



# ARRL International DX Contest CW 2021 Full Results

By *Mark Beckwith, N5OT* (n5ot@arrl.net)

## *The good, the bad, and the burrito*

If the 2021 ARRL International DX Contest is known for anything other than physical distancing or working from home, let it be for the guy who set an all-time 60-minute QSO record while juggling two radios 2,500 miles away and a burrito.

Dan, N6MJ (@ZF1A) crushed his former record (409) with a 425-QSO first hour piloting the station in Grand Cayman from the comfort of his California living room. “I knew I had a shot at a high-rate hour, and my best opportunity would be the first hour of the contest,” Dan says after the dust settled. “For this to happen, I would need 20 Meters to stay open the full hour. Based on recent testing, I knew this was not likely. The band generally has been closing hard at 0030Z.

“The first sign the contest might actually go OK was when 20 stayed open all the way until 0130Z. This allowed me to put 425 QSOs in the log in the first hour.” His rate meter topped out at 428 per hour shortly after.

To do that, he made 212 QSOs on 20 and 213 QSOs on 40. The feat leaves other operators in awe. “I want to be like N6MJ when I grow up,” jokes Dave, KM3T. “You 2BSIQ guys are gods.”

2BSIQ stands for two-band synchronized interleaved QSOs. At the pinnacle of single-operator performance, it often means holding two run frequencies on different bands simultaneously, while strictly adhering to rules forbidding more than one transmitted signal at any one time.

Overlapping openings on 20, 15, 10 and 40 allowed Dan to run high rates of interleaved QSOs for long stretches, and, after a single 90-minute break, broke the 8P5A record from 2016 with seven hours to go.

As for the burrito, Dan says his wife, Kelly, went out to get food but didn’t return in time, so, not wanting to waste the burrito, she fed it to him during the first hour. “It’s probably good it wasn’t a phone contest,” he says.



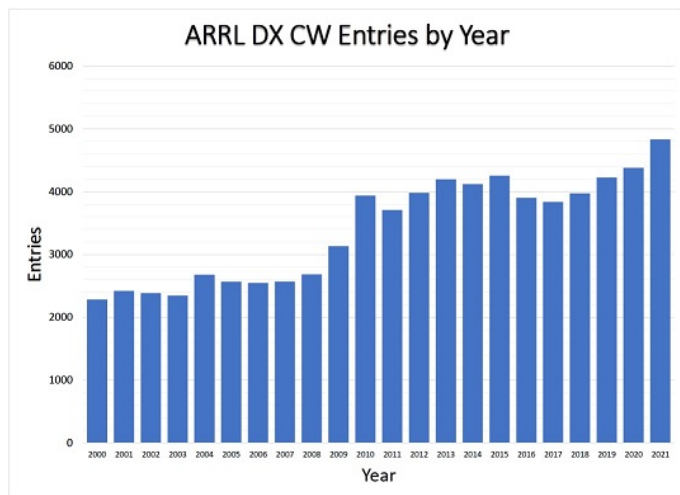
**ZF1A, minus Dan, N6MJ, who played this station from his home in California. [Daniel Craig, N6MJ, photo]**

## Your mileage may vary...

Propagation conditions were all over the map, and depended on where on the map you were. Some operators thought the conditions were great, others, not so much. “Conditions alternated between interesting and brutal,” says Dave, K5GN. “However, it was a great weekend to be on the air.”

Tomas, VK2CCC, and Allan, VK2GR, each praised the conditions, while Brian, VE7JKZ, (“Absolutely rotten conditions”) and Mykola, UT5UT, (“Extremely bad conditions”) were of the opposite opinion.

Still, a record 4,832 stations got on the air, a notable jump compared to 2020. Is it people staying at home with nothing to do but get on the radio? It will be interesting to see how this plays out after the pandemic.



In contrast to Dan’s modern 2BSIQ approach, Contest hall-of-famer John, W2GD, took a more traditional approach from P44W in Aruba. “One-radio contesting, 38 hours in the chair,” the legendary old-school operator says after the contest. It was good for top spot in Single Operator All Band High Power Unlimited and another record.

“My goal blended the 2020 P44W ARRL CW operation with the rates seen during last fall’s CQ Worldwide contest when there were no other stations active on Aruba. I thought a stretch goal would be about 6,500 contacts,” he says. When it was over, John logged 6,665 QSOs. “I was happy to be proven wrong.”

## Results in the U.S. and Canada

The ARRL International DX Contest is like two different competitions in one. In one, between stations in the United States and Canada, competitors must contact stations outside that region. Contacts with countries as defined in the rules count as multipliers. Your score is determined by multiplying your contacts by three (three points per QSO) and then by the number of countries you work. The trick is to strike a balance between making a lot of contacts and making those contacts with stations in a lot of different places. Those who master this balance earn the recognition and respect of their peers, and handsome awards from the American Radio Relay League. Listed below are the Top Ten entries in all the different categories in the event. For full access to the detailed scores of all 4832 entrants in all categories, you can find them on the ARRL website.

Entrants are divided into different groups — one for stations that run more than 150 watts (“High Power”), another for stations that run more than 5 watts but no

more than 150 watts (“Low Power”), and another for stations that run 5 watts or less (“QRP”). Those are further separated into operators using external assistance to learn where to tune in for other stations (“Unlimited”), and operators not using this kind of assistance. All these different categories present unique challenges. To make the Top Ten for any of these categories is a great accomplishment.

Stations that have more than one operator have separate categories. There is a category where only one signal is permitted at any time (“Multi-Single”), a category where two signals are permitted (“Multi-Two”), and the biggest stations with the biggest teams can enter a category where they can have a signal on all the different bands they want simultaneously (“Multi-Multi”). Because of the COVID pandemic, in 2021 the ARRL allowed multi-op entries where individuals could operate from physically distant stations as long as they were within 62 miles of the multi-op station.

Finally, for individual operators who wish to restrict their scores to only one band for the whole event, there is a separate category for each single band.

As you can see, that is a lot of different categories that stations and operators can enter. In some categories, there are tight races, in others there are winners who have set themselves apart by quite a distance from other competitors.

### U.S.A./VE High Power

In the US and Canada, perennial favorite Andy, N2NT, won the contest handily. “What an experience this was for an old timer like myself. About two weeks before the contest, I was offered use of Remote Ham Radio’s signature Jamesport station in Maine. I had always wanted to enter the world of remote contesting, but had never done it before.”

In the Unlimited category, it was another ubiquitous contester, Randy, K5ZD, who advocates using real-time online scoreboards for motivation. “I didn’t mean to operate so much. Almost quit on Saturday afternoon when Bud, AA3B, was way ahead of me. Thanks to COVID, I didn’t have anything else to do, so I got back on the radio. The rest is F1 on repeat while playing Words with Friends.” Worthy of note is how Rick, KI1G, snuck in between Bud and Randy for a near photo-finish!

### Single Operator, High Power

N2NT	4,210,320
K1ZZ	3,873,078
AA1K	3,148,068
N4AF	3,014,298
N1UR	2,845,650
NN7CW	2,780,484
VE3DZ	2,646,222
KØEJ	2,526,720
K5GN	2,500,746
W9RE	2,482,614

### Single Operator Unlimited, High Power

K5ZD	5,046,096
K1IG	5,026,509
AA3B	4,492,080
K3WW	4,028,400
N3RS	3,791,781
VE3EJ	3,646,377
VA2WA	3,494,196
VE3JM	3,432,660
N3RD	3,119,772
NY3A	3,102,102

## U.S.A./VE Low Power

For the Low Power single-ops, Terry, N4TZ, accomplished his long-time goal from his home station in snowy Indiana. When he uploaded his log, he thought to himself: “Will this be the year I finally win USA-VE Low Power?”

### Single Operator, Low Power

N4TZ	1,153,152
VO1HP	874,500
K7SV	851,694
K1VUT	840,354
WØUO	774,900
N8II	760,986
WJ9B	587,640
AC4G	351,936
K1HT	338,844
WB8JUI	313,605

### Single Operator Unlimited, Low Power

K9OM	1,328,634
W1QK	1,202,256
N2BA	1,092,543
K3AU (K2YWE, op)	1,039,830
W3KB	1,007,307
N9CO	934,812
WO1N	882,960
K1OA	803,580
K1TR	752,022
KM4SII	687,375

Later, he recounted a litany of antenna failures he overcame during the heat of the contest. Terry’s victory runs counter to those who say this contest is only won by stations further north or further east, and he did it without assistance.

In the Single Operator Low Power Unlimited category, Dick, K9OM, pulled out the victory from his location in Florida, besting Dan, W1QK, further north in Connecticut. Dick and Dan both thanked everyone for the contacts. “Tremendous activity and great signals made this a lot of fun!” Dick says. “Thanks for the contacts and fun on the radio,” said Dan.

## U.S.A./VE Multi-Operator

### Multioperator, Single Transmitter, High Power

K3JO	3,810,339
K1RX	3,402,243
N1MM	2,440,680
K3PH	2,294,718
K3AJ	2,236,860
W6YX	2,023,578
KY7M	2,007,048
W4IZT	1,760,058
K8LX	1,400,790
W2IRT	1,175,223

### Multioperator, Single Transmitter, Low Power

K1XM	1,703,241
N1SOH	353,628
W4TG	303,585
K1RQ	59,364
KA9VVQ	4,800

### Multioperator, Two Transmitter

W3LPL	7,629,777
W2FU	5,220,288
K1IR	4,822,794
K2AX	3,916,008
W9VW	2,825,550
N2AA	2,166,780
N7DX	1,562,781
NR4L	1,442,112
K3CCR	1,304,262
VE9BK	1,154,439

### Multioperator, Multitransmitter

N4WW	5,596,362
K1TTT	5,259,924
K2QMF	4,133,052
K1KI	3,943,368
KØRF	3,050,670
WD6T	2,500,956
K3TEJ	2,113,020
NJ3I	2,100,336
N1RR	1,442,016
NE3F	1,038,429

For the many operators who like to team up and work together in this contest, it was a great opportunity for determined competitors to try out a new playing field — the pandemic had made it so some of the usual players took new approaches, and many teams faced big challenges just getting all the team members moving in one direction. Perennials W3LPL and K3LR both opted to scale back their operations, making way for a wave of new energy to move up the ranks: K3JO won Multi-Single High Power, and K1XM won Multi-Single Low Power. A scaled-back W3LPL won Multi-operator, Two Transmitters, and Florida's N4WW won Multi-operator, Multi-transmitter.

### U.S.A./VE Single Bands

K3LR's station did not sit empty or silent, opting instead to support a couple of properly distanced operators on single bands. The Single Operator Single Band trophies go to (160 through 10) VY2ZM, W1UE, K3UA (at K3LR), K3LR (N2NC, op), N5AW and W4DD.

In particular, the effort that caught my eye was where Jeff, W4DD, dogged it out on 10 Meters all weekend to win the category with 83 QSOs in 30 countries. This

struck a chord for me — when I was a teenager in the 1970s I was the kid relegated to 10 Meters at the Multi-Multi myself. That teaches you a lot. I caught up with Jeff and realized his story was very much like mine. “The contest bug is a serious disease, and once you get it you will likely not rid yourself of it. Trips to W3LPL, W8JI, and the NQ4I superstations and the impressive stations on the covers of QST only fueled my interest. I knew I would never be able to construct a superstation like those, but figured I could be competitive on a single band and maybe even place in the Top Ten in a contest or two. Over the years I have continued to make incremental improvements to my station and each improvement has made me more competitive. If you combine improving your station or antenna, improving your skills, and the fickle nature of HF propagation, you may find your station plays better than you ever imagined.”

You can read more by W4DD in the Sidebar.

### Single Operator, 160 Meters

VY2ZM	84,816
K1WHS	29,256
KØDI	21,465
KM1R	19,650
W8RT (W8UVZ, op)	17,424
N1PGA	13,542
N2GC	12,600
W8WTS	9,240
W2VO	8,436
NIØG	7,242

### Single Operator, 80 Meters

W1UE	207,000
W3BGN	138,840
K3SV	68,034
K1EP	66,744
W1HI	22,185
K8GU	13,770
KØPJ	12,402
KC4WQ	9,486
KY9KYO	7,980
AC8CE	7,437

### Single Operator, 40 Meters

K3UA (@K3LR)	409,437
N2MF	351,624
K5TR	227,520

K2LE	172,806
KØEU	128,982
W4NZ	112,632
N2YO	106,260
KU8E	101,790
W3EF	100,872
NU4Y	32,670

#### Single Operator, 20 Meters

K3LR (N2NC, op)	650,445
K2SSS	431,136
N2IC	343,980
N7TU	271,005
W6YA	201,240
K1JB	171,039
W2UP	166,320
W9ILY	161,103
VE7UF (VE7JH, op)	152,958
N5JJ	119,355

#### Single Operator, 15 Meters

N5AW	127,680
WB4TDH	42,456
KX7M	37,668
KU2M	30,369
W4VQ	9,030
N6RM	6,864
K4TRH	4,608
VE5KS	2,829
AB4SF	2,448
WØBF	2,394

#### Single Operator, 10 Meters

W4DD	7,380
K4WI	6,552
WB2AMU	540
NØJK	297
KN4JN	216
N2JNR	84



Rick, EA4M enjoyed making 15-meter QSOs this year. [Ricardo Lopez, EA4M, photo]

### U.S.A./VE QRP

Of all the categories in the contest, the operators who choose to run 5 watts or less seem to be the most enthusiastic, certainly if measured per watt. This year's QRP Unassisted honors go to George, K2DM, besting the ever-present Frank, W6JTI, by a factor of two. George said, "the contest was all about tuning, tuning, tuning." On the other hand, living in California, Frank says, "Europe is really tough using QRP. I didn't make any 40m contacts with Europe until Sunday morning when I worked Ukraine on long path. What a surprise that was. Thanks to all who managed to copy my five-watt signal."

N4IJ took top honors in the QRP Unlimited category, successfully logging a whopping 187 multipliers.

#### Single Operator, QRP

K2DM	364,332
W6JTI	158,340
KM6Z	147,936
N7IR	140,844
NA1ME	108,288
N7RCS	96,375
W7YAQ	67,848
W6QU (W8QZA, op)	64,989
K2YAZ	61,401
KH6KG/W5	56,286

### Single Operator Unlimited, QRP

N4IJ	220,248
VE3CV	69,540
K8ZT	35,640
W4QO	30,660
VA3AMX	28,914
WB4OMM	26,280
VE3NZ	20,580
K1DJ	18,000
KZ3I	17,934
K2GMY	12,300

OM2VL	2,091,390
G5W (G3BJ, op)	2,011,023
9A3XV	1,794,651
TM2Y (F6BEE, op)	1,591,200

## Results Outside the US and Canada

### World High Power

To recap the descriptions at the top of this writeup: ZF1A operated by Dan, N6MJ, set the world record for World Single Operator All Band High Power Unassisted, crashing past 8P5A's 2016 record with seven hours to go in the contest. P44W, with John, W2GD, at the helm, set the bar for World Single Operator All Band High Power Unlimited. Extreme kudos to both of the fine operators for such strong efforts.

#### Single Operator, High Power

ZF1A (N6MJ, op)	8,257,080
KP2M (KT3Y, op)	6,128,640
FM5BH	5,053,128
NP4Z	4,834,140
CR6K (CT1ILT, op)	4,030,560
NP2X (K9VV, op)	2,925,384
IR2Q (IK2PFL, op)	2,874,564
G6XX (G4FAL, op)	1,930,932
LU2FE	1,624,662
WH7T	1,507,332

#### Single Operator Unlimited, High Power

P44W (W2GD, op)	6,584,409
EA8RM	2,804,025
KH7M (NA2U, op)	2,790,606
EA7X	2,587,230
ZM4T (ZL3IO, op)	2,269,164
HG3R	2,230,200

### World Low Power

Without spotting assistance, Yuri, N2TTA, operating from the Coamo Contest Club in Puerto Rico, managed to triple the score of second place Jose, TG9AOR, while missing the long-standing record set by Paul, K9PG, in 2004 from WP3R.

#### Single Operator, Low Power

NP3X (N2TTA, op)	3,627,900
TG9AOR	1,290,912
KH6CJJ	1,172,934
TI2OY	792,276
XE1CT	696,897
PY2EX	688,788
CO2RQ	682,479
S52NR	667,080
LW3DG	553,554
OA4DX	468,468

In the Unlimited arena, it was Matt, KC1XX, again winning it from HIØLT in Dominican Republic. "I love operating a February contest in flip-flops and shorts."

#### Single Operator Unlimited, Low Power

HIØLT (KC1XX, op)	4,099,200
HH2AA (KO7SS, op)	3,520,809
VP5M	2,967,840
XE2B	1,390,158
ZW8T (PS8HF, op)	1,319,835
EB7A	1,299,480
LU8MHL	962,991
EC4TA	673,710
OL5Y	433,719
XQ3WD	307,500

### World Multi-Operator

As in the results for the United States and Canada, things got really shook up this time around for the World Multiop stations. Caribbean blowtorch PJ2T, usually a

favorite to win Multi-Multi, could not accommodate operators at the station at Signal Point, so the team chose to enter Multi-Single via remote. They lost the top spot to the two operator duo of "Team AA" - Ken, KP4AA, and Will, AA4NC, at KP4AA's place in Puerto Rico. Watch out for those guys. It seems as though they may only just be getting started!

For Multi-Operator Low Power stations outside the USA and Canada, Stan, ZF9CW, configured his station for remote operation so he could team up with his contest-forged son Kevin, N5DX (ZF9DX), who was participating from home in the USA. Using the contest callsign ZF5T they beat all comers, narrowly missing the record. The race for 2<sup>nd</sup> place came down to less than 20 QSOs over 48 hours, with club station NP4DX besting another club station, FY5KE.

#### Multioperator, Single Transmitter, High Power

KP4AA	5,801,634
PJ2T	4,583,820
HP3SS	4,035,900
EA5RS	2,978,250
4A7S	2,879,904
OL3Z	2,041,788
OM7M	1,953,450
OK5Z	1,592,640
HG6N	1,450,836
YU5R	1,215,552

#### Multioperator, Single Transmitter, Low Power

ZF5T	5,439,360
NP4DX	4,761,804
FY5KE	4,744,224
KP2B	2,894,304
V31MA	2,523,360
TM6M	2,062,830
ED1R	827,070
E7CW	711,048
HB9ON	311,040
3Z1K	155,742

#### Multioperator, Two Transmitter

9A7A	2,574,684
LZ9W	2,516,850
DR4A	1,911,888
ZL3X	1,477,020
UA7K	1,386,630

HG7T	1,349,640
SK3W	916,674
RL3A	892,206
JH8YOH	851,472
PY1DX	190,281



The KH6LC Multi-Multi crew savoring a victory that has been a long time coming. Standing: Oliver W6NV, Gary W7EE. Sitting: Lloyd KH6LC (w/Memo), Rob NH6V [Lloyd Cabral, KH6LC, photo]

In a very interesting race so close it flipped in adjudication, the Radio Club Varazdin Contest Team, 9A7A, narrowly beat Bulgarian contest team LZ9W for the top spot in World Multi-Two Transmitter. The final result shows the two stations only 20 QSOs apart after the smoke cleared.

#### Multioperator, Multitransmitter

KH6LC	5,704,512
I19P	3,218,292
LN8W	1,245,990
JF1NHD	771,756
G4I1Y	409,920
IQ2BZ	127,395
PA6X	50,310
RT4F	5,952
YO3GNF	1,881

KH6LC landed a decisive victory in the World Multi-Multi category, a rare feat from Hawaii, for sure.

## World Single Bands

### Single Operator, 160 Meters

NP2J (K8RF, op)	119,955
S5ØC (S53RM, op)	44,226
DR5X (DL8LAS, op)	32,058
OK6W (OK1MU, op)	31,635
HGØR (HAØNAR, op)	25,812
OL1A	23,976
LY7Z	19,998
GU4YOX	17,760
OZ1LO	16,218
SN1W	13,692

### Single Operator, 80 Meters

XE2X	213,846
CO2AN	165,648
CO2JD	132,165
HB9FAP	116,718
9A1P	105,018
S51J	67,584
M5O (G3LET, op)	64,008
R7NW	49,536
DH8BQA	49,491
TM6X	48,216

### Single Operator, 40 Meters

D4Z (IK2NCJ, op)	298,245
9A5W	286,425
PS2T (PY2ZEA, op)	270,918
ZM1A (ZL3CW, op)	262,218
VK2IA	258,774
I12S (IK2QEI, op)	218,709
S51YI	208,395
CT1GFK	206,226
DK9PY	201,690
4O4T	187,245

### Single Operator, 20 Meters

PJ4A	441,969
ED8W	358,602
EI7M (EI6KX, op)	305,502
LX7I (DK9IP, op)	281,961
IR6T (IK1HJS, op)	280,722
PY2NY	274,173

S5ØK	267,801
HI3Y	265,002
IR4K (IZ4ZZB, op)	257,712
DMØA (DK3DM, op)	240,939

### Single Operator, 15 Meters

LU5FC	338,070
PX2A (PY2BK, op)	303,909
XQ1KZ	280,722
LW8DQ	250,455
HK3TU	208,329
LU8QT	204,966
LU1ICX	123,090
PY5ZHP	121,128
LU6UO	113,736
PT9DX	90,882

### Single Operator, 10 Meters

CE3CT	100,521
CE2ML (CX1EK, op)	67,824
LT7D	55,476
PY2RSA	35,178
YV1JGT	16,008
LU8DZJ	14,280
PU1NAF	1,134
LZ4TX	27

The competition amongst individual single operators who use only one band for 48 hours can get extremely intense. This year's winners for the World Single Operator Single Band categories are (160 through 10) NP2J (Dan, K8RF, op.), Jorge, XE2X, D4Z (Luca, IK2NCJ, op.), Marty, PJ4A, Jesus, LU5FC, and Roberto, CE3CT.

## World QRP

### Single Operator, QRP

HZ1TT	119,475
HI3T	92,907
CO2CW	91,260
JH1OGC	69,336
M7DX (MØUNN, op)	62,832
JH7UJU	49,593
CM3EFM	41,535



LZ2RS	39,798
EA7AAW	34,485
JQ1NGT	32,292

Ali, HZ1TT, managed a decisive victory in the World Single Operator QRP Unassisted race, surpassing the second place finisher Ted, HI3T, in Dominican Republic. Ted gave it a good shot, but Ali accomplished quite a feat, making more than 500 QSOs running only five watts from Saudi Arabia.

### Single Operator Unlimited, QRP

EF3O (EA3O, op)	116,235
F8AOF	72,312
EA5ICL	50,796
DL1EFW	32,757
JK1TCV	29,415
PA3CWN	24,252
JK7DWD	18,576
IW3ILM	16,875
YU1LM	10,608
PE2K	4,209

Among the Unlimited bunch, EF3O in Catalunya, with longtime contester Santiago, EA3O, at the key, took the top spot for World Single Operator QRP, logging 369 QSOs and 105 multipliers!

### A New Normal

Another ARRL International DX CW contest is in the books. As our world slowly gets back to normal, what's interesting is how the devastation of a global epidemic resulted in getting so many more people on the radio! We'll be back again next year Feb. 19-20 with more sunspots, and, we hope, even more entrants. See you down the log!

### Regional Leaders

Boxes list call sign, score, and class:

- M2 = Multioperator, Two Transmitter
- MM = Multioperator, Multitransmitter
- MSHP = Multioperator, Single Transmitter, High Power
- MSLP = Multioperator, Single Transmitter, Low Power
- SO-10 = Single Operator, 10 Meters
- SO-15 = Single Operator, 15 Meters

- SO-160 = Single Operator, 160 Meters
- SO-20 = Single Operator, 20 Meters
- SO-40 = Single Operator, 40 Meters
- SO-80 = Single Operator, 80 Meters
- SOHP = Single Operator, High Power
- SOLP = Single Operator, Low Power
- SOQRP = Single Operator, QRP
- SOUHP = Single Operator Unlimited, High Power
- SOULP = Single Operator Unlimited, Low Power
- SOUQRP = Single Operator Unlimited, QRP

### West Coast Region

(Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NT Sections)

N9RV	1,490,760	SOHP
N6TV	791,028	SOHP
N6AA	593,475	SOHP
WØYK	557,613	SOHP
K6NR	509,580	SOHP
WJ9B	587,640	SOLP
WN6K	192,642	SOLP
W7ZI	74,865	SOLP
WA6FGV	54,033	SOLP
W7XZ	51,480	SOLP
W6JTI	158,340	SOQRP
N7IR	140,844	SOQRP
W7YAQ	67,848	SOQRP
W6QU (W8QZA, op)	64,989	SOQRP
AD7L	8,280	SOQRP
ND7K (W4IX, op @N6WIN)	2,016,522	SOUHP
K6LL	1,028,265	SOUHP
W6PH	1,010,754	SOUHP
N6RV	907,830	SOUHP
KA6BIM	903,006	SOUHP
AK6A	338,742	SOULP
K7XC	233,160	SOULP
K6WSC	221,232	SOULP
W7OM	86,829	SOULP
K6PO	85,374	SOULP
K2GMY	12,300	SOUQRP
K9YC	2,496	SOUQRP

N7GP	1,470	SO-160	NØUR	260,982	SOLP
W7DRA	24	SO-160	NN5T	118,422	SOLP
			WØTG	118,011	SOLP
			WØPI	99,990	SOLP
VE7JH	25,155	SO-40			
VE7MR	1,386	SO-40	NDØC	45,924	SOQRP
KD7HU	882	SO-40	N3CI	12,636	SOQRP
N6RVI	864	SO-40	KEØTT	12,636	SOQRP
			WY7N	3,828	SOQRP
N7TU	271,005	SO-20	NO2D	1,200	SOQRP
W6YA	201,240	SO-20			
VE7UF (VE7JH, op)	152,958	SO-20	K5PI	1,193,940	SOUHP
W7QDM	58,401	SO-20	NØAX	1,139,013	SOUHP
WA7BNM	28,800	SO-20	NØAV	759,807	SOUHP
			N9GB	630,984	SOUHP
KX7M	37,668	SO-15	NØAT	493,935	SOUHP
N6RM	6,864	SO-15			
WØBF	2,394	SO-15	ACØW	370,557	SOULP
W6RKC	1,476	SO-15	KØUK	204,726	SOULP
WB7FJG	1,260	SO-15	AD1C	202,944	SOULP
			NT5V	197,616	SOULP
N2JNR	84	SO-10	KØEA	193,644	SOULP
W6YX	2,023,578	MSHP	WC7S	6,156	SOUQRP
KY7M	2,007,048	MSHP	KG5RXG	1,449	SOUQRP
W7VJ	444,258	MSHP			
W7AC	329,103	MSHP	NIØG	7,242	SO-160
VA7GI	19,656	MSHP	NGØC	27	SO-160
N7DX	1,562,781	M2	NØOK	7,020	SO-80
KT7E	969,264	M2	NGØT	1,980	SO-80
			KN5L	912	SO-80
WD6T	2,500,956	MM			
W7DX	702,261	MM	K5TR	227,520	SO-40
			KØEU	128,982	SO-40
<b>Midwest Region</b>			W9RM	17,343	SO-40
(Dakota, Midwest, Rocky Mountain			N9HDE	1,953	SO-40
and West Gulf Divisions; Manitoba					
and Saskatchewan Sections)			N2IC	343,980	SO-20
K5GN	2,500,746	SOHP	N5JJ	119,355	SO-20
N5FO	830,250	SOHP	NEØF (KØEU, op)	62,292	SO-20
N5XZ	758,880	SOHP	K5QR	58,590	SO-20
KØTT	720,108	SOHP	N5JR	44,802	SO-20
K5RX	719,805	SOHP			
			N5AW	127,680	SO-15
WØUO	774,900	SOLP	VE5KS	2,829	SO-15

NIØR	2,142	SO-15	W9AV	338,052	SOULP
K7BG	1,458	SO-15			
KØARM	270	SO-15	VE3CV	69,540	SOUQRP
			K8ZT	35,640	SOUQRP
NØJK	297	SO-10	VA3AMX	28,914	SOUQRP
			VE3NZ	20,580	SOUQRP
NØKE	67,575	MSHP	KU4A	8,118	SOUQRP
KA9VVQ	4,800	MSLP	W8RT (W8UVZ, op)	17,424	SO-160
			W8WTS	9,240	SO-160
W5NN	247,464	M2	WD8DSB	1,104	SO-160
KØRF	3,050,670	MM	K8GU	13,770	SO-80
			KØPJ	12,402	SO-80
<b>Central Region</b>			KC4WQ	9,486	SO-80
(Central and Great Lakes Divisions; Ontario East,			KY9KYO	7,980	SO-80
Ontario North, Ontario South,			AC8CE	7,437	SO-80
and Greater Toronto Area Sections)					
VE3DZ	2,646,222	SOHP	VE3PN	29,058	SO-40
W9RE	2,482,614	SOHP	K9CJ	24,585	SO-40
XL3A (VE3AT, op)	2,388,960	SOHP	W8LJB	19,125	SO-40
VE3VN	1,972,794	SOHP	K2UR	17,280	SO-40
NA8V	1,802,073	SOHP	K4IE	6,771	SO-40
N4TZ	1,153,152	SOLP	W9ILY	161,103	SO-20
WB8JUI	313,605	SOLP	W8WA	105,705	SO-20
WB8WKQ	217,140	SOLP	W8TWA	78,300	SO-20
N8VW	215,952	SOLP	W8GOC	28,836	SO-20
VE3TM	203,472	SOLP	N9DJ	19,740	SO-20
KM6Z	147,936	SOQRP	VE3DTI (VA3PCJ, op)	48	SO-15
K2YAZ	61,401	SOQRP			
N8LJ	29,475	SOQRP	K8LX	1,400,790	MSHP
W8VE	17,388	SOQRP	VE3YAA	280,368	MSHP
AB8DF	8,976	SOQRP			
			W9VW	2,825,550	M2
VE3EJ	3,646,377	SOUHP	NØIJ	490,122	M2
VE3JM	3,432,660	SOUHP			
K9CT	2,815,524	SOUHP	VE3IC	205,164	MM
N4SS (W5MX, op)	2,501,730	SOUHP			
K8CX	2,354,508	SOUHP			
			<b>Southeast Region</b>		
			(Delta, Roanoke and Southeastern Divisions)		
N9CO	934,812	SOULP	N4AF	3,014,298	SOHP
W9XT	614,880	SOULP	NN7CW	2,780,484	SOHP
KG9X	508,326	SOULP	KØEJ	2,526,720	SOHP
WE9R	423,225	SOULP	N4YDU	2,188,680	SOHP

K4ZW	1,798,131	SOHP	W4JKC	57,084	SO-20
			NW4V	23,265	SO-20
K7SV	851,694	SOLP	N3GD	23,055	SO-20
N8II	760,986	SOLP			
AC4G	351,936	SOLP	WB4TDH	42,456	SO-15
K8MR	226,629	SOLP	W4VQ	9,030	SO-15
WA5SOG	204,678	SOLP	K4TRH	4,608	SO-15
			AB4SF	2,448	SO-15
K2DM	364,332	SOQRP	W6DVS	390	SO-15
N7RCS	96,375	SOQRP			
KH6KG/W5	56,286	SOQRP	W4DD	7,380	SO-10
N5ER	51,300	SOQRP	K4WI	6,552	SO-10
W5VS	35,496	SOQRP	KN4JN	216	SO-10
W4NF	2,878,395	SOUHP	W4IZT	1,760,058	MSHP
K4RO	2,438,715	SOUHP	AD4ES	1,118,013	MSHP
KØZR	2,431,866	SOUHP			
N4UU	2,190,375	SOUHP	W4TG	303,585	MSLP
N6AR	2,090,880	SOUHP			
			NR4L	1,442,112	M2
K9OM	1,328,634	SOULP			
KM4SII	687,375	SOULP	N4WW	5,596,362	MM
AD8J	643,500	SOULP			
W4LT	255,528	SOULP			
W4SPR	244,881	SOULP			
			<b>Northeast Region</b>		
			(New England, Hudson and Atlantic Divisions;		
			Maritime and Quebec Sections)		
N4IJ	220,248	SOUQRP	N2NT	4,210,320	SOHP
W4QO	30,660	SOUQRP	K1ZZ	3,873,078	SOHP
WB4OMM	26,280	SOUQRP	AA1K	3,148,068	SOHP
AA2MA	816	SOUQRP	N1UR	2,845,650	SOHP
			KA1IS	2,361,873	SOHP
KØDI	21,465	SO-160			
			VO1HP	874,500	SOLP
K3SV	68,034	SO-80	K1VUT	840,354	SOLP
K1EEE	5,964	SO-80	K1HT	338,844	SOLP
N4OO	4,860	SO-80	VE1RSM	302,526	SOLP
K4ESE	3,024	SO-80	N2EM	286,161	SOLP
W4NZ	112,632	SO-40	NA1ME	108,288	SOQRP
N2YO	106,260	SO-40	KK1W	49,632	SOQRP
KU8E	101,790	SO-40	W7LG	31,317	SOQRP
NU4Y	32,670	SO-40	AC2YD	23,391	SOQRP
N8KR	27,825	SO-40	N3HCN	18,492	SOQRP
NE8P	63,960	SO-20	K5ZD (AK1W, op)	5,046,096	SOUHP
NK3U	62,568	SO-20	KI1G	5,026,509	SOUHP

AA3B	4,492,080	SOUHP	W2UP	166,320	SO-20
K3WW	4,028,400	SOUHP	K3GW	102,828	SO-20
N3RS	3,791,781	SOUHP			
			KU2M	30,369	SO-15
W1QK	1,202,256	SOULP	W3EH	684	SO-15
N2BA	1,092,543	SOULP	KQ2RP	126	SO-15
K3AU (K2YWE, op)	1,039,830	SOULP	VE2NCG	12	SO-15
W3KB	1,007,307	SOULP	K2MFW	3	SO-15
WO1N	882,960	SOULP			
			WB2AMU	540	SO-10
K1DJ	18,000	SOUQRP			
KZ3I	17,934	SOUQRP	K3JO	3,810,339	MSHP
KW2A	11,100	SOUQRP	K1RX	3,402,243	MSHP
WA2NYY	3,654	SOUQRP	N1MM	2,440,680	MSHP
W1IG	2,400	SOUQRP	K3PH	2,294,718	MSHP
			K3AJ	2,236,860	MSHP
VY2ZM	84,816	SO-160			
K1WHS	29,256	SO-160	K1XM	1,703,241	MSLP
KM1R	19,650	SO-160	N1SOH	353,628	MSLP
N1PGA	13,542	SO-160	K1RQ	59,364	MSLP
N2GC	12,600	SO-160			
			W3LPL	7,629,777	M2
W1UE	207,000	SO-80	W2FU	5,220,288	M2
W3BGN	138,840	SO-80	K1IR	4,822,794	M2
K1EP	66,744	SO-80	K2AX	3,916,008	M2
W1HI	22,185	SO-80	N2AA	2,166,780	M2
K3UA (@K3LR)	409,437	SO-40	K1TTT	5,259,924	MM
N2MF	351,624	SO-40	K2QMF	4,133,052	MM
K2LE	172,806	SO-40	K1KI	3,943,368	MM
W3EF	100,872	SO-40	K3TEJ	2,113,020	MM
WA3FAE	25,440	SO-40	NJ3I	2,100,336	MM
K3LR (N2NC, op)	650,445	SO-20			
K2SSS	431,136	SO-20			
K1JB	171,039	SO-20			

## Continental Winners

### Africa

Single Operator, High Power	ZD7BG	302,706
Single Operator, Low Power	EA8BQM	407,217
Single Operator Unlimited, High Power	EA8RM	2,804,025
Single Operator Unlimited, Low Power	EA8OM	245,220
Single Operator, 40 Meters	D4Z (IK2NCJ, op)	298,245
Single Operator, 20 Meters	ED8W	358,602
Single Operator, 15 Meters	5Z4VJ	20,412

### Asia

Single Operator, High Power	JN2AMD	313,938
Single Operator, Low Power	JH1EAQ	298,224
Single Operator, QRP	HZ1TT	119,475
Single Operator Unlimited, High Power	P3X (5B4AMM, op)	1,215,687
Single Operator Unlimited, Low Power	P3AA (RN3QO, op)	267,330
Single Operator Unlimited, QRP	JK1TCV	29,415
Single Operator, 160 Meters	JAØQNJ	2,262
Single Operator, 80 Meters	JRØBQD	1,920
Single Operator, 40 Meters	JH7XMO	44,226
Single Operator, 20 Meters	RTØF	162,030
Single Operator, 15 Meters	JH7XGN	14,256
Multioperator, Single Transmitter, High Power	JH4UYB	936,468
Multioperator, Single Transmitter, Low Power	JK2VOC	48,888
Multioperator, Two Transmitter	JH8YOH	851,472
Multioperator, Multitransmitter	JF1NHD	771,756

### Europe

Single Operator, High Power	CR6K (CT1ILT, op)	4,030,560
Single Operator, Low Power	S52NR	667,080
Single Operator, QRP	M7DX (MØUNN, op)	62,832
Single Operator Unlimited, High Power	EA7X	2,587,230
Single Operator Unlimited, Low Power	EB7A	1,299,480
Single Operator Unlimited, QRP	EF3O (EA3O, op)	116,235
Single Operator, 160 Meters	S5ØC (S53RM, op)	44,226
Single Operator, 80 Meters	HB9FAP	116,718
Single Operator, 40 Meters	9A5W	286,425
Single Operator, 20 Meters	EI7M (EI6KX, op)	305,502
Single Operator, 15 Meters	ZB2TT	65,736
Single Operator, 10 Meters	LZ4TX	27
Multioperator, Single Transmitter, High	EA5RS	2,978,250

## Power

Multioperator, Single Transmitter, Low Power	TM6M	2,062,830
Multioperator, Two Transmitter	9A7A	2,574,684
Multioperator, Multitransmitter	II9P	3,218,292

## North America

Single Operator, High Power	ZF1A (N6MJ, op)	8,257,080
Single Operator, Low Power	NP3X (N2TTA, op)	3,627,900
Single Operator, QRP	HI3T	92,907
Single Operator Unlimited, High Power	WP3R	173,160
Single Operator Unlimited, Low Power	HIØLT (KC1XX, op)	4,099,200
Single Operator, 160 Meters	NP2J (K8RF, op)	119,955
Single Operator, 80 Meters	XE2X	213,846
Single Operator, 40 Meters	CO6RD	160,710
Single Operator, 20 Meters	HI3Y	265,002
Single Operator, 15 Meters	NP3YL	31,350
Multioperator, Single Transmitter, High Power	KP4AA	5,801,634
Multioperator, Single Transmitter, Low Power	ZF5T	5,439,360

## Oceania

Single Operator, High Power	WH7T	1,507,332
Single Operator, Low Power	KH6CJJ	1,172,934
Single Operator, QRP	N7ET/DU7	6,786
Single Operator Unlimited, High Power	KH7M (NA2U, op)	2,790,606
Single Operator Unlimited, Low Power	AH6KO	118,773
Single Operator Unlimited, QRP	YC2VOC	540
Single Operator, 160 Meters	ZL3CW	2,340
Single Operator, 80 Meters	VK2CCC	17,316
Single Operator, 40 Meters	ZM1A (ZL3CW, op)	262,218
Single Operator, 20 Meters	ZM1M	58,650
Single Operator, 15 Meters	VK1FOC	71,346
Multioperator, Single Transmitter, Low Power	VK3GK	64,548
Multioperator, Two Transmitter	ZL3X	1,477,020
Multioperator, Multitransmitter	KH6LC	5,704,512

## South America

Single Operator, High Power	LU2FE	1,624,662
Single Operator, Low Power	PY2EX	688,788
Single Operator Unlimited, High Power	P44W (W2GD, op)	6,584,409
Single Operator Unlimited, Low Power	ZW8T (PS8HF, op)	1,319,835
Single Operator, 160 Meters	PP5JR	75
Single Operator, 80 Meters	CW5W (CX6VM, op)	26,445

Single Operator, 40 Meters	PS2T (PY2ZEA, op)	270,918
Single Operator, 20 Meters	PJ4A	441,969
Single Operator, 15 Meters	LU5FC	338,424
Single Operator, 10 Meters	CE3CT	100,521
Multioperator, Single Transmitter, High Power	PJ2T	4,583,820
Multioperator, Single Transmitter, Low Power	FY5KE	4,744,224
Multioperator, Two Transmitter	PY1DX	190,281



## Division Winners

### Single Operator, High Power

Atlantic	AA1K	3,149,916
Central	W9RE	2,484,540
Dakota	KØTT	720,831
Delta	KØEJ	2,528,640
Great Lakes	NA8V	1,806,558
Hudson	WW2Y	1,935,753
Midwest	KTØK	349,323
New England	N2NT	4,212,306
Northwestern	N9RV	1,491,498
Pacific	N6TV	791,028
Roanoke	N4AF	3,028,410
Rocky Mountain	N5FO	830,865
Southeastern	NN7CW	2,782,380
Southwestern	N6AA	593,475
West Gulf	K5GN	2,501,724
Canada	VE3DZ	2,646,222

### Single Operator, Low Power

Atlantic	N2EM	286,161
Central	N4TZ	1,154,010
Dakota	NØUR	260,982
Delta	AC4G	352,512
Great Lakes	WB8JUI	313,605
Hudson	W2AAB	180,090
Midwest	KØHX	43,680
New England	K1VUT	843,759
Northwestern	WJ9B	588,138
Pacific	W7XZ	51,480
Roanoke	K7SV	851,694
Rocky Mountain	NN7A	48,585
Southeastern	K8MR	226,629
Southwestern	WN6K	192,642
West Gulf	WØUO	774,900
Canada	VO1HP	875,160

### Single Operator, QRP

Atlantic	W7LG	31,317
Dakota	NDØC	45,924
Delta	KH6KG/W5	56,286
Great Lakes	KM6Z	147,936
Hudson	AC2YD	23,391
Midwest	KKØU	1,200
New England	NA1ME	108,288

Northwestern	W7YAQ	67,848
Pacific	W6JTI	158,340
Roanoke	W5VS	35,496
Rocky Mountain	WY7N	3,828
Southeastern	K2DM	364,332
Southwestern	N7IR	140,844
West Gulf	N3CI	12,636
Canada	VE3DQN	6,840

### Single Operator Unlimited, High Power

Atlantic	AA3B	4,494,528
Central	K9CT	2,816,715
Dakota	NØAT	494,598
Delta	K4RO	2,440,917
Great Lakes	N4SS (W5MX, op)	2,502,720
Hudson	N2RC	2,470,800
Midwest	NØAX	1,139,826
New England	K5ZD (AK1W, op)	5,048,604
Northwestern	KA6BIM	903,006
Pacific	K2RD	625,416
Roanoke	W4NF	2,880,657
Rocky Mountain	KEØUI	302,484
Southeastern	N4UU	2,192,145
Southwestern	ND7K (W4IX, op @N6WIN)	2,017,485
West Gulf	K5PI	1,194,744
Canada	VE3EJ	3,646,377

### Single Operator Unlimited, Low Power

Atlantic	K3AU (K2YWE, op)	1,039,830
Central	N9CO	935,640
Dakota	ACØW	370,557
Delta	W3TB	125,517
Great Lakes	K4YJ	184,194
Hudson	N2BA	1,093,476
Midwest	AAØAI	146,448
New England	W1QK	1,203,048
Northwestern	AK6A	338,742
Pacific	K7XC	233,160
Roanoke	KM4SII	687,375
Rocky Mountain	KØUK	204,726
Southeastern	K9OM	1,329,627
Southwestern	K6WSC	221,232
West Gulf	NT5V	197,616
Canada	VA3FF	298,107

**Single Operator Unlimited, QRP**

Atlantic	KZ3I	17,934
Central	KØCD	1,140
Great Lakes	K8ZT	35,640
Hudson	WA2NYY	3,654
New England	K1DJ	18,000
Pacific	K2GMY	12,300
Roanoke	N4IJ	220,248
Rocky Mountain	WC7S	6,156
Southeastern	W4QO	30,660
West Gulf	KG5RXG	1,449
Canada	VE3CV	69,540

**Single Operator, 160 Meters**

Atlantic	W2VO	8,436
Central	WD8DSB	1,104
Dakota	NGØC	36
Great Lakes	W8RT (W8UVZ, op)	17,424
Hudson	N2GC	12,600
Midwest	NIØG	7,242
New England	K1WHS	29,256
Northwestern	W7DRA	24
Southeastern	KØDI	21,465
Southwestern	N7GP	1,470
Canada	VY2ZM	84,816

**Single Operator, 80 Meters**

Atlantic	W3BGN	139,035
Central	KØPJ	12,402
Dakota	NØOK	7,020
Great Lakes	K8GU	13,770
New England	W1UE	207,207
Roanoke	K1EEE	5,964
Rocky Mountain	NGØT	1,980
Southeastern	K3SV	68,208
West Gulf	KN5L	912
Canada	VE3ADQ	2,046

**Single Operator, 40 Meters**

Atlantic	K3UA (@K3LR)	409,728
Central	K9CJ	24,585
Delta	W4NZ	112,632
Great Lakes	W8LJB	19,125
Midwest	N9HDE	1,953
New England	K2LE	173,055
Northwestern	KD7HU	882

Roanoke	N2YO	106,260
Rocky Mountain	KØEU	128,982
Southeastern	KU8E	102,024
Southwestern	N6RVI	864
West Gulf	K5TR	227,520
Canada	VE3PN	29,058

**Single Operator, 20 Meters**

Atlantic	K3LR (N2NC, op)	650,754
Central	W9ILY	161,352
Dakota	W7UT	35,502
Great Lakes	W8WA	105,705
Midwest	WNØL	6,834
New England	K1JB	171,258
Northwestern	W7QDM	58,401
Pacific	K7ACZ	24,090
Roanoke	NK3U	62,568
Rocky Mountain	N2IC	344,250
Southeastern	NE8P	63,960
Southwestern	N7TU	271,272
West Gulf	N5JJ	119,574
Canada	VE7UF (VE7JH, op)	152,958

**Single Operator, 15 Meters**

Atlantic	K2MFW	3
Dakota	K7BG	1,458
Delta	K4TRH	4,608
Hudson	KU2M	30,369
Midwest	NIØR	2,142
Northwestern	WB7FJG	1,260
Pacific	KX7M	37,668
Roanoke	AB4SF	2,448
Southeastern	WB4TDH	42,456
Southwestern	N6RM	6,864
West Gulf	N5AW	127,680
Canada	VE5KS	2,829

**Single Operator, 10 Meters**

Hudson	WB2AMU	540
Midwest	NØJK	297
Southeastern	W4DD	7,380
Southwestern	N2JNR	84

**Multioperator, Single Transmitter, High Power**

Atlantic	K3PH	2,295,804
Great Lakes	K8LX	1,401,585

Hudson	W2IRT	1,176,981
New England	K3JO	3,813,732
Northwestern	W7VJ	444,258
Pacific	W6YX	2,024,445
Rocky Mountain	NØKE	67,575
Southeastern	W4IZT	1,760,058
Southwestern	KY7M	2,007,048
Canada	VE3YAA	280,896

#### **Multioperator, Single Transmitter, Low Power**

Dakota	KA9VVQ	4,800
Hudson	K1RQ	59,364
New England	K1XM	1,704,192
Roanoke	W4TG	304,140

#### **Multioperator, Two Transmitter**

Atlantic	W3LPL	7,633,944
Central	W9VW	2,826,600
Delta	NR4L	1,443,000
Hudson	N2AA	2,167,785
New England	K1IR	4,826,412
Northwestern	N7DX	1,563,540
West Gulf	W5NN	247,464
Canada	VE9BK	1,155,198

#### **Multioperator, Multitransmitter**

Atlantic	K3TEJ	2,113,020
Hudson	K2QMF	4,136,616
New England	K1TTT	5,263,803
Northwestern	W7DX	702,900
Pacific	WD6T	2,500,956
Rocky Mountain	KØRF	3,051,765
Southeastern	N4WW	5,600,439
Canada	VE3IC	205,164

### **Soapbox – N5OT's Choice**

F8AOF - Thank you for taking the time to decode my signals in the noise.

EA4CWW - I know it wasn't easy to pick me up from the noise, so I am very grateful to all those who were able to do so :)

G4BUO - The weekend was a real struggle. You'd call a weak W and then he'd get even weaker when he replied!

I2WIJ - Lots of fun even with poor antennas!

IZ5OVP - Grazie.

IZ8GUQ - It is always a thrill to hear American stations.

JA8RWU - Many thanks for hearing me and wonderful ears!

JJ1BDX - The conditions were weak, but I could still work the USA from Japan with a whip antenna and that was nice!

JJ3TBB - Antenna is a ground plane, power output is 50 watts.

JR1NHD - Always fun to work my friends in W/VE.

K5TIA - Lots of superstations and super-operators with great ears.

KB3LYB - First CW contest. Lot of fun.

KC6ZBE - Been ready for this one for awhile.

KE0TT - Thanks for your copy of my QRP signals on your end.

KF4AV - Made over 70 QSOs with my rooftop vertical and my 4 watts.

KF4YEY - First ARRL DX entry.

KS7T - It never fails. If it ain't Mr. Murphy spoiling a contest, it's a propagation disturbance and that makes it a challenge.

N0JK - Nice to see 10 Meters open Saturday. Antenna was a CB mag-mount vertical on my patio grill lid. When 10 is open, even a simple set up can make some contacts.

N1AM - always enjoyable

N6HI - GO ARIZONA OUTLAWS!

N6TV - The Elecraft K4D and KPA1500 have way more stamina than I do these days.

N7WY - Family chaos, bad weather.

OE2S - Enjoyed the pileups.

PA0M - Thanks all for fun in this great contest.

PA3FGA - It is always a pleasure to work across the big pond and contact operators with "good ears".

PE1FJN - it was fun to work the USA and Canadian DX with my relatively small station.

PE2K - All QSO's made with 5 watt and a dipole antenna.

SM6TKG - Managed to achieve target to make one more QSO than last year, and a slightly higher score.

SP2WDW - I can't blame it all on the aurora, it's time for a proper antenna!

TK5MH - Special thanks to all who called me.

VA7UNX - This was a fun contest. The best part: working Japan with \*one watt\*!

VE2HEW - Happy to see 10M open for a bit and snagged some new ones there.

W0ZW - Lots of signals on all bands. Great start to Cycle 25.

W1AST - Wish I had more time to spend contesting!

W3JBS - The highlight of the weekend was working two KH6's back to back from the East Coast, on QRP.

W5SJ - Great fun in this contest! Had many surprises!

W6QU - I have been doing so much digital in the last 6 months, it felt good to get the paddle back in my hand!

WB8YHD - My first ARRL CW DX contest. Hope to do more.

WE6Z - Excellent conditions. Best I've heard in years. I had a blast!

ZD7BG - The pile-ups were a challenge but enjoyed the contest. Look forward to next year.