ARRL January VHF Contest 2016 Results

By the ARRL Contest Branch

Some things change, some things don't

With January 2016 having FIVE full weekends, scheduling the mid-winter VHF radiosport event on the fifth weekend marks the first time that it stretched into February (at least it did in UTC time for the final four hours). Choosing the fifth weekend also set the time between the weekends of the National Football League's Conference Championships and the Superbowl, both of which have often been distractions to VHFers who are also followers of American football (especially if YOUR team is involved). Log submissions totaled 655 including 10 checklogs which was about the same as last year's total so perhaps that was not as much of a conflict after all.

Ch..ch..ch..changes

There were two major VHF contest rule changes adopted in 2015. The first change allowed operators in all entry categories to use spotting networks to arrange QSOs, including self-spotting. In many contests, the use of such technology is only permitted in the Multioperator and Single-Operator Unlimited categories. This rule first took effect in the 2015 June VHF Contest and seems to have been well received. After both the June and September 2015 contests, many operators commented that the new rule made it a lot easier to set up meteor-scatter skeds and aim their antennas in the right direction to snag new stations calling CQ or arrange marginal QSOs.

Bob, K2DRH reported:

"The evening was interesting with many Ms QSOs being set up on line, but I'm still glad I made some primary WSJT skeds before the contest. Unfortunately my last sked of the night with K1TEO was a bust when my 6M final gave up the ghost. Took me over an hour to recover with another old and much lower power brick (about 50-60 W) by which time my internet provider went down (for about 3 hours) forcing me to give up and go to bed…

Luckily the bands were in a lot better shape on Sunday; not really good but much more like flat instead of depressed. 6M scatter seemed really good to the East but hardly anyone could hear me 6 dB down from normal when I called. I set up a few skeds with some of the stations on ON4KST [the ON4KST.COM Chat room – ed.] *and was particularly impressed when K1SIX could still hear my puny 6M output on CW."*

W3IP observed:

"The chat rooms and packet clusters were definite pluses that kept interest and activity up."

The other change, in effect for the first time in this contest, removed the long-standing rule prohibiting the use of 146.52 MHz simplex for making contest contacts. The goal of this change was to allow casual FM-only operators to discover contesting and add more activity by getting them involved. Did it have the desired effect?

In terms of producing more QSOs, yes and no. Top Single-Operator entrant Jeff, K1TEO, made 297 QSOs on 2 meters across all modes, compared to just 247 in the 2015 contest. However, further south, KA1ZE/3, N3HBX, and K1RZ all made slightly fewer QSOs on 2 meters this year. Top Unlimited Multioperator station N3NGE was also down slightly at 334 compared to 347 last year. As far as the long-term intent of attracting more FM-only operators to VHF contesting, we'll have to wait and see.

Jim, KO9A, summed up the changes as follows:

"The new rules sure do help smaller stations get more contacts in the log. Great fun working WSJT QSOs with a little online coordination and discovering "new" local hams on 146.52!"

January Conditions…No Space Oddities

As is often the case in January, there were few propagation enhancements. Only a handful of stations reported any 6 meter Es at all. Lefty, K1TOL, reported from Maine:

"NO Aurora, NO backscatter, NO tropo enhancements, NO Es, puny scatter burns of 1-2 seconds or less---a typical "slog it out/butt-in-chair" type of January Contest on 6M."

Greg, KX4R, in Georgia reported some nice tropo openings to TX, LA, and points west, and managed to snag XE2OR in DL98 on 432. NV4B/5 got in on the action from Woodall Mountain in MS and managed three 2 meter QSOs with Texas, including a 144-222-432 sweep with K5TR at a distance of 665 miles while running only 10 watts to modest antennas! Speaking of K5TR, Sara did all the 6 meter operating while George took the high bands and was rewarded with good tropo to the east on Saturday night and Sunday morning, working out past 1000 miles on 144, 222, 432 and 1296 MHz.

Sara did all the 6 meter operating at K5TR (photo courtesy George Fremin, K5TR)

The impressive K5TR VHF/UHF antenna farm (photo courtesy Sara Beth Teel)

Russ, KB8U, spent a lot of time chasing WSJT QSOs and said:

"I think I could have had a higher score on SSB or CW but I wanted a change of pace and I had fun. I also worked 3 Europeans on EME on moon rise with JT65B."

Top Ten by Category

Single Operator, High Power

Call	Score	QSOs	Mults	Bands
K1TEO	299,730	868	194	ABCD9EFGH
K1RZ	253,935	605	171	ABCD9EFGHI
K3TUF	209,952	660	144	ABCD9EGHIJ
WB2RVX	156,800	513	112	ABCD9EFGHIP
K3IPM	86,502	519	78	ABCD9EFGI
W3IP	79,112	442	116	ABCD9E
WZ1V	77,000	510	100	ABCDE
K1GX	68,500	325	100	ABCD9EFGHI
KU8Y	67,095	336	135	ABCD9E
K3DNE	66,458	425	101	ABCD9EFG

Single Operator, Low Power

WA3NUF	116,370	579	90	ABCD9EFGHIJP
K2DRH	111,220	411	166	ABCD9EFG
W3SZ	108,621	466	81	ABCD9EFGHIJ
N3RG	106,050	444	101	ABCD9EFGHIP
WA3GFZ	69,793	413	71	ABCD9EFGHIJP
AF1T	65,384	381	88	ABCD9EFGHIJP
WB2SIH	55,616	435	79	ABCD9E
N4QWZ	51,430	240	139	ABCD9E
K1KG	49,640	275	85	ABCD9EFGHI
N3YMS	39,798	349	66	ABCD9E

Single Operator, Portable

WX3P	840	59	12	ABD
NV4B/5	792	35	18	ABCD
WB2AMU	767	47	13	ABCD
W9SZ	624	12	12	BCD9EFGI
AI6EA	621	51	9	BC
WA7JTM	510	41	10	ABD
K6PFA	130	23	5	ABD
KØNR	114	17	6	BD
KM6NY	112	20	4	ABCD
KC2JRQ	112	13	7	BCD

Single Operator, 3 Band				
WA2FGK (K2LNS, op)	42,336	407	84	ABD
KG6IYN	9,953	212	37	ABD
KO9A	9,776	163	52	ABD
K2AA/1ØØ (KV2R, op)	8,288	243	28	ABD
WB2EOD	5,712	185	24	ABD
KC2THQ	5,520	179	24	ABD
N3XF	3,939	84	39	ABD
N3ALN	3,718	123	26	ABD
KB3OZC	3,496	142	23	ABD
NE2U	3,425	114	25	ABD

Single Operator, FM Only				
W2EV	5,842	181	23	ABCD
K2SI	1,500	103	12	ABD
N2SCJ	924	88	7	ABCD
KK4OSG	340	27	10	ABCD
N9VM (N1VM, op)	320	22	10	BCD
W7AIT	238	25	7	ABCD
KB1YSK	224	43	4	BD
VA6TDG	136	12	8	BD
KO5OK (NL7CO, op)	133	13	7	ABCD
K6QCB	96	22	4	BD

Limited Multioperator				
N2NT	100,395	695	115	ABCD
K5QE	94,724	385	199	ABCD
WA2CP	32,096	403	59	ABCD
N8ZM	26,095	250	85	ABCD
W1QK	25,482	342	62	ABCD
W3ARO	4,950	131	33	ABCD
W3HZU	4,920	176	24	ABD
N4SVC	3,116	57	41	ABCD
WØVB	1,870	55	34	AB
W3MEL	1,530	102	15	AB

Unlimited Multioperator				
N3NGE	478,436	1,199	196	ABCD9EFGHIP
K2LIM	118,002	622	142	ABCD
K5TR	86,135	338	161	ABCD9EI
WA3EHD	37,459	365	47	ABCD9EFGIP
N1JEZ	27,176	221	79	ABCD9E
VA3ELE	23,475	141	75	ABCD9EFGHIJP
W4NH	18,720	190	78	ABCD
KE1LI	17,950	270	50	ABCD9E
K6ARP	10,800	161	45	ABCD9E
K2AMI	10,760	206	40	ABCD

Band Designators

In order to keep VHF+ contest tables and listings brief, the ARRL uses the following table of abbreviations and single-character designators to indicate band.

Band Name	Abbr	Des.		Band Name	Abbr	Des.
6 meters	6M	A		5.7 GHz	5.7G	H
2 meters	2M	B		10 GHz	10G	I
222 MHz	222	C		24 GHz	24G	J
432 MHz	432	D		47 GHz	47G	K
902 MHz	902	9		75 GHz	75G	L
1.2 GHz	1.2G	E		119 GHz	119G	M
2.3 GHz	2.3G	F		142 GHz	142G	N
3.4 GHz	3.4G	G		241 GHz	241G	O
				Light	Light	P

A Change for Wayne

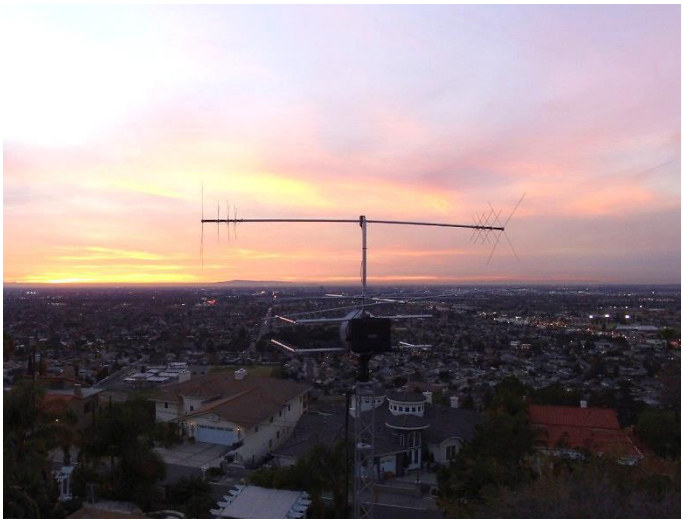
Wayne, N6NB, did something completely different this year. In his own words:

"Until 2016, I roved or was in the single operator portable category every January since I wrapped up my career as a university professor and retired at the end of 2002. Usually I operated with other rovers.

This year I stayed close to home for the first time in 14 years. I did a part-time single operator high power effort at my house in Panorama Heights, three miles from home in Tustin, Calif.

A highlight was following K6FGV/R and K6WCI/R (with N6TEB) as they roved from the four grids near Mojave back to their home grids in L.A. We worked over the San Gabriel Mountains (up to 10,000' in elevation) on all bands through 10 GHz."

Wayne took full advantage of his station's capability on all bands and had the highest single-operator score on the West Coast.



N6NB says this photo is about going off into the sunset, literally and perhaps figuratively (photo courtesy Wayne Overbeck, N6NB)

A better view of the N6NB antennas for 14 bands, 7 MHz through 10 GHz (photo courtesy Gregory Campbell, W6IT)

Rovers and Portables

Roving around multiple grid squares or hilltopping can be challenging in January in much of the country due to weather conditions. K1RZ noted that the contest was one week after the 30-inch blizzard in much of the Mid-Atlantic region, which meant *"there were special challenges at each site for the Rovers, requiring chains, shovels and kitty litter to keep moving off those hill tops".*

K6VHF/R reported:

"We got a snow and dust storms, rain and beautiful sunny blue skies. From 300 ft up to 8000 ft of elevation, high desert to flats, flooding and icy roads. So many adventures in less than 48 hours."

Top Ten Rovers by Category

Classic Rover

Call	Score	QSOs	Mults	Grids Act'd	Bands
NN3Q/R	92,032	488	64	4	ABCD9E FGHIP
K1DS/R	50,640	287	48	4	ABCD9E FGHIJP
W9FZ/R	42,228	326	69	7	ABCD9E FI
KA9VVQ/R	42,090	325	69	7	ABCD9E FI
VE3OIL/R	41,888	230	77	9	ABCD9E FGHIJP
KF2MR/R	34,440	294	60	4	ABCD9E FI
K8GP/R	32,184	295	54	5	ABCD9E FGHI
KØBAK/R	30,060	234	45	5	ABCD9E FGHIP
K2TER/R	25,311	277	59	5	ABCD9E
K5GJ/R	21,518	195	53	10	ABCD9E FI

Limited Rover					
WW7D/R	37,152	521	54	10	ABCD
K2EZ/R	36,630	244	110	27	ABCD
ACØRA/R	32,706	281	79	17	ABCD
W3ICC/R	28,482	438	47	5	ABCD
AE5P/R	13,188	214	42	8	ABCD
WD5RAH/R	11,680	195	40	8	ABCD
KD5EUO/R	7,200	117	50	6	ABD
K6MI/R	6,120	137	30	6	ABCD
N2ZBH/R	5,075	151	25	4	ABCD
N6MTS/R	5,040	112	30	6	ABCD

Top Ten, Unlimited Rover					
K6WCI/R	59,568	255	68	6	ABCD9E FGHI
K7ATN/R	41,831	399	59	9	ABCD9E
K6VHF/R	4,674	89	41	12	ABCDE
N6ZE/R	2,000	68	25	3	ABCD
VE7AFZ/R	1,495	60	23	2	ABCD
WD5DJW/R	36	4	6	2	BD

Darryl, WW7D/R, posted the top score in the Limited Rover category by activating 10 grids in the Pacific Northwest, including a SOTA (Summit on the Air) activation. He tells the story of blizzards, road-closing warnings and more at **tinyurl.com/ww7dJanVHF2016**.

Darryl, WW7D, used this impressive setup in his 10-grid roving trip (photo courtesy Darryl Holman, WW7D)

Of course Murphy has always had a special place in his heart for the rovers and portables. Tom, N2YTF, also did a combined SOTA and VHF Contest rove.

"I worked the contest after hiking up to the castle on SOTA summit W1/HH-002 Mt. Carmel, operating portable at 50W with my IC-706MKIIG on 2m only. 29F with a steady blowing wind and after hiking up I was exposed on the top of the 'viewing castle' on Mt. Carmel in Sleeping Giant State Park.

I worked K1TEO right off the bat, he wasn't too hard to work and then I heard some weak stations but I couldn't work them. 15 min of voice keying and still nothing when I finally noticed that I had not connected the coax to the back of the rig! I don't know if it was the rock solid finals in the rig or the low temps, but the rig was undamaged and once I connected the coax the band came alive...imagine that!"

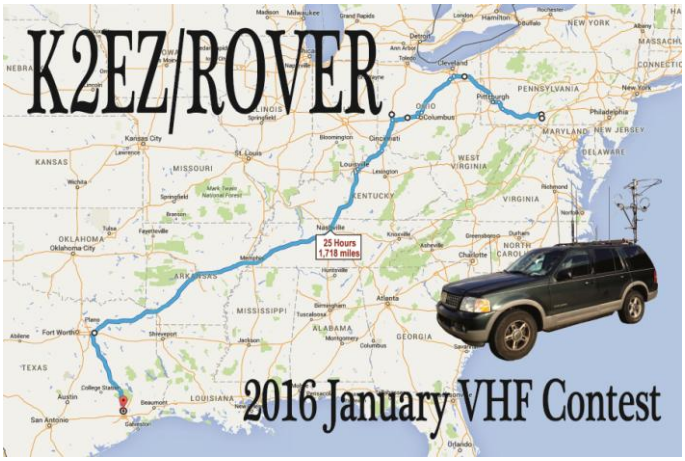
Wyatt, ACØRA/R, started in Dayton, OH, and activated 17 grids including stops in Wisconsin and Cedar Rapids, IA. He said:

"...had more than my share of problems as well. First I lost the front end in my FT857 before the contest even started. Not too big a deal but had to swap everything to my FT817. Secondly a few hours into the contest after 600 miles of no issues my 6M Moxon fell apart. Got really lucky with that one as a farmer stopped by to assist reassembly with a ladder but killed an hour messing with it and talking to him."

W7QQ/R discovered that the Rovers have their own road! (photo courtesy James Duffey, KK6MC)

Commencing countdown, engines on…

While not Major Tom, Andrea, K2EZ, launched herself on a record January roving trip…not for score (which was second only to WW7D/R), but for total number of grid squares activated…27 in all!



Andrea, K2EZ, put in a lot of driving in her Rover effort!

"This was my fourth rove since my first last January. New for this rove was a new logging system, improved antennas, better DC power to the rigs/amps, and lower loss feedlines. I also set ambitious plans to activate a large number of grids.

All the work and preparation paid off with another personal best.

By the time of the closing bell, I had activated 27 grids from Central PA down to Houston Texas. I covered almost 1700 road miles this rove thru 6 states, four ARRL divisions and seven ARRL sections.

One of the amusing moments occurred Sunday around 7:30pm local time when I was in EM12 a bit south of Dallas, TX. At that time I worked K5TR. When I sent them my grid as EM12 I got a query asking to verify the grid because they had me last logged that same day in EM66. Well I was in EM66 earlier that same day."

KE7KQA had a nice view from his hilltop location in DN06bt (photo courtesy James Colson, KE7KQA)

Club Competition: We Can be Heroes

In the Affiliated Club Competition, the heroes were the Mt. Airy VHF Radio Club "Packrats" continuing their sequence of claiming the Unlimited Club Category gavel including a 14% increase in score over 2015; the North East Weak Signal (NEWS) Group vaulted from third place last year to win the Medium Club Category with the Potomac Valley Radio Club close behind; and the Eastern Connecticut ARA amassed the highest aggregate score of all Local clubs.

Affiliated Club Competition		
Club Name	**Score**	**Logs**
Unlimited		
Mt Airy VHF Radio Club	2,147,223	70
Medium		
North East Weak Signal Group	627,820	19
Potomac Valley Radio Club	453,058	22
Roadrunners Microwave Group	166,716	6
Northern Lights Radio Society	163,358	17
Contest Club Ontario	147,424	12
Society of Midwest Contesters	129,441	15
Rochester VHF Group	128,903	22
Pacific Northwest VHF Society	124,924	32
Frankford Radio Club	110,935	8
Badger Contesters	98,052	3
Southern California Contest Club	61,423	7
Yankee Clipper Contest Club	37,729	8
South Jersey Radio Assn	21,541	7
CTRI Contest Group	15,175	3
Six Meter Club of Chicago	12,247	10
Northern California Contest Club	3,268	8
Contest Group du Quebec	2,126	3
Florida Contest Group	1,918	5
Willamette Valley DX Club	1,905	5
DFW Contest Group	1,798	3
Arizona Outlaws Contest Club	583	4
Alaska VHF-Up Group	551	3
Minnesota Wireless Assn	141	3
Local		
Eastern Connecticut ARA	23,921	4
Bergen ARA	18,661	3
Granite State ARA	12,572	3
Lodi ARC	11,786	4
Florida Weak Signal Society	9,788	4
Portage County Amateur Radio Service	8,406	3
Contoocook Valley Radio Club	6,872	4
Pottstown Area ARC	5,605	3
West Valley ARA	5,538	6
Bristol (TN) ARC	3,370	3
Mobile Sixers Radio Club	2,529	3
Raritan Bay Radio Amateurs	328	3
Maritime Contest Club	103	3

Division Winners

Classic Rover		
Atlantic	NN3Q/R	92,032
Central	W9FZ/R	42,228
Dakota	KCØP/R	14,534
New England	N1WK/R	4,185
Northwestern	KE7IHG/R	5,688
Pacific	K6KV/R	216
Roanoke	K8GP/R	32,184
Southwestern	W7QQ/R	8,399
West Gulf	K5GJ/R	21,518
Canada	VE3OIL/R	41,888
Limited Rover		
Atlantic	W3ICC/R	28,482
Central	ACØRA/R	32,706
Dakota	NØSPN/R	261
Great Lakes	K2EZ/R	36,630
Hudson	N2ZBH/R	5,075
Midwest	KBØQGT/R	1,350
New England	KJ1K/R	3,168
Northwestern	WW7D/R	37,152
Pacific	K6MI/R	6,120
Roanoke	W4PH/R	4,544
Rocky Mountain	ABØYM/R	752
Southwestern	N6GP/R	1,892
West Gulf	AE5P/R	13,188
Unlimited Rover		
Delta	WD5DJW/R	36
Northwestern	K7ATN/R	41,831
Southwestern	K6WCI/R	59,568
Canada	VE7AFZ/R	1,495
Single Operator, Portable		
Atlantic	WX3P	840
Central	W9SZ	624
Dakota	WØIS	15
Delta	NV4B/5	792
Hudson	WB2AMU	767
Midwest	NØJK	20
Rocky Mountain	KØNR	114
Southwestern	AI6EA	621
Canada	VA3RKM	48

Single Operator, High Power		
Atlantic	K1RZ	253,935
Central	WØUC	59,508
Dakota	WØGHZ	37,444
Delta	WB4JGG	1,855
Great Lakes	KU8Y	67,095
Hudson	N2GHR	49,640
Midwest	WØLGQ	7,119
New England	K1TEO	299,730
Northwestern	KE7SW	13,350
Pacific	WA6OSX	10,944
Roanoke	W3IP	79,112
Rocky Mountain	WB2FKO	4,320
Southeastern	N4TWX	6,897
Southwestern	N6NB	39,184
West Gulf	K5LLL	39,008
Canada	VE3ZV	49,476
DX	RX1AS	64
Single Operator, Low Power		
Atlantic	WA3NUF	116,370
Central	K2DRH	111,220
Dakota	WBØHHM	1,992
Delta	N4QWZ	51,430
Great Lakes	N8BI	8,288
Hudson	WB2SIH	55,616
Midwest	KØDAS	4,320
New England	AF1T	65,384
Northwestern	KEØCO	9,200
Pacific	K6ATZ	1,824
Roanoke	K4FJW	3,162
Rocky Mountain	NJ7A	693
Southeastern	KX4R	28,583
Southwestern	W6IT	3,978
West Gulf	K5TRA	8,694
Canada	VA3ST	18,720

Single Operator, 3 Band		
Atlantic	WA2FGK (K2LNS, op)	42,336
Central	KO9A	9,776
Dakota	KØVG	150
Delta	KD5CKP	9
Great Lakes	KC8UDV	2,016
Hudson	WB2LEB	560
Midwest	KØJQA	672
New England	N1ZN	3,248
Northwestern	K7VIT	1,652
Pacific	N4DLA	588
Roanoke	N4PD	936
Rocky Mountain	K4UB	630
Southeastern	K1TO	198
Southwestern	KG6IYN	9,953
West Gulf	K5ND	1,664
Canada	VE3PCW	476

Single Operator, FM Only		
Atlantic	W2EV	5,842
Central	WD9GDB	9
Hudson	W2UIS	1
New England	KB1YSK	224
Northwestern	N7SNW	1
Pacific	N9VM (N1VM, op)	320
Roanoke	KM4KMU	72
Rocky Mountain	W3DHJ	2
Southeastern	KK4OSG	340
Southwestern	K6QCB	96
West Gulf	KO5OK (NL7CO, op)	133
Canada	VA6TDG	136

Limited Multioperator		
Atlantic	W3ARO	4,950
Dakota	WØVB	1,870
Great Lakes	N8ZM	26,095
Hudson	N2NT	100,395
New England	W1QK	25,482
Southeastern	N4SVC	3,116
Southwestern	WO1S	98
West Gulf	K5QE	94,724
Unlimited Multioperator		
Atlantic	N3NGE	478,436
Central	N2BJ	3,808
Delta	W4JUU	135
Hudson	K2AMI	10,760
New England	N1JEZ	27,176
Northwestern	W7PT	672
Pacific	K6ARP	10,800
Southeastern	W4NH	18,720
West Gulf	K5TR	86,135
Canada	VA3ELE	23,475

Wait 'til next year…

Expecting that the weekend selected for next year's event will again be the weekend between the NFL Conference Championships and the Superbowl, the 2017 January VHF Contest will be held on January 26-28, 2017. What will Mother Nature bring us in terms of weather? Will it be El Niño or the Polar Vortex (or possibly a Bipolar Vortex as 2016 seemed to be)? How about Old Sol in terms of exciting the ionosphere? Will there be some mid-winter sporadic E? Have your radios ready at 1900 UTC on that Saturday and find out!

Regional Leaders

Boxes list call sign, score, and category: R = Classic Rover; RL = Limited Rover; RU = Unlimited Rover; SOHP = Single Operator, High Power; SOLP = Single Operator, Low Power; SOP = Single Operator, Portable; SO3B = Single Operator, 3 Band; SOFM = Single Operator, FM Only; LM = Limited Multioperator; UM = Unlimited Multioperator

West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NT Sections)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			Central Region (Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Greater Toronto Area Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)		
W7QQ/R	8,399	R	K5GJ/R	21,518	R	W9FZ/R	42,228	R	K8GP/R	32,184	R	NN3Q/R	92,032	R
KE7IHG/R	5,688	R	KCØP/R	14,534	R	KA9VVQ/R	42,090	R				K1DS/R	50,640	R
VE7JH/R	3,500	R	NØHZO/R	13,760	R	VE3OIL/R	41,888	R				KF2MR/R	34,440	R
K7GEN/R	1,856	R	KCØIYT/R	6,084	R	NJ9R/R	240	R				KØBAK/R	30,060	R
KE7MSU/R	1,725	R	KØMHC/R	1,218	R							K2TER/R	25,311	R
WW7D/R	37,152	RL	AE5P/R	13,188	RL	K2EZ/R	36,630	RL	W4PH/R	4,544	RL	W3ICC/R	28,482	RL
K6MI/R	6,120	RL	WD5RAH/R	11,680	RL	ACØRA/R	32,706	RL				N2ZBH/R	5,075	RL
N6MTS/R	5,040	RL	KD5EUO/R	7,200	RL	K9JK/R	2,660	RL				AB2YI/R	4,770	RL
NT6S/R	2,600	RL	KD5IKG/R	1,560	RL	W9II/R	2,112	RL				KJ1K/R	3,168	RL
N6GP/R	1,892	RL	KBØQGT/R	1,350	RL	N9GH/R	930	RL				W2MC/R	1,392	RL
K6WCI/R	59,568	RU							WD5DJW/R	36	RU			
K7ATN/R	41,831	RU												
K6VHF/R	4,674	RU												
N6ZE/R	2,000	RU												
VE7AFZ/R	1,495	RU												
N6NB	39,184	SOHP	K5LLL	39,008	SOHP	KU8Y	67,095	SOHP	W3IP	79,112	SOHP	K1TEO	299,730	SOHP
KE7SW	13,350	SOHP	WØGHZ	37,444	SOHP	WØUC	59,508	SOHP	N4HB	17,040	SOHP	K1RZ	253,935	SOHP
K7YDL	12,558	SOHP	WØZQ	12,195	SOHP	VE3ZV	49,476	SOHP	W4WSR	15,732	SOHP	K3TUF	209,952	SOHP
N7EPD	12,282	SOHP	KØSIX	10,746	SOHP	K8TQK	26,037	SOHP	NG4C	8,823	SOHP	WB2RVX	156,800	SOHP
WA6OSX	10,944	SOHP	K5AIH	10,472	SOHP	K9EA	22,413	SOHP	N4TWX	6,897	SOHP	K3IPM	86,502	SOHP
KEØCO	9,200	SOLP	K5TRA	8,694	SOLP	K2DRH	111,220	SOLP	N4QWZ	51,430	SOLP	WA3NUF	116,370	SOLP
W6IT	3,978	SOLP	WB5ZDP	5,208	SOLP	VA3ST	18,720	SOLP	KX4R	28,583	SOLP	W3SZ	108,621	SOLP
KG7P	3,288	SOLP	KØDAS	4,320	SOLP	K9MU	14,472	SOLP	K4FJW	3,162	SOLP	N3RG	106,050	SOLP
K6ATZ	1,824	SOLP	NØLL	3,741	SOLP	W9GA	13,734	SOLP	K4YRK	1,456	SOLP	WA3GFZ	69,793	SOLP
W7KKE	1,568	SOLP	WBØHHM	1,992	SOLP	VA3ZV	11,799	SOLP	KN4SM	990	SOLP	AF1T	65,384	SOLP
AI6EA	621	SOP	KØNR	114	SOP	W9SZ	624	SOP	NV4B/5	792	SOP	WX3P	840	SOP
WA7JTM	510	SOP	NØJK	20	SOP	VA3RKM	48	SOP	KD4NOQ	28	SOP	WB2AMU	767	SOP
KM6NY	112	SOP	WØIS	15	SOP							K6PFA	130	SOP
												KC2JRQ	112	SOP
												KQ2RP	80	SOP
KG6IYN	9,953	SO3B	K5ND	1,664	SO3B	KO9A	9,776	SO3B	N4PD	936	SO3B	WA2FGK (K2LNS, op)	42,336	SO3B
K7VIT	1,652	SO3B	KØJQA	672	SO3B	KA9VDU	2,759	SO3B	K1TO	198	SO3B	K2AA/1ØØ (KV2R, op)	8,288	SO3B
N6KW	700	SO3B	K4UB	630	SO3B	WD9EXD	2,394	SO3B	WJ1T	12	SO3B	WB2EOD	5,712	SO3B
WB7FJG	645	SO3B	KD5QAQ	180	SO3B	KC8UDV	2,016	SO3B	KD5CKP	9	SO3B	KC2THQ	5,520	SO3B
N4DLA	588	SO3B	KØVG	150	SO3B	K8RO	1,675	SO3B	K4IMP	6	SO3B	N3XF	3,939	SO3B
									N3FQ	6	SO3B			
N9VM (N1VM, op)	320	SOFM	KO5OK (NL7CO, op)	133	SOFM	WD9GDB	9	SOFM	KK4OSG	340	SOFM	W2EV	5,842	SOFM
W7AIT	238	SOFM	W3DHJ	2	SOFM				KM4KMU	72	SOFM	K2SI	1,500	SOFM
VA6TDG	136	SOFM							KK3Q	18	SOFM	N2SCJ	924	SOFM
K6QCB	96	SOFM							N3DCJ	6	SOFM	KB1YSK	224	SOFM
WUØI	40	SOFM										NY1Z	15	SOFM
WO1S	98	LM	K5QE	94,724	LM	N8ZM	26,095	LM	N4SVC	3,116	LM	N2NT	100,395	LM
			WØVB	1,870	LM							WA2CP	32,096	LM
			WCØAAA	12	LM							W1QK	25,482	LM
												W3ARO	4,950	LM
												W3HZU	4,920	LM
K6ARP	10,800	UM	K5TR	86,135	UM	VA3ELE	23,475	UM	W4NH	18,720	UM	N3NGE	478,436	UM
W7PT	672	UM	KC5MVZ	350	UM	N2BJ	3,808	UM	W4JUU	135	UM	K2LIM	118,002	UM
												WA3EHD	37,459	UM
												N1JEZ	27,176	UM
												KE1LI	17,950	UM

2016 ARRL January VHF Contest – QSO Category/Band Leaders

Single Operator, Low Power

50 MHz

WA3NUF	146
N3RG	116
K2DRH	102
AF1T	95
WB2SIH	93

144 MHz

WA3NUF	146
N3RG	116
K2DRH	102
AF1T	95
WB2SIH	93

222 MHz

WA3NUF	74
WB2SIH	72
W3SZ	61
WA3GFZ	58
K2DRH	57

432 MHz

WA3NUF	93
K2DRH	91
WB2SIH	89
AF1T	77
W3SZ	77

902 MHz

WA3NUF	32
W3SZ	23
WA3GFZ	23
N3RG	22
N3YMS	20

1.2 GHz

W3SZ	36
WA3NUF	36
N3RG	31
WA3GFZ	29
N3YMS	28

2.3 GHz

W3SZ	21
WA3NUF	19
WA3GFZ	16
N3RG	15
AF1T	9

3.4 GHz

W3SZ	21
WA3NUF	14
N3RG	11
WA3GFZ	8
K1KG	5
KA3FQS	5

5.7 GHz

W3SZ	15
N3RG	10
WA3GFZ	5
WA3NUF	5
K1KG	2

10 GHz

W3SZ	18
N3RG	9
WA3NUF	9
AF1T	7
WA3GFZ	7

24 GHz

W3SZ	5
AF1T	1
K3DMA	1
WA3GFZ	1
WA3NUF	1

Light

K3DMA	5
WA3GFZ	3
K3EGE	2
AF1T	1
KB1JEY	1
N3RG	1
VE3WJ	1
W3GAD	1
WA3NUF	1

Single Operator, High Power

50 MHz

K1TEO	222
K1TOL	177
WZ1V	163
N2GHR	158
K3IPM	156

144 MHz

K1TEO	297
KA1ZE/3	223
N3HBX	202
K3TUF	182
K1RZ	176

222 MHz

K1TEO	94
K3TUF	80
K1RZ	71
WZ1V	71
WB2RVX	68

432 MHz

K1TEO	151
K3TUF	113
K1RZ	92
WZ1V	90
WB2RVX	83

902 MHz

K1RZ	39
K3TUF	35
WB2RVX	33
K1TEO	32
K3IPM	25
WA3DRC	25

1.2 GHz

K3TUF	50
WB2RVX	49
K1RZ	46
K1TEO	42
K3GNC	35

2.3 GHz

K1RZ	26
WB2RVX	22
WA3DRC	19
K3IPM	18
K1TEO	17

3.4 GHz

K3TUF	21
WB2RVX	21
K3IPM	17
WA3DRC	17
K1RZ	16

5.7 GHz

K3TUF	13
N6NB	13
WB2RVX	13
K1RZ	10
WA3DRC	7

10 GHz

K1RZ	14
N6NB	14
WB2RVX	12
K3TUF	11
WØGHZ	11

24 GHz

K3TUF	5
N6NB	1
WØZQ	1

Light

W2SJ	2
WA3DRC	2
WB2RVX	2
K3JJZ	1
KC2TN	1

Single Operator, Portable

50 MHz

WX3P	19
WB2AMU	18
WA7JTM	17
K6PFA	13
NV4B/5	11

144 MHz

AI6EA	33
WX3P	29
WB2AMU	17
KØNR	15
NV4B/5	15

222 MHz

AI6EA	18
NV4B/5	4
WB2AMU	4
KC2JRQ	1
KM6NY	1
W9SZ	1

432 MHz

WX3P	11
WA7JTM	10
WB2AMU	8
KM6NY	7
NV4B/5	5

902 MHz

W9SZ	1

1.2 GHz

W9SZ	2

2.3 GHz

W9SZ	1

3.4 GHz

W9SZ	2

10 GHz

W9SZ	1

Light

WA3WUL	1

Single Operator, Three Band

50 MHz

WA2FGK (K2LNS, op)	139
K2AA/100 (KV2R, op)	90
KB3OZC	89
KO9A	80
K3UHU	76

144 MHz

WA2FGK (K2LNS, op)	171
K2AA/100 (KV2R, op)	100
KG6IYN	92
WB2EOD	81
KC2THQ	77

432 MHz

WA2FGK (K2LNS, op)	97
KG6IYN	57
K2AA/100 (KV2R, op)	53
WB2EOD	53
KC2THQ	51

2016 ARRL January VHF Contest – QSO Category/Band Leaders

Single Operator, FM Only

50 MHz

W2EV	33
K2SI	29
KK4OSG	3
N2SCJ	3
KO5OK (NL7CO, op)	2

144 MHz

W2EV	75
K2SI	52
N2SCJ	41
KB1YSK	30
K6QCB	20

222 MHz

N2SCJ	29
W2EV	23
N9VM (N1VM, op)	4
W7AIT	4
KK4OSG	2
KO5OK (NL7CO, op)	2

432 MHz

W2EV	50
K2SI	22
N2SCJ	15
KB1YSK	13
N9VM (N1VM, op)	6

Multioperator

(-L Limited Multioperator)

50 MHz

N3NGE	341
N2NT -L	221
K2LIM	169
W1QK -L	157
WA2CP -L	148

144 MHz

N3NGE	334
N2NT -L	296
K2LIM	244
K5QE -L	197
K5TR	139

222 MHz

N3NGE	134
K2LIM	90
N2NT -L	79
WA2CP -L	63
WA3EHD	44

432 MHz

N3NGE	209
K2LIM	119
N2NT -L	99
WA2CP -L	78
K5TR	60

902 MHz

N3NGE	42
WA3EHD	22
N1JEZ	9
K5TR	6
VA3ELE	5
W1XM	5

1.2 GHz

N3NGE	50
WA3EHD	17
K5TR	12
N1JEZ	12
VA3ELE	12

2.3 GHz

N3NGE	30
WA3EHD	13
VA3ELE	4
W1XM	4

3.4 GHz

N3NGE	22
WA3EHD	13
VA3ELE	1

5.7 GHz

N3NGE	16
VA3ELE	1

10 GHz

N3NGE	16
K5TR	8
VA3ELE	2
WA3EHD	2

24 GHz

VA3ELE	1

Light

N3NGE	5
WA3EHD	3
VA3ELE	1
WB3IGR -L	1

Rover

(-L Limited Rover)
(-U Unlimited Rover)

50 MHz

WW7D/R -L	174
W3ICC/R -L	148
K7ATN/R -U	95
K2TER/R	91
K2EZ/R -L	69

144 MHz

WW7D/R -L	180
NN3Q/R	144
K7ATN/R -U	130
W3ICC/R -L	122
KA9VVQ/R	99
W9FZ/R	99

222 MHz

WW7D/R -L	81
W3ICC/R -L	77
ACØRA/R -L	65
NN3Q/R	65
KA9VVQ/R	57
W9FZ/R	57

432 MHz

W3ICC/R -L	91
WW7D/R -L	86
W9FZ/R	72
KA9VVQ/R	71
ACØRA/R -L	68

902 MHz

K7ATN/R -U	39
NN3Q/R	31
KA9VVQ/R	27
W9FZ/R	27
KF2MR/R	26

1.2 GHz

NN3Q/R	40
K7ATN/R -U	29
K1DS/R	27
KF2MR/R	22
K6WCI/R -U	19
K8GP/R	19
VE3OIL/R	19

2.3 GHz

NN3Q/R	26
K1DS/R	16
K6WCI/R -U	16
VE3OIL/R	13
KØBAK/R	9

3.4 GHz

NN3Q/R	22
K1DS/R	16
K6WCI/R -U	16
KØBAK/R	11
K8GP/R	3

5.7 GHz

NN3Q/R	18
K6WCI/R -U	16
K1DS/R	14
KØBAK/R	7
K8GP/R	3

10 GHz

NN3Q/R	18
K1DS/R	17
K6WCI/R -U	17
W7QQ/R	9
KØBAK/R	8

24 GHz

K1DS/R	9
KCØIYT/R	1
VE3OIL/R	1

Light

KØBAK/R	9
K1DS/R	5
NN3Q/R	3
VE3OIL/R	2

2016 ARRL January VHF Contest – Multiplier Category/Band Leaders

Single Operator, Low Power

50 MHz

K2DRH	43
K9MU	27
N4QWZ	27
N3RG	25
N8BI	17

144 MHz

N4QWZ	43
K2DRH	42
KX4R	38
VA3ST	22
N3YMS	21
WA3NUF	21

222 MHz

K2DRH	28
N4QWZ	28
KX4R	18
WB2SIH	16
VA3ST	14

432 MHz

K2DRH	31
N4QWZ	31
KX4R	21
VA3ST	18
WA3NUF	16
WB2SIH	16

902 MHz

AF1T	9
K1KG	8
WA3NUF	8
K2DRH	7
N3RG	7
WB2SIH	7

1.2 GHz

K2DRH	12
K1KG	9
WB2SIH	9
KX4R	8
AF1T	7
N3RG	7
VA3ST	7
W3SZ	7
WA3GFZ	7
WB2JAY	7

2.3 GHz

AF1T	5
K1KG	5
W3SZ	5
N3RG	4
VA3ST	4
WB2JAY	4

3.4 GHz

N3RG	5
W3SZ	5
K1KG	4
WA3NUF	3
K2DRH	2
KA3FQS	2
WA3GFZ	2
WB2JAY	2

5.7 GHz

N3RG	5
W3SZ	4
K1KG	2
WA3NUF	2
AF1T	1
VE3WJ	1
WA3GFZ	1

10 GHz

AF1T	4
KØKFC	4
W3SZ	4
K1KG	3
K7RJ	3
N3RG	3
WA3GFZ	3

24 GHz

W3SZ	4
AF1T	1
K3DMA	1
WA3GFZ	1
WA3NUF	1

Light

AF1T	1
K3DMA	1
K3EGE	1
KB1JEY	1
N3RG	1
VE3WJ	1
W3GAD	1
WA3GFZ	1
WA3NUF	1

Single Operator, High Power

50 MHz

K1TOL	48
K1TEO	42
KU8Y	32
KØTPP	31
WØUC	28

144 MHz

KA1ZE/3	57
K1TEO	42
K5LLL	37
K1RZ	34
KU8Y	34

222 MHz

K1TEO	30
K1RZ	25
KU8Y	25
WØUC	23
K3TUF	21
W3IP	21

432 MHz

K1TEO	33
K3TUF	26
KU8Y	26
W3IP	26
K1RZ	24
VE3ZV	24

902 MHz

K1RZ	15
K1TEO	14
K1GX	11
K3TUF	9
N1DPM	9
W3IP	9
WB2RVX	9

1.2 GHz

K1TEO	16
K1RZ	15
K3TUF	15
KU8Y	11
VE3ZV	11
WZ1V	11

2.3 GHz

K1RZ	9
K1GX	8
K1TEO	8
N6NB	6
K1IIG	5

3.4 GHz

K1RZ	8
K1TEO	7
N6NB	6
WB2RVX	6
K1GX	4
K3IPM	4
K3TUF	4
W2SJ	4
WA2OMY	4
WA3DRC	4

5.7 GHz

K1RZ	7
N6NB	6
WB2RVX	5
K3TUF	4
K1GX	2
K1TEO	2
KD7TS	2
WA2OMY	2
WA3DRC	2

10 GHz

K1RZ	7
N6NB	6
WØGHZ	6
K3TUF	4
WB2RVX	4

24 GHz

K3TUF	4
N6NB	1
WØZQ	1

Light

K3JJZ	1
KC2TN	1
W2SJ	1
WA3DRC	1
WB2RVX	1

Single Operator, Portable

50 MHz

W3MEO	4
WB2AMU	4
NV4B/5	3
WA7JTM	3
WX3P	3

144 MHz

NV4B/5	8
AI6EA	5
WX3P	5
KØNR	4
KC2JRQ	4
NØJK	4
WB2AMU	4

222 MHz

AI6EA	4
NV4B/5	3
WB2AMU	2
KC2JRQ	1
KM6NY	1
W9SZ	1

432 MHz

NV4B/5	4
WA7JTM	4
WX3P	4
WB2AMU	3
KC2JRQ	2
KØNR	2
VA3RKM	2
W9SZ	2

902 MHz

W9SZ	1

1.2 GHz

W9SZ	2

2.3 GHz

W9SZ	1

2016 ARRL January VHF Contest – Multiplier Category/Band Leaders

Single Operator, Portable (continued)

3.4 GHz

W9SZ	2

10 GHz

W9SZ	1

Light

WA3WUL	1

Single Operator, Three Band

50 MHz

KO9A	33
WA2FGK (K2LNS, op)	28
K3UHU	16
N3XF	14
KG6IYN	13
N1ZN	13

144 MHz

WA2FGK (K2LNS, op)	32
VE3PCW	17
N3XF	15
K2AA/100 (KV2R, op)	14
KA9VDU	14
KC8UDV	14

432 MHz

WA2FGK (K2LNS, op)	24
KG6IYN	12
N3XF	10
KA9VDU	9
K3CCR (N3UM, op)	8

Single Operator, FM Only

50 MHz

W2EV	5
K2SI	4
KK4OSG	1
KO5OK (NL7CO, op)	1
N2SCJ	1
W7AIT	1

144 MHz

W2EV	7
KK4OSG	5
KM4KMU	5
K2SI	4
N9VM (N1VM, op)	4
VA6TDG	4
WUØI	4

222 MHz

W2EV	5
N9VM (N1VM, op)	3
N2SCJ	2
W7AIT	2
KK3Q	1
KK4OSG	1
KO5OK (NL7CO, op)	1

432 MHz

W2EV	6
K2SI	4
VA6TDG	4
KK4OSG	3
N9VM (N1VM, op)	3

Multioperator
(-L Limited Multioperator)

50 MHz

K5QE -L	58
N3NGE	43
K5TR	37
K2LIM	33
W4NH	33

144 MHz

K5QE -L	96
K5TR	53
K2LIM	45
N3NGE	44
N2NT -L	38

222 MHz

K2LIM	32
N3NGE	31
N2NT -L	26
K5QE -L	22
K5TR	19

432 MHz

K5TR	34
N3NGE	34
K2LIM	32
K5QE -L	23
N2NT -L	22

902 MHz

N3NGE	11
N1JEZ	7
K5TR	4
W1XM	4
WA3EHD	4

1.2 GHz

N3NGE	10
K5TR	9
N1JEZ	8
VA3ELE	8
W1XM	4
WA3EHD	4

2.3 GHz

N3NGE	9
VA3ELE	3
WA3EHD	3
W1XM	2

3.4 GHz

N3NGE	5
WA3EHD	3
VA3ELE	1

5.7 GHz

N3NGE	4
VA3ELE	1

10 GHz

K5TR	5
N3NGE	4
VA3ELE	1
WA3EHD	1

24 GHz

VA3ELE	1

Light

N3NGE	1
VA3ELE	1
WA3EHD	1
WB3IGR -L	1

Rover
(-L Limited Rover)
(-U Unlimited Rover)

50 MHz

K2EZ/R -L	22
KC5WX/R -L	16
K2TER/R	15
KD5EUO/R -L	14
K6VHF/R -U	13
WW7D/R -L	13

144 MHz

K2EZ/R -L	30
ACØRA/R -L	21
KD5EUO/R -L	19
VE3OIL/R	18
K5GJ/R	16
KA9VVQ/R	16
W9FZ/R	16

222 MHz

ACØRA/R -L	14
K2EZ/R -L	14
KA9VVQ/R	12
VE3OIL/R	12
W9FZ/R	12

432 MHz

K2EZ/R -L	17
ACØRA/R -L	15
VE3OIL/R	14
KA9VVQ/R	13
W9FZ/R	13

902 MHz

K7ATN/R -U	7
K6WCI/R -U	6
KA9VVQ/R	6
KF2MR/R	6
W9FZ/R	6

1.2 GHz

KF2MR/R	8
K6WCI/R -U	6
K7ATN/R -U	6
KCØP/R	6
NØHZO/R	6

2.3 GHz

K6WCI/R -U	6
KF2MR/R	4
K1DS/R	3
KCØP/R	3
NØHZO/R	3
NN3Q/R	3
VE3OIL/R	3

3.4 GHz

K6WCI/R -U	6
NN3Q/R	4
KØBAK/R	3
K1DS/R	3
K8GP/R	1
KCØIYT/R	1
VE3OIL/R	1

5.7 GHz

K6WCI/R -U	6
NN3Q/R	4
KØBAK/R	3
K1DS/R	3
K8GP/R	1
KCØIYT/R	1
VE3OIL/R	1

10 GHz

K6WCI/R -U	6
NN3Q/R	4
K1DS/R	3
KA9VVQ/R	3
W7QQ/R	3
W9FZ/R	3

24 GHz

K1DS/R	3
KCØIYT/R	1
VE3OIL/R	1

Light

KØBAK/R	2
K1DS/R	2
NN3Q/R	2
VE3OIL/R	1