NØNI (AG9A, op) B IA 235,388 N5RZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 K5RT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | W2DSC (WB2NVR, op) | S | ENY | 37,228 | WA6KYR | | | 38,000 |
| NØNI (AG9A, op) B IA 235,388 N5RZ B WTX 228,250 KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 K5RT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | N Alinhuun at | | | | | S | SB | 121,512 |
| KØVBU A KS 141,100 W8FN A NTX 159,858 WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 K5RT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | | | | | |
| WØEEE (NØAX, op) Q MO 124,666 AA5TB Q NTX 45,346 NØXR UH IA 151,558 K5RT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | , | | | | |
| NØXR UH IA 151,558 K5RT UH NTX 183,762 KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | | | | | |
| KØNE UL NE 127,654 N5DO UL WTX 154,380 KØWA MH KS 195,880 K5CM ML OK 181,604 | | | | | | | | |
| KØWA MH KS 195,880 K5CM ML OK 181,604 | - | | | | | | | |
| | - | | | - | | | | |
| רעווכ (יעעטו, טען גער גע גע גער גער גער גער גער גער גער ג | | | | | | | | |
| | עשטייט וישא, opj | 5 | NJ | 103,098 | NJAU | 5 | 217 | 20,332 |

Version 1.1 corrects the listings for Northwestern, Pacific, and Rocky Mountain Division winners

New Records

Three all-time records and 19 division records fell in the 2013 CW Sweepstakes.

<u>All-time</u>

Single-Operator Unlimited, High Power - KØEU, 234,890 points

(previous record: K6LL, 216,800 points (2002))

Single-Operator Unlimited, Low Power - WE9V, 197,872 points

(previous record: KE7X (@KØPP), 171,644 points (2012))

Multioperator, Low Power - WØDLE, 182,600 points

(previous record: NP4DX, 181,760 points (2011))

Division records

Atlantic — W2FU, Multioperator, High Power, 230,076 points

Canada — VE6EX, Single-Operator Unlimited, Low Power, 188,078 points; VY1EI, Multioperator, High Power, 210,986 points; VE4EA, Multioperator, Low Power, 137,924 points

Central — N9CK, Single-Operator, Low Power, 187,580 points

Dakota — NØAT (NØKK op.), Single-Operator Low Power, 186,916 points; KTØR (KØOB op.), Single-Operator Unlimited, Low Power, 184,758 points

Delta — N4UW, Multioperator, Low Power, 135,456 points

Great Lakes — W8EDU, Multioperator, Low Power, 129,646 points

Midwest — KØWA, Multioperator, High Power, 195,880 points

Northwestern — KK7S, Single-Operator Unlimited, Low Power, 185,754 points

Pacific — W7RN (N6TV op.), Single-Operator High Power, 242,360 points; K7GK, Single-Operator Low Power, 189,904 points; KH7XX, Single-Operator Unlimited, High Power, 218,788 points

Roanoke — W4MR (AA4NC op.), Single-Operator Unlimited, Low Power, 185,422

Rocky Mountain — KE7X, Single-Operator Unlimited, Low Power, 183,430 points

Southwestern — KB7Q, Single-Operator Unlimited, Low Power, 175,296 points; W6RFU, School, 121,512 points; W6RFU, School Club, 121,512 points

West Gulf — K5CM, Multioperator, Low Power, 181,604 points

Plaque Winners

Due to delays within the ARRL Contest Branch, plaque winners will be listed in a combined table in the Phone Sweepstakes Results.