

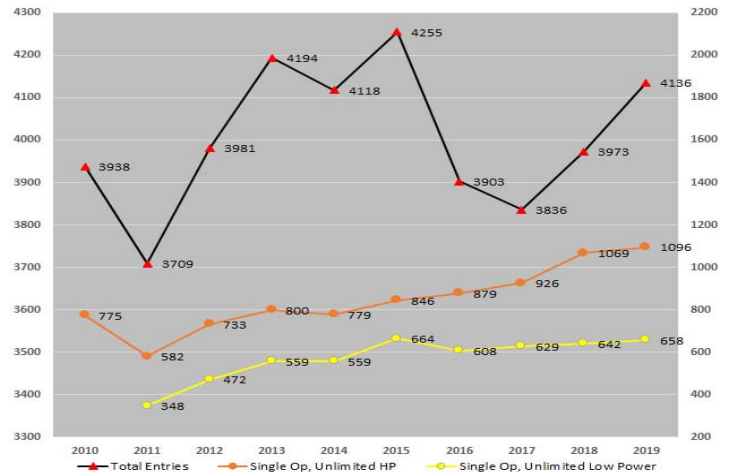


# ARRL International DX Contest - CW 2019 Full Results

By Charlie Carroll, K1XX (k1xx@k1xx.com)

*In the introduction to last year's ARRL DX CW Contest CW results, I quipped, "Are we there yet?" to wonder whether we'd hit the bottom of the solar cycle.*

One look at results for 2019 suggests the answer is a resounding no! For this year, February 16-17, 2019, even my perpetual glass-half-full optimism took another drubbing with pronounced decreases in both 10- and 15-meter activity as the sun's activity continues to bounce around near the bottom of the solar cycle. I spent quite a bit of time on 160 & 80 at a serious east coast Multi-Multi Station. Both nights the noise levels were down, and signal levels were up. It might be said that for this year the high points were the low bands. With the decline in sunspot numbers, supposedly so goes the activity... Well, not really. The last 10 years have averaged about 4,000 logs per year. Up a little in the years with more sunspots and down a bit without.



A deeper dive into the log data found a few interesting data points. This year saw another jump in the number of logs, with the increase evenly split between DX and US/VE entries. Unfortunately, the total number of US/VE contenders continue to be outpaced by DX entries, roughly 54 to 46 percent.

With the declining solar conditions comes the expected shift of mono-band entries from 10 and 15 meters to 20. On the other hand, the low bands seem to contribute the same number of logs year after year. The biggest shift in logs submitted has been the movement to the Unlimited categories.

## So, Who Won?

So even with good low-band conditions, new records this year were on the skimpy side. Five stations did manage to crack the record books. When you look at the data, you'll see a certain amount of dedication to create a new record during poor conditions while running low power.



Dan, N6MJ; Tim, N6WIN, and John, K6AM, at ZF1A. [John, K6AM, photo]

## On the DX Side

Once again topping the list for SOHP is 8P5A operated by W2SC. This makes three out of the last four years in this slot for Tom. Last year's winner, TI7W, operated by Nate, N4YDU, had to settle for a second somewhat behind Tom. In last year's report, I commented on Nate having more than 1,000 QSOs on 80 meters. Well, Tom followed suit again this year with another 1,000-plus QSO effort on 80. It's interesting to see the number of low-band QSOs grow over the last few years. In 2016, 6Y2T (VE3DZ, op.) had just more than 2,000 QSOs on the low bands. This year, Tom logged more than 3,300 QSOs on the same bands. With conditions, operator skill and SO2R, guys just keep pushing the envelope. Unfortunately, other good operators, such as KH7XS at KH7B, have to struggle with a decided geographical disadvantage on the low bands. I'm sure Bill is eagerly awaiting the return of kilo-QSO counts on 10 meters.

### Single Operator, High Power

8P5A	6,301,680
TI7W (N4YDU, op)	5,850,948
KH7B (KH7XS, op)	4,288,641
TO8T (K8BKM, op)	3,790,983
EA8RM	3,113,019
PS2T (PY2NDX, op)	2,913,408
KH7M (NA2U, op)	2,758,650
DL5AXX	2,259,750
G6XX (G4FAL, op)	2,241,540
KH6TU (AD6E, op)	2,133,249

This year, the low-power category features a three-peat by K5GO operating ZF9CW. Stan took advantage of a good geographical location relative to the US and excelled on 160 and 80 meters; he was only about 100 QSOs behind 8P5A on each of those bands. On the other hand, Wil, AA4NC, operating in San Salvador, had to fight over a much longer distance to make QSOs with 100 watts and low-band wires.

Call	Score	Category
RI1ANL (RW6ACM, op)	143,550	SOLP
JK7DWD	13,965	SOUQRP
KH6DD (KØAV, op)	1,485	SOUQRP
RAØLQ/MM	1,176	SO-20
JA5FDJ	250,809	MSLP

### Single Operator, Low Power

ZF9CW	4,096,863
YS1/AA4NC	3,374,280
VP9/W6PH	3,240,900
V4/W3UL	1,188,792
CO2RQ	1,140,156
HI3/WJ2O	1,034,520
IR2Q (IK2PFL, op)	1,022,574
OA4SS	965,034
HC1DW (WØOR, op)	886,788
KH6CJJ	842,886

Kurt, W6PH, decided to once again fight it out from Bermuda. As Kurt well knows, having operated from Bermuda through 4 or 5 sunspot cycles, this time of the cycle is all about good low band conditions. Ten is definitely dead while 15 might also remain closed too.

### Single Operator, QRP

IZ3NVR	258,390
HB9BMY	198,528
DK7HA	195,456
CO2CW	75,555
G3L (G3LHJ, op)	69,660
LZ1YE	68,040
LZ2RS	52,320
EA7AAW	44,928
DF5RF	36,225
GM4M (GM4UBJ, op)	36,018

Moving to the Single Operator, High Power Unlimited category, Felipe, NP4Z, bested last year's winner Alan, N3AD, operating V26M. Coming in third was YCCC member, Dennis, W1UE, who escaped the cold of New England for the warmer waters of the Roatan Island station, HQ9X, located just off the coast of northern Honduras.

### Single Operator Unlimited, High Power

NP4Z	4,152,240
V26M (N3AD, op)	3,945,087
HQ9X	3,799,602
DL6FBL	2,731,560
G5W (G3BJ, op)	2,700,813
LX7I (DL5SE, op)	2,641,152
F4DXW	2,307,483
EA6FO (EA3AIR, op)	2,232,750
IR1G (IZ1LBG, op)	2,198,340
IR6T (IK1HJS, op)	2,004,804

Felipe capitalized on his closer proximity to the U.S. mainland by posting significantly higher low-band QSO totals. The absence of sunspots almost eliminated 10 meters as a factor while the QSO differences on 15 meters, for the more distant V26M, were not enough to push V26M ahead of NP4Z. Expect to see big scores from operators on Roatan Island in the future as the station is built out and sunspots improve. Only two stations from last year managed to crack the Top Ten LX7I (op, DL5SE) and EA6FO (op, EA3AIR).

#### Single Operator Unlimited, Low Power

P4ØW (W2GD, op)	3,386,700
HH2AA (KO7SS, op)	2,757,915
G4R (YO4RDW, op)	811,638
PC3T	803,400
EC4TA	800,310
OL5Y	722,967
FM/DK9PY	700,326
MI5I (GIØRQK, op)	671,802
UZ3A (UX1AA, op)	619,563
SN7O (SP7IVO, op)	531,648

In the Single Operator, Low Power Unlimited category, P4ØW, operated by John, W2GD, took first place for a three-peat, 2017, 2018, 2019. Not much more can be said. New record or not, John continues to outpace the competition from his station on Aruba. With almost 1,000 QSOs on 40 alone and another 1000 on 160 and 80, the low bands rocked everywhere. The only other low-power score greater than 2 million points was submitted by Bill, KO7SS who operated HH2AA remotely – amazing for a remote, solar-powered, battery station! Two other stations from last year, EC4TA and UZ3A managed to regain Top Ten positions in the low-power category.

#### Single Operator Unlimited, QRP

OK2FD	194,313
YO3LW	71,484
IK2XDE	63,492
MM3AWD	52,851
CT1DBS	39,039
EA1AER	30,672
UXØLL	23,598
EC5CR	21,000
IW3ILM	16,920
YU1LM	15,552

#### Single Operator, 160 Meters

NP2J (K8RF, op)	142,506
G3TXF	69,615
SN1W	68,061
CO2AN	65,025
HGØR (HAØNAR, op)	53,856
MIØSLE	43,215
DJØMDR	41,850
OL1A (OK1CW, op)	36,696
IK2CLB	30,012
LZ2WO	29,718

#### Single Operator, 80 Meters

XE2X	213,300
GW5R (GW3YDX, op)	176,568
OM5ZW	156,576
S52AW	141,033
TM6X (F5VHY, op)	138,600
F6FYA	131,382
HA8A (HA8DZ, op)	131,175
LU8DPM (LU5DF, op)	113,400
HB9DDO	97,350
CO2JD	69,822

#### Single Operator, 40 Meters

KP2M (KT3Y, op)	359,460
NP2P (N2TTA, op)	298,290
TM6M (F1AKK, op)	294,081
S5ØC (S53RM, op)	246,960
OM7M (OM2KI, op)	244,305
YT5A (YU1AU, op)	210,240
TM5CQ	205,668
XQ1KZ	204,120
S57Q	195,966
SN3A (SP3HLM, op)	194,598

#### Single Operator, 20 Meters

V37DX (DH8BQA, op)	379,980
TM5Y (F8DBF, op)	362,514
OH8X (OH6UM, op)	317,520
GM3X (GM3POI, op)	250,200
YT3X	244,614
OM2Y (OM2IB, op)	220,332
OH8L (OH8LQ, op)	208,620
DR5X (DL8LAS, op)	206,820
S53MM	190,137
PY2NY	184,611

**Single Operator, 15 Meters**

PX2A (PY2LSM, op)	254,340
LW8DQ	230,277
V31DJ (WØCP, op)	168,954
CB3R (XQ3SK, op)	122,838
PW5N	71,775
M5A	29,970
DL6WT	25,164
OH6QU	24,768
M7X (GØTSM, op)	17,982
PT9DX (PY9DX, op)	11,448

**Single Operator, 10 Meters**

CE2ML (CX1EK, op)	33,282
PY1ZV	9,765

For the Multioperator, Single Transmitter category, once again the place to be was the Cayman Islands. Oh yes, and a three-peat for ZF1A. However, for this year, John, K6AM; and Dan, N6MJ, added Tim, N6WIN, to their team. Once again, the roughly 900 miles between the Caymans and Aruba afforded the folks to the north a 500 QSO low-band advantage that eventually became the difference in the end.

**Multioperator, Single Transmitter, High****Power**

ZF1A	5,658,240
P4ØL	4,811,745
VP5K	4,371,381
CU4DX	3,952,827
C6AGU	3,854,697
CR3W	3,514,512
EI7M	3,334,113
XE7S	3,078,810
EA5RS	2,855,391
IR4X	2,797,236

On the low-power side, a real horse race. Not only did V3T manage to capture their second number one finish in a row, they managed it while moving from second to first place during log checking. In the end, the relatively small score difference of 10,000 points was close to the 2 lost multipliers or the additional busted exchanges by the crew at PJ6A.

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

V3T	3,697,920
PJ6A	3,687,207
FY5KE	3,230,049
ZW8T	1,243,380
C6ANM	344,172
JA5FDJ	250,809
F8KLY	242,352
ZV7T	105,570
JK2VOC	22,815
RK1M	16,236

**Multioperator, Two Transmitter**

PJ4A	6,775,164
VP2MSS	6,107,808
P4ØE	6,006,231
6Y3M	5,809,710
CR3DX	5,642,703
T48K	4,757,907
GM5A	3,591,684
PYØF	2,826,600
SN8B	2,147,580
HG7T	1,984,452

**Multioperator, Multitransmitter**

PJ2T	6,970,500
KH6LC	4,752,027
9A1A	3,675,588
KL7RA	2,990,673
OL7M	2,851,158
LZ9W	2,365,965
LN8W	1,912,335
JA3YBK	1,185,213
V84SAA	151,248

**On the US/VE Side**

Moving up a notch to lead the single operators in the high-power category was N5DX. In 2018, Kevin operated N2QV remotely, finishing second in the category. This year he got a bit closer to Europe and operated at N2QV in NY. It's worth a visit to N2QV's page on qrz.com to see the hardware behind these two impressive finishes. Other Top Ten finishers from last year, and now this year, include VY2TT, AA1K, N4AF, and W9RE. It's also interesting to note that 8 out of the top 10 finishers were running SO2R.

### Single Operator, High Power

N5DX (@N2QV)	6,632,334
VY2TT (K6LA, op)	4,828,089
AA1K	4,418,046
N1UR	4,365,900
N4AF	4,003,920
VE3DZ	3,633,354
N2IC	3,512,880
W9RE	3,431,106
CJ3A (VE3AT, op)	3,359,811
NA8V	3,071,328

This year a relatively new call leads the low-power pack, N9NB. Obviously, Ted has put together a competitive single operator station in the mountains of southwest Virginia. Expect to see this call near the top of low-power entries in the future. Second and third places gave us another photo finish between N4TZ and N8II. This time I will leave the what-if speculations for others, but it would not have taken many busted QSOs for a swap between second and third place.

### Single Operator, Low Power

N9NB	1,955,184
N4TZ	1,658,358
N8II	1,651,545
WØUO	1,214,010
WB4TDH	832,545
N8AA	712,656
K4SXT	669,900
KTØK	599,256
KG5HVO	585,438
VE1RSM	539,295

As I went through the lists of Top Ten finishers one call stood out that I'd be remiss to not mention. Sitting at number three in the QRP category is W1UU, one of CWOPS' charter members. Anyone interested in serious contesters of the late 1960s into the '70s may recognize W1UU as the previous W1BPW. Spend some time in the *QST* contest results archives to get a feeling for Pete's prior accomplishments. (Pete, I believe it's your turn to buy lunch.)



Breakfast on Aruba; from left to right, K2LE, W6LD, N3RD, AA5B, W2GD, N5KO, K9RS, and WØYK. [Bruce, AA5B, photo]

### Single Operator, QRP

K8CN	288,036
N7IR	260,325
W1UU	239,235
NA1ME	224,814
W6JTI	214,947
K2YAZ	152,055
W6QU (W8QZA, op)	118,170
NDØC	107,442
K2YGM	96,624
N7RCS	92,250

The leader of this year's Single Operator Unlimited category is Rick, KI1G. He seemingly hopped on the top of the stack and pushed several of last year's contestants down a notch or two; being at the top of the listing is not a new experience for Rick. This year 6 of the Top Ten were also in the Top Ten in 2018.

### Single Operator Unlimited, High Power

KI1G	5,978,412
AA3B	5,717,556
K3WW	5,478,396
K5ZD	4,821,108
VA2WA	4,678,152
K1RX	4,676,490
N3RS	4,597,398
AB3CX	4,327,050
W8FJ	3,926,832
W3MM (KF3B, op)	3,617,952

**Here's a look at some of the folks who put in the hours operating single-band: the table shows the Top Ten finishers in both 2018 and 2019 and where they finished.**

**Placement of Finishers in Single-Band Categories**

	160	80	40	20	15
	2019	2018	2019	2018	2019
NP2J	1	1			
CO2AN	3	4			
XE2X			1	1	
S52AW			3	4	
CO2JD			10	5	
S50C					4
S57Q					3
TM5Y					2
OH8X					1
OM2Y					3
PX2A					6
PT9DX					6
					1
					2
					10
					4

**Single Operator Unlimited, Low Power**

K5KU	1,679,736
W1QK	1,584,492
N9CO	1,560,447
VA3DF	1,485,714
W9XT	1,457,724
KS1J	1,436,160
N2AN (WC4E, op)	1,416,588
VO1HP	1,376,748
N1EN	1,260,402
K2XR	1,258,047

**Single Operator, 80 Meters**

W3BGN	189,465
KVØQ	173,436
W3NO	106,380
VE9OA	52,668
K4FJ	50,250
VE7CC	49,068
AB4B	46,398
WD5K	41,829
N7ZG	31,512
N4OO	22,605

**Single Operator Unlimited, QRP**

KR4AE	218,268
K8ZT	158,952
N2CQ	35,235
K2GMY	28,032
KW6G	13,248
WA9LEY	12,600
VA7ADI	9,027
NØUR	5,244
KH6KG/W5	3,564
VE3GMZ	2,700

**Single Operator, 40 Meters**

N8OO	501,285
N2MF	459,435
K5RM	252,495
KA1IS	245,955
K5RX	232,551
KS4AA	149,058
W3EF	146,772
W2EG	126,000
K2UF	113,544
K5LG	98,355

**Single Operator, 160 Meters**

W4ZV	82,362
K1WHS	79,497
K4PI	74,784
N4XD	43,485
N2GC	30,504
K4FX	19,488
K2UR	18,297
W3TS	16,245
N2GM	13,350
K2CUB	13,158

**Single Operator, 20 Meters**

K1LZ (E78WW, op)	655,962
KD2RD	544,320
KU2M	541,296
N5ZO	310,323
W7WA	310,128
W6YA	261,414
VE3VN	244,020
K6XT	237,300
N7TU (K2SS, op)	233,625
N3XF	231,336

**Single Operator, 15 Meters**

K4OAQ	157,794
K1TR	104,580
WA6FGV	3,807
N6RM	2,484
VE2NCG	2,187
W5NZ	1,890
N5IB	1,596
W3EH	585
W6DVS	495
NZ5M	351

**Multioperator, Single Transmitter, Low Power**

VE9BK	2,001,159
W4TG	767,973
AB9YC	465,885
K1RQ	396,657
W1FM	225,810
W4TM	186,516
W3YI	180,180
W2NTN	98,454
KB9DKR	81,648
VA7DZ	58,608

**Single Operator, 10 Meters**

W4DD	900
WB2AMU	3

**Once again, a tip of the hat to the perseverance of the single-band operators.**

Placement of Finishers in Single-Band Categories										
	160		80		40		20		15	
	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018
W4ZV	1	1								
K1WHS	2	2								
K4PI	3	3								
N4XD	4	7								
W3TS	8	10								
W3BGN			1	1						
K4FJ			5	7						
N4OO			10	10						
N8OO					1	2				
N2MF					2	1				
KA1IS					4	6				
W3EF					7	4				
W2EG					8	8				
KU2M							3	1		
W6YA							6	6		
K4OAQ									1	2
N6RM									3	10

**Multioperator, Single Transmitter, High Power**

W4KZ	5,085,300
K5TR	3,486,975
W3LL	3,279,972
K3PH	3,045,546
K3TN	3,023,025
AA9A	2,888,742
N2RJ	2,682,144
AA7A	2,484,345
N4ZR	2,093,625
N3EB	1,885,980

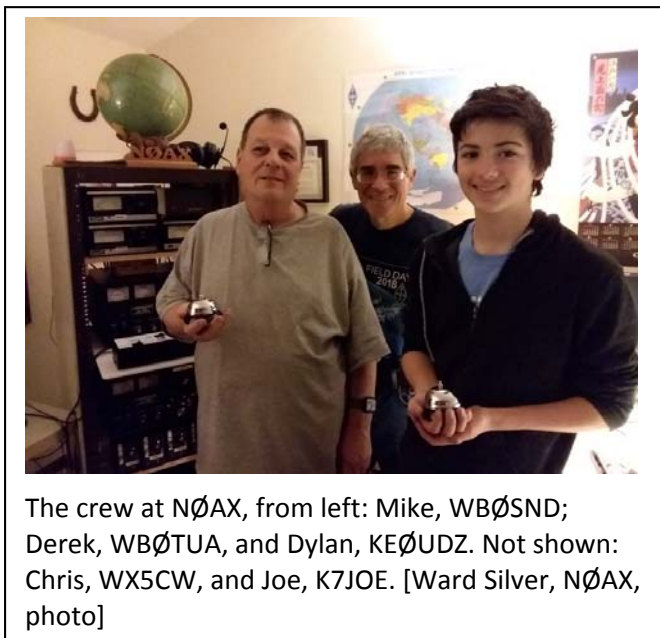
**Multioperator, Two Transmitter**

W2FU	7,134,144
N2NT	6,377,049
K9CT	6,027,264
K8AZ	6,021,000
K1IR	5,979,357
K2QMF	5,424,696
K2AX	4,998,924
N1MM	4,934,640
K4TCG	4,639,950
NØNI	4,515,840

### Multioperator, Multitransmitter

W3LPL	10,091,655
K3LR	9,695,880
NR4M	8,205,390
K1TTT	7,010,892
N4WW	6,635,934
K1KI	5,159,883
NE3F	3,209,328
NA6O	2,480,310
W1CSM	2,174,418

**The excitement continues next February 15-16. Be sure to mark your calendars to join us in the 2020 ARRL DX CW Contest!**



The crew at NØAX, from left: Mike, WBØSND; Derek, WBØTUA, and Dylan, KEØUDZ. Not shown: Chris, WX5CW, and Joe, K7JOE. [Ward Silver, NØAX, photo]

## 2019 ARRL DX CW Contest Plaque Winners

Congratulations to the 2019 ARRL DX CW Contest plaque winners listed below. While there were many other category winners, there are numerous contest plaques that go unsponsored each year. If you are interested in self-sponsoring a plaque for yourself, or your club is interested in sponsoring a plaque, please contact the ARRL Contest Branch at [contests@arrl.org](mailto:contests@arrl.org). Plaques are currently priced at \$75.00, which includes all shipping and handling costs to the winner. Email [contests@arrl.org](mailto:contests@arrl.org) to obtain a list of unsponsored plaques. Send your \$75 fee (US funds) payment by check (make payable to ARRL) and mail to: ARRL - Contest Plaques, 225 Main St., Newington CT 06111 USA

Winner	Plaque Category	Plaque Sponsor
N5DX (@N2QV)	W/VE Single Operator High Power CW	Frankford Radio Club
N9NB	W/VE Single Operator Low Power CW	The CW Operators' Club
K8CN	W/VE Single Operator QRP CW	Bill Parker, W8QZA
K11G	W/VE Single Operator Unlimited High Power CW	Harold Ritchey, W3WPG Memorial
K5KU	W/VE Single Operator Unlimited Low Power CW	Chick Allen, NW3Y
W4KZ	W/VE Multioperator Single Transmitter High Power CW	The CW Operators' Club
W2FU	W/VE Multioperator Two Transmitter CW	The CW Operators' Club
W3LPL	W/VE Multioperator Unlimited Transmitter CW	Drew Vonada-Smith, K3PA
W4ZV	W/VE 1.8 MHz CW	Jerry Rosalius, WB9Z
W3BGN	W/VE 3.5 MHz CW	The CW Operators' Club
N8OO	W/VE 7 MHz CW	Drew Vonada-Smith, K3PA
K1LZ (E78WW op)	W/VE 14 MHz CW	The CW Operators' Club
K4OAQ	W/VE 21 MHz CW	Carl Luetzelschwab, K9LA
W4DD	W/VE 28 MHz CW	Richard Hassell-Bennett, KØXG



8P5A	World Single Operator High Power CW	North Jersey DX Association
ZF9CW	World Single Operator Low Power CW	The CW Operators' Club
IZ3NVR	World Single Operator QRP CW	The CW Operators' Club
NP4Z	World Single Operator Unlimited High Power CW	The CW Operators' Club
P4ØW (W2GD op)	World Single Operator Unlimited Low Power CW	The CW Operators' Club
PJ2T	World Multioperator Unlimited CW	H Stephen Miller, NØSM
ZF1A	World Multioperator Single Transmitter High Power CW	John Patterson WCØW/V31TP
V3T	World Multioperator, Single Transmitter Low Power CW	John Patterson WCØW/V31TP
PJ4A	World Multioperator Two Transmitters CW	Frankford Radio Club - K2TD Memorial
XE2X	World 3.5 MHz CW	W1FJ, In Memory of W1BIH & N4XR
V37DX (DH8BQA, op)	World 14 MHz CW	Caribbean Contesting Consortium - PJ2T
KP2M (KT3Y, op)	World 7 MHz CW	The CW Operators' Club
N5DX (@N2QV)	North America Single Operator High Power CW	Potomac Valley Radio Club
K8CN	North America Single Operator QRP CW	The CW Operators' Club
ZF9CW	North America Single Operator Low Power CW	Fred Hoffert, NA2U
ZF1A	North America Multioperator Single Transmitter CW	The CW Operators' Club
KL7RA	North America Multioperator Unlimited CW	The CW Operators' Club
AA1K	Atlantic Division Single Operator CW	Chick Allen, NW3Y
W9RE	Central Division Single Operator High Power CW	Northern Illinois DX Association
N4TZ	Central Division Single Operator Low Power CW	Society of Midwest Contesters
WB9Z	Central Division Single Operator Unlimited High Power CW	Society of Midwest Contesters
N9CO	Central Division Single Operator Unlimited Low Power CW	Society of Midwest Contesters
AA9A	Central Division Multioperator Single Transmitter CW	Society of Midwest Contesters
NA8V	Great Lakes Division Single Operator CW	North Coast Contesters
K7RL	Northwestern Division Single Operator Unlimited CW	Randall Stegemeyer, W7HR
N9RV	Seventh Call Area Single Operator High Power CW	Willamette Valley DX Club
K6GHA	Pacific Division Single Operator Low Power CW	Central California DX Club, Inc. W6MEL
EA8RM	Africa Single Operator CW	The CW Operator's Club
JO4JKL	Asia Single Operator High Power CW	The CW Operator's Club
JH4UYB	Asia Multioperator Single Transmitter High Power CW	Yankee Clipper Contest Club
ZF9CW	Caribbean Single Operator Low Power CW	Frankford Radio Club - 9Y4VU Memorial
IZ3NVR	Europe Single Operator QRP CW	The CW Operators' Club
DL5AXX	Europe Single Operator High Power CW	Jim George, N3BB
DL6FBL	Europe Single Operator Unlimited High Power CW	The CW Operators' Club
CU4DX	Europe Multioperator Single Transmitter CW	The CW Operators' Club
GM5A	Europe Multioperator Two Transmitter CW	The CW Operators' Club
IR2Q (IK2PFL, op)	Europe Single Operator Low Power CW	Jeff Hartley, N8II
9A1A	Europe Multioperator Unlimited CW	Charles Wooten, NF4A
JH1EAQ	Japan Single Operator Low Power CW	The CW Operators' Club
KH7B (KH7XS, op)	Oceania Single Operator CW	The CW Operator's Club
PS2T (PY2NDX, op)	South America Single Operator CW	The CW Operator's Club

## Continental Winners

### Africa

Single Operator, High Power	EA8RM	3,113,019
Single Operator, Low Power	V51YJ	701,670
Single Operator Unlimited, Low Power	EA8KW	332,208
Single Operator, 40 Meters	EA8ZS	99,990
Single Operator, 20 Meters	9G2HO (9G5SA, op)	20,406
Multioperator, Single Transmitter, High Power	CR3W	3,514,512
Multioperator, Two Transmitter	CR3DX	5,642,703

### Antarctica

Single Operator, Low Power	RI1ANL (RW6ACM, op)	143,550
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### Asia

Single Operator, High Power	JO4JKL (9M6NA, op)	452,403
Single Operator, Low Power	JH1EAQ	302,760
Single Operator, QRP	JR4DAH	18,954
Single Operator Unlimited, High Power	5B/RN3QO	612,696
Single Operator Unlimited, Low Power	JK2RCP	80,142
Single Operator Unlimited, QRP	JK7DWD	13,965
Single Operator, 160 Meters	JAØQNJ	7,632
Single Operator, 80 Meters	JH7XMO	3,240
Single Operator, 40 Meters	7M4CLF	63,315
Single Operator, 20 Meters	RTØF	130,302
Single Operator, 15 Meters	JJ1LBJ	60
Multioperator, Single Transmitter, High Power	JH4UYB	821,040
Multioperator, Single Transmitter, Low Power	JA5FDJ	250,809
Multioperator, Two Transmitter	JH8YOH	621,369
Multioperator, Multitransmitter	JA3YBK	1,185,213

### Europe

Single Operator, High Power	DL5AXX	2,259,750
Single Operator, Low Power	IR2Q (IK2PFL, op)	1,022,574
Single Operator, QRP	IZ3NVR	258,390
Single Operator Unlimited, High Power	DL6FBL	2,731,560
Single Operator Unlimited, Low Power	G4R (YO4RDW, op)	811,638
Single Operator Unlimited, QRP	OK2FD	194,313
Single Operator, 160 Meters	G3TXF	69,615
Single Operator, 80 Meters	GW5R (GW3YDX, op)	176,568
Single Operator, 40 Meters	TM6M (F1AKK, op)	294,081
Single Operator, 20 Meters	TM5Y (F8DBF, op)	362,514
Single Operator, 15 Meters	M5A	29,970
Multioperator, Single Transmitter, High Power	CU4DX	3,952,827

Multioperator, Single Transmitter, Low Power	F8KLY	242,352
Multioperator, Two Transmitter	GM5A	3,591,684
Multioperator, Multitransmitter	9A1A	3,675,588

#### North America

Single Operator, High Power	8P5A	6,301,680
Single Operator, Low Power	ZF9CW	4,096,863
Single Operator, QRP	CO2CW	75,555
Single Operator Unlimited, High Power	NP4Z	4,152,240
Single Operator Unlimited, Low Power	HH2AA (KO7SS, op)	2,757,915
Single Operator Unlimited, QRP	XE1HG	189
Single Operator, 160 Meters	NP2J (K8RF, op)	142,506
Single Operator, 80 Meters	XE2X	213,300
Single Operator, 40 Meters	KP2M (KT3Y, op)	359,460
Single Operator, 20 Meters	V37DX (DH8BQA, op)	379,980
Single Operator, 15 Meters	V31DJ (WØCP, op)	168,954
Multioperator, Single Transmitter, High Power	ZF1A	5,658,240
Multioperator, Single Transmitter, Low Power	V3T	3,697,920
Multioperator, Two Transmitter	VP2MSS	6,107,808
Multioperator, Multitransmitter	KL7RA	2,990,673

#### Oceania

Single Operator, High Power	KH7B (KH7XS, op)	4,288,641
Single Operator, Low Power	KH6CJJ	842,886
Single Operator, QRP	N7ET/DU7	8,787
Single Operator Unlimited, High Power	VK2IA	591,384
Single Operator Unlimited, Low Power	YB8RW	48,174
Single Operator Unlimited, QRP	KH6DD (KØAV, op)	1,485
Single Operator, 80 Meters	KH6/WB4JTT	64,314
Single Operator, 40 Meters	VK4TJF	32,868
Single Operator, 20 Meters	ZL1BBW	66,300
Multioperator, Single Transmitter, Low Power	YE1ZAZ	6,270
Multioperator, Two Transmitter	ZL3X	1,096,524
Multioperator, Multitransmitter	KH6LC	4,752,027

#### South America

Single Operator, High Power	PS2T (PY2NDX, op)	2,913,408
Single Operator, Low Power	OA4SS	965,034
Single Operator, QRP	HK4KM	6
Single Operator Unlimited, High Power	PY4VG	333,336
Single Operator Unlimited, Low Power	P4ØW (W2GD, op)	3,386,700
Single Operator, 80 Meters	LU8DPM (LU5DF, op)	113,400
Single Operator, 40 Meters	XQ1KZ	204,120
Single Operator, 20 Meters	PY2NY	184,611
Single Operator, 15 Meters	PX2A (PY2LSM, op)	254,340
Single Operator, 10 Meters	CE2ML (CX1EK, op)	33,282

Multioperator, Single Transmitter, High Power	P4ØL	4,811,745
Multioperator, Single Transmitter, Low Power	FY5KE	3,230,049
Multioperator, Two Transmitter	PJ4A	6,775,164
Multioperator, Multitransmitter	PJ2T	6,970,500

### Maritime Mobile

Single Operator, 20 Meters	RAØLQ/MM	1,176
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## Division Winners

### Single Operator, High Power

Atlantic	AA1K	4,418,046
Central	W9RE	3,431,106
Dakota	KØJJR	246,645
Delta	N4OGW	1,433,130
Great Lakes	NA8V	3,071,328
Hudson	N5DX (@N2QV)	6,632,334
Midwest	N7WY	316,713
New England	N1UR	4,365,900
Northwestern	N9RV	2,253,888
Pacific	K6XX	1,887,000
Roanoke	N4AF	4,003,920
Rocky Mountain	N2IC	3,512,880
Southeastern	K4AB	1,970,535
Southwestern	NO6T (KI6RRN, op)	2,302,752
West Gulf	WXØB (AD5Q, op)	2,769,858
Canada	VY2TT (K6LA, op)	4,828,089

### Single Operator, Low Power

Atlantic	N2EM	389,532
Central	N4TZ	1,658,358
Dakota	N7IV	189,342
Delta	K5FUV	452,088
Great Lakes	N8AA	712,656
Hudson	WA2VZQ	123,876
Midwest	KTØK	599,256
New England	W1JQ	436,176
Northwestern	W7ZI	150,192
Pacific	K6GHA	184,140
Roanoke	N9NB	1,955,184
Rocky Mountain	WØZW	94,320
Southeastern	WB4TDH	832,545
Southwestern	KM6Z	177,567

West Gulf	WØUO	1,214,010
Canada	VE1RSM	539,295

### Single Operator, QRP

Atlantic	KZ3I	24,525
Central	WS9V	7,254
Dakota	NDØC	107,442
Delta	NA4C	9,027
Great Lakes	K2YAZ	152,055
Hudson	KC2WUF	41,454
Midwest	ADØBI	4,536
New England	K8CN	288,036
Northwestern	K7MM	1,173
Pacific	W6JTI	214,947
Roanoke	W1IE	76,869
Rocky Mountain	WC7S	9,417
Southeastern	K2YGM	96,624
Southwestern	N7IR	260,325
West Gulf	KIØG	2,688
Canada	VE3WZ	2,880

### Single Operator Unlimited, High Power

Atlantic	AA3B	5,717,556
Central	WB9Z	2,856,114
Dakota	NØAT	1,009,881
Delta	K3IE	2,134,572
Great Lakes	K8CX	2,581,194
Hudson	N2RC	3,302,028
Midwest	K3PA	1,910,865
New England	KI1G	5,978,412
Northwestern	K7RL	1,891,497
Pacific	N6JV	818,586
Roanoke	W4NF	3,218,685

Rocky Mountain	N5FO	1,762,680	Canada	VE6WZ	12,672
Southeastern	WO4O	2,539,800			
Southwestern	WØRIC (W4IX, op)	1,732,968			
West Gulf	K5NA	1,571,664			
Canada	VA2WA	4,678,152			

#### Single Operator Unlimited, Low Power

Atlantic	K2XR	1,258,047
Central	N9CO	1,560,447
Dakota	KØRC	675,432
Delta	K5KU	1,679,736
Great Lakes	N8VV	670,752
Hudson	N2SQW	652,680
Midwest	NØPP	91,104
New England	W1QK	1,584,492
Northwestern	AK6A	179,655
Pacific	K6JS	354,480
Roanoke	W4PM	791,979
Rocky Mountain	AD1C	254,928
Southeastern	WA1FCN	1,004,796
Southwestern	K6WSC	493,998
West Gulf	W5FN	767,910
Canada	VA3DF	1,485,714

#### Single Operator Unlimited, QRP

Atlantic	N2CQ	35,235
Central	WA9LEY	12,600
Dakota	NØUR	5,244
Delta	KH6KG/W5	3,564
Great Lakes	K8ZT	158,952
New England	KC1DVT	27
Pacific	K2GMY	28,032
Southeastern	KR4AE	218,268
Canada	VA7ADI	9,027

#### Single Operator, 160 Meters

Atlantic	W3TS	16,245
Central	K2UR	18,297
Great Lakes	K2CUB	13,158
Hudson	N2GC	30,504
New England	K1WHS	79,497
Northwestern	K7CW	2,184
Pacific	W6RKC	1,071
Roanoke	W4ZV	82,362
Southeastern	K4PI	74,784
Southwestern	W7RH	4,644

#### Single Operator, 80 Meters

Atlantic	W3BGN	189,465
Central	N9HH	9,636
Dakota	KEØTT	10,368
Great Lakes	AC8CE	20,196
Hudson	K2TMM	13,440
New England	W1VEM	18,894
Northwestern	N7ZG	31,512
Roanoke	K4FJ	50,250
Rocky Mountain	KVØQ	173,436
Southeastern	AB4B	46,398
Southwestern	N6BT	21,417
West Gulf	WD5K	41,829
Canada	VE9OA	52,668

#### Single Operator, 40 Meters

Atlantic	N2MF	459,435
Central	K9CJ	43,452
Dakota	KØPK	31,185
Delta	N8OO	501,285
Great Lakes	W8LJB	36,639
Hudson	W2EG	126,000
Midwest	W9MAF	85,722
New England	KA1IS	245,955
Pacific	KO6LU	3,960
Roanoke	KS4AA	149,058
Rocky Mountain	K7ULS	3,276
Southeastern	N8KR	43,026
Southwestern	KA9A	8,880
West Gulf	K5RX	232,551
Canada	VE3PN	90,528

#### Single Operator, 20 Meters

Atlantic	N3XF	231,336
Central	W9ILY	228,096
Dakota	NØUK	11,100
Delta	NA5NN (W5UE, op)	31,089
Great Lakes	W8WA	231,132
Hudson	KD2RD	544,320
Midwest	NXØI	103,230
New England	K1LZ (E78WW, op)	655,962
Northwestern	W7WA	310,128
Pacific	K7ACZ	29,580

Roanoke	WA4JUK	117,834	Southwestern	AA7A	2,484,345
Rocky Mountain	K6XT	237,300	West Gulf	K5TR	3,486,975
Southeastern	N3EA	13,650	Canada	VE2BWL	1,526,616
Southwestern	N5ZO	310,323			
West Gulf	WA5DSS	1,638	<b>Multioperator, Single Transmitter, Low Power</b>		
Canada	VE3VN	244,020	Atlantic	W3YI	180,180
			Central	AB9YC	465,885
<b>Single Operator, 15 Meters</b>			Delta	KB9DKR	81,648
Atlantic	W8IJ	18	Great Lakes	K4KJQ	12,870
Delta	N5IB	1,596	Hudson	K1RQ	396,657
Great Lakes	W8RU	243	New England	W1FM	225,810
Hudson	W3EH	585	Roanoke	W4TG	767,973
New England	K1TR	104,580	Southeastern	W4TM	186,516
Roanoke	K4OAQ	157,794	Canada	VE9BK	2,001,159
Southeastern	W5NZ	1,890			
Southwestern	WA6FGV	3,807	<b>Multioperator, Two Transmitter</b>		
West Gulf	NZ5M	351	Atlantic	W2FU	7,134,144
Canada	VE2NCG	2,187	Central	K9CT	6,027,264
			Dakota	NRØT	153,459
<b>Single Operator, 10 Meters</b>			Delta	K4TCG	4,639,950
Hudson	WB2AMU	3	Great Lakes	K8AZ	6,021,000
Southeastern	W4DD	900	Hudson	N2NT	6,377,049
			Midwest	NØNI	4,515,840
<b>Multioperator, Single Transmitter, High Power</b>			New England	K1IR	5,979,357
Atlantic	W3LL	3,279,972	Northwestern	K7JR	1,208,688
Central	AA9A	2,888,742	Southwestern	NX6T	1,292,907
Delta	K4OWR	469,515			
Great Lakes	W8IQ	87,348	<b>Multioperator, Multitransmitter</b>		
Hudson	N2RJ	2,682,144	Atlantic	W3LPL	10,091,655
New England	W4KZ	5,085,300	New England	K1TTT	7,010,892
Northwestern	K7RI	747,729	Pacific	NA6O	2,480,310
Pacific	KM6I	6,696	Roanoke	NR4M	8,205,390
Roanoke	K3TN	3,023,025	Southeastern	N4WW	6,635,934
Southeastern	W4AQL	598,080			

## 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)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)		
					K7RI 747,729 MSHP
			K2GMY 28,032 SOUQRP		VA7DX 619,506 MSHP
			KW6G 13,248 SOUQRP		
NO6T (KI6RRN, op)	2,302,752	SOHP	VA7ADI 9,027 SOUQRP		VA7DZ 58,608 MSLP
N9RV	2,253,888	SOHP			VA7UNX 105 MSLP
K6XX	1,887,000	SOHP	VE6WZ 12,672 SO-160		
W6YX (N7MH, op)	1,733,376	SOHP	W7RH 4,644 SO-160		NX6T 1,292,907 M2
WJ9B	1,252,524	SOHP	K7CW 2,184 SO-160		K7JR 1,208,688 M2
			W7WR 1,326 SO-160		
K6GHA	184,140	SOLP	W6RKC 1,071 SO-160		NA6O 2,480,310 MM
KM6Z	177,567	SOLP			
W7ZI	150,192	SOLP	VE7CC 49,068 SO-80		
N6MU	138,474	SOLP	N7ZG 31,512 SO-80		
VE7JH	101,232	SOLP	N6BT 21,417 SO-80		
			WB7FJG 1,035 SO-80		
N7IR	260,325	SOQRP	W7DRA 48 SO-80		N2IC 3,512,880 SOHP
W6JTI	214,947	SOQRP			WXØB (AD5Q, op) 2,769,858 SOHP
W6QU (W8QZA, op)	118,170	SOQRP	KA9A 8,880 SO-40		N5AW 2,747,760 SOHP
AC6YY	10,800	SOQRP	KO6LU 3,960 SO-40		AD5A 1,485,036 SOHP
N6HI	6,270	SOQRP			N5CQ 648,180 SOHP
			N5ZO 310,323 SO-20		WØUO 1,214,010 SOLP
K7RL	1,891,497	SOUHP	W7WA 310,128 SO-20		KTØK 599,256 SOLP
WØRIC (W4IX, op)	1,732,968	SOUHP	W6YA 261,414 SO-20		W5RYA 417,696 SOLP
K6LL	1,563,624	SOUHP	N7TU (K2SS, op) 233,625 SO-20		N7IV 189,342 SOLP
N7CW	1,117,128	SOUHP	K9JF 180,453 SO-20		K5LH 152,361 SOLP
K4XU	1,072,950	SOUHP			
			WA6FGV 3,807 SO-15		NDØC 107,442 SOQRP
K6WSC	493,998	SOULP	N6RM 2,484 SO-15		WC7S 9,417 SOQRP
N6RV	451,773	SOULP			ADØBI 4,536 SOQRP
K6JS	354,480	SOULP	AA7A 2,484,345 MSHP		KIØG 2,688 SOQRP
N6PN	199,320	SOULP	W8TK 1,863,750 MSHP		
AK6A	179,655	SOULP	W6AX 879,450 MSHP		K3PA 1,910,865 SOUHP

N5FO	1,762,680	SOUHP	<b>Central Region</b>			N9HH	9,636	SO-80
K5NA	1,571,664	SOUHP	<b>(Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Greater Toronto Area Sections)</b>			VE3ADQ	7,980	SO-80
AC4CA	1,321,704	SOUHP	VE3DZ	3,633,354	SOHP	VE3PN	90,528	SO-40
NØAV	1,320,480	SOUHP	W9RE	3,431,106	SOHP	K9CJ	43,452	SO-40
W5FN	767,910	SOULP	CJ3A (VE3AT, op)	3,359,811	SOHP	W8LJB	36,639	SO-40
KØRC	675,432	SOULP	NA8V	3,071,328	SOHP	VE3MM	26,928	SO-40
AD1C	254,928	SOULP	K8GL	1,664,712	SOHP	VE3OSZ	18,096	SO-40
K5KJ	248,832	SOULP						
N5DO	243,474	SOULP	N4TZ	1,658,358	SOLP	VE3VN	244,020	SO-20
			N8AA	712,656	SOLP	W8WA	231,132	SO-20
NØUR	5,244	SOUQRP	WB8WKQ	412,074	SOLP	W9ILY	228,096	SO-20
KØUU	972	SOUQRP	VE3TM	394,485	SOLP	VE3CR	105,183	SO-20
			K9UIY	311,136	SOLP	K8LX	69,264	SO-20
KVØQ	173,436	SO-80						
WD5K	41,829	SO-80	K2YAZ	152,055	SOQRP	W8RU	243	SO-15
KZ5J	12,696	SO-80	AB8DF	7,950	SOQRP			
KEØTT	10,368	SO-80	WS9V	7,254	SOQRP	AA9A	2,888,742	MSHP
NGØT	4,995	SO-80	W9WR	4,428	SOQRP	WN9O	1,411,647	MSHP
			VE3WZ	2,880	SOQRP	VE3YAA	1,307,145	MSHP
K5RX	232,551	SO-40				W8IQ	87,348	MSHP
W9MAF	85,722	SO-40	WB9Z	2,856,114	SOUHP			
KØPK	31,185	SO-40	WE9V	2,707,974	SOUHP	AB9YC	465,885	MSLP
KØSRL	21,948	SO-40	K8CX	2,581,194	SOUHP	K4KJQ	12,870	MSLP
WA5ZKO	18,468	SO-40	K9IMM	2,133,885	SOUHP			
			K9NW	2,099,820	SOUHP	K9CT	6,027,264	M2
K6XT	237,300	SO-20				K8AZ	6,021,000	M2
NXØI	103,230	SO-20	N9CO	1,560,447	SOULP	W9VW	1,817,856	M2
WNØL	25,908	SO-20	VA3DF	1,485,714	SOULP			
NØUK	11,100	SO-20	W9XT	1,457,724	SOULP			
WA5DSS	1,638	SO-20	VE3RZ	1,031,259	SOULP			
			N8VV	670,752	SOULP	<b>Southeast Region</b>		
NZ5M	351	SO-15				<b>(Delta, Roanoke and Southeastern Divisions)</b>		
			K8ZT	158,952	SOUQRP	N4AF	4,003,920	SOHP
K5TR	3,486,975	MSHP	WA9LEY	12,600	SOUQRP	K4AB	1,970,535	SOHP
VE4EA	653,616	MSHP	VE3GMZ	2,700	SOUQRP	KØZR	1,481,844	SOHP
W5FMH	249,795	MSHP				N4OGW	1,433,130	SOHP
			K2UR	18,297	SO-160	K4PV	1,417,419	SOHP
NØNI	4,515,840	M2	K2CUB	13,158	SO-160			
NØAX	2,416,950	M2	W8WTS	12,393	SO-160	N9NB	1,955,184	SOLP
NØMA	324,360	M2	WD8DSB	5,049	SO-160	N8II	1,651,545	SOLP
NRØT	153,459	M2	KY9KYO	3	SO-160	WB4TDH	832,545	SOLP
						K4SXT	669,900	SOLP
			VA3SY	20,880	SO-80	KG5HVO	585,438	SOLP
			AC8CE	20,196	SO-80			
			KG9Z	15,675	SO-80	K2YGM	96,624	SOQRP
						N7RCS	92,250	SOQRP



W1IE	76,869	SOQRP	W6DVS	495	SO-15	N2AN (WC4E, op)	1,416,588	SOULP
W1IS	57,672	SOQRP				VO1HP	1,376,748	SOULP
N4AU	48,888	SOQRP	W4DD	900	SO-10	N1EN	1,260,402	SOULP
W4NF	3,218,685	SOUHP	K3TN	3,023,025	MSHP	N2CQ	35,235	SOUQRP
WO4O	2,539,800	SOUHP	W4AQL	598,080	MSHP	KC1DVT	27	SOUQRP
K3IE	2,134,572	SOUHP	K4OWR	469,515	MSHP			
K5EK	2,109,393	SOUHP				K1WHS	79,497	SO-160
N3ND	1,988,970	SOUHP	W4TG	767,973	MSLP	N2GC	30,504	SO-160
			W4TM	186,516	MSLP	W3TS	16,245	SO-160
K5KU	1,679,736	SOULP	KB9DKR	81,648	MSLP	N2GM	13,350	SO-160
WA1FCN	1,004,796	SOULP				KM1R	11,808	SO-160
K1KNQ	955,260	SOULP	K4TCG	4,639,950	M2			
W4PM	791,979	SOULP				W3BGN	189,465	SO-80
N1TO	542,250	SOULP	NR4M	8,205,390	MM	W3NO	106,380	SO-80
			N4WW	6,635,934	MM	VE9OA	52,668	SO-80
KR4AE	218,268	SOUQRP				W1VEM	18,894	SO-80
KH6KG/W5	3,564	SOUQRP				WA1HEW	18,444	SO-80
W4QO	675	SOUQRP						
			<b>Northeast Region</b>					
			<b>(New England, Hudson and Atlantic</b>					
			<b>Divisions; Maritime and Quebec Sections)</b>					
W4ZV	82,362	SO-160	N5DX (@N2QV)	6,632,334	SOHP	N2MF	459,435	SO-40
K4PI	74,784	SO-160	VY2TT (K6LA, op)	4,828,089	SOHP	KA1IS	245,955	SO-40
N4XD	43,485	SO-160	AA1K	4,418,046	SOHP	W3EF	146,772	SO-40
K4FX	19,488	SO-160	N1UR	4,365,900	SOHP	W2EG	126,000	SO-40
K3JT	3,219	SO-160	NN3W (@N3HBX)	2,963,250	SOHP	K2UF	113,544	SO-40
K4FJ	50,250	SO-80	VE1RSM	539,295	SOLP	K1LZ (E78WW, op)	655,962	SO-20
AB4B	46,398	SO-80	W1JQ	436,176	SOLP	KD2RD	544,320	SO-20
N4OO	22,605	SO-80	N2EM	389,532	SOLP	KU2M	541,296	SO-20
KM4F	5,814	SO-80	N8NA	314,115	SOLP	N3XF	231,336	SO-20
			K1VUT	296,664	SOLP	K4RUM	215,556	SO-20
N8OO	501,285	SO-40				K1TR	104,580	SO-15
K5RM	252,495	SO-40	K8CN	288,036	SOQRP	VE2NCG	2,187	SO-15
KS4AA	149,058	SO-40	W1UU	239,235	SOQRP	W3EH	585	SO-15
K5LG	98,355	SO-40	NA1ME	224,814	SOQRP	W8IJ	18	SO-15
N8KR	43,026	SO-40	WB2CPU	62,100	SOQRP			
			KC2WUF	41,454	SOQRP	WB2AMU	3	SO-10
WA4JUK	117,834	SO-20						
AA4XA (HK1A, op)	84,909	SO-20	K1I6	5,978,412	SOUHP	W4KZ	5,085,300	MSHP
N4HA	72,420	SO-20	AA3B	5,717,556	SOUHP	W3LL	3,279,972	MSHP
K4RDU	41,958	SO-20	K3WW	5,478,396	SOUHP	K3PH	3,045,546	MSHP
N2TU	41,580	SO-20	K5ZD	4,821,108	SOUHP	N2RJ	2,682,144	MSHP
			VA2WA	4,678,152	SOUHP	N4ZR	2,093,625	MSHP
K4OAOQ	157,794	SO-15						
W5NZ	1,890	SO-15	W1QK	1,584,492	SOULP	VE9BK	2,001,159	MSLP
N5IB	1,596	SO-15	KS1J	1,436,160	SOULP	K1RQ	396,657	MSLP

W1FM	225,810	MSLP
W3YI	180,180	MSLP
W2NTN	98,454	MSLP
W2FU	7,134,144	M2
N2NT	6,377,049	M2
K1IR	5,979,357	M2
K2QMF	5,424,696	M2
K2AX	4,998,924	M2
W3LPL	10,091,655	MM
K3LR	9,695,880	MM
K1TTT	7,010,892	MM
K1KI	5,159,883	MM
NE3F	3,209,328	MM