

IARU HF Championship 2014 Results

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Close Races, World Radiosport Team Championships, and Great Conditions Records Fall!

Version 1.2 of the results (released 19 Jan 2015) includes changes in the Top Ten CW QRP scores resulting from the disqualification of HG3M (operated by HA3MY) for self-spotting.

Held during the second weekend of July (July 12-13, 2014), the IARU contest offers quite a bit of summer fun. Not only can you work on your CW and phone skills, there are multiple categories for various power levels and mode combinations. Chasing HQ stations can add to the excitement as well. Adding to the intrigue is the unpredictability of summer propagation. Whether you are searching for multi-hop sporadic E openings on the high bands, looking for polar openings at night on 20 meters, or working through the QRN on the low bands, there's plenty to chase!



Showing the intensity and focus typical of all WRTC teams, K1O team member "Don," JH5GHM (his teammate was Hajime, JA1OJE) works stations on 80 CW. The team finished with 3,305 QSOs during the 24-hour contest. (Photo by Kristjan Kodermac, S5ØXX)

New Records

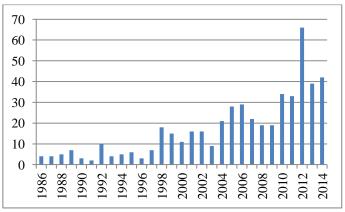
While many were focused on the outcome of the World Radiosport Team Championships that ran simultaneously with the contest, many others had their hopes set on grabbing some glory for themselves. With solid HF conditions and increased participation, a total of 42 44 records were set during the 2014 running of the IARU HF Championship.

The IARU records were recently updated to include the 2014 results by a talented group including K3WA, N3ND, EA4ZK, N1RR, AB1J, N5KM and N1JM.

The records ranged from new all-time high scores in the HQ category by TMØHQ and for Single-Operator, Phone, High Power by CN2R in Zone 37, to a new record set by AL4Y with just 3 points in the Single-Operator, Mixed-Mode, Low Power category for Zone 1.



Jim, W7EJ, is the voice behind the string of CN2R wins in many contests. You can see from this compact, functional layout, he has everything at his fingertips so as to waste no time putting your call in the log. (Photo by W7EJ)



While 1991 only has a pair of records remaining, each year since 1986 has had at least one all-time record set that remains the best score today. All IARU records are online at **arrl.org.contest-records**.

While CN2R's all-time mark is quite impressive, there were several other record-setting performances. Among them are new W/VE marks for Single-Operator, Mixed-Mode: for High Power by KQ2M and for Low Power by AA4NC. Also of note from around the globe were outstanding performances by VE3AT, VE3JM, W7WA, WJ9B, K5TR, AA3B, W4IX, EA8MT, A65BP, JS3CTQ, VK2DX and HSØZKX. All of these stations set new zone records.

HQ VY2RAC

The IARU contest features special entries known as "Headquarters" or HQ stations, representing national IARU organizations. Unique to each country, a typical HQ station racks up thousands of QSOs, makes multiplier chasers happy, and is staffed with many operators. This past summer, the trio of KØBBC (Matt), NØAT (Ron), and VE3RZ (Tony) put in a fantastic effort from the powerful VY2TT station on Prince Edward Island to hand out the much-appreciated RAC mult. The group racked up more than 6,000 contacts to put smiles on the faces of many contesters, including the buzzing WRTC teams nearby in New England.

After attending to a few station needs to make it ready for a three-person squad, the team was ready for big-time action - and they got it. From NØAT's article in the Twin City DX Association's newsletter (www.tcdxa.org): "Having that much horsepower and being a new multiplier generated unlimited pileups. We could work each station on six bands and both modes. Matt operated SSB, I operated CW, and Tony operated mostly CW with some SSB."

The idea came from a big desire to operate from VY2TT during the IARU event. While the contest doesn't have a Multioperator, Multitransmitter (M/M) category, the operators wanted more time in the operating chair and decided to move forward with the request to operate as an HQ station. VE3KI and VO1DK made the HQ operation possible. (HQ and the related Administrative Council station results are tabulated separately from the main results.)

WRTC Results

Four years of serious preparation paid off in New England as a record 59 teams competed in the exceptionally well-run World Radiosport Team Championship in Boston. (www.wrtc2014.org) The organizers can now sit back and relax after putting together a flawless effort which required an intense amount of planning. The eventual champions (the K1A team of N6MJ and KL9A) grabbed the lead after the first hour and never looked back as they secured their first championship after finishing third in WRTC2010 in Russia. The talented team received an automatic bid to WRTC2018, which will be held in Germany (<u>www.wrtc2018.de/en</u>).



WRTC2014 visitor Danny Pease took this night-time shot of the K1M team (Fred, K9VV, (left) and John, VE3EJ) hard at work.

Rounding out the top three in the 2014 event were the Slovakian team of OM3GI and OM3BH and the German team, DJ5MW and DL1IAO. Accuracy paid off for DJ5MW and DL1IAO as their incredible 1% error rate vaulted them from fifth to third place in the final standings. Amazingly, 60% of the contacts made during the event were cross-checked in just a six-hour log-submission window for non-WRTC competitors. Competitors had only a 30-minute window to submit their logs to the event's judging team. (The author describes his own experiences at WRTC2014 later in this article.)

Close Races

When looking back on a contest, it becomes easy to question a crucial decision or period of time in which one may have relaxed a bit too much, made a bad decision, or just goofed up in a fashion that may have cost a spot in the final standings. Close races lead to even more head scratching!

Take, for example, the Single-Operator, CW, Low Power, W/VE battle. W4IX (1,151,955) of South Carolina is no stranger to high-placing finishes. He nipped W1RM from Connecticut (1,132,203) by just 1.7 percent to take the top prize.



A strong effort from Larry, K7SV, in Virginia in Single-Op, CW, Low Power tallied 1,054,144 for third place. (Photo from K7SV)

Also of note, MWØEDX drove his station to 1,890,312 points, holding off the hard-charging performance of PS2T (PY2NY, op with 1,859,872 points) for the top world slot in the Single-Operator, Mixed-Mode, Low Power race. That's a paltry difference of 1.6 percent.

CW enthusiasts who decided to go the High Power route produced a grand fight for a top spot on the world stage. In the end, it was P3F (5B4AGN, op) copying his way to a score of just over 4 million points. While Bob knocked off 6V7S (RK4FF, op) by nearly 1 million points, the QSO counts were close as 6V7S collected 3054 and P3F logged 2962. Also of note in the QSO count were third and fourth-place finishers AA3B and VE3JM who finished with 2936 and 3069 (the highest contact total before log-checking), respectively.

HQ and Administrative Council Results

Any new DXer looking to add entities to their DXCC band totals had plenty of opportunity during the contest. The European HQ stations were, as usual, out in force. Taking the top HQ spot with an all-time record was TMØHQ, followed by EF4HQ, DAØHQ, R3HQ, and SNØHQ.

The IARU Administrative Council (AC) stations provide a little extra excitement since they, too, count as multipliers. KK1Z was tops overall and in Region 2 with over 3 million points. The NB2T group operated from K6ND for the top spot from Region 1 and was second overall with just under two million points. Rounding out the top three was PT2ADM with 789K points from Brasil.

If a band is even close to opening, chances are you will hear a few of the powerful HQ and AC stations coming through. While the path may be different than during the normal opening, the QSOs count the same and the mults lead to racking up a nice score.

IARU Headquarters Stations

IARU Headquarters	s Stations
Call	Score
тмǿно	34,506,131
EF4HQ	31,641,120
DAØHQ	30,102,280
R3HQ	26,608,000
SNØHQ	26,327,673
IIØHQ	25,564,392
GR2HQ	25,427,236
OL4HQ	
	25,402,167
9AØHQ	23,362,762
YTØHQ	22,583,934
S5ØHQ	20,878,765
LZ7HQ	18,873,175
YRØHQ	17,862,897
SK9HQ	16,956,911
AZØHQ	15,422,316
LYØHQ	15,267,995
HB9HQ	14,576,771
E7HQ	14,525,004
OZ1HQ	14,343,930
OE1A	13,419,870
OPØHQ	12,435,780
PA6HQ	11,887,200
W1ØØAW	10,451,520
ZW2HQ	10,050,156
V55HQ	9,956,010
EM5HQ	9,555,953
YL4HQ	9,446,745
NU1AW	8,636,498
SXØHQ	8,606,307
CR5HQ	6,916,875
VY2RAC	6,884,769
8NxHQ	6,838,741
UN1HQ	6,758,310
OH2HQ	6,429,060
LI2HQ	6,080,250
Z3ØHQ	5,230,872
ER7HQ	4,569,084
CX1AA	3,943,739
T49C	3,604,265
VP9HQ	3,395,748
YV5AJ	2,252,130
ES9A	2,227,159
ZS9HQ	1,749,720
ZL6HQ	1,627,988
7TØHQ	1,490,032
ZF1A	1,294,528
YEØHQ	1,232,742
DXØHQ	1,134,840
ZP5AA (LU8EOT, op)	930,328
9Y4HQ	752,370
EIØHQ (EI6JK, op)	588,200
HS5ØRAST (HS5NMF, op)	458,040
9M4DXX (9M2TO, op)	390,450
0A40	351,917
XE1LM	226,848
VK5WIA	214,240
TGØAA (TG9ANF, op)	192,696
HQ2W (HR2DMR, op)	167,970
V84O	147,000
JU1HQ (JT1DA, op)	130,327
TC1HQ	88,200
XR3HQ	62,640
HD2A (HC2AO, op)	8,294
HI8RCD (HI8KW, op)	1980

IARU Administrative Council Stations

Call	Score
VC6IARU	73,395
NB2T (@K6ND)	1,988,520
OK8JOE	13,616
LZ1US	2,106
DF3IAL	1,148
KK1Z	3,111,516
PT2ADM	789,760
YBØAZ	582,736
JA1CJP	261,188
	VC6IARU NB2T (@K6ND) OK8JOE LZ1US DF3IAL KK1Z PT2ADM YBØAZ

Summaries — Around the World and W/VE

Single-Operator, Mixed-Mode

Operating on both modes requires plenty of decision making in terms of bands and modes and really keeps operators busy throughout the event. There's very little down time in this category and even during the slow times operators are quite busy.

DK3WE was first for QRP, followed by a strong effort from UT5UN. MWØEDX edged PS2T (PY2NY, op) in the Low Power battle and UW1M EF8U (EA8RM, op) was tops in the High Power category. A65BP was second in High Power by a narrow margin.

KØOU easily took the top spot for W/VE QRP with an impressive tally of more than 230K, while AA4NC ran away with the W/VE crown in the Low Power race by setting a new record. Will spent most of his time on CW and battled high-band antenna issues to set the record. N5DO, N5ZC and KU8E had notable efforts in the category.



Do you have one of Steve's QSLs? If so, you're not alone! KØOU is a widely-worked call sign from Missouri. This year, he made the top US-Canada score in the Single-Op, CW, QRP category. (Photo by KØOU)

KQ2M overcame a myriad of obstacles to pocket more than 4 million raw points to add another impressive win to his sparkling radiosport resume – a new Mixed-Mode High Power record. Bob's next closest competitor was K6XX, who finished with just over 3 million points.

Single-Operator, Phone

Putting in a full effort in any category presents challenges, whether it be mental or physical. Doing so in the Phone category running QRP adds even more strain to patience and will. Five watts on crowded bands isn't exactly everyone's idea of a good time and for some operators it is an ultimate challenge.

In the overall competition, FY5FY persevered for more than 1 million points for the top spot and was followed by the efforts of DL8LR and HA5NB. In the 100 watt (Low Power) category, EA8MT scored 1.9 million points for first place, while UX9Q and EI1A were second and third, respectively. Pumping out the contacts and multipliers for the High Power top spot was CN2R (W7EJ, op). CN2R set an all-time new world record in 2014 but was also followed by nice efforts from 5B4AIF and PJ4DX. The CN2R effort also featured 3,669 contacts for an impressive rate of nearly 153 per hour.

For the United States and Canada, W6QU (W8QZA, op) was first for QRP, while N1UR put in yet another dominating Low Power performance with 882K for top honors. Ed, who set the LP Phone record in 2012, added that he believes the IARU contest is a "jewel" and likes the summertime conditions because it really makes for a different event.

W7WA accumulated an impressive 1.8 million points for the High Power top spot. His mighty score was also a new record for zone 7. Dan noted that a nice polar opening on 20 meters at night led to extended running when typical conditions lead to more S&P during those hours.

Single-Operator, CW

While CW is a very popular category for contesters, it does require an immense amount of skill and accuracy to finish well.

UC7K finished with the top QRP score of 531K. (HG3M – HA3MY, op – was disqualified for self-spotting.) For W/VE, VA3SB edged K8CN for the crown.

CW and 100 watts often provides quite a bit of excitement and 2014 was no different. LY5R was first in Low Power with 1.5 million, while IO4T was second

with 1.4 million, and UA3RF was third with 1.36 million.

As for the High Power operators, 5B4AGN was first overall signing as P3F with 4.1 million points. UA5C and 6V7S finished second and third respectively with 3.3 million and 3.1 million points.

The High Power showdown for W/VE was a tight one as well. However, when the dust settled AA3B had just enough to finish ahead of VE3JM. VE3JM finished with more QSOs, but AA3B had nearly 40 more multipliers to finish on top.

Multioperator

Multioperator efforts require the right mix of phone and CW operation but at the same time being exceptionally careful when chasing mults on other bands. The teams that are the most efficient typically finish very well.

For the world title, the team at RM9A cruised to 4.5 million points for first place, while second place was taken by CR3T (4.3 million), and chased by nearly 4.1 million points from UA4M.

The crew at K5TR worked together for 2.8 million points and the top spot in the United States and Canada but had to outperform the excellent crews at KD4D and W3UA. KD4D tallied 2.5 million and W3UA pocketed 2.4 million points. K5RX and N1LN rounded out the top five. The W/VE winners made about 70 CW contacts less than the second place team of KD4D but tallied 500 morephone QSOs than KD4D.



At K5TR, K5PI noted excellent 20 meter conditions at night and that he spent most of the time on CW while the host (K5TR) ground it out on phone. (Photo by K5TR)

6	-	en Worldwide Scores	-
Category Mixed	Power QRP	Call DK3WE UT5UN OK7CM SP5DDJ KØOU US2IZ 9A2EY LZ5QZ IZ8JFL DL6OCH	Score 654,408 443,016 433,020 325,251 231,870 202,583 184,832 142,800 130,686 122,952
Mixed	LP	MWØEDX PS2T (PY2NY, op) LY6A AA4NC RA9AP UR6EA 7Z1SJ R7MM N5DO YT2AAA	1,890,312 1,859,872 1,225,733 1,104,495 1,004,394 891,880 865,536 851,075 798,930 797,268
Mixed	ΗP	EF8U (EA8RM, op) UW1M A65BP KQ2M KP3Z (NP4Z, op) UPØL VE3AT K6XX OH6LI EU1A	4,534,184 4,023,788 3,974,580 3,785,940 3,351,600 3,253,104 3,222,115 3,045,750 2,848,225 2,842,775
Phone	QRP	FY5FY DL8LR HA5NB DKØTC (DL1APQ, op) SP7VTQ UR5IPW US5ZCW W6QU (W8QZA, op) HB9EGA NT4TS	1,074,258 371,209 310,980 155,848 113,918 108,429 98,905 78,078 62,048 61,544
Phone	LP	EA8MT UX9Q (UR9QQ, op) EI1A (ON4EI, op) HA3DX (HA4XH, op) EE7Y (EA7ISH, op) YV1KK RA3Y N1UR KP2/AA1BU G3VAO	1,964,314 1,602,992 1,347,192 1,296,625 1,085,088 1,023,400 890,813 882,336 834,426 736,296

Phone	ΗΡ	CN2R 5B4AIF PJ4DX H2T (5B4XF, op) HG8R (HA8JV, op) IW2HAJ IKØPHY ES5RW RJ4P ED8W	5,203,660 3,691,008 2,726,205 2,684,640 2,494,570 2,192,226 2,171,430 2,169,490 2,115,840 2,030,072
CW	QRP	UC7K LZ2RS UA8AA DD1IM VA3SB K8CN DL4SDW UX2MF UA1CUR N7IR	531,180 405,790 316,840 271,852 256,818 228,200 179,655 171,684 157,480 157,398
CW	LP	LY5R IO4T UA3RF WP3C W4IX W1RM DD5M (DJØZY, op) YR9F (YO9FNP, op) K7SV SP4JCQ	1,523,319 1,419,075 1,360,510 1,346,730 1,151,955 1,132,203 1,092,168 1,077,858 1,054,144 1,049,489
cw	ΗP	P3F (5B4AGN, op) UA5C 6V7S RG6G AA3B VE3JM OH1F (OH1TM, op) OQ5M (ON5ZO, op) OG2P (OH2PM, op) RT5Z (RA3CW, op)	4,103,834 3,330,360 3,130,668 2,936,848 2,897,100 2,767,694 2,631,930 2,391,347 2,385,216 2,347,048
Multi	НР	RM9A CR3T UA4M HG1S HG7T UR7GO DL2CC IR8C K5TR SP8R	4,576,196 4,317,392 4,087,280 3,936,845 3,819,202 3,362,115 3,301,812 3,142,731 2,817,848 2,791,565

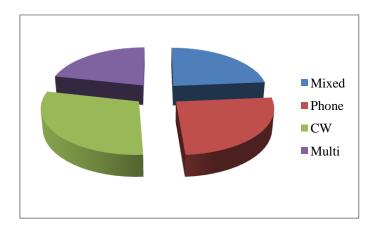
(Top Ten scores for US-Canada and DX-only can be found at the end of this article.)

Popular Bands

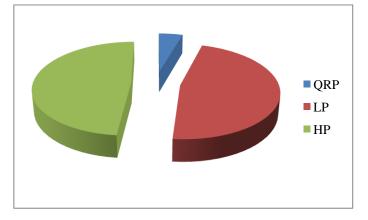
Summertime conditions can make for some slow times on HF but that's not always the case. There's typically just enough going on the summer to keep operators optimistic. In the northeast United States stations were able to catch decent propagation to Europe on 15 meters during the day with South America and the Pacific sprinkled in at night. U.S. stations south and west of W1 had some openings to Europe but not quite as good..

While 15 was solid and 10 provided some excitement, 20 and 40 seemed to be the big money bands throughout the world. Many of the WRTC participants, operating from Eastern Massachusetts, took advantage of a sunrise opening to Europe on 10 meters for late surge in score.

Popular Modes and Powers



Out of the 5565 logs received, the representation was pretty equal across all of the categories, both mode and power. Mixed-mode entries were 21% of the total. Phone entries made up 23% and CW 27%, while the share for Multioperator was 19%.



While QRP entries made up only 5% of the total, LP and HP were nearly equally split, 47% to 48%, respectively.

Notable efforts

While close finishes, high rates and big scores typically grab our attention, it's important to note efforts from parts of the world that don't have a dense contesting population. While Europe and North American casual operators can get on for short bursts of time and enjoy some high rates with relatively local contacts on the low bands or decent short-skip openings on the high bands, that's not the case in all parts of the world.

Oceania and Asia can provide some propagation challenges but that doesn't stop talented operators from slugging it out over 24 hours for some new wallpaper, plaques, or records.

For example, VK2DX scored just more than 1.3 million points to set a new record in Zone 59 for High Power, CW. There were several new records set in Australia, including the performances of VK4TS, VK2GR, VK6RC, and VK6SMK.

Indonesia was well represented in 2014, with YB2DX, YB4IR, YBØANN, YB2LSR, and YB9WAN winning awards. There's no doubt their efforts led to moments to celebrate for operators all over the globe.

Contesting has continued to grow in China in recent years, as evidenced by a BY team at WRTC 2014. Also of note, BD9XE set a Zone 43 record for mixed HP with 353K points.

In Japan, JR4GPA, JS3CTQ, and JI1RXQ all set new records for Zone 45.

Operators from Thailand got in on the record breaking, too as HSØZHC, HSØZKX, and E21YDP set new benchmarks.

Let's not overlook the big effort of XW1EIC (Laos), operated by E21EIC, who topped 1 million points, also breaking the old mixed high power record for Zone 49.

Antarctica isn't exactly heavily populated with hams but it is often active and in 2014 RW1AI operated as RI1ANT to set a new Zone 69 record in the High Power CW category.

Continental Leaders Continent Category Power Call Score Mixed Africa LP EA8AQV 56,388 EF8U (EA8RM. Mixed ΗP 4,534,184 op) Phone LP EA8MT 1,964,314 Phone ΗP 5,203,660 CN2R CW LP 261,855 CN8KD CW ΗP 6V7S 3,130,668 Multi ΗP CR3T 4,317,392 Mixed ORP 23,840 Asia JK1TCV LP Mixed RA9AP 1,004,394 Mixed ΗP A65BP 3,974,580 Phone ORP JA2MWV 9.776 Phone LP UA9R 456,960 Phone ΗP 5B4AIF 3,691,008 CW QRP UA8AA 316,840 CW LP 806,912 RX9AF P3F (5B4AGN, CW ΗP 4,103,834 op) Multi ΗP RM9A 4,576,196 Mixed QRP DK3WE 654,408 Europe Mixed LP MWØEDX 1,890,312 Mixed ΗP UW1M 4.023.788 Phone QRP DL8LR 371,209 UX9Q Phone LP 1,602,992 (UR9QQ, op) HG8R (HA8JV, Phone ΗP 2,494,570 (qo CW UC7K QRP 531,180 CW LΡ LY5R 1,523,319 CW ΗP UA5C 3,330,360 Multi ΗP UA4M 4,087,280 North Mixed LP AL2F 45,828 America KP3Z (NP4Z, Mixed ΗP 3,351,600 op) Phone QRP NP3RE 39,760 Phone LP KP2/AA1BU 834.426 Phone HP XE1B 694,500 CW QRP CO2IR 31,320

	CW	LP	WP3C	1,346,730
	CW	HP	XE1MM	51,957
	Multi	HP	6Y3M	1,959,776
Oceania	Mixed	QRP	YBØANN	430
	Mixed	LP	YB2LSR	35,150
	Mixed	HP	YB4IR	540,792
	Phone	QRP	VK4ATH	462
	Phone	LP	DV1JM	145,040
	Phone	HP	YB2DX	604,920
	CW	QRP	KH6/W8RU	33
	CW	LP	KH6CJJ	246,960
	CW	HP	VK2DX	1,316,406
	Multi	HP	KH6LC	1,984,338

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| South<br>America | Mixed | LP  | PS2T (PY2NY,<br>op) | 1,859,872 |
|------------------|-------|-----|---------------------|-----------|
|                  | Mixed | HP  | YV6CR               | 358,940   |
|                  | Phone | QRP | FY5FY               | 1,074,258 |
|                  | Phone | LP  | YV1KK               | 1,023,400 |
|                  | Phone | HP  | PJ4DX               | 2,726,205 |
|                  | CW    | QRP | LU3VA               | 36,972    |
|                  | CW    | LP  | PR7AB               | 601,290   |
|                  | CW    | HP  | PY2NA               | 624,568   |
|                  | Multi | HP  | PP5WG               | 2,268,888 |

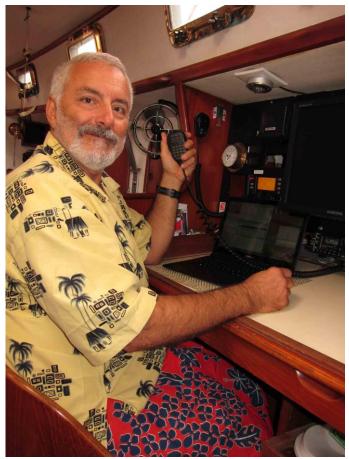
#### **Soapbox Musings**

Reading through the post-contest soapbox comments offers quite a bit of perspective on the event. While WRTC participants were pouring every ounce of radiosport know-how into the event, others were either celebrating birthdays, chasing wallpaper, plaques, just trying to work what they heard or simply experiencing the thrill of making contacts.

Perhaps one of the more interesting outings was the effort of K7ST, who operated maritime mobile off the coast of Fiji in ITU zone 56. Adam was in the midst of a Pacific cruise on his sailboat (Bravo) and decided to make use of some time and hand out zone 56. Signing K7ST/MM apparently threw off several operators but he managed 156 contacts with 100 watts and a wire.

From Adam's soapbox:

"Wow, what an exercise in frustration. Using /MM instead of /3D2 since no Fiji license, and I was at sea in ZONE 56..."...no, NOT ZONE 06, it's ZONE 56, really!!!.....No you have the call correct.....yes ZONE 56.....roger roger roger....." Nearly every one of the 156 Q's challenged the zone, telling me I was in zone 6. (Only ones who didn't were the terrific ops at WRTC......course zones weren't mults for them!!!) Couldn't get any rate going with 100w and a random length wire (insulated backstay on the boat), even with the zone 56 "amplifier effect".....great contest, though, and those WRTC ops, the few I could hear, were doing a great job. All sounded very equal from down under."



Adam, K7ST/mm, operated aboard the Bravo in his lava-lava, loading up an insulated backstay and putting zone 56 in more than 150 logs. Adam and Cindy, KF7UPI, have been sailing the Pacific for a couple of years with ham radio never far away. (Photo by Cindy Brennan, KF7UPI)

Many of the soapbox comments were related to the abilities shown by the WRTC operators. A lot of stations were busy hunting down all 59 teams for a shot at a few prizes that were available as well as extra points for the ARRL Centennial QSO Party.

K2PS, who was chasing the 1X1 WRTC participants, had this to offer:

"Working all those great WRTC ops was amazing. My sigs were pretty weak with LP and only a 40M dipole, up about 12-15 feet. But every WRTC station copied me somehow (at least on CW), where much louder zone 08 stations CQed in my face. Congrats to them all!"

K1MC, who spent a lot of time and energy helping with antenna setup at WRTC, still found some energy to get on the air and hand out QSOs.

"After being part of the group that put up the antennas for the WRTC2014 competition stations, I decided to work as many of them as possible. The total number of stations worked with the special 1 X 1 WRTC call signs was 48 after finishing at 0142 UTC. I would liked to have operated into the early morning but I needed to get some sleep since we had to take down all the antennas on Sunday morning when the contest ended."

#### **Next Year**

While the current solar cycle was slow to start, it has provided very solid HF conditions in the past two years. Hopefully, the Sun can produce a few more exciting events for contesters before it slowly goes to rest for a few years. The 2015 IARU HF Championship is scheduled for July 11th and 12th. Start planning now because the big event is just a few months away. Set your sights on a new personal goal, a certificate, a plaque or even a new all-time record, or simply have blast.

#### WRTC Perspectives from the Author

After contemplating whether to go all out to qualify for WRTC2010 and ultimately not putting in the needed effort, I decided to go for it for WRTC2014.

After qualifying as an alternate in March, I was brimming with enthusiasm about competing against so many fantastic radiosport standouts.

For me, becoming a contestant was similar to the moment in the movie Apollo 13 when Tom Hanks was informed he was going on the next mission. The character Hanks played immediately began preparing for the mission. So did I.

I sent an email to my teammate, N3KS (Kam), who was picked by original NA4E (North American team 4E) Team Leader NN3W (Rich) who stepped away for personal reasons. Kam was quick to respond and we began getting to know each other. Kam was a spectacular teammate and I would operate with him in any event after getting to know him during the WRTC experience. Kam is not only a talented operator, but also great with logistics, funny and really easy to get along with.

As the start of WRTC drew near, Kam and I swapped many ideas on how to tackle the contest. We did a dry run of the event during ARRL Field Day. We didn't spend a lot of time on the radio, but we got everything running and ready to go for WRTC. We had very few problems and we felt confident about our setup.

I drove back to North Carolina after a successful time at Kam's and my brain continued to work in overdrive about how we could maximize our performance during the contest – it was only two weeks away. It's amazing how the brain works – I wasn't even bothered by the traffic heading back from the DC area.

After tying up a few details it was time to settle on travel plans. We were concerned about how to get our equipment to WRTC HQ. We were set on flying to the event but we weren't too crazy about sending our equipment on the plane - N3ND (Dan) to the rescue.

Dan lives a few miles from me in North Carolina. He was already planning on going to WRTC as a spectator. Making a long story short, Dan transported our equipment to Westborough and the equipment headache was gone.

Kam and I arrived at WRTC HQ on the afternoon of July 8th. The social pileup, and really the true essence of the event in my opinion, began as soon as we got out of the rental car. The pileup never slowed down and the next week would be one of the fastest, interesting, thrilling and memorable of my life.

While I had met many participants at Dayton in the past, there were far more who I had never met face-to-face. Ham Radio operators share a special bond – and that was never more evident to me than at WRTC2014. It's unique to be so comfortable with people you have never met face-to-face. Looking back at photos taken during the event, it's obvious that everyone is exceptionally happy.

Personal stress and excitement reached all-time high levels for me as the event approached. I relaxed quite a bit after venturing to our site (13A) - a cranberry bog. We couldn't have asked for much more – the nearest site was nine tenths of a mile away. Station interference was minimal and we had no issues with noise – it may have been the quietest place from which I have operated.

We had a fantastic judge – LY7Z (Andy). He had participated in past WRTCs and was a big supporter of our efforts. Andy was gracious enough to even invite Kam and I to his home QTH.

Kam quickly got to work on setting up the station when we arrived at the site late Friday morning. Everything was ready to go pretty quickly. Upon firing up the station a K3 failed upon power-up. We had a spare K3 and quickly put it in line. We were suspicious of our triplexer as well. Rather than worrying about it too much we put in our backup (thanks WX3B!). That was about it for equipment issues. Kam was successful in finding an additional backup – all was good again.

Pre-contest testing was a lot of fun. We worked a couple of hundred stations and returned to HQ by 6 p.m. and later ran into KE3X (Ken) while picking up groceries for the main event. I slept well throughout the week but was unable to do so the night before. I was up at 4:30 a.m. and trying to not wake my roommate (CT1BOH). I didn't need sleep at that point – it was game day and adrenaline easily carried me through the contest.

We were elated to receive K1R as our call. It was one of the calls Kam mentioned in conversation as we drove to the site the morning of the contest. We cheered with excitement when Andy handed us the envelope with 15 minutes before the starting bell. We programmed our CW messages and we were ready.

I really enjoyed the flying start. Having the radio silenced and jumping in when the clock struck 12Z was quite a thrill. We were off and running. I think I took my first breath 12 minutes into the contest. I specifically remember taking a huge breath at that point. I started to relax and the QSOs were already piling up for team K1R.

In the end, Kam and I finished 20th out of 59 teams and were sixth overall in QSOs. We discussed what we could have done to improve our score and both agreed on our miscues. But in the end, it was one heck of an experience. The standings were close and a few mults here or there made a huge difference. I want to congratulate fellow PVRC members KØDQ (Scott) and KE3X for a fantastic effort. They spent a lot of the contest in the top ten.

Eventual winners KL9A and N6MJ are class guys. They are not just incredible ops but also incredibly personable. In the days before the event KL9A mentioned that he and N6MJ may not be able to participate after the 2014 events because family obligations would make it difficult to carve out time to qualify. KL9A said winning was about the only chance they had to return – needless to say it appears they will get an automatic bid to the next event.

Prior to leaving for WRTC, AA4NC (Will), who participated in WRTC1990, told me the social aspect would mean far more to me than the actual operating. AA4NC was right – I have made many new friends.

I must take a moment thank all of the friends, family, PVRC Members (especially PVRC-NC) who helped me with this event. The support was out of this world – it was not unnoticed and I will be forever grateful for it.

My wife commented that she would be happy to have me back after WRTC – I told her I would miss her, too. She made herself a little clearer by saying, "No honey, it will be nice to have Nate back." I got it. Needless to say my mind was pretty much one-track for the past few months. If you ever get the opportunity to participate on any level at a future WRTC - I strongly recommend it. It really is like drinking radiosport through a fire hose.

On a final note, the WRTC2014 organizers did an incredible job of organizing such a gigantic event. If anyone is looking for pointers on how to organize such a large function, I recommend contacting those involved with WRTC2014.

| -        | Top Ten | US-Canada Scores  |           |
|----------|---------|-------------------|-----------|
| Category | Power   | Call              | Score     |
| Mixed    | QRP     | KØOU              | 231,870   |
|          |         | NA4CW             | 87,138    |
|          |         | КТ8К              | 45,140    |
|          |         | KU4A              | 19,320    |
|          |         | K8ZT              | 17,298    |
|          |         | K1LT              | 9,835     |
|          |         | KC5WA             | 7,920     |
|          |         | W4DFG (W1TEF, op) | 2,781     |
|          |         | AF9J              | 1,088     |
|          |         | NN7SS (K6UFO, op) | 996       |
| Mixed    | LP      | AA4NC             | 1,104,495 |
|          |         | N5DO              | 798,930   |
|          |         | N5ZC              | 707,460   |
|          |         | KU8E              | 683,000   |
|          |         | K9OM              | 657,845   |
|          |         | N4OX              | 645,120   |
|          |         | VE3BR             | 624,792   |
|          |         | WØDLE             | 544,765   |
|          |         | KØAD              | 420,046   |
|          |         | W6AWW             | 361,921   |
| Mixed    | HP      | KQ2M              | 3,785,940 |
|          |         | VE3AT             | 3,222,115 |
|          |         | K6XX              | 3,045,750 |
|          |         | W2FU (N2ZN, op)   | 2,437,358 |
|          |         | WØEWD (@NØNI)     | 1,653,093 |
|          |         | K4AB              | 1,648,992 |
|          |         | K3ZO              | 1,548,072 |
|          |         | W040              | 1,430,702 |
|          |         | W1WMU             | 1,412,580 |
|          |         | VE3OI             | 1,333,150 |
| Phone    | QRP     | W6QU (W8QZA, op)  | 78,078    |
|          |         | NT4TS             | 61,544    |
|          |         | WBØIWG            | 7,200     |
|          |         | N4ZAK             | 5,472     |
|          |         | K7RLL             | 3,432     |
|          |         | KK6RF             | 2,684     |
|          |         | AB3RW             | 2,673     |
|          |         | К9ЈК              | 1,302     |
|          |         | KK7VL             | 876       |
|          |         | VE5DLD            | 448       |
|          |         |                   |           |

| Phone | LP  | N1UR             | 882,336   | Multi HP | K5TR           |           |                  | 2,817,848        |
|-------|-----|------------------|-----------|----------|----------------|-----------|------------------|------------------|
|       |     | KT4ZB            | 265,950   |          | KD4D           |           |                  | 2,570,425        |
|       |     | VE1WOW (K1WO,op) | 204,672   |          | W3UA           |           |                  | 2,435,028        |
|       |     | W4FT             | 197,349   |          | K5RX           |           |                  | 2,094,400        |
|       |     | VE3VE            | 162,500   |          | N1LN           |           |                  | 1,942,655        |
|       |     | K6GHA            | 153,034   |          | N3RS           |           |                  | 1,919,148        |
|       |     | VA3GKO           | 144,353   |          | WW4LL          |           |                  | 1,792,792        |
|       |     | N9DFD            | 133,168   |          | K5RT           |           |                  | 1,728,396        |
|       |     | НІЗК             | 129,528   |          | KD2RD          |           |                  | 1,329,333        |
|       |     | K5DHY            | 128,340   |          | VE7ZO          | (@VE7UF   | -)               | 1,283,469        |
| Phone | HP  | W7WA             | 1,851,816 |          |                |           |                  |                  |
|       |     | K5LLA            | 717,500   |          | Divisio        |           | nore             |                  |
|       |     | AD5XD            | 635,318   |          |                | on Win    |                  | _                |
|       |     | WA5OYU           | 556,248   | Division | Category       | Power     | Call             | Score            |
|       |     | K5ER             | 537,119   | Atlantic | Mixed          | QRP       | NQ2T             | 404              |
|       |     | W6AFA            | 385,402   |          | Mixed          | LP        | KB3LIX           | 121,030          |
|       |     | VE7SZ            | 363,924   |          | Mixed          | HP        | W2FU             | 2,437,358        |
|       |     | N5MV             | 341,824   |          | Dharan         | 0.00      | (N2ZN, op)       |                  |
|       |     | KØRH             | 321,195   |          | Phone          | QRP       | AB3RW            | 2,673            |
|       |     | КК7ҮС            | 293,248   |          | Phone          | LP        | W2TF             | 91,242           |
| CW    | QRP | VA3SB            | 256,818   |          | Phone<br>CW    | HP<br>QRP | WB2KLD<br>WA2FBN | 21,824<br>2,436  |
|       |     | K8CN             | 228,200   |          | CW             | LP        | NW2K             | 2,430<br>504,452 |
|       |     | N7IR             | 157,398   |          | CW             | HP        | AA3B             | 2,897,100        |
|       |     | K3TW             | 51,798    |          | Multi          | НР        | KD4D             | 2,570,425        |
|       |     | AC8AP            | 51,392    | Canada   | Mixed          | LP        | VE3BR            | 624,792          |
|       |     | W1WBB            | 28,860    |          | Mixed          | HP        | VE3AT            | 3,222,115        |
|       |     | K9JWV            | 27,750    |          | Phone          | QRP       | VE5DLD           | 448              |
|       |     | N1RU             | 25,956    |          |                |           | VE1WOW           | 004 670          |
|       |     | AI9K             | 15,662    |          | Phone          | LP        | (K1WO,op)        | 204,672          |
|       |     | кøмр             | 15,365    |          | Phone          | HP        | VE7SZ            | 363,924          |
| CW    | LP  | W4IX             | 1,151,955 |          | CW             | QRP       | VA3SB            | 256,818          |
| •••   |     | W1RM             | 1,132,203 |          | CW             | LP        | VE1RGB           | 596,778          |
|       |     | K7SV             | 1,054,144 |          | CW             | HP        | VE3JM            | 2,767,694        |
|       |     | NA8V             | 783,450   |          | Multi          | HP        | VE7ZO            | 1,283,469        |
|       |     | W1NN             | 771,274   |          |                |           | (@VE7UF)         |                  |
|       |     | WJ9B             | 747,285   | Central  | Mixed          | QRP       | AF9J             | 1,088            |
|       |     | K1IMI            | 688,524   |          | Mixed          | LP        | K9OM             | 657,845          |
|       |     | WB4TDH           | 670,662   |          |                |           | WR9D             | 4 007 004        |
|       |     | VE1RGB           | 596,778   |          | Mixed          | HP        | (KB9UWU,         | 1,037,321        |
|       |     | W7YAQ            | 590,472   |          | Dhana          |           | op)              | 1 202            |
| CW    | HP  | AA3B             | 2,897,100 |          | Phone<br>Phone | QRP<br>LP | K9JK<br>W9RF     | 1,302<br>49,416  |
| CW    |     | VE3JM            | 2,767,694 |          | Phone          | HP        | W9RF<br>WB9ONU   | 49,410<br>74,883 |
|       |     | N4OGW            | 2,120,676 |          | CW             | QRP       | N1RU             | 25,956           |
|       |     | VA2EW            | 2,090,848 |          | CW             | LP        | K9QVB            | 152,570          |
|       |     | WØUA             | 1,963,704 |          | CW             | HP        | K9CT             | 1,445,026        |
|       |     | K7GM             | 1,853,670 |          | Multi          | HP        | NV9L             | 1,067,840        |
|       |     | K3EL             | 1,530,816 | Dakota   | Mixed          | LP        | KØAD             | 420,046          |
|       |     | K9CT             | 1,445,026 |          | Phone          | QRP       | WBØIWG           | 7,200            |
|       |     | N5XZ             | 1,439,465 |          | Phone          | LP        | NØECK            | 81,310           |
|       |     | K2SSS            | 1,383,824 |          | Phone          | HP        | NUØW             | 2,976            |
|       |     | 12000            | 1,505,024 |          | CW             | QRP       | NØHOT            | 3,920            |
|       |     |                  |           |          | CW             | LP        | NAØN             | 395,008          |
|       |     |                  |           |          | CW             | HP        | ктøа             | 131,140          |
|       |     |                  |           |          | Multi          | HP        | κøκχ             | 230,724          |
|       |     |                  |           |          |                |           |                  |                  |

| MixedLPKSAX25,584MixedHPKSUZ54,329PhoneLPNVWAU55,619PhoneLPKGHA13,PhoneLPNVWAU55,619PhoneHPKGFB23,CWQPNZWN10,076CWUPHBA85,CWLPKHZ25,016CWLPHBA85,CWHPNAOCW21,20,676MultiHPKGMM95,7,MultiHPNAOCW21,20,676MultiHPKGM1,104,MultiHPNAOCW21,20,676MultiHPKGM1,104,PhoneLPALAR55,2069MixedLPALAR1,104,PhoneLPACAF55,2069MixedHPKGM1,104,PhoneLPKGR73,450PhoneLPALAR1,104,PhoneLPNACAF73,132PhoneLPALAR1,104,CWQRNK2Z73,833CWLPNIN1,92,HudsonMixedLPNA2W13,134MultiHPNIN1,92,HudsonMixedLPNZ2QPhoneLPKGM1,83,HudsonMixedRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRCRC <th>Dalla</th> <th></th> <th>0.00</th> <th></th> <th>7 020</th> <th></th> <th></th> <th></th> <th>W7467</th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dalla        |         | 0.00 |         | 7 020     |              |                                       |     | W7467           |           |
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| MixedHPKSUZSA4,320PhoneRDRGCHA153,35PhoneHPWASDYU556,248C/WC/WC/R818,60C/WUPK41TA250,815C/WHP816,00232,00C/WUPK41TA250,815C/WHP868,0092,92,07MultiHPN400/W2,120,670MultiHP869,0093,00MixedUPK41TA252,069MixedUP1,124,00MixedHPW3CAR552,069MixedLP8,43,00PhoneHPK28FT21,22,00PhoneQR1,124,12PhoneHPK28FT21,22,00PhoneRPW42AK5,13,00C/WQRPAC8AP51,332PhoneRPW42AK1,13,12,12PhoneHPN88U789,650C/WHPW42AK1,13,13,14HudsonMixedHPV2U/N418,782RockyMixed1,142,12MuttiHPV2U/N418,782RockyMixed1,122,11,13,14Mixed1,142,11,13,13,14Mixed1,142,11,13,13,14Mixed1,142,11,13,13,14Mixed1,142,11,13,13,14Mixed1,142,11,13,13,14Mixed1,142,11,13,13,14Mixed1,142,114,11,13,13,14Mixed1,142,114,114,114,114,114,114,114,114,11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Delta        | Mixed   | QRP  | KC5WA   | 7,920     | Pacific      | Mixed                                 | LP  | K7ACZ           | 140,566   |
| PhoneLPNV4KU55,6,19PhoneRWFB32,0CWQPR2WN10,076CWLPNR85,2CWLPK40CW2,10,676CWLPNR32,0CWHPN40CW2,12,0,676WILENR32,0MultiHPN40CW2,12,0,676WILENV75,2MultiHPN40CW2,12,0,676NRNR32,0MixedCPNTSK55,2,059MixedHPAANNC1,10,2PhoneLPACSP52,2,070MixedHPAANNC1,10,2PhoneLPACSP21,2,20PhoneLPAANNC1,10,2PhoneLPACSP78,3,30PhoneLPAANNC1,10,2CWLPN88LQ769,699CWLPN42AL1,83,14LudsonMixedLPN22LG13,132CWLPN40LL1,83,14HudsonMixedN22LG13,213CWLPN40LL1,83,14HudsonMixedNPN22LG13,213CWLPN40LL1,94,14MixedCWRQWK2T8,5,580MountainMixedRQN40LW3,21,370MixedMixedNPV22LG33,31,54CWQRN40LW1,414,141,414,141,414,141,414,141,414,141,414,141,414,141,414,141,414,141,414,141,414,14 <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |         |      |         |           |              |                                       |     |                 |           |
| PhoneHPWASOVU556,248CWQ.PWBEDDCWUPKAITA250,815CWHPK6W223,CWUPNASOV2210,660W101W20,660W101W20,660MixedUPNSVV211,640W101HPK0111,101,PhoneUPK28,7552,069MixedHPK0111,101,PhoneHPK28,7322,070MixedHPK0111,112,PhoneHPK28,7212,220PhoneQPK42,45,CWUPNASV783,450PhoneHPK38,41,113,MultiHPK28,7321,223PhoneHPK38,41,114,MultiHPK28,1382,158CWHPK76,41,853,MultiHPN20,0143,152CWHPK36,41,41,PhoneHPK21,00143,152CWHPK77,41,51,PhoneHPK22,0143,152CWHPK77,41,61,PhoneHPK22,0134,360CWQP1,62,393CWQP1,62,393MixedHPK22,01,32,233CWQPN,1011,42,491,62,393CWQP1,64,89PhoneHPK20,023,72,6CWQPN,1011,42,491,64,891,64,891,64,891,64,89PhoneHPK30,402,22,333                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |         |      |         |           |              |                                       |     |                 | 20,220    |
| CWORPN2WN10.076CWLPHBA85,CWLPK14L250.815CWLPK18K55,Great LakesMixedORPKT8K45,140RoanokeMixedHPK6MMMMinedLPN8VV211.640MixedHPM2(V)0711.22,MixedLPN8VV211.640MixedHPN8L11.22,0707PhoneLPACBF22.070MixedHPN8L11.21,PhoneLPACBF21.220PhoneLPW4TT197,CWQRPACBAP733.450PhoneLPW4TT197,CWLPN8BU782,158CWHPW1KI1.942,MultiHPKS2G45,580MountainMixedHPN1N1.942,MixedLPX2GN118,860PhoneLPN7A2W116,PhoneLPK2GE33,154CWQRPN402W27,MixedLPK2GEB155,400MixedHPW3UV27,MixedLPK2GEB155,400MixedHPW41C1.843,MixedLPK2GEB155,400MixedHPW41C1.843,MixedLPW2GN1.63,093,CWHPW41C1.843,MixedLPK2GPEB1.53,093,CWHPW41C1.843,MixedLPW2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |      |         |           |              |                                       |     |                 | 896       |
| CWUPK4LTA250,815CWHPK0VC237,<br>Wulti237,<br>WultiHPK0KM237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W4DFG237,<br>W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |      |         |           |              |                                       |     |                 | 85,436    |
| CWHPNADG/W2.120,676MultiHPKGMMM957,<br>WGG0Great LakesMultidQRPKTBK45,140RoanokeMixedQRP(W1TEF,<br>Q,<br>op)MixedHPWSCAR552,069MixedHPAAARC1,104,<br>1,122,<br>PhoneLPAAARC1,104,<br>1,122,<br>PhoneLPAAARC1,104,<br>1,122,<br>PhoneLPAAARC1,104,<br>1,122,<br>PhoneLPAAARC1,104,<br>1,122,<br>PhoneLPAAARC1,104,<br>1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,122,<br>PhoneLPNAARC1,124,<br>PhoneLPNAARC1,124,<br>PhoneLPNAARC1,124,<br>PhoneLPNAARC1,124,<br>PhoneLPNAARC1,124,<br>PhoneLPNAARC1,124,<br>PhoneLPNAARC1,143,<br>PhoneLPNAARC1,143,<br>PhoneLPNAARC1,143,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNAARC1,144,<br>PhoneLPNA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |         |      |         |           |              |                                       |     |                 | 237,262   |
| Mikiti         HP         NADW         420,660         Water         Water         Water         Water         Souther         Water         Souther                                                                                                                                                                                                                                                                                                           |              |         |      |         |           |              |                                       |     |                 | 957,504   |
| Mixed         LP         NSV         211,640         Niked         LP         on           Mixed         LP         AC8JF         52,070         Mixed         HP         NSII         1,122,           Phone         HP         KE8F         21,220         Phone         LP         NA3K         5,122           Phone         HP         KE8F         21,220         Phone         LP         N42K         5,122           CW         LP         NA8V         783,450         Phone         LP         WaFT         197,           CW         LP         NA8U         769,699         CW         LP         WaK1         1,312,           Muked         HP         N2UN         413,782         Rocky         Multi         HP         K77K         415,           Phone         LP         WA2UK         133,3154         Mixed         HP         K77K         415,           CW         MP         W2LE         333,154         CW         LP         W2LP         96,           CW         HP         W2LE         132,733         CW         HP         W2LP         96,           CW         HP         W2K0         1,78,40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |         |      | N4DW    |           |              |                                       |     |                 | ,         |
| MixedHPW&CAR552,069MixedHPAAAC1,122,<br>PhoneMixedHPAAAC1,122,<br>1,122,<br>PhoneMixedHPNBII1,122,<br>1,122,<br>PhoneMixedHPNBII1,122,<br>1,122,<br>PhoneMixedHPNBII1,122,<br>1,122,<br>PhoneMixedHPNBII1,122,<br>1,122,<br>PhoneMixedHPNBII1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>PhoneHPNAAC1,104,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,122,<br>1,123,<br>1,123,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,124,<br>1,1   | Great Lakes  | Mixed   | QRP  | КТ8К    | 45,140    | Roanoke      | Mixed                                 | QRP | (W1TEF <i>,</i> | 2,781     |
| PhoneLPACSUF92,070MixedHPNBII1.122,PhoneCWQRPACBAP51,392PhoneQRPNAZAK5,CWLPNASV783,450PhoneHPKARQ114,CWLPNASU/QK134,314CWHPNKRQ1,93,MultiHPKSBL382,158CWHPNULL1,942,MukedLPWAZQK143,782RockyMultiHPKQTM1,942,PhoneLPK21MY77,100MixedMixedKO7X415,CWQRPWK2T8,052PhoneLPNVMZW116,CWUPWZGN133,154CWQRP8,01W27,MultiHPWQED1,53,093CWQRP8,01W27,MukedQRPKQDU231,870CWQRPNAICW87,MixedQRPKQDU231,870MixedQRPNAICW87,MixedQRPKQDU231,870MixedQRPNAICW87,MixedQRPKQNU178,440PhoneQRPK3TU9,MixedQRPKQNU178,440PhoneQRPK3TW51,MixedQRPKQNU178,440PhoneQRPK3TW51,MixedQRPKGRH321,195PhoneQRPK3TW51,MixedQRPKGRH321,295Phone <t< td=""><td></td><td>Mixed</td><td>LP</td><td>N8VV</td><td>211,640</td><td></td><td></td><td></td><td>op)</td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | Mixed   | LP   | N8VV    | 211,640   |              |                                       |     | op)             |           |
| PhoneHPKERFT212,220PhoneQRPM4ZAKM2CWQRPAC8AP51,392PhoneLPW4FT197,CWHPNA8V783,450PhoneHPKA8Q114,CWHPNA8U769,699CWLPW4IX1,513,MultiHPKS8L382,158CWHPK7GM1,833,MukedLPW2JQK143,184MultiHPN1LN1,942,MixedHPK2G45,580MountainMixedHPK7K43,57PhoneHPK2G45,580MountainMixedHPK7K43,57CWQRPWZT8,052PhoneHPN7K116,CWLPW2GN113,860PhoneHPN7K1,96,CWLPK2GD1,329,333,154CWQRPNA1CW87,MikedQRPK90U231,870CWQRN4ACW87,MikedQRPK90N11,653,093SoutheasternMixedQRNA4CW83,PhoneLPK90KU1,722PhoneLPK4AB1,648,CWQRPK1T9,835CWQRK14TA98,MixedQRK1HN2,172PhoneLPK04Z2,55,CWQRK1HN1,132,203CWQRK14TA98,MixedLPK02M3,725,940Phone <td></td> <td>Mixed</td> <td>HP</td> <td>W8CAR</td> <td>552,069</td> <td></td> <td>Mixed</td> <td>LP</td> <td>AA4NC</td> <td>1,104,495</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | Mixed   | HP   | W8CAR   | 552,069   |              | Mixed                                 | LP  | AA4NC           | 1,104,495 |
| CWQRPACSAP51,392PhoneLPW4FT19.7,CWLPNA8V783,450PhoneHPKA8Q114,CWLPNA8LQ769,699CWLPW4LX1,151,MultiHPK8BL382,158CWHPN1LN1,942,MixedHPN2UN418,782RockyMultiHPN1LN1,942,PhoneHPK2UN418,782RockyMultiHPN07X415,CWQRPWK2T8,052PhoneHPN7ZW116,CWLPW2GN118,860PhoneHPN7ZW116,CWHPW2LE333,154CWQRPK9UA1.96,MultiHPK2G0L231,870CWHPW0UA1.96,MikedQRPKØOU231,870CWHPW0UA1.96,MikedQRPKØUN1.653,093SoutheasternMixedQRPNA4CW87,MikedQRPKØRH321,195PhoneQRK4AB1.648,PhoneLPKØVEU178,440PhoneQRK4ACH98,CWQRKØVEU178,440PhoneQRK4AB1.648,PhoneLPKØKH321,195PhoneQRK4AB1.648,PhoneLPKØKA33,726CWQRK6AQ78,CWQRKKEUP393,354,323C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | Phone   | LP   |         | 92,070    |              | Mixed                                 | HP  | N8II            | 1,122,160 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |         |      |         |           |              |                                       |     |                 | 5,472     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |         |      |         |           |              |                                       |     |                 | 197,349   |
| Multi         HP         K88L         382,158         CW         HP         K7GM         1,853           Hudson         Mixed         LP         W2LQK         143,184         Multi         HP         N1LN         1,942,           Mixed         HP         N2UN         418,782         Rocky         Mixed         LP         WgDLE         544,           Phone         HP         KSZG         45,580         Mountain         Mixed         HP         K7XX         415,           CW         QP         WZT         8,052         Phone         LP         N7M2W         116,           CW         HP         W2E         333,154         CW         QP         K3UW         27,           Mided         QP         KØU         1,229,333         CW         LP         ADIC         96,           Mixed         QP         KØU         1,553,093         Southeastern         Mixed         HP         K42E         633,           Phone         HP         KØKH         221,195         Phone         LP         K42E         655,           CW         QP         KØKH         321,195         Phone         LP         K42E         623, <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>114,000</td>                                                                                                                                                                                                                                                                                                                                                                               |              |         |      |         |           |              |                                       |     |                 | 114,000   |
| HudsonMixedHPWA2UK143,134MultiHPN1LN1,942,PhoneLPN2UN418,782Rocky<br>MountainMixedLPWøDLE544,PhoneLPK2JK45,580MountainMixedHPK07X415,CWQRPWK2T8,052PhoneHPK7X415,CWLPW2GN118,860PhoneHPNSHC61,CWHPW2LE333,154CWQRPK3JWV27,MultiHPK02RD1,329,333CWLPK02LD1,96,MixedQRPKØDU231,870CWHPWØLW481,MixedLPKØDEND1,653,093SoutheasternMixedQRPNA4CW87,MixedHPKØRH321,195PhoneHPK4AB1,648,PhoneLPKØRH321,195PhoneQRPN14TS61,CWQRPNØHYD1,722PhoneQRPN14TS61,MuktiHPNØAX33,726CWQRPK3TU500New EnglandMixedQRPK1LT9,835CWQRWN44LT98,CWLPKØRH321,195CWQRPN44U94,74,New EnglandMixedQRPK1LT9,835CWQRWK1LT9,835CWQRW14,14,372New EnglandMixedQRPK1LT <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,151,955</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |         |      |         |           |              |                                       |     |                 | 1,151,955 |
| MixedHPNZUN418,782Rocky<br>MountainMixedLPWØDLE544,PhoneHPKS2G45,580MountainMixedHPKO7X415,CWQRPWK2T8,052PhoneHPNTMZW166,CWLPW2ON118,860PhoneHPNSHC61,CWHPW2EL333,154CWQRPKSIWV27,MilditHPKO2RD1,329,333CWHPKØUA1,963,MixedQRPKKØU231,870MultiHPWØLA1,963,MixedLPKØØU231,870MixedQRPNA4CW87,MixedHP(@N§NI)1,653,093SoutheasternMixedQRPNA4CW87,PhoneHPKØRH321,195PhoneQRNT4TS61,CWQRPNØAV1,722PhoneHPKU8E625,CWHPKØRH321,195PhoneHPKI4TA98,CWHPNØAX3,726CWHPNAU91,41,372,MultiHPNØAX3,785,940SouthwesternMixedLPKGAP1,24,336CWHPN1UR882,336MultiHPKGAP65,1,24,41,41,41,792,MixedHPK1LT9,835,028PhoneHPKGAP65,1,24,41,41,41,792,NorthwesternMixedHPKU1L1,243,304 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,853,670</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |         |      |         |           |              |                                       |     |                 | 1,853,670 |
| Phone         LP         KS2G         45,580         Mountain         Mixed         LP         Wd0LE         544,<br>944,<br>944,<br>945,580           CW         QRP         WK2T         8,052         Phone         HP         K07X         415,<br>61,<br>CW         61,<br>CW                                                                                                                         | Hudson       |         |      |         |           |              | Multi                                 | HP  | N1LN            | 1,942,655 |
| PhoneHPK2JWY77,100MixedHPK07X415,CWQRPWK2T8,052PhoneLPN7MZW116,CWLPW2GN118,860PhoneHPN5HC61,MultiHPW2LE333,154CWQRPK9WV27,MultiHPKD2ED1,329,333CWLPN5HC61,MixedQRPKØOU231,870CWHPWØUA1,963,MixedQRPKGØDEB155,400MultiHPWØUA1,963,MixedHPKQØLEB1,553,093SoutheasternMixedQRPNA4CW87,MixedHPKØRH22,125PhoneQRNA4CW87,CWQRPNØHVD1,722PhoneQRN44TA98,CWQRPNØHVD1,722PhoneHPKJ4LTA98,CWLPKØVBU178,440PhoneHPKJ4LTA98,CWLPKØVBU1,732,30CWLPWW4LU1,792,New EnglandMixedLPKBLNZ141,372MultiHPWA2LW3,78,5940New EnglandMixedLPK1LT9,835CWHPW6QZA,78,New EnglandMixedLPKBLNZ141,372MultiHPW6QZA,78,NorthwesternMixedQRPK1LT9,835,028PhoneHPK6GA35,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |         |      |         |           |              | Mixed                                 | LP  | WØDLE           | 544,765   |
| CWQRPWK2T8,052PhoneLPN7MZW116,CWLPW2GN118,860PhoneHPNSHC61,CWHPW2LE333,154CWQRPK9JWV27,MikedHPKZOD1,329,333CWLPNDIC96,MixedLPKCØDE1,553,093MultiHPWØUA1,963,MixedLPKØOU231,870MultiHPWØUA1,963,MixedLPWØKNN28,728MixedLPKUSE683,PhoneLPWØKNN28,728MixedHPK4AE1,648,PhoneLPKØRH321,195PhoneLPK14ZB265,CWQRPNØHYD1,722PhoneQRPK14ZB265,CWLPNØAX33,726CWQRPK3TW51,MultiHPNØAX3,785,940SouthwesternMixedHPW64AU1,792,MixedQRK11T9,835CWHPW4UL1,792,W64AU1,794,MixedHPK11LX261,136WCWHPW64AU1,724,W66A1,244,PhoneLPW1RM1,132,203CWHPK61A1,244,W66A1,244,PhoneLPW1RM1,132,203CWQRPN71R157,QRP66,QRP66,78,79,77,83,79,74,85,31,016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |         |      |         |           | Mountain     | N diversel                            |     | KOZY            |           |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |         |      |         |           |              |                                       |     |                 | 415,467   |
| CWHPW2LE333,154CWQRPK9JWV27,MiltiHPK02DR1,229,333CWLPADIC96,MixedQRPK00DEB155,400MultiHPW0/LNW4.96,MixedLPKCØDEB155,400MultiHPW0/LNW4.81,MixedLPKCØDEB155,400MultiHPW3/LNW481,MixedLPW0/KAN28,728MixedCRPNA4CW87,PhoneLPW0/KAN28,728MixedHPK4AB1,648,PhoneLPK0/RH321,195PhoneQRPN14TS61,CWQRPNØ/V1,722PhoneLPK14LTA98,CWLPK0/RU178,440PhoneHPK14LTA98,MultiHPNØ/AV13,726CWLPW4UU914,MixedQRPK11T9,835CWHPN4UU914,MixedLPK11LT9,835CWHPW4UU1,92,MixedHPK12LX26,1,136MixedHPK6A1,244,PhoneLPN11R1,32,203OP)OP)OP)0PCWLPW12K1,228,302PhoneHPW6AFA385,NorthwesternMixedLPN7XPN48,783MultiHPW6AFA351,NorthwesternMixedLPN7XPN48,783 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>61,548</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |         |      |         |           |              |                                       |     |                 | 61,548    |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |         |      |         |           |              |                                       |     |                 | 27,750    |
| Midwest         Mixed         QRP $KØOU$ 231,870         CW         HP $WØUA$ 1,963,<br>1,653,093           Mixed         LP         KCØDEB         155,400         Multi         HP         WJKWU         481,<br>1,653,093           Phone         LP         WØKAN         28,728         Mixed         LP         KU8E         683,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,663,<br>1,664,<br>1,722         Phone         LP         KU8E         683,<br>1,663,<br>1,663,<br>1,664,<br>1,664,<br>1,664,<br>1,722           New England         Mixed         LP         KØV8U         1,78,400         Phone         HP         KJ41,TA         98,<br>1,660,<br>1,722           New England         Mixed         LP         KB1NZ         1,41,372         Multi         HP         KJ41,TA         98,<br>1,244,<br>1,792,<br>1,435,203         Wolti         HP         KGLA         1,244,<br>W6QU           Nixed         LP         N1UR         882,336         Multi         HP         KGA         1,244,<br>W6QU         1,244,<br>W6QU           N |              |         |      |         |           |              |                                       |     |                 | 96,723    |
| MixedLPKCØDEB155,400MultiHPWA7LNW481,<br>Mixed481,<br>MixedQRPNA4CW87,<br>NA4CW87,<br>(@)(M)(M)1,653,093SoutheasternMixedQPNA4CW87,<br>Nixed87,<br>LPMixedLPKU8E683,<br>(68,83,728)PhoneLPWØKAN28,728MixedHPK4AB1,648,<br>(48,78)1648,<br>PhoneLPKU8E683,<br>(48,78)PhoneHPKØRH321,195PhoneQRPNT4TS61,<br>(48,78)CWQRPNØHYD1,722PhoneLPKU8E265,<br>(26,78)CWHPNØAX33,726CWQRPK3TW51,<br>(40,79)MultiHPNØAX33,726CWHPN4UU914,<br>(12,792,MixedQRPK1T9,835CWHPN4UU914,<br>(12,293)New EnglandMixedQRPK11X9,835CWHPWAUU914,<br>(12,293)MixedHPK02M3,785,940SouthwesternMixedHPWAUU914,<br>(12,293)NorthwesternMixedHPK12X261,136W6QUW6QUW6QUCWQRPK8CN228,200PhoneLPKGAFA355,<br>(2WW6QUNorthwesternMixedLPW10K1,028,304PhoneHPW6AFA355,<br>(2WQP)W64FA356,<br>(2WQP)Nixef431,<br>(36,669,<br>(W64F,07)Mixe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Midwest      |         |      |         |           |              |                                       |     |                 | 1,963,704 |
| Mixed         HP $WØEWD$<br>( $@NØR)II)         1,653,093(BNOR)II         Southeastern         Mixed         QRP         NA4CW         87,Mixed         LP         KU8E         683,683           Phone         LP         WØKAN         28,728         Mixed         HP         KU8E         683,644         1,648,Phone         QRP         N44CW         87,Mixed         HP         KU8E         683,644         1,648,Phone         QRP         N44CW         98,Phone         QW         QRP         N41L         98,Phone         QW         QRP         N41L         98,Phone         QW         QRP         N41U         98,Phone         QW         QRP         N43U         94,Phone         N4UU         94,Phone         1,792,Phone         N42W         1,792,Phone         N42W         1,792,Phone         QRP         N42W    $                                                                                                                                                                                                                                                                                                                                                                | in a west    |         |      |         |           |              |                                       |     |                 | 481,866   |
| Mixed         HP $(@NØNI)$ $1,653,093$ Mixed         LP         KU8E         683           Phone         LP         WØKAN         28,728         Mixed         HP         KU8E         683           Phone         HP         KØRH         321,195         Phone         QRP         NATTS         61,           CW         QRP         NØHD         1,722         Phone         LP         KT42B         265,           CW         LP         KØVBU         178,440         Phone         HP         K14LT         98,           CW         HP         NØAV         118,192         CW         QRP         N3TW         51,           Mutti         HP         NØAV         141,372         Multi         HP         N4UU         914,           Mixed         LP         KB1HNZ         141,372         Multi         HP         W6QKD         1,244,           Phone         LP         N1UR         882,336         Mixed         HP         W6QL         1,244,           Phone         LP         N1UR         1,32,203         op)         op)         0p)         66,           CW         HP         W1QK <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Southeastern</td><td></td><td></td><td></td><td>87,138</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                 |              |         |      |         |           | Southeastern |                                       |     |                 | 87,138    |
| PhoneLPWØKAN28,728MixedHPK4AB1,648,PhoneHPKØRH321,195PhoneQRPNT4TS61,CWQRPNØHYD1,722PhoneLPKT4ZB265,CWHPKØKH33,726CWQRPKILT98,35CWHPNØAV118,192CWQRPK3TW51,MultiHPNØAV3,726CWLPWB4TDH670,New EnglandMixedQRPK1LT9,835CWHPW4UU914,MixedLPK81HNZ141,372MultiHPWUUL1,724,PhoneHPK22M3,785,940SouthwesternMixedLPW6AWW361,PhoneLPN1UR882,336MixedHPK6LA1,244,PhoneHPK3PLX261,136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | Mixed   | HP   | -       | 1,653,093 |              |                                       |     |                 | 683,000   |
| CWQRPNØHYD1,722PhoneLPKT4ZB265,CWLPKØVBU178,440PhoneHPKl4LTA98,CWHPNØAV118,192CWQRPK3TW51,MultiHPNØAX33,726CWLPWB4TDH670,New EnglandMixedQRPK1LT9,835CWHPN4UU914,MixedLPKB1HNZ141,372MultiHPWW4LL1,792,MixedHPKQ2M3,785,940SouthwesternMixedLPW6AWW361,PhoneLPN1UR882,336MultiHPK6LA1,244,PhoneHPK1PLX261,136W6QUW6QUCWQRPK8CN228,200PhoneQRP(K8QZA,78,CWLPW1RM1,132,203op)op)Tist, 75,NorthwesternMixedQRP(K6UFO,996CWQRPN7R157,NorthwesternMixedQRPKK7U87,MultiHPNX6T93,MixedLPN7VPN48,783MultiHPNX6T93,MixedHPK77L190,068MultiHPN5DO798,PhoneLPK7MK78,795West GulfMixedHPN5DO798,PhoneHPW7WA1,851,816PhoneHPK5DHY128,CW<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | Phone   | LP   | • • • • | 28,728    |              |                                       |     |                 | 1,648,992 |
| CWLPKØVBU178,440PhoneHPKJ4LTA98,CWHPNØAV118,192CWQRPK3TW51,MultiHPNØAX33,726CWLPWB4TDH670,New EnglandMixedQRPK1LT9,835CWHPN4UU914,MixedLPKB1HNZ141,372MultiHPWW4LL1,792,MixedHPKQ2M3,785,940SouthwesternMixedLPW6AWW361,PhoneLPN1UR882,336MixedHPK6LA1,244,PhoneHPK1PLX261,136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | Phone   | HP   | KØRH    | 321,195   |              | Phone                                 | QRP | NT4TS           | 61,544    |
| CW         HP         NØAV         118,192         CW         QRP         K3TW         51,<br>670,<br>780,835           New England         Mixed         QRP         K1LT         9,835         CW         HP         N4UU         914,<br>670,<br>791,935           New England         Mixed         LP         KB1HNZ         141,372         Multi         HP         W4UU         1792,<br>791,444           Mixed         LP         KB1HNZ         141,372         Multi         HP         W6MWW         361,<br>792,772,728           Phone         LP         K1PLX         261,136         Wixed         HP         K6LA         1,244,<br>78,<br>700,           CW         QRP         K8CN         228,200         Phone         QRP         (W8QZA,<br>78,<br>70,         78,<br>70,           CW         LP         W1RM         1,022,033         Phone         P         W6AFA         385,<br>707           Northwestern         Mixed         QRP         (K6UFO,<br>90,<br>70,         996         CW         QRP         N7IR         157,<br>700,           Northwestern         Mixed         LP         N7VN         48,783         Multi         HP         NX6T         930,<br>709,           Mixed         LP         N7VN                                                                                                                                                                                                                                                                                                                                                                                        |              | CW      | QRP  | NØHYD   | 1,722     |              | Phone                                 | LP  | KT4ZB           | 265,950   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | CW      | LP   | KØVBU   | 178,440   |              | Phone                                 | HP  | KJ4LTA          | 98,552    |
| New England         Mixed         UP         K1LT         9,835         CW         HP         N4UU         914,           Mixed         LP         KB1HNZ         141,372         Multi         HP         WW4LL         1,792,           Mixed         HP         KQ2M         3,785,940         Southwestern         Mixed         LP         W6AWW         361,           Phone         LP         N1UR         882,336         Mixed         HP         K6LA         1,244,           Phone         HP         K1PLX         261,136         W6QU         W6QU           CW         QRP         K8CN         228,200         Phone         QRP         K06QF         50,           CW         LP         W1RM         1,132,203         Phone         LP         K06P         65,           Multi         HP         W3UA         2,435,028         Phone         LP         K06P         669,           Mixed         LP         N7VFN         48,783         Multi         HP         N6W         669,           Mixed         LP         K70K         78,795         West Gulf         Mixed         LP         N16W           Phone         LP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | CW      | HP   | NØAV    | 118,192   |              | CW                                    | QRP | K3TW            | 51,798    |
| Mixed         LP         KB1HNZ         141,372         Multi         HP         WW4LL         1,792,           Mixed         HP         KQ2M         3,785,940         Southwestern         Mixed         LP         W6AWW         361,           Phone         LP         N1UR         882,336         Mixed         HP         K6LA         1,244,           Phone         HP         K1PLX         261,136         Mixed         HP         K6LA         1,244,           Phone         HP         K1PX         261,136         Phone         QRP         (W8QZA,         78,           CW         LP         W1RM         1,132,203         Phone         LP         K06P         65,           Multi         HP         W3UA         2,435,028         Phone         HP         W6AFA         385,           Northwestern         Mixed         QRP         (K6UFO,         996         CW         LP         K7WP         431,           op)         0p         CW         LP         N16W         669,         Multi         HP         NX6T         930,           Phone         LP         K7MK         78,795         West Gulf         Mixed         HP                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              | Multi   | HP   |         | 33,726    |              |                                       |     | WB4TDH          | 670,662   |
| MixedHPKQ2M3,785,940SouthwesternMixedLPWGAWW361,PhoneLPN1UR882,336MixedHPK6LA1,244,PhoneHPK1PLX261,136WGQUWGQUCWQRPK8CN228,200PhoneQRP(W8QZA,78,<br>op)CWLPW1RM1,132,203PhoneLPKQ6P65,<br>op)CWHPW1QK1,028,304PhoneHPW6AFA385,<br>CWNorthwesternMixedQRP(K6UFO,996CWQPN7IR157,<br>CWNorthwesternMixedLPN7VPN48,783CWQWHPNK6T930,<br>PhoneMikedHPNX6T930,<br>PhonePhoneQRPKK7VL876MixedHPNSDO798,<br>PhoneMixedHPVSPF66,<br>GMPhoneLPK7MK78,795West GulfMixedHPNSDO798,<br>Phone1,851,816MixedHPVSPF66,<br>GMCWQRPNX1P8,814PhoneLPKSDHY128,<br>CW128,<br>CWPhoneHPKSLLA717,<br>CWCWHPK7RF407,160CWHPN5XZ1,439,MultiHPK7BTW277,589CWHPN5XZ1,439,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | New England  |         |      |         |           |              |                                       |     |                 | 914,560   |
| PhoneLPN1UR882,336MixedHPK6LA1,244,<br>W6QUCWQRPK8CN228,200PhoneQRP(W8QZA,78,<br>op)CWLPW1RM1,132,203op)op)CWHPW1QK1,028,304PhoneLPKQ6P65,<br>MultiMultiHPW3UA2,435,028PhoneHPW6AFA385,<br>CW200NorthwesternMixedQRP(K6UFO,996CWLPK7WP431,<br>0p)MixedLPN7VPN48,783CWLPN16W<br>(W4EF, op)669,<br>0469,<br>0469,<br>040,<br>040,<br>040,MultiHPNX6T930,<br>0469,<br>042,<br>042,<br>042,<br>042,<br>042,<br>044,<br>042,NorthwesternLPK7VL876MultiHPNSDO798,<br>798,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,MixedHPK6LA1,244,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,<br>040,040,00,00,00,00,00,00,00,00,00,00,00,00,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |         |      |         | ,         |              |                                       |     |                 | 1,792,792 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |         |      |         |           | Southwestern |                                       |     |                 | 361,921   |
| CWQRPK8CN228,200PhoneQRP(W8QZA,<br>op)78,<br>op)CWLPW1RM1,132,203PhoneLPKQ6P65,<br>op)CWHPW1QK1,028,304PhoneHPW6AFA385,<br>385,<br>CWQRPN7R157,<br>200NorthwesternMixedQRP(K6UFO,996CWLPK7WP431,<br>00)MixedLPN7VPN48,783CWLPK7WP431,<br>0068MixedHPKS7T190,068MultiHPNX6T930,<br>0068PhoneLPK7MK78,795West GulfMixedLPN5DO798,4<br>000,PhoneLPK7MK78,795West GulfMixedHPW5PF66,4<br>00,000,PhoneLPK7MK78,795West GulfMixedHPW5DF66,4<br>00,000,000,000,000,000,000,000,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |         |      |         |           |              | Mixed                                 | HP  |                 | 1,244,310 |
| CW         LP         W1RM         1,132,203         op)           CW         HP         W1QK         1,028,304         Phone         LP         KQ6P         65,           Multi         HP         W3UA         2,435,028         Phone         HP         W6AFA         385,           Northwestern         Mixed         QRP         (K6UFO,         996         CW         LP         K7WP         431,           op)         op)         0         CW         LP         K7WP         431,           Mixed         LP         N7VPN         48,783         CW         HP         NA6T         930,           Phone         QRP         KK7VL         876         Mixed         LP         NSDO         798,4           Phone         LP         K7MK         78,795         West Gulf         Mixed         LP         NSDO         798,4           Phone         LP         K7MK         78,795         West Gulf         Mixed         HP         W5DO         798,4           CW         QRP         NX1P         8,814         Phone         LP         K5DHY         128,5           CW         LP         WJ9B         747,285 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                         |              |         |      |         |           |              |                                       |     |                 |           |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |         |      |         |           |              | Phone                                 | QRP |                 | 78,078    |
| MultiHPW3UA2,435,028PhoneHPW6AFA385,<br>385,<br>200NorthwesternMixedQRP(K6UFO,996CWLPK7WP431,<br>090MixedLPN7VPN48,783CWLPMI6W<br>(W4EF, op)669,<br>090,MixedHPKS7T190,068MultiHPNX6T930,<br>090,PhoneQRPKK7VL876MixedLPNSDO798,4PhoneLPK7MK78,795Mest GulfMixedHPNSDO798,4PhoneHPW7WA1,851,816MixedHPW5PF66,5CWQRPNX1P8,814PhoneLPK5DHY128,5CWLPWJ9B747,285PhoneHPK5LLA717,5CWHPK7RF407,160CWLPW5ZO408,5MultiHPK7BTW277,589CWHPN5XZ1,439,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |         |      |         |           |              | Dhana                                 |     |                 | 65 530    |
| Northwestern         Mixed         QRP         (K6UFO,<br>(K6UFO,<br>op)         996         CW         QRP         N7IR         157,<br>(W         157,<br>CW         190,<br>HP         K7WP         431,<br>K7WP         669,<br>(W4EF, op)           Mixed         LP         N7VPN         48,783         Multi         HP         N16W<br>(W4EF, op)         669,<br>(W4EF, op)           Phone         QRP         KK7VL         876         Multi         HP         NX6T         930,<br>Phone           Phone         LP         K7MK         78,795         West Gulf         Mixed         LP         N5DO         798,9           Phone         HP         W7WA         1,851,816         Mixed         HP         W5PF         66,9           CW         QRP         NX1P         8,814         Phone         LP         K5DHY         128,7           CW         LP         WJ9B         747,285         Phone         HP         K5LLA         717,9           CW         HP         K7BTW         277,589         CW         HP         N5XZ         1,439,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |         |      |         |           |              |                                       |     |                 | 65,520    |
| NorthwesternMixedQRP(K6UFO,<br>op)996CWLPK7WP431,<br>op)MixedLPN7VPN48,783CWHP $NI6W$<br>(W4EF, op)669,<br>(W4EF, op)MixedHPKS7T190,068MultiHPNX6T930,<br>PhonePhoneQRPKK7VL876MixedLPN5DO798,9PhoneLPK7MK78,795West GulfMixedLPN5DO798,9PhoneHPW7WA1,851,816MixedHPW5PF66,9CWQRPNX1P8,814PhoneLPK5DHY128,9CWLPWJ9B747,285PhoneHPK5LLA717,9CWHPK7RF407,160CWLPW5ZO408,7MultiHPK7BTW277,589CWHPN5XZ1,439,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | wult    | пг   |         | 2,435,028 |              |                                       |     |                 |           |
| op)CWHPNi6W<br>(W4EF, op)669,<br>(W4EF, op)MixedHPKS7T190,068MultiHPNX6T930,PhoneQRPKK7VL876MixedLPNSDO798,4PhoneLPK7MK78,795West GulfMixedLPNSDO798,4PhoneHPW7WA1,851,816MixedHPW5PF66,5CWQRPNX1P8,814PhoneLPK5DHY128,5CWLPWJ9B747,285PhoneHPK5LLA717,4CWHPK7RF407,160CWLPW5ZO408,5MultiHPK7BTW277,589CWHPN5XZ1,439,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Northwestern | Mixed   |      |         | 006       |              |                                       |     |                 | 431,406   |
| Mixed       LP       N7VPN       48,783       CW       HP       (W4EF, op)       669,         Mixed       HP       KS7T       190,068       Multi       HP       NX6T       930,         Phone       QRP       KK7VL       876       West Gulf       Mixed       LP       N5DO       798,9         Phone       LP       K7MK       78,795       West Gulf       Mixed       LP       N5DO       798,9         Phone       HP       W7WA       1,851,816       Mixed       HP       W5PF       66,9         CW       QRP       NX1P       8,814       Phone       LP       K5DHY       128,7         CW       LP       WJ9B       747,285       Phone       HP       K5LLA       717,7         CW       HP       K7RF       407,160       CW       LP       W5ZO       408,7         Multi       HP       K7BTW       277,589       CW       HP       N5XZ       1,439,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Northwestern | IVIIAEU | QIVE | •       | 330       |              |                                       |     |                 |           |
| Mixed         HP         KS7T         190,068         Multi         HP         NX6T         930,           Phone         QRP         KK7VL         876         West Gulf         Mixed         LP         N5DO         798,           Phone         LP         K7MK         78,795         West Gulf         Mixed         LP         N5DO         798,           Phone         HP         W7WA         1,851,816         Mixed         HP         W5PF         66,           CW         QRP         NX1P         8,814         Phone         LP         K5DHY         128,           CW         LP         WJ9B         747,285         Phone         HP         K5LLA         717,           CW         HP         K7RF         407,160         CW         LP         W5ZO         408,           Multi         HP         K7BTW         277,589         CW         HP         N5XZ         1,439,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | Mixed   | IP   |         | 48 783    |              | CW                                    | HP  |                 | 669,992   |
| PhoneQRPKK7VL876PhoneLPK7MK78,795West GulfMixedLPN5DO798,9PhoneHPW7WA1,851,816MixedHPW5PF66,9CWQRPNX1P8,814PhoneLPK5DHY128,7CWLPWJ9B747,285PhoneHPK5LLA717,9CWHPK7RF407,160CWLPW5ZO408,7MultiHPK7BTW277,589CWHPN5XZ1,439,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |         |      |         |           |              | Multi                                 | НР  |                 | 930,748   |
| Phone         LP         K7MK         78,795         West Gulf         Mixed         LP         N5DO         798,5           Phone         HP         W7WA         1,851,816         Mixed         HP         W5PF         66,5           CW         QRP         NX1P         8,814         Phone         LP         K5DHY         128,7           CW         LP         WJ9B         747,285         Phone         HP         K5LLA         717,5           CW         HP         K7RF         407,160         CW         LP         W5ZO         408,7           Multi         HP         K7BTW         277,589         CW         HP         N5XZ         1,439,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |         |      |         |           |              | i i i i i i i i i i i i i i i i i i i |     |                 | 556,710   |
| Phone         HP         W7WA         1,851,816         Mixed         HP         W5PF         66,9           CW         QRP         NX1P         8,814         Phone         LP         K5DHY         128,7           CW         LP         WJ9B         747,285         Phone         HP         K5LLA         717,9           CW         HP         K7RF         407,160         CW         LP         W5ZO         408,7           Multi         HP         K7BTW         277,589         CW         HP         N5XZ         1,439,7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |         |      |         |           | West Gulf    | Mixed                                 | LP  | N5DO            | 798,930   |
| CW         QRP         NX1P         8,814         Phone         LP         K5DHY         128,3           CW         LP         WJ9B         747,285         Phone         HP         K5LLA         717,3           CW         HP         K7RF         407,160         CW         LP         W5ZO         408,3           Multi         HP         K7BTW         277,589         CW         HP         N5XZ         1,439,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |         |      |         |           |              | Mixed                                 | HP  | W5PF            | 66,976    |
| CW         LP         WJ9B         747,285         Phone         HP         K5LLA         717,271           CW         HP         K7RF         407,160         CW         LP         W5ZO         408,271           Multi         HP         K7BTW         277,589         CW         HP         N5XZ         1,439,27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |         |      |         |           |              |                                       | LP  |                 | 128,340   |
| CW HP K7RF 407,160 CW LP W5ZO 408,<br>Multi HP K7BTW 277,589 CW HP N5XZ 1,439,4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |         |      |         |           |              |                                       | HP  |                 | 717,500   |
| Multi HP K7BTW 277,589 CW HP N5XZ 1,439,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |         | HP   |         |           |              |                                       | LP  | W5ZO            | 408,240   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | Multi   | HP   | K7BTW   |           |              | CW                                    | HP  | N5XZ            | 1,439,465 |
| Multi HP KSTR 2,817,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |         |      |         |           |              | Multi                                 | HP  | K5TR            | 2,817,848 |

|          | Тор   | Ten DX Scores            |                        |       |     |                   |                    |
|----------|-------|--------------------------|------------------------|-------|-----|-------------------|--------------------|
| Category | Power | Call                     | Score                  | Phone | HP  | CN2R              | 5,203,660          |
| Mixed    | QRP   | DK3WE                    | 654,408                | Thome |     | 5B4AIF            | 3,691,008          |
|          | -     | UT5UN                    | 443,016                |       |     | PJ4DX             | 2,726,205          |
|          |       | OK7CM                    | 433,020                |       |     | H2T (5B4XF, op)   | 2,684,640          |
|          |       | SP5DDJ                   | 325,251                |       |     | HG8R (HA8JV, op)  | 2,494,570          |
|          |       | US2IZ                    | 202,583                |       |     | IW2HAJ            | 2,192,226          |
|          |       | 9A2EY                    | 184,832                |       |     | IKØPHY            | 2,171,430          |
|          |       | LZ5QZ                    | 142,800                |       |     | ES5RW             | 2,169,490          |
|          |       | IZ8JFL                   | 130,686                |       |     | RJ4P              | 2,115,840          |
|          |       | DL6OCH                   | 122,952                |       |     | ED8W              | 2,030,072          |
|          |       | YU1LM                    | 68,400                 | CW    | QRP | UC7K              | 531,180            |
| Mixed    | LP    | MWØEDX                   | 1,890,312              | CVV   | QRP | LZ2RS             | 405,790            |
| IVIIXeu  | L1    | PS2T (PY2NY, op)         | 1,859,872              |       |     | UA8AA             |                    |
|          |       | LY6A                     | 1,225,733              |       |     | DD1IM             | 316,840<br>271,852 |
|          |       | RA9AP                    | 1,004,394              |       |     | DL4SDW            |                    |
|          |       | UR6EA                    | 891,880                |       |     |                   | 179,655            |
|          |       | 7Z1SJ                    | 865,536                |       |     | UX2MF             | 171,684            |
|          |       | R7MM                     | 851,075                |       |     | UA1CUR<br>UX5UU   | 157,480<br>155,820 |
|          |       | YT2AAA                   | 797,268                |       |     |                   | -                  |
|          |       | DK8ZZ                    | 671,155                |       |     | DL1EFW            | 147,832            |
|          |       | UA6FZ                    | 639,408                | -     |     | DL8TG             | 135,504            |
| Mixed    | НР    |                          | 4,534,184              | CW    | LP  | LY5R              | 1,523,319          |
| Mixed    | пг    | EF8U (EA8RM, op)<br>UW1M | 4,023,788              |       |     | IO4T              | 1,419,075          |
|          |       | A65BP                    |                        |       |     | UA3RF             | 1,360,510          |
|          |       | KP3Z (NP4Z, op)          | 3,974,580<br>3,351,600 |       |     | WP3C              | 1,346,730          |
|          |       | UPØL                     |                        |       |     | DD5M (DJØZY, op)  | 1,092,168          |
|          |       | OH6LI                    | 3,253,104<br>2,848,225 |       |     | YR9F (YO9FNP, op) | 1,077,858          |
|          |       | EU1A                     | 2,842,775              |       |     | SP4JCQ            | 1,049,489          |
|          |       | R5GA                     | 2,842,773              |       |     | RG5A              | 1,020,786          |
|          |       | UW5Y                     | 2,813,420              |       |     | HG8K (HA8GY, op)  | 975,600            |
|          |       | OM7JG                    | 2,690,337              |       |     | \$53V             | 915,642            |
|          | 0.00  |                          |                        | CW    | HP  | P3F (5B4AGN, op)  | 4,103,834          |
| Phone    | QRP   | FY5FY                    | 1,074,258              |       |     | UA5C              | 3,330,360          |
|          |       | DL8LR                    | 371,209                |       |     | 6V7S              | 3,130,668          |
|          |       | HA5NB                    | 310,980                |       |     | RG6G              | 2,936,848          |
|          |       | DKØTC (DL1APQ, op)       | 155,848                |       |     | OH1F (OH1TM, op)  | 2,631,930          |
|          |       | SP7VTQ                   | 113,918                |       |     | OQ5M (ON5ZO, op)  | 2,391,347          |
|          |       | UR5IPW                   | 108,429                |       |     | OG2P (OH2PM, op)  | 2,385,216          |
|          |       | US5ZCW                   | 98,905                 |       |     | RT5Z (RA3CW, op)  | 2,347,048          |
|          |       | HB9EGA                   | 62,048                 |       |     | EW2A              | 2,278,725          |
|          |       | IK1BBC                   | 57,886                 |       |     | S52OP             | 2,198,490          |
|          |       | ON4MW                    | 49,385                 | Multi | HP  | RM9A              | 4,576,196          |
| Phone    | LP    | EA8MT                    | 1,964,314              |       |     | CR3T              | 4,317,392          |
|          |       | UX9Q (UR9QQ, op)         | 1,602,992              |       |     | UA4M              | 4,087,280          |
|          |       | EI1A (ON4EI, op)         | 1,347,192              |       |     | HG1S              | 3,936,845          |
|          |       | HA3DX (HA4XH, op)        | 1,296,625              |       |     | HG7T              | 3,819,202          |
|          |       | EE7Y (EA7ISH, op)        | 1,085,088              |       |     | UR7GO             | 3,362,115          |
|          |       | YV1KK                    | 1,023,400              |       |     | DL2CC             | 3,301,812          |
|          |       | RA3Y                     | 890,813                |       |     | IR8C              | 3,142,731          |
|          |       | KP2/AA1BU                | 834,426                |       |     | SP8R              | 2,791,565          |
|          |       | G3VAO                    | 736,296                |       |     | IK2YCW            | 2,690,149          |
|          |       | XE3/K5ENS                | 578,187                |       |     |                   |                    |

|                                |           |      |           |                  |           |        | Reg         | ional Leader                                          | rs - US   | and                                      | Canada       | 7             |        |                                         |           |                   |         |        |           |
|--------------------------------|-----------|------|-----------|------------------|-----------|--------|-------------|-------------------------------------------------------|-----------|------------------------------------------|--------------|---------------|--------|-----------------------------------------|-----------|-------------------|---------|--------|-----------|
|                                |           |      |           |                  |           |        | Categorie   | s: Mixed Mode, Pho                                    | one Only, | , CW On                                  | ly, Multiope | rator         |        |                                         |           |                   |         |        |           |
| North                          | heast Reg | gion |           | So               | utheast R | egion  |             | Cer                                                   | ntral Reg | gion                                     |              | Mid           | westR  | egion                                   |           | West              | Coast R | legion |           |
| New England, Hud<br>Maritime a |           |      | ,         | Delta, Roanoke   | and South | easter | n Divisions | Central and Great Lakes Divisions; Ontario<br>Section |           | Dakota, Midwe<br>West Gulf Di<br>Saskate |              | Manito        | ba and | Pacific, Northwe<br>Divisions; Alberta, |           | Columb            |         |        |           |
| Call                           | Cat       | Pwr  | Score     | Call             | Cat       | Pwr    | Score       | Call                                                  | Cat       | Pwr                                      | Score        | Call          | Cat    | Pwr                                     | Score     | Call              | Cat     | Pwr    | Score     |
| K1LT                           | Mix       | QRP  | 9,835     | NA4CW            | Mix       | QRP    | 87,138      | КТ8К                                                  | Mix       | QRP                                      | 45,140       | KØOU          | Mix    | QRP                                     | 231,870   | NN7SS (K6UFO, op) | Mix     | QRP    | 990       |
| NQ2T                           | Mix       | QRP  | 404       | KC5WA            | Mix       | QRP    | 7,920       | KU4A                                                  | Mix       | QRP                                      | 19,320       | N5DO          | Mix    | LP                                      | 798,930   | W6AWW             | Mix     | LP     | 361,92    |
| VE2AWR                         | Mix       | LP   | 210,328   | W4DFG (W1TEF, or | p) Mix    | QRP    | 2,781       | K8ZT                                                  | Mix       | QRP                                      | 17,298       | N5ZC          | Mix    | LP                                      | 707,460   | NN6CH             | Mix     | LP     | 307,43    |
| WA2JQK                         | Mix       | LP   | 143,184   | AA4NC            | Mix       | LP     | 1,104,495   | K9OM                                                  | Mix       | LP                                       | 657,845      | WØDLE         | Mix    | LP                                      | 544,765   | WA6FGV            | Mix     | LP     | 302,01    |
| KB1HNZ                         | Mix       | LP   | 141,372   | KU8E             | Mix       | LP     | 683,000     | VE3BR                                                 | Mix       | LP                                       | 624,792      | WØEWD (@NØNI) | Mix    | HP                                      | 1,653,093 | K6LA              | Mix     | HP     | 1,244,310 |
| KQ2M                           | Mix       | HP   | 3,785,940 | N4OX             | Mix       | LP     | 645,120     | N8VV                                                  | Mix       | LP                                       | 211,640      | кøвj          | Mix    | HP                                      | 490,000   | N6NF              | Mix     | HP     | 447,120   |
| K6XX                           | Mix       | HP   | 3,045,750 | K4AB             | Mix       | HP     | 1,648,992   | VE3AT                                                 | Mix       | HP                                       | 3,222,115    | ко7х          | Mix    | HP                                      | 415,467   | N6MI              | Mix     | HP     | 376,090   |
| W2FU (N2ZN, op)                | Mix       | HP   | 2,437,358 | W040             | Mix       | HP     | 1,430,702   | VE3OI                                                 | Mix       | HP                                       | 1,333,150    | WBØIWG        | Ph     | QRP                                     | 7,200     | W6QU (W8QZA, op)  | Ph      | QRP    | 78,078    |
| AB3RW                          | Ph        | QRP  | 2,673     | N8II             | Mix       | HP     | 1,122,160   | WR9D (KB9UWU, op)                                     | Mix       | HP                                       | 1,037,321    | VE5DLD        | Ph     | QRP                                     | 448       | K7RLL             | Ph      | QRP    | 3,432     |
| N1UR                           | Ph        | LP   | 882,336   | NT4TS            | Ph        | QRP    | 61,544      | көјк                                                  | Ph        | QRP                                      | 1,302        | K5DHY         | Ph     | LP                                      | 128,340   | KK6RF             | Ph      | QRP    | 2,684     |
| VE1WOW (K1WO,op)               | Ph        | LP   | 204,672   | N4ZAK            | Ph        | QRP    | 5,472       | VE3VE                                                 | Ph        | LP                                       | 162,500      | N7MZW         | Ph     | LP                                      | 116,154   | K6GHA             | Ph      | LP     | 153,034   |
| KA2KON                         | Ph        | LP   | 99,064    | KT4ZB            | Ph        | LP     | 265,950     | VA3GKO                                                | Ph        | LP                                       | 144,353      | W5GFI         | Ph     | LP                                      | 89,864    | нізк              | Ph      | LP     | 129,528   |
| K1PLX                          | Ph        | HP   | 261,136   | W4FT             | Ph        | LP     | 197,349     | VE3MV                                                 | Ph        | LP                                       | 96,798       | K5LLA         | Ph     | HP                                      | 717,500   | K7MK              | Ph      | LP     | 78,79     |
| WA1NPZ                         | Ph        | HP   | 207,360   | N9DFD            | Ph        | LP     | 133,168     | KE8FT                                                 | Ph        | HP                                       | 212,220      | AD5XD         | Ph     | HP                                      | 635,318   | W7WA              | Ph      | HP     | 1,851,816 |
| K2JMY                          | Ph        | HP   | 77,100    | WA5OYU           | Ph        | HP     | 556,248     | AJ4A                                                  | Ph        | HP                                       | 146,016      | N5MV          | Ph     | HP                                      | 341,824   | W6AFA             | Ph      | HP     | 385,402   |
| K8CN                           | CW        | QRP  | 228,200   | K5ER             | Ph        | HP     | 537,119     | VA3ZNQ                                                | Ph        | HP                                       | 106,862      | K9JWV         | CW     | QRP                                     | 27,750    | VE7SZ             | Ph      | HP     | 363,924   |
| W1WBB                          | CW        | QRP  | 28,860    | KA8Q             | Ph        | HP     | 114,000     | VA3SB                                                 | CW        | QRP                                      | 256,818      | NØHOT         | CW     | QRP                                     | 3,920     | N7IR              | CW      | QRP    | 157,398   |
| WK2T                           | CW        | QRP  | 8,052     | K3TW             | CW        | QRP    | 51,798      | AC8AP                                                 | CW        | QRP                                      | 51,392       | KA8HDE        | CW     | QRP                                     | 1,924     | KØMP              | CW      | QRP    | 15,365    |
| W1RM                           | CW        | LP   | 1,132,203 | K4MF             | CW        | QRP    | 14,960      | N1RU                                                  | CW        | QRP                                      | 25,956       | W5ZO          | CW     | LP                                      | 408,240   | NX1P              | CW      | QRP    | 8,814     |
| K1IMI                          | CW        | LP   | 688,524   | N2WN             | CW        | QRP    | 10,076      | NA8V                                                  | CW        | LP                                       | 783,450      | NAØN          | CW     | LP                                      | 395,008   | WJ9B              | CW      | LP     | 747,28    |
| VE1RGB                         | CW        | LP   | 596,778   | W4IX             | CW        | LP     | 1,151,955   | W1NN                                                  | CW        | LP                                       | 771,274      | W5RYA         | CW     | LP                                      | 251,129   | W7YAQ             | CW      | LP     | 590,47    |
| AA3B                           | CW        | HP   | 2,897,100 | K7SV             | CW        | LP     | 1,054,144   |                                                       | CW        | LP                                       | 480,006      | WØUA          | CW     | HP                                      | 1,963,704 | K7WP              | CW      | LP     | 431,40    |
| VA2EW                          | CW        | HP   | 2,090,848 |                  | CW        | LP     | 670,662     |                                                       | CW        | HP                                       | 2,767,694    |               | CW     | HP                                      |           | NI6W (W4EF, op)   | CW      | HP     | 669,993   |
| K3EL                           | CW        | HP   | 1,530,816 | N4OGW            | CW        | HP     | 2,120,676   | кэст                                                  | CW        | HP                                       | 1,445,026    |               | CW     | HP                                      | 630,416   |                   | CW      | HP     | 579,41    |
| KD4D                           | Multi     | HP   | 2,570,425 |                  | CW        | HP     | 1,853,670   |                                                       | CW        | HP                                       | 769,699      |               | Multi  | HP                                      | 2,817,848 |                   | CW      | HP     | 578,34    |
| W3UA                           | Multi     | HP   | 2,435,028 | N4ZZ             | CW        | HP     | 1,341,198   |                                                       | Multi     | HP                                       | 1,067,840    | K5RX          | Multi  | HP                                      |           | VE7ZO (@VE7UF)    | Multi   | HP     | 1,283,46  |
| N3RS                           | Multi     | HP   | 1,919,148 |                  | Multi     | HP     | 1,942,655   |                                                       | Multi     | HP                                       | 382,158      | K5RT          | Multi  | HP                                      | 1,728,396 | K6MMM             | Multi   | HP     | 957,50    |
|                                |           |      |           | WW4LL            | Multi     | HP     | 1,792,792   | K8PGJ                                                 | Multi     | HP                                       | 335,750      |               |        |                                         |           | NX6T              | Multi   | HP     | 930,748   |
|                                |           |      |           | N6AR             | Multi     | HP     | 621,150     |                                                       |           |                                          |              |               |        |                                         |           |                   |         |        |           |