ARRL 2024 January VHF Contest Full Results

By James R. Duffey, KK6MC (kk6mc@AMSAT.org)

Great and widespread propagation offset winter weather by a great deal for an excellent contest!

The 2024 January contest had what may have been the greatest January contest Es opening ever; at least since the 2012 contest. The great Es propagation was supplemented by good Trans Equatorial Propagation (TEP) openings for much of the country. The Es allowed stateside stations to get into the South Pacific, New Zealand and Australia. And it wasn't just the big stations that got in on it, even the little pistols made QSOs into the South Pacific. While contest station K5QE reported a pipeline into the South Pacific, others further east also had some propagation there.

The impact of the use of the WSJT-X modes has begun to converge. They seem to have a major influence on the future of VHF+ contesting. The new analog-only categories appear to have slowed, at least the time being, the flight from the analog modes to the digital modes with analog participation holding fairly constant. The digital operators are learning how to QSY stations they work on the digital modes to other bands and modes and the new protocol for this has helped. There is still lots of room for improvement though. The number of digital QSOs being made on 2M and up is increasing over the early days of WSJT-X, which has addressed, in part, the complaints that it was difficult to QSY stations from 6M WSJT-X to higher bands and/or different modes. The higher band digital activity has grown as a result of this. Activity on the bands above 902 MHz continues to be low, for several reasons, but there are a lot of points and fun to be had on those bands. Admittedly, wrestling a 10 GHz dish in and out of a car in zero temperatures is not easy, as is getting a LASER to start, but we are facing a use-it-or-lose-it situation on those bands and with the majority of activity on those bands being during contests, it pays to get even small low power rigs on the air. Commercial equipment at modest prices is available for these bands and antennas are compact and easy to build.

There were 859 logs submitted, with 10 of those check logs. This is a bit down from 2023's 898, but still shows strong interest in the January contest.

Jon, NØJK/R dealing with the snow. (Photo courtesy NØJK)

Rover Scores

Rovers are the life blood of VHF contesting, handing out QSOs from sparsely populated grids, and popping up again in the contest in another grid to work again. They often carry lesser used bands, including the microwave bands and 222 MHz. For some fixed stations, rovers comprise a third or more of their total QSOs and score.

Classic Rover

Classic Rover Top Scores	
N7GP/R	94,160
KF2MR/R	79,443
VE3OIL/R	60,480
K2UA/R	59,846
KE2BUY/R	54,978
K2EZ/R	28,938
K2ET/R	16,860
KK6MC/R	14,701
W2EV/R	13,547
K9TMS/R	8,540
N9REP/R	8,540

N7GP/R continues to dominate the Classic Rover category. His winning score is the result of good route planning which includes visiting rare grids, grids near population centers, and locations where grids can be changed quickly, along with a dedicated 10-band effort. The Arizona VHF society has actively recruited new microwave operators and encouraged old hands to increase their microwave activity. KF2MR/R finished a strong second, again on the strength of a 10-band effort while only visiting four grids. KE2BUY, KF2MR's harmonic, making use of the family rule, took fifth on a strong showing. VE3OIL finished third. K2UA/R finished fourth, overcoming challenging weather to setup his rover. Forecasted high winds forced Rus to leave the 6M mast and antenna home, but he did just fine with 9 bands, a testament to the value of those higher QSO points available on the microwave bands.

Limited Rover

KA5D/R, (KA5C, second op), finished first, roving through 13 grids in east and southeast Texas with W5TN/R who finished second. Without the benefit of the higher band QSO points, visiting more grids is the way to increase one's score. VA3ELE/R overcame a rough start, in part due to cold weather, to finish third, despite having to skip three planned grids, and power down to 25 watts on two.

Limited Rover Top Scores	
KA5D/R	44,080
W5TN/R	37,130
VA3ELE/R	33,142
KG9OV/R	17,520
KM4OZH/R	11,070
N6GP/R	9,918
W4JST/R	6,528
KE4WMF/R	5,772
K4NO/R	4,324
AA2SD/R	4,296

K2UA/R found his rover engulfed in snow and ice at the beginning of the contest. (Photo courtesy K2UA and RVHG)

KG9OV/R finished fourth, visiting five grids and overcoming the January double whammy of bad weather and bad propagation. Propagation was so bad that KG9OV/R reported that he needed to use FT8 to work stations he would normally have no problem working on phone. KM4OZH/R finished fifth on a solid effort. N6GP/R finished sixth, overcoming a problem that many rovers in the Northeast and Midwest wish they had – namely rain.

The VA3ELE/R four band antenna stack in the cold and snow. (Photo courtesy VA3ELE)

Unlimited Rover

Unlimited Rover Top Scores	
KG6CIH/R	53,755
K6WCI/R	41,318
N6TEB/R	35,490
NV4B/R	17,886
KCØP/R	6,020
N5BF/R	448

Setting up in the cold and snow, KG6CIH/R finished first in Unlimited Rover category on the strength of an 11-band effort. K6WCI/R put in a strong second place effort and N6TEB finished third. NV4B/R had unusually cold weather for Alabama, and had to make several adjustments to his route as a result, finishing in fourth place.

Single Operator High Power

N2JMH finished first in the SOHP category with his best effort to date anchored by operating 10 bands. In a problem we wish we all had, Jim commented that it was almost too busy at times. K1TEO finished second with a 9-band effort, despite a high noise level, probably associated with the very cold weather. K2TER finished third with a 10-band effort. N1AV finished fourth, a respectable finish from the southwest, especially as he lost 2 meters early in the contest. As Jay says, “More fun than digging holes.” K1RZ finished fifth, losing his 432 MHz amp early.

Top Ten Single Operator, High Power	
N2JMH	299,736
K1TEO	264,434
K2TER	76,544
N1AV	68,036
K1RZ	61,008
WA3DRC	54,802
N2YB	52,150
W3IP	47,676
WB2RVX	46,020
W3SZ	41,160

Single Operator Low Power

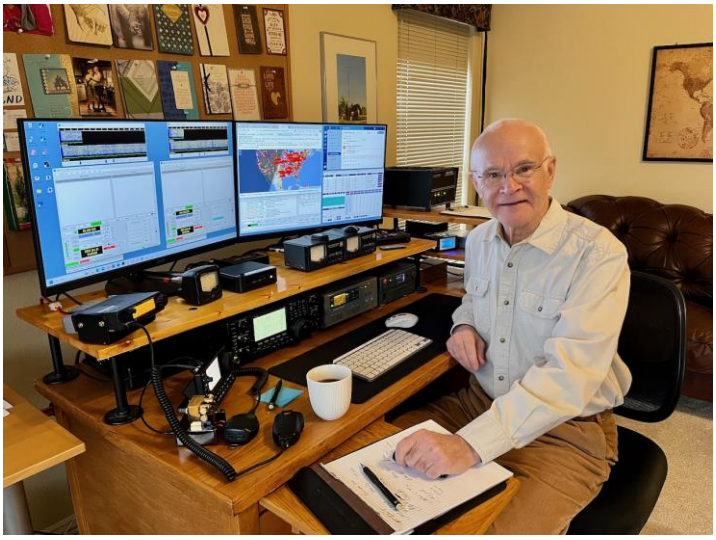
With perennial winner K2DRH out of commission with frozen snow and sleet causing his rotors to freeze and antennas to have high SWR, the field was wide open. N2WK fought frozen rotors and stepped up to finish first in SOLP. NR2C doubled his 2023 score on the way to finishing second. WA3NUF’s station tweaks resulted in a third-place finish. N3RG finished fourth with a 6-band effort. N2OA finished fifth.

Top Ten Single Operator, Low Power	
N2WK	129,600
NR2C	108,281
WA3NUF	67,419
N3RG	47,526
N2OA	43,632
KA2ENE	42,150
K9KLD	38,190
N7IR	37,278
WA3GFZ	25,172
NF3R	23,025

Single Operator High Power Analog Only

WZ1V resolved early keyboard/computer issues to finish first in SOAHP despite missing the first hour and half of the contest, usually the time with the highest activity. VE3ZV finished second. W2KV, finished third and thought it a fairly typical January contest. W2FU finished fourth. VE3KG finished fifth with a fully working station, which seems to be a bit rare in January.

Top Ten Single Operator Analog Only, High Power	
WZ1V	51,204
VE3ZV	30,855
W2KV	19,886
W2FU	18,765
VE3KG	11,868
K6MI	10,200
K5LLL	10,044
K8TQK	4,560
WØGHZ	4,455
N6KN	2,842



K5ND and his well-organized and effective SOHP station. It seems like one can never have too many monitors. (Photo courtesy K5ND)

Single Operator Low Power Analog Only

AF1T handily took first place SOALP, more than doubling the second place finisher's score. He operated 11 bands, and as he says "Those 8-Point contacts above 2.3 GHz doubled my score!" VE3DS took second with an 8-band effort and lots of rover contacts. W1MKY finished third, operating on an amazing 14 bands and noting that she really enjoys giving out points. VE3KH finished fourth. W7IMC finished fifth.

Top Ten Single Operator Analog Only, Low Power	
AF1T	97,745
VE3DS	45,590
W1MKY	20,335
VE3KH	15,088
W7IMC	11,200
K3TUF	11,080
WB2JAY	8,073
AC1J	6,144
WB2VVV	5,810
N7RK	3,857

W7IMC used this simple but comprehensive collection of antennas erected on his back deck to place fifth in the SOALP category. (Photo courtesy W7IMC)

Single Operator Portable

Participation in the SOP class depends on the weather, there are fewer entrants from the North in January, and more from the South. Arizona operators particularly like the SOP class in January as it allows them to activate peaks that would be intolerably hot in the summer.

XE2YWB finished first, an unusual occurrence for an XE in what is not thought generally thought of as a DX contest. NØJK finished second with good Es openings. VA2VT parlayed very short 2-meter openings into a third-place finish on 6 bands. N2MAK finished fourth and AB4DX fifth.

Top Scores Single Operator, Portable	
XE2YWB	2,604
NØJK	2,244
VA2VT	1,647
N2MAK	1,200
AB4DX	640
WQ6D	308
NØSUW	217
KD7WPJ	208
W2BL	14

W7JET operating in DM43EM as single operator portable. The nicest weather for SOP is Arizona in January. (Photo courtesy W7JET)

N2YTF's single operator analog-only portable setup just after sunset. It looks cold and icy but N2YTF sent along a photo of his thermometer reading a balmy 20F when this picture was taken! (Photo courtesy N2YTF)

Single Operator Portable Analog Only

N3YMS took first place. W7JET placed second with a solid 6 band effort and N2YTF finished third. In a first-time effort, KJ7BJS finished fourth with a five-band effort.

Top Ten Single Operator Portable Analog Only	
N3YMS	4,756
W7JET	2,574
N2YTF	923
KJ7BJS	920
KN6PRZ	638
WB2AMU	232
W2NTN	231
NT1D	182
VA3TO	96
WN1C	90

Single Operator Three Band (SO3B)

While the SO3B category was created with the idea that it was a good way to introduce beginning VHFers with rigs like the IC706 and FT100 that had three bands to contesting and they would move on to more bands. It has not had that effect, with few SO3B entrants moving on, and many seasoned VHF contesters choosing to operate SO3B as it is "less hassle". There have even been calls over the years to create an SO3B High Power Category, which is not in keeping of the concept of an introductory category. The category remains popular.

W5TRL won the SO3B category with a score that would have been in the top ten in the four band SOLP category. KO9A overcame frozen rotor issues to finish second, through creative antenna pointing and meteor scatter.

Top Ten Single Operator, 3 Band	
W5TRL	57,440
KO9A	26,394
KE8AKW	22,692
W8JH	10,164
K7BG	9,963
CO2QU	9,715
W3FAY	9,690
W1FKF	9,342
W9XT	9,150
K1DC (@K1TTT)	8,748

Single Operator Three Band Analog Only

K2MGY took first place with N7QOZ in second. NR7T took third and KN7Y finished fourth despite some un-Arizona like rain. The good Es opening on Sunday afternoon also helped him.

Top Ten Single Operator, 3 Band Analog Only,	
K2GMY	3,270
N7QOZ	2,662
NR7T	1,960
KN7Y	1,786
K7CX	1,349
WB7FJG	928
W1SRH	754
KB1HXO	624
AJ6LG	492
N1ZN	396

Single Operator FM Only (SOFM)

VE3RWJ finished first by a wide margin. N6ZE was second with a six-band effort, although he noted that sticking to FM he missed the Es opening on Sunday afternoon. KB1YNT finished third. N6MX was a close fourth and K1CT finished fifth. While the SOFM scores are generally low compared to those of other categories, this category serves as a good introduction to VHF+ contesting for many.

Top Ten Single Operator, FM Only	
VE3RWJ	2,472
N6ZE	684
KB1YNT	469
N6MX	450
K1CT	413
AF6GM	378
N1TEN	280
N7OOS	100
KN6FKQ	99
KO6BGT	80

Limited Multioperator

The team at K5QE (AE5VB, AF8Z, K5QE, KA6U, KF5LKG, KJ5BLU, N5YA, and VE3WY) continued their dominance of this category with a solid first place finish. K5QE takes an unusual approach to this category, substituting 1.2 GHz for the more commonly used 222 MHz, with the aim of making EME QSOs on 1.2 GHZ and obtaining the higher QSO point value and increased multipliers.

Top Ten Limited Multioperator	
K5QE	204,792
N2NT	120,000
W2MMD	52,000
VE3MIS	26,695
WA3EKL	14,656
WØRSJ	9,898
WO1S	4,500
W1FM	3,567
W3HZU	3,366
W4EE	2,769

N2NT, with operators N2NC, N2NT, and WW2Y, finished second using a more conventional lower four band approach despite a short time out to repair the 6M antenna. W2MMD finished third. VE3MIS with operators VA3FIP, VA3GKT, VE3HES, VE3MDX, VE3MYO, and VE3NE finished fourth. WA3EKL with operators, KB3VQC, KC3VBH, KC3WVH, N3DPB, W1TRT, and WA3EKL finished fifth, struggling with flat propagation. On 6M they used a pair of horizontal polarized loops, center at 65 feet, which they found did better than their five element Yagi at 38 feet for nearly all but the scarce Es stations.

Unlimited Multioperator

N3NGE finished first, with N8GA in second, and KD2GLX in third. WD9EXD finished fourth. W4NH, with operators K4VBM, KI4US, KM4QHI, N4SDK, W4KXY, W4RLW, W4ZST, and WG8S, overcame cold weather (well for Georgia anyway) to place fifth.

Top Ten Unlimited Multioperator	
N3NGE	120,648
N8GA	81,718
KD2LGX	73,899
WD9EXD	51,988
W4NH	48,824
KE1LI	35,155
KE8RV	22,695
KV1J	21,432
W1XM	15,652
N4BRF	12,948

Breakdown of Activity by band and mode

Band	CW	DG	FM	PH	RY	Band Total	Overall Band %	Band % Digital
50	417	29206	97	4594	1336	35650	51.79%	85.67%
144	458	11162	1013	6327	455	19415	28.21%	59.84%
222	178	464	322	2522	15	3501	5.09%	13.68%
432	373	1459	527	4058	57	6474	9.41%	23.42%
902	125	10	22	740		897	1.30%	1.11%
1.2G	206	116	70	1086	19	1497	2.17%	9.02%
2.3G	94	1	10	436	2	543	0.79%	0.55%
3.4G	56	1	7	228	1	293	0.43%	0.68%
5.7G	65	1	1	162		229	0.33%	0.44%
10G	74		1	219		294	0.43%	0.00%
24G			2	10		12	0.02%	0.00%
47G				9		9	0.01%	0.00%
123G			2	7		9	0.01%	0.00%
LIGHT	4			7		11	0.02%	0.00%
Mode Total	2050	42420	2074	20405	1885	68834		
Mode %	2.98%	61.63%	3.01%	29.64%	2.74%			

One should note that the QSOs listed as RY are probably DG. RY is a holdover from days prior to digital getting its own DG designator. I suppose those reporting DG contacts as RY are using old logging software and eventually most of the RY designators will go away. 6 meters remains the most popular band for the January contest, with over half of the contest QSOs occurring on this band. 2 meters is next, with slightly over a quarter of the QSOs being made on this band. On these two bands, the digital modes provided the majority of QSOs.

There is a clear lack of activity on the higher bands, particularly on 902 MHz and above. This is dangerous in the long run. It does not cost. Much to get on these bands and if you don't have them you should consider adding them.

Club activity in the VHF contests is the one thing that correlates well with VHF contest activity. In general, when club entrants are up, overall participation in the contest is up. With 41 club entries this year, the club compeition remains healthy. If you contest in an area with others and you all belong to the same club or can join the same club it is worthwhile for everyone to enter the club competition. There is nothing like peer pressure to keep at the operating position when activity lags.

The Packrats, formally known as the Mt. Airy VHF Radio Club, placed first in the Unlimited Group, placing that is not new to them. There isn't a lot of competition at this level in January, but the Packrats manage to put a lot of stations on the air, including rovers. The club wins, and other contest participants benefit from the increased activity.

The Rochester VHF Group (RVHFG) finished first in the Medium Club Category with a score similar to the Packrats with fewer club submissions. The RVHFG is celebrating their 75th anniversary this year and is having a big push for increased push for contest activity. It worked for January! RVHFG always puts out a lot of rovers, a feat to be admired as that part of the U.S. has some of the coldest and snowiest January weather. The Northeast Weak Signal Group is not stranger to the Club standing with a second-place finish. The Arizona VHF Society finished third with a good showing from what can be a VHF black hole. They shine in the January contest with the nice weather, active VHF snowbirds swelling the VHF population, and an easily accessible grid convergence located near a major population center.

In the Local Club competition Eastern Connecticut ARA took first and Chippewa Valley VHF Contesters second, with the Stoned Monkey VHF ARC taking third.

Affiliated Club Competition

Club	Score	Entries
Unlimited		
Mt. Airy VHF Radio Club	1,227,321	56
Medium		
Rochester VHF Group	1,221,190	33
North East Weak Signal Group	241,545	12
Arizona VHF Soc.	181,947	7
Potomac Valley Radio Club	164,598	40
Soc. of Midwest Contesters	163,783	24
Pacific Northwest VHF Soc.	130,726	30
Roadrunners Microwave Group	98,303	4
Ontario VHF Assn.	82,524	10
Fourlanders Contest Team	76,426	6
Grand Mesa Contesters of Colorado	76,158	7
Arizona Outlaws Contest Club	75,918	14
Contest Club Ontario	71,093	9
Kentucky Contest Group	57,364	3
Northern Lights Radio Soc.	55,757	17
Frankford Radio Club	37,144	4
Texas DX Soc.	33,418	6
Southern California Contest Club	30,491	11
DFW Contest Group	28,140	6
Northern California Contest Club	25,880	9
Yankee Clipper Contest Club	23,388	9
New Mexico VHF Soc.	21,225	3
Minnesota Wireless Assn.	10,706	5
Tennessee Contest Group	8,431	6
Carolina DX Assn.	7,405	5
Alabama Contest Group	5,830	3
Convair/220 ARC	5,405	3
Florida Contest Group	5,388	6
South Jersey Radio Assn.	4,644	5
Wayne County ARC	4,527	3
Michigan VHF-UHF Soc.	3,825	4
Mad River Radio Club	2,491	3
Western Canada Weak Signal Assn.	1,687	4
W6TRW ARC	715	3
Silver Comet ARS	393	3
Local		
Eastern Connecticut ARA	43,771	5
Chippewa Valley VHF Contesters	26,816	4
Stoned Monkey VHF ARC	19,608	3
CTRI Contest Group	6,578	3
Bristol (TN) ARC	5,283	5
XRX ARC	1,880	5

General comments on the January 2024 VHF Contest

The new analog-only categories remain popular and hav addressed some of the concerns about declining analog activity in the January contest. The number of analog only entries this year was 140, down slightly from 163 last year.

Remote control of stations is being used to advantage by multioperator stations, rovers, and snowbirds-who can access their station in cold climates from their condo in Florida. With it becoming easier to remote stations, I suspect that this trend will continue.

Digital modes continue to dominate activity in the contest, with nearly 65% of all VHF contest QSOs made on the digital modes. At least 74% of submitted logs contained digital QSOs and 38% of submitted logs were exclusively digital. While FT8 is by far the most popular digital mode, those using MSK144 find it a great way to increase multipliers, especially when the band is flat. FT4 is a great contest mode, allowing rapid QSOs at nearly the rate available on CW, but it has been slow to take off. Give it a try. Q65, another digital mode, is effective and taking hold on the higher bands. There are a plethora of modes to use in the contest, so try a new one!

After a slow start on 2 meters, digital activity has increased on that band so that 60%, of QSOs on that band are made through digital modes. Early on, concerns were expressed that 6 meter digital modes were decreasing 2 meter activity, but that has not proven to be the case

Digital modes have made EME QSOs available even to modest stations. The effectiveness of an EME effort can be seen by looking at 2M multipliers in the scores. Those with high numbers of 2M multipliers usually get them with EME. While you may not be able to accumulate these high numbers with a modest station, you can probably add a few mults that you would not normally work.

One good use of the January contest is to train operators in contesting without having overwhelming contest conditions. There are several ways to do this, but in 2024, there were several groups that took advantage of the Unlimited Rover category to introduce and train new operators. Let us hope this trend continues.

Log submission and checking

If you participated in the contest, even in a modest way, it is important for you to submit a log. Encourage others, especially the casual operators, to submit logs as well. It indicates support for the January contest and tells the ARRL contest staff and the Program Services Committee that there is significant interest in the contest and that it should be continued.

All logs are cross checked against all other logs to validate QSOs. You may find your score has decreased from what you submitted. You can access your log checking report (LCR) on the ARRL Contest Portal at contests.arrl.org. This will help you ascertain why your score was reduced, which is not always your fault, so that you can make an effort to improve your logging accuracy in the future.

For many years digital QSOs were logged as RTTY QSOs, RY in the Cabrillo format. Digital modes got their own designator, DG, shortly after WSJT-X was released and for accuracy, that designator should be used. There are still logs being submitted with RY being used as a designator for digital contests. There is nothing in the rules to prevent this, but DG should be used in logs to designate digital contacts.

Coordinated Roving

The number of rovers who coordinate their rove with other rovers, or travel with other rovers to increase their scores is substantial. Although difficult to determine the number exactly, probably 20 to 25% of rovers participate in some form of coordinated roving. Depending on the number of rovers and bands that they have, the scores resulting from this activity can be quite high.

This practice was controversial when it first appeared and still is to some extent. There are

several reasons for the controversial nature of this practice and it has prompted some rules changes over the years, not all favorable, to either the rovers or other contestants. The Unlimited category was created in part to address this issue, but it has little been used for that.

Whatever one's opinion, the practice has become more widespread, and, it seems, gained wider acceptance within the contest community. While the complexion of coordinated roving varies from one group to another and is used for various purposes, it can have both useful and harmful attributes. I don't expect that the number of coordinated rovers will decrease in the future. Whether or not the increase is a problem is a judgement call and depends a lot on one's views of contesting.

Logs Submitted

Logs Submitted by Category
2024 January VHF Contest

Category	Entries
Classic Rover	21
Limited Rover	27
Unlimited Rover	6
Single Operator High Power	167
Single Operator Low Power	257
Single Operator High Power Analog Only	24
Single Operator Low Power Analog Only	70
Single Operator Portable	9
Single Operator Portable Analog Only	16
Single Operator 3 Band	161
Single Operator 3 Band Analog only	30
Single Operator FM	28
Limited Multiop	15
Unlimited Multiop	18
CHECKLOG	10

Summary

The January Contest is healthy with 859 entries, down only slightly from 2023's 898. While not at recent peak levels, likely due to people no longer being in Covid quarantine, activity is significantly above the pre WSJT-X levels. The digital modes have gained wider acceptance, and contestants, serious and casual alike, are adjusting their operating styles to accommodate.

Activity remains low on the microwave bands. While due in some part to the winter weather, there is substantial room for growth there. The rewards are higher QSO points and additional multipliers which mean higher scores. The cost of entry to microwave has dropped considerably over the past 30 years and is now less of a deterrent to microwave operation. Look into adding 1296 MHz and above bands to your arsenal to increase your score and, more importantly, to increase the use of the higher bands.

The January 2024 contest is in the books and it is time to look forward to the 2025 January VHF Contest. I will take place 1900Z, Jan 18 to 0359Z, Jan 20, 2025. Start your planning now!

Regional Leaders

West Coast Region		Midwest Region		Central Region		Southeast Region		Northeast Region	
(Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NT Sections)		(Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)		(Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Greater Toronto Area Sections)		(Delta, Roanoke and Southeastern Divisions)		(New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)	
Classic Rover									
N7GP/R	94,160	KK6MC/R	14,701	VE3OIL/R	60,480	K2EZ/R	28,938	KF2MR/R	79,443
KD6EFQ/R	4,914	NØSPN/R	2,040	K9TMS/R	8,540			K2UA/R	59,846
		KJ5DTR/R	273	N9REP/R	8,540			KE2BUY/R	54,978
		KJ5DTS/R	273					K2ET/R	16,860
		KJ5DHA/R	221					W2EV/R	13,547
Limited Rover									
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KA7RRA/R	1,290	W5TN/R	37,130	KG9OV/R	17,520	W4JST/R	6,528	KB1POP/R	552
K6LMN/R	425	KØLTC/R	2,013	K9AJW/R	2,528	KE4WMF/R	5,772	WB2SIH/R	260
N9VM/R	120	W5OC/R	1,320	W8ISS/R	546	K4NO/R	4,324	WS1O/R	135
N7MKO/R	100	WØWLA/R	572	VE3RKS/R	54	KE5EXX/R	546		
Unlimited Rover									
K6WCI/R	41,318	KCØP/R	6,020			NV4B/R	17,886	KG6CIH/R	53,755
N6TEB/R	35,490								
N5BF/R	448								
Single-operator, High Power									
N1AV	68,036	W9RM	38,896	KE8FD	40,754	W3IP	47,676	N2JMH	299,736
N7EPD	23,650	W5LO	19,152	K9MU	14,661	K1HTV	25,160	K1TEO	264,434
W7FI	13,275	K5ND	16,926	VA3IKE	13,376	KK4MA	13,090	K2TER	76,544
KD7UO	11,340	WTØDX	14,028	AB8M	13,321	WA4GPM	11,232	K1RZ	61,008
NA6MG	10,218	KØAWU	12,246	WA8MCD	12,320	K3SK	8,642	WA3DRC	54,802

Single-operator, Low Power												
N7IR	37,278		NJ7A	17,248		K9KLD	38,190		W4MAA	9,975		N2WK	129,600
WZ8T	13,413		NØLL	15,655		WE9R	14,812		WA4LDU	8,052		NR2C	108,281
K6USY	8,288		N5EKO	14,616		VE3SMA	8,232		W4ERP	6,771		WA3NUF	67,419
KIØE	6,063		WB5TUF	12,180		KE8JCD	7,686		AJ6T	5,940		N3RG	47,526
N7VGO	4,508		KCØVDY	10,472		KB9RUG	6,528		K4SO	4,048		N2OA	43,632
Single-operator, Analog-only, High Power													
K6MI	10,200		K5LLL	10,044		VE3ZV	30,855		W4AMP	231		WZ1V	51,204
N6KN	2,842		WØGHZ	4,455		VE3KG	11,868		K4YRK	140		W2KV	19,886
KM6SRR	2,670		WA5LFD	884		K8TQK	4,560		K4BAI	1		W2FU	18,765
N6RO	1,088											W3BFC	1,364
W7ON	180											K1ZE	1,320
Single-operator, Analog-only, Low Power													
W7IMC	11,200		KAØPQW	1,265		VE3DS	45,590		W4RAA	2,600		AF1T	97,745
N7RK	3,857		KBØKQI	1,078		VE3KH	15,088		AF4PX	14		W1MKY	20,335
N7VD	3,225		WB5ZDP	858		VE3MIX	1,207		NJ4Q	2		K3TUF	11,080
K6MUG	1,533		WØZF	429		VE3WJ	1,005					WB2JAY	8,073
K7BHM	507		KAØCRO	396		VA3NFL	38					AC1J	6,144
Single-Operator, Portable													
WQ6D	308		NØJK	2,244					AB4DX	640		VA2VT	1,647
KD7WPJ	208		NØSUW	217					W2BL	14		N2MAK	1,200
Single-Operator, Analog-only, Portable													
W7JET	2,574		KEØDLQ	84		VA3TO	96					N3YMS	4,756
KJ7BJS	920					WN1C	90					N2YTF	923
KN6PRZ	638					VE3FU	15					WB2AMU	232
KO6BCW	39											W2NTN	231
AI7QG	38											NT1D	182
Single-operator, 3 Band													
W8JH	10,164		W5TRL	57,440		KO9A	26,394		K3FR	3,968		W3FAY	9,690
K5DTC	8,085		K7BG	9,963		KE8AKW	22,692		W2UA	3,705		W1FKF	9,342
VE7DAY	5,073		KBØHNN	6,912		W9XT	9,150		KD4ADC	3,160		K1DC (@K1TTT)	8,748
K6TDI	3,450		KC7QY	5,952		NT9E	3,400		KK4ZUU	1,978		W1QK	6,160
K6VVP	3,440		WBØNRV	5,656		VA3ECO	2,419		KM4RT	1,485		K1HC	6,149

Single-operator, Analog-only, 3 Band												
K2GMY	3,270		NR7T	1,960		VE3ZY (VE3FFK, op)	36		KV4ZY	112		W1SRH	754
N7QOZ	2,662		KØXF	290					N3AC	10		KB1HXO	624
KN7Y	1,786		N7QJP	35								N1ZN	396
K7CX	1,349											N1JD	364
WB7FJG	928											N1XKT	198
Single-operator, FM only												
N6ZE	684		AD5HC	1		VE3RWJ	2,472		N4NTO	56		KB1YNT	469
N6MX	450					KA8TOA	44		KO4OFO	40		KA1CNF	36
K1CT	413					VE3HZR	24		K4NRT	15		KE2CCG	6
AF6GM	378								K3TW	4		AG2Y	2
N1TEN	280								K4CAB	2			
Limited Multioperator												
WO1S	4,500		K5QE	204,792		VE3MIS	26,695		W4EE	2,769		N2NT	120,000
			W5AC	646								W2MMD	52,000
												WA3EKL	14,656
												WØRSJ	9,898
												W1FM	3,567
Unlimited Multioperator												
KN6UWK	12,805		KC5MVZ	8,142		N8GA	81,718		W4NH	48,824		N3NGE	120,648
VE6AO	1,056					WD9EXD	51,988		N4BRF	12,948		KD2LGX	73,899
						KE8RV	22,695		AG4V	11,919		KE1LI	35,155
												KV1J	21,432
												W1XM	15,652

Division Winners

R = Classic Rover; RL = Limited Rover; RU = Unlimited Rover; SO = Single Operator; ALG = Analog-only;
3B = 3 Band; FM = FM only; P = Portable; HP = High Power; LP = Low Power;
LM = Limited Multioperator; UM = Unlimited Multioperator

Division	R	RL	RU	SOHP	SOLP	SO-ALG-HP	SO-ALG-LP
Atlantic	KF2MR/R	AA2SD/R		N2JMH	N2WK	W2FU	K3TUF
Central	K9TMS/R N9REP/R	KG9OV/R		K9MU	K9KLD		KYØQ
Dakota	NØSPN/R	KØLTC/R	KCØP/R	KØAWU	WØUC	WØGHZ	
Delta		KE5EXX/R		W5VY	AJ6T	K4YRK	
Great Lakes		W8ISS/R		KE8FD	KE8JCD	K8TQK	
Hudson		WB2SIH/R		N2GHR	WB2SIH	W2KV	WB2JAY
Midwest	AF4JF/R			KBØZOM	NØLL		KKØU
New England		WS1O/R	KG6CIH/R	K1TEO	N8RA	WZ1V	AF1T
Northwestern		KA7RRA/R		N7EPD	WZ8T		W7IMC
Pacific		N9VM/R		W6DQ	K6USY	K6MI	KE7UQL
Roanoke	K2EZ/R	KM4OZH/R		W3IP	WA4LDU		NJ4Q
Rocky Mountain	KK6MC/R	WØWLA/R		W9RM	NJ7A		KBØKQI
Southeastern		K4NO/R	NV4B/R	WA4GPM	W4MAA	W4AMP	W4RAA
Southwestern	N7GP/R	N6GP/R	K6WCI/R	N1AV	N7IR	N6KN	N7RK
West Gulf	KJ5DTR/R KJ5DTS/R	KA5D/R		W5LO	N5EKO	K5LLL	WB5ZDP
Canada	VE3OIL/R	VA3ELE/R		VA3IKE	VE3SMA	VE3ZV	VE3DS

Division Winners

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Division	SOP	SOP-ALG	SO3B	SO3B-ALG	SOFM	LM	UM
Atlantic	N2MAK	N3YMS	W3FAY	N1XKT	KA1CNF	W2MMD	N3NGE
Central		WN1C	KO9A		K4NRT		WD9EXD
Dakota	NØSUW	KEØDLQ	K7BG	N7QJP			AG4V
Delta			KM4RT				
Great Lakes			KE8AKW		KA8TOA		N8GA
Hudson		N2YTF	NA2NY	KC2JRQ	KE2CCG	N2NT	
Midwest	NØJK		WAØARM				
New England		NT1D	W1FKF	W1SRH	KB1YNT	W1FM	KE1LI
Northwestern		KJ7BJS	K5DTC	N7QOZ	N7OOS		
Pacific		KN6PRZ	K6VVP	K2GMY	KO6BGT		
Roanoke			K3FR	KV4ZY	N4NTO		
Rocky Mountain			KC7QY	NR7T			
Southeastern	AB4DX		W2UA		K3TW	W4EE	W4NH
Southwestern	WQ6D	W7JET	W8JH	KN7Y	N6ZE	WO1S	KN6UWK
West Gulf			W5TRL		AD5HC	K5QE	KC5MVZ
Canada	VA2VT	VA3TO	VE7DAY	VE3ZY (VE3FFK, op)	VE3RWJ	VE3MIS	VE6AO

Classic Rover	
50 MHz QSOs	
N7GP/R	190
KK6MC/R	104
VE3OIL/R	76
KD6EFQ/R	73
K2EZ/R	49
50 MHz Mults	
N7GP/R	72
KD6EFQ/R	43
KK6MC/R	38
VE3OIL/R	16
K2EZ/R	12
144 MHz QSOs	
VE3OIL/R	85
K2EZ/R	72
N7GP/R	60
KF2MR/R	52
K2ET/R	46
144 MHz Mults	
VE3OIL/R	19
K2EZ/R	16
KF2MR/R	11
KE2BUY/R	6
N7GP/R	6
222 MHz QSOs	
N7GP/R	56
K2EZ/R	52
VE3OIL/R	48
KF2MR/R	43
KE2BUY/R	41
222 MHz Mults	
K2EZ/R	15
VE3OIL/R	12
KF2MR/R	7
K2UA/R	6
KE2BUY/R	6
432 MHz QSOs	
N7GP/R	66
K2EZ/R	51
KF2MR/R	48
VE3OIL/R	46
K2UA/R	45
432 MHz Mults	
K2EZ/R	13
VE3OIL/R	12
KF2MR/R	7
K2UA/R	6
N7GP/R	6
902 MHz QSOs	
K2UA/R	36
KF2MR/R	35
KE2BUY/R	32
N7GP/R	29
K2ET/R	21
902 MHz Mults	
KF2MR/R	5
N7GP/R	5
K2UA/R	4
K9TMS/R	4
KE2BUY/R	4
N9REP/R	4
VE3OIL/R	4
W2EV/R	4
1.2 GHz QSOs	
N7GP/R	52
K2UA/R	41
KF2MR/R	40
KE2BUY/R	38
VE3OIL/R	21
1.2 GHz Mults	
KF2MR/R	6
N7GP/R	6
VE3OIL/R	6
K2UA/R	5
KE2BUY/R	5
2.3 GHz QSOs	
KF2MR/R	34
K2UA/R	31
KE2BUY/R	31
N7GP/R	23
K2ET/R	17
2.3 GHz Mults	
KF2MR/R	5
K2UA/R	4
KE2BUY/R	4
N7GP/R	4
VE3OIL/R	4
3.4 GHz QSOs	
K2UA/R	25
KF2MR/R	21
KE2BUY/R	19
K2ET/R	11
W2EV/R	11
3.4 GHz Mults	
K2UA/R	4
KE2BUY/R	4
KF2MR/R	4
VE3OIL/R	3
W2EV/R	3
5.7 GHz QSOs	
KF2MR/R	16
K2UA/R	15
KE2BUY/R	14
NN3Q/R	5
VE3OIL/R	1
5.7 GHz Mults	
K2UA/R	4
KF2MR/R	4
KE2BUY/R	3
NN3Q/R	1
VE3OIL/R	1
10 GHz QSOs	
K2UA/R	28
KF2MR/R	17
KE2BUY/R	16
VE3OIL/R	6
NN3Q/R	4

10 GHz Mults	
K2UA/R	4
KE2BUY/R	4
KF2MR/R	4
VE3OIL/R	3
N7GP/R	1
NN3Q/R	1
24 GHz QSOs	
VE3OIL/R	1
24 GHz Mults	
VE3OIL/R	1
123 GHz QSOs	
VE3OIL/R	1
123 GHz Mults	
VE3OIL/R	1
Light QSOs	
VE3OIL/R	1
Light Mults	
VE3OIL/R	1
Limited Rover	
50 MHz QSOs	
KA5D/R	117
KG9OV/R	92
W5TN/R	87
VA3ELE/R	78
N6GP/R	74

50 MHz Mults	
KA5D/R	46
W5TN/R	43
KG9OV/R	40
N6GP/R	38
KØLTC/R	22
144 MHz QSOs	
VA3ELE/R	133
W4JST/R	86
KM4OZH/R	79
W5TN/R	70
KG9OV/R	66
144 MHz Mults	
K4NO/R	26
VA3ELE/R	26
KG9OV/R	23
W5TN/R	14
W8ISS/R	13
222 MHz QSOs	
KA5D/R	67
VA3ELE/R	60
W5TN/R	59
K9AJW/R	32
KM4OZH/R	25
222 MHz Mults	
KA5D/R	13
W5TN/R	11
VA3ELE/R	9
W4JST/R	7

KG9OV/R	6
KM4OZH/R	6
432 MHz QSOs	
KA5D/R	79
VA3ELE/R	68
W5TN/R	62
KM4OZH/R	36
K9AJW/R	32
432 MHz Mults	
KA5D/R	14
W5TN/R	13
VA3ELE/R	12
KM4OZH/R	7
W4JST/R	7
Unlimited Rover	
50 MHz QSOs	
NV4B/R	70
KG6CIH/R	40
K6WCI/R	25
N6TEB/R	12
KCØP/R	10
50 MHz Mults	
NV4B/R	25
K6WCI/R	11
KG6CIH/R	7
KCØP/R	6
N6TEB/R	5
144 MHz QSOs	
NV4B/R	53

KG6CIH/R	46
N6TEB/R	29
K6WCI/R	25
KCØP/R	23
144 MHz Mults	
NV4B/R	13
K6WCI/R	7
KG6CIH/R	7
N6TEB/R	7
KCØP/R	6
222 MHz QSOs	
KG6CIH/R	40
NV4B/R	36
N6TEB/R	14
K6WCI/R	11
KCØP/R	11
222 MHz Mults	
NV4B/R	11
KG6CIH/R	8
K6WCI/R	6
KCØP/R	5
N6TEB/R	5
432 MHz QSOs	
NV4B/R	40
KG6CIH/R	35
N6TEB/R	29
K6WCI/R	27
KCØP/R	19
432 MHz Mults	

NV4B/R	11
K6WCI/R	7
KG6CIH/R	7
N6TEB/R	7
KCØP/R	6
902 MHz QSOs	
K6WCI/R	14
KG6CIH/R	14
N6TEB/R	13
KCØP/R	7
902 MHz Mults	
K6WCI/R	6
N6TEB/R	6
KG6CIH/R	4
KCØP/R	2
1.2 GHz QSOs	
KG6CIH/R	21
K6WCI/R	14
N6TEB/R	14
KCØP/R	13
N5BF/R	1
1.2 GHz Mults	
K6WCI/R	6
N6TEB/R	6
KCØP/R	5
KG6CIH/R	5
N5BF/R	1
2.3 GHz QSOs	
KG6CIH/R	16
N6TEB/R	14
K6WCI/R	13
2.3 GHz Mults	
K6WCI/R	6
N6TEB/R	6
KG6CIH/R	5
3.4 GHz QSOs	
N6TEB/R	14
K6WCI/R	13
KG6CIH/R	11
3.4 GHz Mults	
K6WCI/R	6
N6TEB/R	6
KG6CIH/R	4
5.7 GHz QSOs	
KG6CIH/R	11
N6TEB/R	11
K6WCI/R	10
5.7 GHz Mults	
K6WCI/R	6
N6TEB/R	5
KG6CIH/R	4
10 GHz QSOs	
KG6CIH/R	12
N6TEB/R	12
K6WCI/R	11
10 GHz Mults	
K6WCI/R	6
N6TEB/R	6
KG6CIH/R	4
24 GHz QSOs	
KG6CIH/R	2
24 GHz Mults	
KG6CIH/R	1
47 GHz QSOs	
KG6CIH/R	2
47 GHz Mults	
KG6CIH/R	1
123 GHz QSOs	
KG6CIH/R	2
123 GHz Mults	
KG6CIH/R	1
Light QSOs	
KG6CIH/R	2
Light Mults	
KG6CIH/R	1
Single Operator, High Power	
50 MHz QSOs	
W9RM	271
K1TEO	257
K1HTV	234
N1AV	210
N3FTI	198
50 MHz Mults	
W9RM	137
W5LO	112
N1AV	96
WTØDX	84
K5ND	71
NA6MG	71
W6DQ	71
144 MHz QSOs	
W3XTT (KA1ZE, op)	244
K1TEO	209
WA2ZPX	140
N2JMH	131
KR1ST	126
144 MHz Mults	
W3XTT (KA1ZE, op)	80
VA3IKE	55
K1TEO	53
KE8FD	50
N2JMH	41
W3IP	41
222 MHz QSOs	
K1TEO	73
N2JMH	71
K1RZ	68
N2YB	37
WA3DRC	35
WB2RVX	35

222 MHz Mults	
K1TEO	30
K1RZ	28
N2JMH	23
KE8FD	15
N1JEZ	13
WA3DRC	13
432 MHz QSOs	
K1TEO	114
K1RZ	80
N2JMH	75
WB2RVX	45
N2YB	44
W3IP	44
432 MHz Mults	
K1TEO	36
K1RZ	30
KE8FD	24
N2JMH	22
W3IP	21
902 MHz QSOs	
N2JMH	36
N2YB	23
K2TER	17
WB2RVX	16
W2SJ	14
WA3DRC	14
902 MHz Mults	
N2JMH	9
K1TEO	6
N2YB	6
N1AV	5
W2SJ	5
W3SZ	5
WB2RVX	5
1.2 GHz QSOs	
N2JMH	44
K1TEO	36
W2ZQ (K1JT, op)	36
N2YB	22
WB2RVX	20
1.2 GHz Mults	
W2ZQ (K1JT, op)	35
K1TEO	15
K9MU	13
N2JMH	10
N1AV	6
N2YB	6
NØAKC	6
W2SJ	6
W3SZ	6
WA3DRC	6
2.3 GHz QSOs	
N2JMH	29
N2YB	21
K1TEO	19
K2TER	14
WB2RVX	9
2.3 GHz Mults	
K1TEO	10
N2JMH	6
N2YB	6
N1AV	5
K2DH	4
K2TER	4
KC3BVL	4
WB2RVX	4
3.4 GHz QSOs	
N2JMH	27
K2TER	13
N2YB	8
K2DH	7
K1TEO	6
3.4 GHz Mults	
K1TEO	6
N2JMH	5
K2TER	4
K1KG	3
K2DH	3
N2YB	3
W3SZ	3
5.7 GHz QSOs	
N2JMH	19
K2TER	7
N2YB	6
K2DH	5
W3SZ	5
5.7 GHz Mults	
N2JMH	5
W3SZ	5
K1TEO	4
K1KG	3
K2DH	3
K2TER	3
N2YB	3
WB2RVX	3
10 GHz QSOs	
N2JMH	21
K2TER	11
N2YB	7
K2DH	6
W3SZ	5
10 GHz Mults	
K2TER	4
N2JMH	4
K2DH	3
N2YB	3
W3SZ	3
WB2RVX	3
Light QSOs	
W2SJ	1
Light Mults	
W2SJ	1
Single Operator, Low Power	
50 MHz QSOs	
NJ7A	168
N7IR	157
NR2C	153
KC3NDU	151

K9KLD	148
50 MHz Mults	
NØLL	92
NJ7A	91
N7IR	81
K9KLD	79
WB5TUF	79
144 MHz QSOs	
WA3NUF	124
N2SCJ	122
N2WK	114
KA2ENE	110
NR2C	101
144 MHz Mults	
KE3JP	38
N2WK	37
NR2C	35
AJ6T	34
K9KLD	33
WA3NUF	33
WS9V	33
222 MHz QSOs	
N2WK	45
KA2ENE	43
WA3NUF	40
KA3FQS	33
N3RG	31
222 MHz Mults	
N2WK	14

AJ6T	13
NF3R	12
KA2ENE	11
WA3NUF	11
432 MHz QSOs	
WA3NUF	54
KA2ENE	50
N2WK	49
KA3FQS	42
N3RG	40
432 MHz Mults	
VA2IW	15
NR2C	14
WA3NUF	13
K9KLD	12
WA4LDU	12
902 MHz QSOs	
KA2ENE	26
N2WK	26
WA3NUF	15
NR2C	14
KA3FQS	13
902 MHz Mults	
KA2ENE	5
N3RG	5
NR2C	5
KC1DWH	4
N2OA	4
N2WK	4
WA3GFZ	4

WA3NUF	4
1.2 GHz QSOs	
N2WK	28
KA2ENE	26
N3RG	19
N7IR	19
NR2C	18
1.2 GHz Mults	
N3RG	7
N7IR	6
KA2ENE	5
NR2C	5
WA3NUF	5
2.3 GHz QSOs	
N2WK	24
NR2C	14
N2OA	10
WA3NUF	10
KA3FQS	6
N3RG	6
2.3 GHz Mults	
NR2C	5
N2WK	4
KA3FQS	3
N2MKT	3
N2OA	3
N3RG	3
WA3GFZ	3
WA3NUF	3

3.4 GHz QSOs	
N2WK	21
N2OA	9
NR2C	5
WA3NUF	4
N3RG	3
3.4 GHz Mults	
N2WK	4
N2OA	3
N3RG	3
NR2C	3
WA3NUF	2
5.7 GHz QSOs	
N2WK	16
N2OA	8
NR2C	6
N3RG	4
WØUC	1
5.7 GHz Mults	
N2WK	4
NR2C	4
N2OA	3
N3RG	3
WØUC	1
10 GHz QSOs	
N2WK	20
NR2C	13
N2OA	9
N3RG	2
K5TRA	1

VE3SMA	1
WØUC	1
10 GHz Mults	
N2WK	4
NR2C	4
N2OA	3
N3RG	2
K5TRA	1
VE3SMA	1
WØUC	1
Light QSOs	
WB3IGR	1
Light Mults	
WB3IGR	1
Single Operator, Analog Only, High Power	
50 MHz QSOs	
WZ1V	92
W2KV	58
K5LLL	51
K6MI	32
VE3KG	31
50 MHz Mults	
K5LLL	26
WZ1V	23
K6MI	18
VE3KG	15
W2KV	11

144 MHz QSOs	
W2KV	112
WZ1V	96
VE3ZV	68
W3BFC	57
VE3KG	44
144 MHz Mults	
W2KV	29
WZ1V	28
VE3KG	25
VE3ZV	24
W3BFC	20
222 MHz QSOs	
WZ1V	52
VE3ZV	37
VE3KG	24
K6MI	17
K1FMS	15
K5LLL	15
222 MHz Mults	
VE3ZV	20
WZ1V	20
VE3KG	14
K1FMS	12
K5LLL	9
K8TQK	9
432 MHz QSOs	
W2KV	69
WZ1V	62
VE3ZV	38

VE3KG	27
N6KN	23
432 MHz Mults	
W2KV	19
WZ1V	19
VE3ZV	18
VE3KG	15
K1FMS	13
902 MHz QSOs	
W2FU	11
VE3ZV	10
WØGHZ	6
K8TQK	3
K6MI	2
902 MHz Mults	
VE3ZV	7
W2FU	5
WØGHZ	4
K8TQK	3
K5LLL	1
K6MI	1
1.2 GHz QSOs	
WZ1V	23
W2FU	11
KM6SRR	9
VE3ZV	9
K6MI	8
1.2 GHz Mults	
WZ1V	12

VE3ZV	6
K8TQK	5
K6MI	4
N6RO	4
W2FU	4
2.3 GHz QSOs	
W2FU	10
VE3ZV	6
K5LLL	1
K6MI	1
WØGHZ	1
2.3 GHz Mults	
VE3ZV	4
W2FU	3
K5LLL	1
K6MI	1
WØGHZ	1
3.4 GHz QSOs	
W2FU	8
VE3ZV	1
WØGHZ	1
3.4 GHz Mults	
W2FU	3
VE3ZV	1
WØGHZ	1
5.7 GHz QSOs	
W2FU	6
K6MI	1
WØGHZ	1

5.7 GHz Mults	
W2FU	3
K6MI	1
WØGHZ	1
10 GHz QSOs	
W2FU	7
K1FMS	4
VE3ZV	3
WØGHZ	2
K5LLL	1
K6MI	1
10 GHz Mults	
K1FMS	3
W2FU	3
VE3ZV	2
WØGHZ	2
K5LLL	1
K6MI	1
24 GHz QSOs	
K6MI	1
24 GHz Mults	
K6MI	1
47 GHz QSOs	
K6MI	1
47 GHz Mults	
K6MI	1

123 GHz QSOs	
K6MI	1
123 GHz Mults	
K6MI	1
Single Operator, Analog Only, Low Power	
50 MHz QSOs	
W7IMC	56
AF1T	51
K7BHM	34
K3TUF	31
KA3WXV	31
50 MHz Mults	
AF1T	16
W7IMC	16
KAØPQW	13
K6MUG	12
KBØKQI	11
VE3DS	11
144 MHz QSOs	
W7IMC	116
AF1T	59
VE3DS	56
KD2HZI	44
WB2CUT	42
144 MHz Mults	
VE3DS	22
AF1T	17
WB2CUT	12

WB2JAY	10
AC1J	9
N7RK	9
WB2VVV	9
222 MHz QSOs	
AF1T	45
VE3DS	35
W7IMC	29
K3JJZ	23
KD2HZI	19
222 MHz Mults	
VE3DS	18
AF1T	16
VE3KH	8
WB2VVV	7
AC1J	6
K3TUF	6
WB2JAY	6
432 MHz QSOs	
W7IMC	87
AF1T	53
VE3DS	46
KD2HZI	28
KA3WXV	27
432 MHz Mults	
VE3DS	23
AF1T	16
N7RK	8
VE3KH	8
AC1J	7

WB2JAY	7
WB2VVV	7
902 MHz QSOs	
AF1T	25
VE3DS	14
VE3KH	11
K3TUF	10
W7IMC	8
902 MHz Mults	
AF1T	13
VE3DS	8
VE3KH	6
K3TUF	5
W1MKY	4
WB2JAY	4
1.2 GHz QSOs	
AF1T	27
VE3DS	19
N7RK	13
K3TUF	12
W1MKY	12
1.2 GHz Mults	
AF1T	12
VE3DS	8
K3TUF	6
N7RK	6
VE3KH	6
2.3 GHz QSOs	
AF1T	12

VE3DS	10
W1MKY	6
WB2JAY	3
K3TUF	2
N7VD	2
2.3 GHz Mults	
AF1T	6
VE3DS	5
W1MKY	4
K3TUF	2
WB2JAY	2
3.4 GHz QSOs	
AF1T	8
W1MKY	6
VE3DS	3
WB2JAY	1
3.4 GHz Mults	
AF1T	5
W1MKY	4
VE3DS	2
WB2JAY	1
5.7 GHz QSOs	
AF1T	8
W1MKY	7
N7VD	2
K3TUF	1
5.7 GHz Mults	
AF1T	4
W1MKY	4

K3TUF	1
N7VD	1
10 GHz QSOs	
VE3KH	13
AF1T	9
W1MKY	7
K3TUF	3
N7VD	2
VE3WJ	2
10 GHz Mults	
VE3KH	6
AF1T	4
W1MKY	4
K3TUF	2
N7VD	1
VE3WJ	1
WB5ZDP	1
24 GHz QSOs	
AF1T	2
W1MKY	2
24 GHz Mults	
AF1T	1
W1MKY	1
47 GHz QSOs	
AF1T	2
W1MKY	2
47 GHz Mults	
AF1T	1

W1MKY	1
123 GHz QSOs	
AF1T	2
W1MKY	2
123 GHz Mults	
AF1T	1
W1MKY	1
Light QSOs	
AF1T	2
W1MKY	2
K3EGE	1
Light Mults	
AF1T	1
K3EGE	1
W1MKY	1
Single Operator, Portable	
50 MHz QSOs	
XE2YWB	64
NØJK	58
KD7WPJ	12
VA2VT	12
N2MAK	11
NØSUW	11
50 MHz Mults	
NØJK	44
XE2YWB	42
KD7WPJ	11
AB4DX	7

VA2VT	6
144 MHz QSOs	
VA2VT	27
N2MAK	21
NØSUW	12
AB4DX	8
WQ6D	6
144 MHz Mults	
VA2VT	14
AB4DX	6
N2MAK	6
WQ6D	3
NØSUW	2
222 MHz QSOs	
N2MAK	14
AB4DX	5
VA2VT	2
222 MHz Mults	
AB4DX	5
N2MAK	2
VA2VT	2
432 MHz QSOs	
N2MAK	10
VA2VT	7
NØSUW	4
WQ6D	4
AB4DX	2
KD7WPJ	2

432 MHz Mults	
N2MAK	3
VA2VT	3
AB4DX	2
NØSUW	2
WQ6D	2
1.2 GHz QSOs	
VA2VT	2
WQ6D	2
1.2 GHz Mults	
VA2VT	2
WQ6D	1
Single Operator, Portable, Analog Only	
50 MHz QSOs	
N3YMS	23
W7JET	15
W2NTN	6
KJ7BJS	4
KQ2RP	3
WB2AMU	3
WN1C	3
50 MHz Mults	
N3YMS	6
W7JET	3
WB2AMU	2
KEØDLQ	1
KJ7BJS	1
KN6PRZ	1
KQ2RP	1
W2NTN	1
WN1C	1
144 MHz QSOs	
KJ7BJS	35
N3YMS	33
W7JET	21
W2NTN	16
KO6BCW	12
144 MHz Mults	
N3YMS	8
W2NTN	4
W7JET	4
KJ7BJS	3
N2YTF	3
NT1D	3
222 MHz QSOs	
N3YMS	17
KJ7BJS	9
W7JET	7
WB2AMU	4
WN1C	2
222 MHz Mults	
N3YMS	6
W7JET	2
WB2AMU	2
KEØDLQ	1
KJ7BJS	1
KN6PRZ	1
N2YTF	1
VE3FU	1
WN1C	1
432 MHz QSOs	
N3YMS	25
KJ7BJS	23
W7JET	16
N2YTF	9
W2NTN	7
432 MHz Mults	
N3YMS	6
W7JET	4
N2YTF	3
N1KT (KB1LTW, op)	2
NT1D	2
W2NTN	2
WB2AMU	2
902 MHz QSOs	
W7JET	4
KJ7BJS	3
KEØDLQ	1
KN6PRZ	1
N2YTF	1
NT1D	1
902 MHz Mults	
W7JET	2
KEØDLQ	1
KJ7BJS	1
KN6PRZ	1
N2YTF	1
NT1D	1
1.2 GHz QSOs	
W7JET	15
N3YMS	6
N2YTF	4
KEØDLQ	1
KJ7BJS	1
NT1D	1
1.2 GHz Mults	
N3YMS	3
W7JET	3
N2YTF	2
KEØDLQ	1
KJ7BJS	1
NT1D	1
2.3 GHz QSOs	
N2YTF	2
KN6PRZ	1
2.3 GHz Mults	
N2YTF	2
KN6PRZ	1
5.7 GHz QSOs	
KN6PRZ	1
N2YTF	1
5.7 GHz Mults	
KN6PRZ	1
N2YTF	1
10 GHz QSOs	
VA3TO	4

KN6PRZ	1
10 GHz Mults	
VA3TO	3
KN6PRZ	1
24 GHz QSOs	
KN6PRZ	1
24 GHz Mults	
KN6PRZ	1
47 GHz QSOs	
KN6PRZ	1
47 GHz Mults	
KN6PRZ	1
123 GHz QSOs	
KN6PRZ	1
123 GHz Mults	
KN6PRZ	1
Single Operator, 3 Band	
50 MHz QSOs	
W5TRL	251
CO2QU	148
KO9A	131
K7BG	125
K5DTC	110
50 MHz Mults	
W5TRL	125
K7BG	81
CO2QU	67
KC7QY	64
KE8AKW	58
KO9A	58
144 MHz QSOs	
W3FAY	77
KO9A	72
W1FKF	71
NA2NY	70
K1HC	69
144 MHz Mults	
KE8AKW	43
KO9A	31
NA2NY	28
W1FKF	26
W9XT	24
432 MHz QSOs	
W5TRL	26
KO9A	25
KE8AKW	24
KD2CDV	22
K5DTC	19
432 MHz Mults	
KE8AKW	21
KO9A	17
W5TRL	15
KD2CDV	10
K1HC	9
W3FAY	9
Single Operator, Analog Only, 3 Band	
50 MHz QSOs	
NR7T	43
KN7Y	39
K2GMY	29
N7QOZ	29
WB7FJG	29
50 MHz Mults	
NR7T	28
K2GMY	17
KN7Y	12
K7CX	11
N7QOZ	10
WB7FJG	10
144 MHz QSOs	
N7QOZ	48
K2GMY	39
W1SRH	35
K7CX	29
WB7FJG	21
144 MHz Mults	
K2GMY	8
N7QOZ	8
W1SRH	8
N1JD	7
NR7T	7
432 MHz QSOs	
N7QOZ	24
K2GMY	21
KN7Y	20
AJ6LG	10
K7CX	10
432 MHz Mults	
K2GMY	5
KN7Y	4
N7QOZ	4
AJ6LG	3
KB6A	3
KC2JRQ	3
N1JD	3
N1ZN	3
Single Operator, FM Only	
50 MHz QSOs	
KB1YNT	8
AF6GM	6
N7OOS	5
N1TEN	4
N6ZE	3
50 MHz Mults	
KB1YNT	2
N6MX	2
AF6GM	1
K1CT	1
N1TEN	1
N4NTO	1
N6ZE	1
N7OOS	1
N7WLC	1

144 MHz QSOs	
VE3RWJ	76
KB1YNT	35
N6MX	22
AF6GM	19
K1CT	19
144 MHz Mults	
N6MX	5
VE3RWJ	5
KO4OFO	4
AF6GM	3
K1CT	3
KA1CNF	3
KB1YNT	3
KO6BGT	3
222 MHz QSOs	
VE3RWJ	8
N6ZE	7
K1CT	6
KO6BT	5
KO6ET	4
N1TEN	4
222 MHz Mults	
VE3RWJ	3
N6ZE	2
K1CT	1
K4NRT	1
KE2CCG	1
KN6FKQ	1
KO6BT	1
KO6ET	1

N1TEN	1
N4NTO	1
N7WLC	1
432 MHz QSOs	
VE3RWJ	57
AF6GM	16
N1TEN	16
K1CT	12
KB1YNT	12
432 MHz Mults	
VE3RWJ	4
AF6GM	3
N6MX	3
N6ZE	3
KA8TOA	2
KB1YNT	2
KL5MM	2
N1TEN	2
N7OOS	2
VE3HZR	2
902 MHz QSOs	
N6ZE	2
N7WLC	1
902 MHz Mults	
N6ZE	1
N7WLC	1
1.2 GHz QSOs	
N6ZE	3
K1CT	1

1.2 GHz Mults	
N6ZE	3
K1CT	1
Limited Multioperator	
50 MHz QSOs	
K5QE	273
N2NT	215
W2MMD	212
WA3EKL	133
WØRSJ	81
50 MHz Mults	
K5QE	166
N2NT	49
W2MMD	38
VE3MIS	30
W4EE	28
144 MHz QSOs	
N2NT	269
K5QE	144
W2MMD	131
WA3EKL	90
VE3MIS	66
144 MHz Mults	
K5QE	86
N2NT	50
W2MMD	36
WA3EKL	30
VE3MIS	27

222 MHz QSOs	
N2NT	73
W2MMD	39
VE3MIS	12
K2MTH	8
W2SO	1
222 MHz Mults	
N2NT	24
W2MMD	13
VE3MIS	8
K2MTH	3
W2SO	1
432 MHz QSOs	
N2NT	96
VE3MIS	61
K5QE	48
W2MMD	46
WØRSJ	34
432 MHz Mults	
K5QE	32
VE3MIS	30
N2NT	27
W2MMD	17
WA3EKL	9
WØRSJ	9
902 MHz QSOs	
W5AC	2
902 MHz Mults	
W5AC	1

1.2 GHz QSOs	
K5QE	37
WO1S	7
W3HZU	1
1.2 GHz Mults	
K5QE	34
WO1S	4
W3HZU	1
Unlimited Multioperator	
50 MHz QSOs	
KE1LI	192
N8GA	177
N3NGE	166
W4NH	160
WD9EXD	151
50 MHz Mults	
WD9EXD	85
N8GA	83
W4NH	66
N4BRF	65
N4SVC	61
144 MHz QSOs	
KE1LI	155
N3NGE	149
N8GA	147
KD2LGX	125
W1XM	123
144 MHz Mults	
N8GA	58
KE8RV	46
KD2LGX	42
WD9EXD	40
W4NH	36
222 MHz QSOs	
N3NGE	53
KD2LGX	35
KE1LI	25
N8GA	24
WD9EXD	17
222 MHz Mults	
N3NGE	17
N8GA	17
KD2LGX	14
WD9EXD	14
W4NH	11
432 MHz QSOs	
N3NGE	72
KD2LGX	40
W4NH	35
N8GA	33
KE1LI	30
432 MHz Mults	
WD9EXD	21
N8GA	20
W4NH	20
N3NGE	18
N4SVC	17
902 MHz QSOs	
N3NGE	20
KD2LGX	16
KV1J	2
N4SVC	2
W2CCC	2
902 MHz Mults	
N3NGE	9
KD2LGX	5
KV1J	2
N4SVC	2
W2CCC	2
1.2 GHz QSOs	
KD2LGX	19
N3NGE	18
KE8RV	8
KC5MVZ	6
W1XM	6
1.2 GHz Mults	
KC5MVZ	6
N3NGE	6
KD2LGX	5
N4SVC	4
N8GA	4
2.3 GHz QSOs	
KD2LGX	13
N3NGE	11
KV1J	2
W4NH	1
2.3 GHz Mults	
N3NGE	6
KD2LGX	4
KV1J	2
W4NH	1
3.4 GHz QSOs	
N3NGE	1
3.4 GHz Mults	
N3NGE	1
5.7 GHz QSOs	
N3NGE	9
5.7 GHz Mults	
N3NGE	4
10 GHz QSOs	
N3NGE	5
10 GHz Mults	
N3NGE	3
Light QSOs	
N3NGE	1
Light Mults	
N3NGE	1
Checklog	
50 MHz QSOs	
K2DRH	78
N8ECI	29

NØLMQ	16
K3WWT	5
50 MHz Mults	
K2DRH	58
N8ECI	22
NØLMQ	10
K3WWT	2
144 MHz QSOs	
N8ECI	53
K2DRH	31
144 MHz Mults	
N8ECI	30
K2DRH	23
222 MHz QSOs	
K2DRH	4
222 MHz Mults	
K2DRH	3
432 MHz QSOs	
N8ECI	9
K2DRH	8
432 MHz Mults	
K2DRH	8
N8ECI	4
1.2 GHz QSOs	
N8ECI	1

1.2 GHz Mults	
N8ECI	1