ARRL June VHF Contest
2023 Full Results

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VHF contests are often considered regional efforts using line-of-sight and tropospheric conditions. Fortunately, the June VHF contest often adds sporadic E to the mix. That was particularly true with the 2023 edition's fantastic sporadic E — included sustained openings on both six and two meters

Highlights included a two-meter double-hop Es contact between N4OGW in EM53 and K7POJ in CN83 at 3,166 kilometers. NØJK in EM28 used 10 watts and a portable Yagi to work three JA stations on six meters. And KØGU in DN70 logged 75 European stations on six. All that made for a very exciting contest weekend, June 10 to 12, 2023.

This report starts out by covering the winners and dives deeper into every contest entry category's top ten finishers. Read closely, and you'll find that a few records have been broken. After this review, we discuss some of the broader contest statistics and participation levels. We've also selected a few highlights from the contest soapbox write-ups. Then, we cover all the division, region, and club winners, plus the QSO and multiplier leaders by category.

Figure 1 - W4IY Woodbridge Wireless 35th Anniversary from Flagpole Knob FM08 as Unlimited Multioperator

Overall Winners

VHF Contest Category	Call Sign	Operator	Grid
Single Operator, High Power	K1TEO	Jeff Klein	FN31
Single Operator, High Power, Analog Only	W9RM	Jay Morehouse	DM58
Single Operator, Low Power	K2DRH	Bob Striegl	EN41
Single Operator, Low Power, Analog Only	AF1T	Dale Clement	FN43
Single Operator Portable	WA4AUG (AA5JF operator)	Andy Goss	EM83
Single Operator Portable, Analog Only	AI6US	Brian Gohl	CM99
Single Operator, Three-Band	KO9A	Jim Spence	EN52
Single Operator, Three-Band, Analog Only	AD5A	Mike Crownover	EL09
Single Operator, FM Only	K6JO	Levi Jeffries	DM13
Classic Rover	AC0RA/R	Wyatt Dirks	EM59 EM69 EN31 EN32 EN50 EN60
Limited Rover	W5TN/R	David Douglas	EL08 EL09 EL18 EL19 EM00 EM01 EM02 EM10 EM11 EM12
Unlimited Rover	NV4B/R	Roger Simonson	EM52 EM53 EM54 EM55 EM62 EM63 EM64 EM65
Limited Multioperator	AA4ZZ	Paul Trotter	EM96
Unlimited Multioperator	W2SZ	RPI Amateur Radio Club	FN32

Limited Multioperator AA4ZZ, operators: AA4ZZ, KU4V, KZ4RR, W3DQS, W3GQ, W3OA, W4GRW, W4MW.
Unlimited Multioperator W2SZ, operators: K1EP, K2DEJ, K2TR, KA1PRT, KC2HIZ, KC2TFQ, KI2L, N2OY, N2YZO, W1SZ, WA1HCO.

Many winners are recognized with plaques and all participants with certificates. There are always opportunities to sponsor plaques recognizing winners in specific categories, both overall and at the division level. You can find the full listing of currently sponsored plaques and winners in the appendix. Please consider sponsoring a plaque for next year's contest.

Category Results — Single Operator

Single Operator, High Power

Station	Score	Grid
K1TEO	546,588	FN31
N4OGW	284,666	EM53
W5PR	269,352	EL29
N1AV	257,660	DM43
N2JMH	242,215	FN12
K1TO	226,066	EL87
K9CT	223,652	EN50
N5RZ	194,005	EM00
K2PS	190,855	EL98
W5LO	185,668	EM03

K1TEO once again captured the top spot in Single Operator, High Power. He added 2023 to his list of wins in this category, stretching back several years, including the record score of 854,556 points in 2006. He made contacts on 10 bands, from 6 meters to 10 GHz. The total QSO count was 1,064 and 378 grids. His winning score demonstrates the value of logging higher band QSOs and their extra points.

N4OGW used a three-band entry to log 912 QSOs and 317 grids from EM53 to come in second. W5PR improved on his 10th-place finish in 2022 to come in 3rd with 1,181 QSOs and 232 grids, all on 6 meters.

Ten bands, three bands, one band, there are a number of contest approaches that work. N1AV covered 10 bands. K9CT activated six bands. K1TO, N5RZ, K2PS, and W5LO used only one band.

Single Operator, High Power, Analog Only

Station	Score	Grid
W9RM	166,656	DM58
WWØR	98,280	DM79
NU6S	97,527	CM87
K4WI	96,866	EM62
N5TJ	96,192	EM10
NR7T	91,945	DM37
WZ1V	90,720	FN31
W2FU	87,176	FN13
WA2VYA	77,824	EM10
W3IP	66,555	FM19

This is the second year of the analog-only categories. For Single Operator High Power, the number of entries dropped slightly from 92 to 86. W9RM took the top prize from DM58 with 782 QSOs and 217 grids. Only 4 QSOs were on 2 meters, with the rest on 6 meters.

WWØR won a tight battle for second from DM79 with a 6-meter-only effort and 558 QSOs, 180 grids. NU6S used a three-band effort to capture 511 QSOs and 177 grids. K4WI used 6 meters only to snag 635 QSOs and 154 grids. N5TJ also used a single band to collect 583 QSOs and 167 grids.

Single Operator, Low Power

Station	Score	Grid
K2DRH	171,920	EN41
N2WK	164,095	FN13
AG6X	143,220	DM12
KM5RG	130,402	EL09
WB5TUF	122,640	EL29
N7IR	102,780	DM43
NR2C	101,574	FN03
K9KLD	99,216	EM58
WB1GQR (W1SJ op)	87,780	FN33
KFØIDT	82,716	FN33

K2DRH achieved 580 QSOs and 280 grids across six bands. N2WK came in a close second with 475 QSOs and 185 grids across 11 bands. From DM12, AG6X collected 490 QSOs and 210 grids using nine bands, including 10 GHz.

AG6X reported: *Very slow contest from the Lower Left Corner of the Left Coast. Lots of work to be done on the upper five bands before the September Contest, but a good event that was improved on from last year's trial with a lot of new and repurposed gear. Thanks to all that participated as it was actually pretty quiet in the surrounding grid squares here in Southern California, with the exception of several rovers.*

KM5RG notes: *GREAT contest, best I've ever had by far. European opening on 6m, several 2m Es openings occurred during Sunday afternoon. 6m was very active all day Sat and Sun. How much better will the cycle get, I wonder?*

KFØIDT finished tenth in only his second June VHF contest since becoming a ham in March 2022.

Single Operator, Low Power, Analog Only

Station	Score	Grid
AF1T	108,984	FN43
AB5EB	105,610	EL09
N4OX	63,920	EM60
KAØPQW	54,978	EN33
N5BO	46,115	EM60
VE3DS	38,582	FN03
N4IS	36,309	EL96
K2GMY	35,742	CM88
KEØIZE	30,000	EN41
KG9AP	27,261	EM59

AF1T used 14 bands from 50 MHz to 122 GHz to capture first place. Note that he set the current record in this category last year at 295,926 points. AB5EB came in second with a three-band entry with 585 QSOs and 179 grids. He reported: *Lots of equipment problems, and missed a lot of analog contacts. Having the Microwave Bands above 902 MHz more than doubled my score.*

Entries in this category dropped from 254 in 2022 to 204 in 2023.

Single Operator, Portable

Station	Score	Grid
WA4AUG (AA5JF op)	23,200	EM83
KC6NKK	22,800	DM15
NØJK	6,864	EM28
AB4DX	5,720	EM73
K3GD	4,785	FN11
N8XA	2,688	EM89
NØSUW	1,768	EN35
N4IJ	1,656	EM95
WQ6D	1,593	DM04
AF5T	1,525	EM13

WA4AUG, with AA5JF operating, won a close battle for first. Using three bands, he managed 203 QSOs and 116 grids. KC6NKK came in second at 186 QSOs, 120 grids, using five bands.

NØJK noted: *Great sporadic-E propagation both days. Worked Japan with 10 W and 3 el yagi.*

K3GD reported: *I didn't have any two meter band openings like last year, but fun was still had. Six meters was great, but almost too good. My peanut power station and moxon beam had a difficult time breaking through the packed stations. I did manage to get a fair number of contacts but had far less grid squares over last year. With only a few hours off to eat and sleep, I worked for what I got. Station: IC705, 10 element 2 meter yagi, moxon 6 meter beam, mastworks rotatable telescopic mast.*

Single Operator, Portable, Analog Only

Station	Score	Grid
AI6US	19,344	CM99
K6MI	10,640	DM05
N4DLA	8,736	CM87
N3AWS	3,692	EM50
AA6XA	3,276	CM88
KE6GLA	2,256	CM98
W9SZ	2,016	EN50
WB2AMU	1,512	FN30
KF7NP	1,440	DM12
K2AXX	624	FN12

AI6US smashed his record from last year of 4,968 points, 149 QSOs, 24 grids, by posting 19,334 points, 281 QSOs and 52 grids. He operated five bands in his winning effort.

K6MI also broke last year's record score. He used 12 bands across 104 QSOs and 56 grids. N4DLA operated on five bands to achieve 128 QSOs and 52 grids.

AA6XA reports: *Went up to my standard VHF contest location, SOTA peak Loma Alta, W6/NC-350, in Marin County north of San Francisco. It was foggy and cool as I hiked up, and the sun came out shortly after the contest started. Perfect weather. This was the first time I've done VHF with a 6m opening. I can see why it is the magic band. If only more people were on SSB and especially CW, I could've gotten a lot more mults. Also, people need to get on the 902MHz band. One QSO per contest is not very many. Overall, it was a great day playing radio on a summit. Looking forward to September!*

Entries in this category moved from 24 in 2022 to 28 in 2023.

Single Operator, 3-Band

Station	Score	Grid
KO9A	182,920	EN52
WQ5L	148,944	EM50
NØUR	103,828	EN33
WN3A	99,372	FN10
KØNR	95,546	DM78
K6EI	93,024	DN18
K7BG	79,401	DN94
NS4T	79,373	EM73
KØVG	75,264	EN27
CO2QU	66,258	EL83

KO9A top the charts with a record-breaking effort covering 670 QSOs and 269 grids. The previous record was set by WQ5L last year with 150,792 points, which he nearly matched this year with 148,944 points from 707 QSOs and 214 grids.

KO9A reports: *ARRL June VHF is the best, isn't it? Es, Meteors, tropo, scatter, and lots and lots of activity. From a little guy perspective (no tower, small roof-mounted antennas), this is it, our Superbowl. 6m: Enhancement of various flavors was present virtually the entire contest. No big DX openings this year, but the band was good to the SE through NW for much of the weekend. Morning meteors were outstanding. Substantial 2xEs were present to the west on Sunday in addition to extremely short hop when 2m opened. 2m: Tropo was ordinary to suppressed with the weather overhead and no significant front-side/back-side enhancement observed. Morning meteors were outstanding. Most 2m attempts finished quickly with 6m like speed. Es to FL, TX, and CO on Sunday was amazing and will make this one memorable for a very long time. 70cm: Spent as little time as possible here, just working passed QSOs from 6 or 2 and monitoring the digi watering hole when idle trying to snag those I heard CQing.*

Single Operator, 3-Band, Analog Only

Station	Score	Grid
AD5A	112,041	EL09
KØXF	40,576	DM79
K4BAI	33,572	EM72
KEØKKD	23,985	EN31
KI5YG	23,861	EM10
AI6O	20,273	EM29
WB9HFK	14,355	EN50
NØXR	10,880	EN31
N8II	10,758	FM19
WB6HYH	10,065	DM14

AD5A took the top spot, which passed on from his son, AB5EB, last year's winner, who placed second in the Low Power Analog category. AD5A had 608 QSOs and 177 grids.

K4BAI had 311 QSOs and 109 grids, all on six meters. Also, KI5YG, AI6O, and N8II only operated on six meters.

Report from WB8HYH: *With the six meter opening on Sunday, this was definitely my best scoring VHF Contest yet. We are always looking for that great six meter band opening, and this year we were not disappointed.*
Already looking forward to next year!

Entries in this category dropped from 128 in 2022 to 105 in 2023.

Single Operator, FM Only

Station	Score	Grid
K6JO	1,260	DM13
VE3RWJ	1,064	FN03
K1CT	1,008	DM12
W6JFA	468	CM97
AF6GM	420	DM12
KN6YCX (W6JFA op)	352	CM97
AA2SD	297	FM29
KB1YNT	280	FN31
KI4POT	176	FM08
KO6BT	144	DM12

K6JO won this category with 59 QSOs and 14 grids working 2 meters, 1.25 meters, and 70 cm. VE3RWJ was close behind with 95 QSOs and 8 grids 2 meters and 70 cm. Within just a few more points, K1CT had 84 QSOs and 8 grids on 2 meters, 1.25 meters, and 70 cm.

W6JFA finished fourth with his own call sign and sixth with call sign KN6YCX for the Delta Amateur Radio Club.

Category Results — Rovers

VHF contesting allows rovers to activate several grids throughout the weekend. As a result, they can really enliven the contest for those stuck at home. Here's how they did in 2023.

Classic Rover

Station	Score	Grids Activated
ACØRA/R	406,029	EM59 EM69 EN31 EN32 EN50 EN60
N7GP/R	361,030	DM31 DM32 DM33 DM34 DM35 DM42 DM43 DM44
KF2MR/R	152,702	FN02 FN03 FN12 FN13 FN22 FN23
VE3OIL/R	134,121	EN81 EN82 EN92 EN93 FN02 FN03 FN04 FN13 FN14
K2UA/R	85,575	FN02 FN03 FN12 FN13
K7LSX/R	80,391	DM32 DM33 DM34 DM42 DM43
K2QO/R	78,987	FN02 FN03 FN12 FN13 FN22 FN23
N7DSX/R	62,816	DM32 DM33 DM34 DM42 DM43
AG4V/R	55,950	EM44 EM45 EM54 EM55 EM56 EM65 EM66
VE3WJ/R	38,962	EN81 EN82 EN92 EN93 FN03 FN04 FN13 FN14

AC0RA/R activated six grids using four bands. His QSO count reached 1,068 with 359 multipliers.

N7GP/R came in second this year despite significantly beating his previous year's score of 285,430. He pulled in 1,024 QSOs and 158 multipliers operating on all bands through 10 GHz. KF2MR/R, K2UA/R, K7LSX/R, K2QO/R, and K7DSX/R also operated up to 10 GHz.

VE3OIL/R and VE3WJ/R operated all bands through light.

Limited Rover

Station	Score	Grids Activated
W5TN/R	171,288	EL08 EL09 EL18 EL19 EM00 EM01 EM02 EM10 EM11 EM12
KA5D/R	164,369	EL08 EL09 EL18 EL19 EM00 EM01 EM02 EM10 EM11 EM12
AL1VE/R	94,691	DM88 DM89 DM96 DM97 DM99 EM06 EM08 EM09
AA5PR/R	60,896	DM55 DM66
KG9OV/R	56,024	EM58 EM79 EN50 EN51 EN60 EN61 EN70
KX6A/R	39,690	DM03 DM04 DM13 DM14
VE3GKT/R	39,168	EN92 EN93 EN94 FN02 FN03 FN04
N6GP/R	37,948	DM03 DM04 DM13 DM14
WR7X/R	31,944	DN04 DN05 DN14 DN15
W3DHJ/R	26,320	DM77 DM78 DM87 DM88

W5TN/R set a new record for limited rover category with 681 QSOs and 216 multipliers. The previous record, held by AL1VE/R since 2011, was 168,846 points, 786 QSOs with 214 multipliers.

KA5D/R, with operators KA5C and KA5D, nearly matched the previous record. They activated the same grids as W5TN/R but with 668 QSOs and 211 multipliers.

AL1VE/R ran a six meter only operation from eight grids. AA5PR/R also ran a six meter only operation from just two grids.

Here's his report: *This Central Plains rove was different from all the rest because of the number of intense thunderstorms I had to dodge. Saturday night, driving north from OK to KS the lightning of some storms could be seen 100 miles off. Considering I could only operate safely about 17 hours of my 30 hour rove I hadn't scored this well in 11 years. Saturday was dominated by "popcorn" propagation. A few stations were worked on SSB, but most stations, I could decode, stuck to the digital modes After a crazy night of intense lightning, high winds and intense rain Sunday's 50 MHz propagation started much as the day before, but as the digital signals crept into the "plus zone" a few stations switched to SSB. Thank goodness some of us remembered how to use a microphone! That afternoon from far western Kansas the band was open to every section of the US. I hadn't experienced that number of SSB operators on six meters in a long time! Six meters was the only band I operated on for this contest, but I can't complain. I haven't had a raw six figures score since the last sunspot cycle peak!*

Figure 2 - AL1VE/R from DM96 with cattle in attendance

Unlimited Rover

Station	Score	Grids Activated
NV4B/R	128,436	EM52 EM53 EM54 EM55 EM62 EM63 EM64 EM65
NØLNO/R	91,584	DN92 DN93 EN02 EN03
KG6CIH/R	58,218	FN31 FN32 FN33 FN41 FN42 FN43
K2EZ/R	48,298	EL08 EL09 EL18 EL19 EL29 EM00 EM10 EM20
KØAXX/R	48,032	EL29 EL39 EM10 EM11 EM20 EM21 EM22 EM31 EM32
N6UTC/R	21,830	DM03 DM04 DM13 DM14
KD1RX/R	19,701	CN94 CN95
KE6QR/R	8,892	CM88 CM97 CM98
KCØP/R	8,880	EN33 EN34 EN35 EN43
NØHZO/R	5,842	EN33 EN34 EN35 EN43

NV4B/R won this year's edition with 491 QSOs and 231 multipliers using six bands.

Runner-up was NØLNO/R with 507 QSOs and 192 multipliers. Here's his report: *Our 6 m expedition to Fred Fish leaderboard needed grids DN92, DN93, EN02, and EN03 provided memorable experiences for us and rare grids to others. The sky rained on us from contest start until the first evening. Our operating location turned into a mud slurry. Our second and third locations were on paved parking areas near a cemetery and weigh station. We ended in a field entrance that had dried out since all of the rain. Apologies to all who tried and could not complete with us. The sporadic propagation gave us single calls from many stations. We often missed rogers or roger 73s. Thank you to KØDAS and all of you for making this a fun expedition for us.73s from NØLNO/R Ops: NØLNO and KØDAS*

Figure 3 - NØLNO/R through rain and mud activating rare grids.

Category Results —Multioperator

Limited Multioperator

Station	Score	Grid
AA4ZZ	453,390	EM96
K5QE	339,500	EM31
N2NT	252,984	FN20
WB9Z	135,470	EN60
KE8FD	130,680	EN80
W9VW	96,086	EM79
N7T	83,136	DN75
WY7DT	79,849	DN74
W2LV	77,700	FN21
W3SO	71,575	FN00

AA4ZZ repeated at the top of limited multioperator from 2022. The team managed 1,101 QSOs and 381 grids. K5QE finished second with 953 QSOs and 350 grids. N2NT held down third place with 892 QSOs and 254 grids.

Multioperator means just that — multiple operators pulling together to make as many contacts as possible for the 33 hours of the contest. Here's the list of operators at the top 10 limited multioperator stations.

- **AA4ZZ**: *AA4ZZ, KU4V, KZ4RR, W3DQS, W3GQ, W3OA, W4GRW, W4MW.*
- **K5QE**: *K5QE, K5SAB, KF5LKG, KV5W, N5KDA, N5YA, W5KDA.*
- **N2NT**: *N2NC, N2NT, W2RQ, WW2Y.*
- **WB9Z**: *NV9L, WB9Z.*
- **KE8FD**: *AA8MA, KE8FD.*
- **W9VW**: *K9LZJ, K9QFL, K9SG, W7WE, WB9YCZ.*
- **N7T**: *AEØEE, KØBBC, WØZF.*
- **WY7DT**: *WØVB, WY7FD.*
- **W2LV**: *KC2QDU, KC2YON, KO2OK, N2WM, WB2UFF, WD3R.*
- **W3SO**: *AC3JR, N3VRO, W3BTX, W3SF, W3SST, W3XOX.*

Unlimited Multioperator

Station	Score	Grid
W2SZ	432,450	FN32
W3CCX	366,928	FN21
N4SVC	300,004	EM80
W9XA	275,872	EN51
W4IY	169,002	FM08
W4NH	167,865	EM84
N8GA	154,365	EN80
WQØP	136,584	EM19
VE3MIS	134,640	FN03
K7SWI	123,152	DN14

W2SZ completed 1,010 QSOs with 310 grids to handily lead this category. They've won this category every year since 2021. They were on all bands up to 10 GHz.

In second place, W3CCX had 964 QSOs and 284 grids working all bands through 10 GHz.

N4SVC made it to 779 QSOs and 358 grids.

Here's the report from W4IY: *Woodbridge Wireless celebrated our 35th anniversary on Flagpole Knob, VA. (FM08). We had 12 operators and ran two stations. Propagation on 6M was fantastic, and we were rewarded with an FT8 QSO into Japan. The SSB and CW 6M sub-bands came alive once in a while, and it was like the 'good old days'. At one point, I actually had to switch to ESM on N1MM and run CW like an HF contest. On 2M, we caught the sporadic E opening and worked into TX and LA on FT8! Thanks for all the QSO's!*

You can find a photo of their location on the front page of this report.

WQØP had this report: *This was a very good contest for us. For the first time we added a real 10ghz station to our equipment list. On 10 Ghz, we were able to make 12 contacts with 11 grids. Our best 10ghz and a real surprise and pleasure for us was working W5VH/R in EM35 311 miles on CW!!! 2 meter E-skip gave us Florida and Idaho. One decode on 6m FT8 from Rwanda, South Africa! Super exciting band conditions, great friends, great weather, and great band conditions, what else could a guy want for a great weekend Thanks to all that contacted us. C U again soon!*

Here's the list of operators at the top ten stations:

- **W2SZ**: *K1EP, K2DEJ, K2TR, KA1PRT, KC2HIZ, KC2TFQ, KI2L, N2OY, N2YZO, W1SZ, WA1HCO.*
- **W3CCX**: *K3EGE, K3JJZ, KB2AYU, KB3SIG, KC3BVL, N3EG, N3RG, N3YMS, W2SJ, W3JG, WA3RLT.*
- **N4SVC**: *K1UHF, K4SME, KD4AMP, N2CEI, WB2FKO.*
- **W9XA**: *AA9D, KØPG, K9PW, KEØDIT, W9DSR, W9XA, WT2P.*
- **W4IY**: *KØLB, KG4URW, KI4GSS, KJ4LR, KO4OZL, KR9D, KV4UC, KX4TL, W4DAV, W4NF.*
- **W4NH**: *KI4US, KM4QHI, N4SDK, NX9O, W4ZST, W5TDY, WG8S, WW8RR.*
- **N8GA**: *K8DZ, KB8ZR, N8UR, N8ZM, W8BFT, WB8ART, WB8TDG.*
- **WQØP**: *KAØKAN, WAØARM, WQØP.*
- **VE3MIS**: *VA3CW, VA3ELE, VA3FIP, VA3TO, VE3MYO, VE3NE.*
- **K7SWI**: *KW2E, W7IMC.*

DX Station Entries

Several DX stations were on the air during the contest, but not everyone turned in a log. Here's the list of DX stations who entered logs:

9Y4D, 6D5C, 4A7L, CO3VR, CO2QU, JP1LRT, V31MA, XE2J, XE2JS, XE3N, XE2YWH, XE2N, XE2AJ, XE1O, XE2X, XE1AY, XE2YWB, XE2NL.

You can find their scores, grids, bands, etc., in the full line scores at https://contests.arrl.org/ContestResults/2023/Jun-VHF-2023-FinalLineScores.pdf

Log Checking Reports

Make sure you take advantage of the Log Checking Reports that are available for every contest. They can help you spot operating errors and correct them for the next time. You can find them at https://contests.arrl.org/logcheckreports.php

Contest Certificates

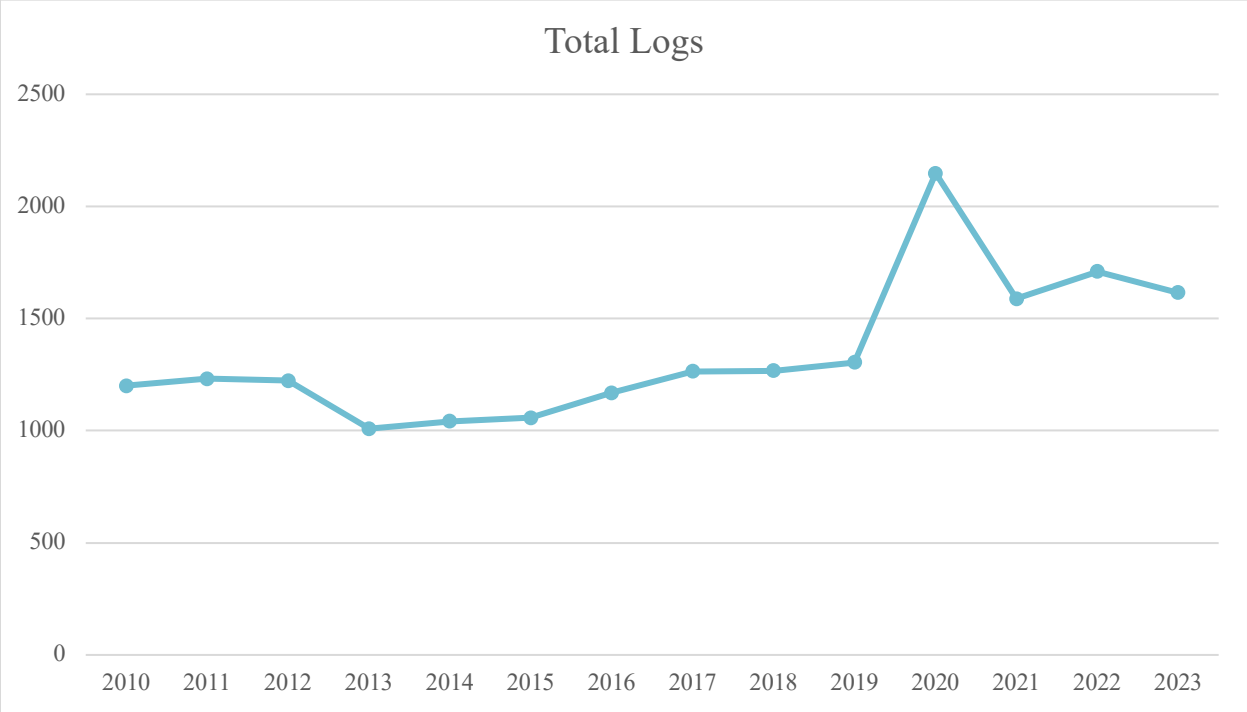
Download your contest certificates at https://contests.arrl.org/certificates.php

Next June VHF Contest

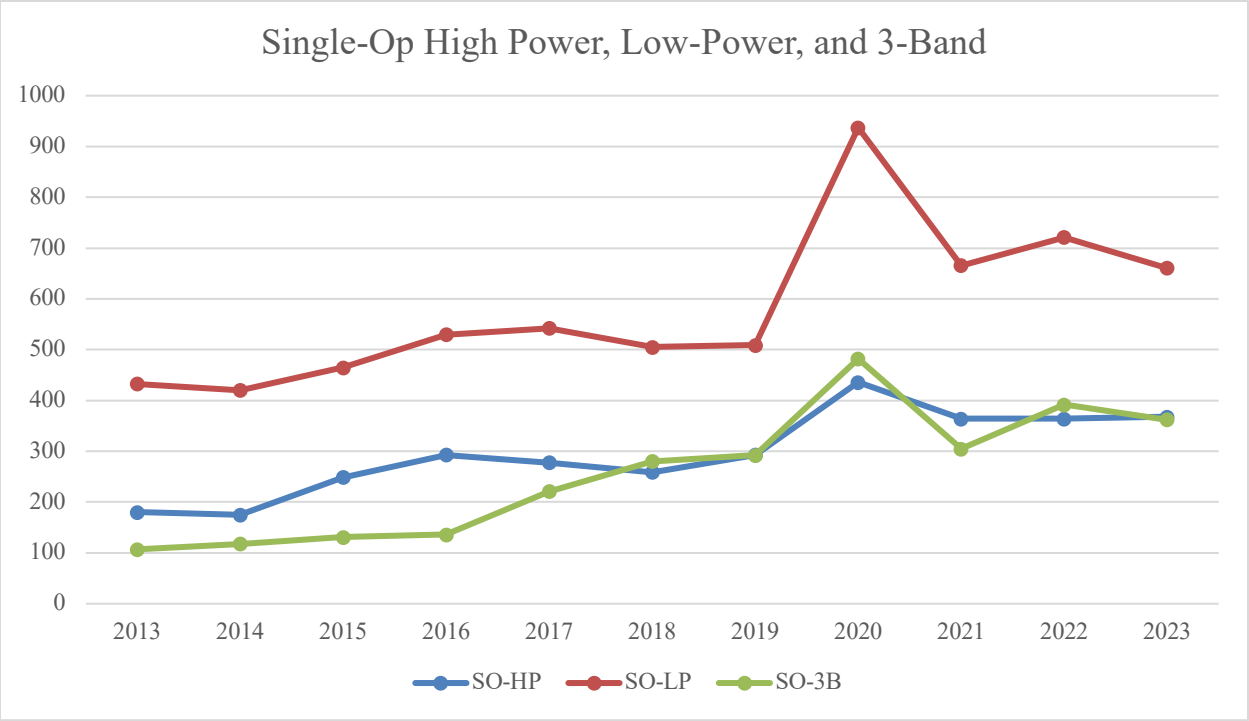
The next ARRL June VHF Contest is scheduled for June 8 to 10, 2024. Mark your calendars and get your stations ready. You can find the ARRL Contest Calendar at https://contests.arrl.org/junvhf/cal/

Detailed Analysis

There were 1,615 logs submitted for the 2023 contest, down from the 1,709 submitted in 2022. Overall, apart from the COVID-19 stay-at-home spike in 2020, the trend has been generally upward over the past ten years.

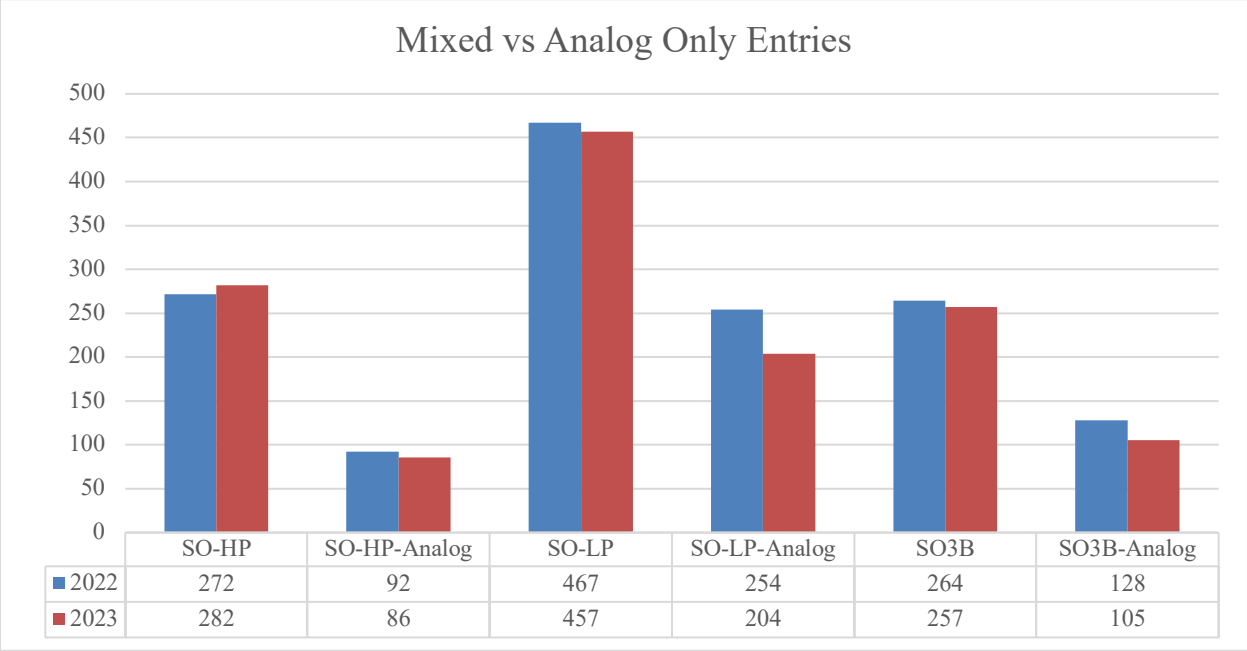


This next chart runs the numbers from 2013, the start of the Single Operator – 3 Band category, through 2023. For this analysis, it adds the analog-only categories of the last two years, pulling all the logs together for high-power, low-power, and three-band.



It's interesting to note that while it took several years for Single Operator 3-band to take off, it's clearly added an attractive category for operators.

This chart compares the now two-year-old option of analog-only entries.



This table provides a reference with the 2021 numbers.

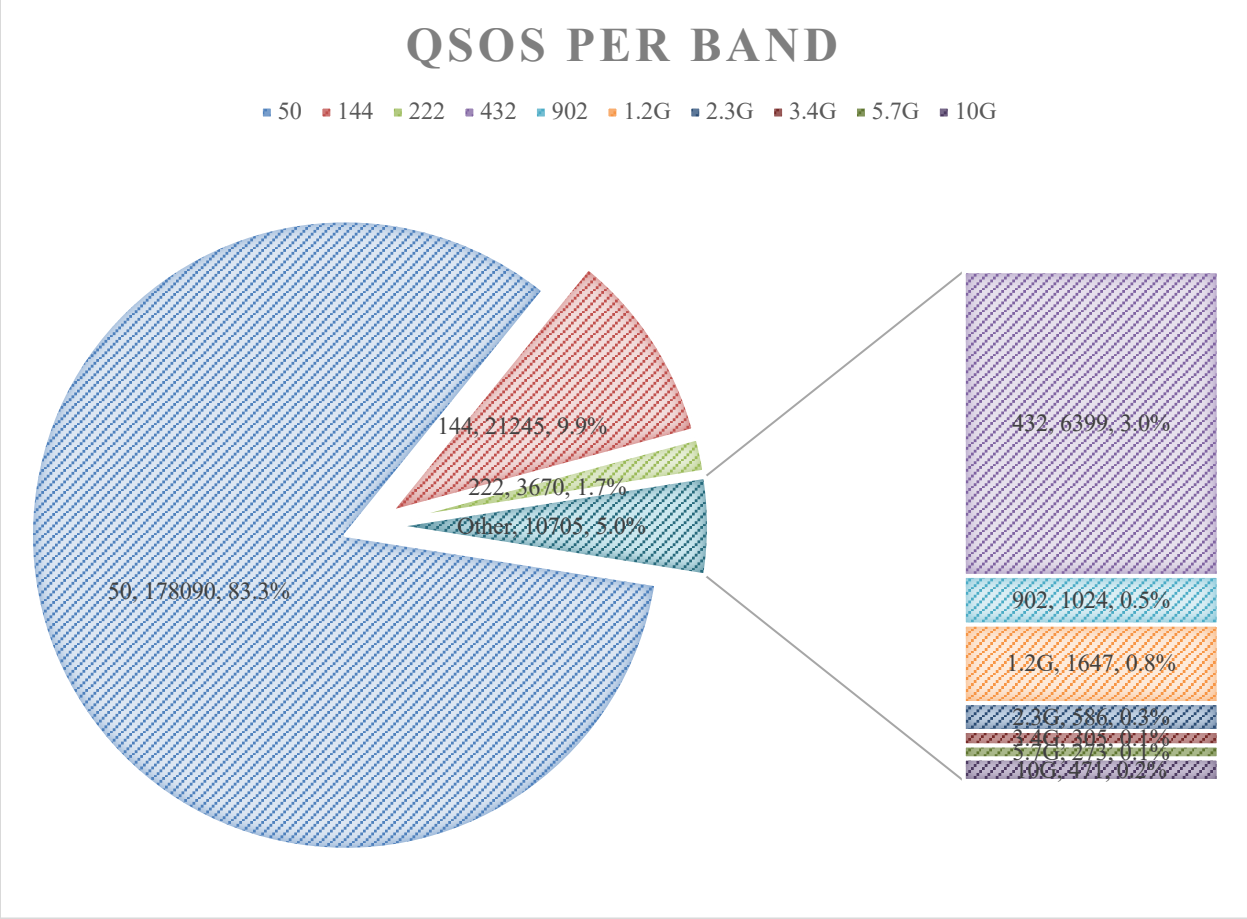
	2021	2022	2023
SOHP	364	272	282
SOHP-Analog		92	86
Total	364	364	368
SOLP	666	467	457
SOLP-Analog		254	204
Total	666	721	661
SO3B	305	264	257
SO3B-Analog		128	28
Total	305	392	285

It looks like a nice jump in analog-only low-power and three-band participation in 2022 but a return to normal overall levels in 2023. We'll see what happens in 2024.

It's worthwhile to take a look at the participation in some of the smaller categories, which is shown in the table below. While no big trends are showing up, it's of some concern that overall rover participation appears to be declining somewhat. Since that's one of the unique features of VHF contesting, let's do all we can to encourage more participation in this category.

	2018	2019	2020	2021	2022	2023
Rover	32	33	52	40	37	28
Rover Limited	52	57	68	62	44	47
Rover Unlimited	8	14	10	15	11	18
Single Op Portable	29	31	52	50	26	21
Single Op Portable Analog					24	28
Single Op FM Only	23	25	51	51	21	21
Limited Multioperator	42	27	36	33	37	32
Unlimited Multioperator	31	20	18	18	19	26

The June VHF Contest always has a majority of QSOs on 6 meters. This year, it was 178,090, or 83% of all QSOs. Two meters weighed in at 21,245 or 10%. Seventy centimeters was 3% or 6,399.



Soapbox Highlights

Each year, we review all the soapbox comments. So, thanks to all who submitted them, and thanks to those who also submitted photos.

This year, we received 203 soapbox comments and stories. This was down from the 230 comments received in 2022.

Here are a few selected highlights. You can review the full listing at https://contests.arrl.org/junvhf/soaps/2023/

AA9RK/R Limited Rover. Ops AA9RK and KD9NZB, 5,680 points, 110 QSOs, 40 grids.

In our third year of roving for June VHF, my son Max KD9NZB (age 11) and I visited four grid squares (EN52, 53, 62, 63) on Saturday afternoon and Sunday afternoon. Saturday featured:

- Beautiful weather.
- A broken connector on our homebrew Moxon (luckily, I had a soldering iron, solder, and an inverter -- this is the first time I've ever soldered sitting on the ground in a parking lot).
- A broken PVC elbow on our homebrew Moxon.
- Lots of unavoidable delays and frustrations.

Figure 4 - KD9NZB in operation at AA9RK/R

We planned for this to be a one-day rove, but we decided to try again on Sunday, and I'm really glad we did. Sunday featured:

- Awful weather (rainy, windy, and 50 degrees F).
- Excellent band conditions on 6 and 2 meters.
- Lots of A1 ops.

Max tends to operate digital, and I operate phone and CW. We used our homebrew Moxon on 50 and Diamond beams on 144 and 432 on a painter's pole. We use an FT-991 for 50/144/432 all modes and a variety of HTs for 50/144/222/432 FM.

KØAAX/R Unlimited Rover. Ops NV5E and KØAXX, 48,032 points, 325 QSOs, 152 grids.

Our rover mobile managed to avoid arrest, not catch fire, and only suffer one flat tire. So by that standard, WE WON! It's sort of like golf, if you can find the ball after you hit it, you are THE winner!

We started off on a well-intended calm and relaxing road trip that was supposed to be full of sarcasm, lame jokes, and radio nerdery, but turned out to be an adventure that found us surrounded by cops, fire trucks and ambulances, swallowed by a storm that relieved half of southeast Texas residents of their precious air conditioning and confirmed that a jack is a critical component to your travel gear. Seriously, don't leave your jack at the shack. Or the jack handle. Or the pretzels.

I can tell you this: I saw precisely none of the countryside. My head was buried in that radio display and laptop screen the entire time, except for the early morning hours when all you lame operators were napping and not making contact with us because I was up. Looking for your signal. Only to be left out in the dark and cold, all alone with.....nevermind. I need counseling.

Figure 5 - KØAAX/R

It was a grind in the truest of senses. We fought with every antenna element and inch of coax had for every contact we made. Some came easy, some not so much. Some by voice, a few by dits and dahs, but most by that annoying high-pitch screech of ft8. It really was hard work, and we learned a lot and met a few other weirdos along the way. So, would I recommend to others to give roving a try? Yes. But only if you're not weak, timid, or afraid of hemorrhoids. This, my friends, is how strong operators compete. Good luck. 73. (NV5E)

PS from KØAXX- The experience was as described above. EXACTLY. I, however, did see a bit of the countryside...when I wasn't hanging my head out of the window watching the massive stack of antennas trailing my Yukon(pics on request).

My last rove was in 2014, and my antennas exploded at 75 mph. we kept speeds down to a safe 60 this year. I truly enjoyed the rove. I wish we had contacted more rovers, specifically those in adjacent grids. We activated EL39, EL29, EM20, EM10, EM11, EM21, EM22, EM32, EM31....with the first 7 on Sat...during that crazy storm....while holding our heads out windows, watching for flying antennas. The best contact was all voice contacts (I am partial). 73 de K0AXX

K3FR Single Operator 3-Band. 12,427 points, 191 QSOs, 81 grids, from FM18

Wow! That was sure FUN! From a little pistol station under severe HOA restrictions, this was a GOOD contest.

Before the contest, 6m was moderately open, with EN33, EM32, DL06, and EM20 all showing up; I worked W5THT at 16:00Z before making and eating a mid-day dinner. The opening built to include VE4GV and VE4VT in fairly rapid order around 22:40Z. Within a half hour, Florida was being worked, and it wasn't just the edges, the internal grids were available and going into the log. By 00:45Z, Cuba was in the log, and I continued to work the heartland. WB8LYJ, for me, a needed FFMA grid, was collected.

Sunday morning continued the 6m opening to the south, all along the gulf and into Texas and the lower Mississippi Valley. Suddenly, at about 21:00Z, Caribbean stations began appearing. I easily worked 9Y4D, and within 20 minutes, Europe showed up for me yielding G7RAU and F2DX worked. The final highlight for me was closing out with a 6m contact to W7EW (CN84) near Portland, OR, at 02:59Z.

Oh, I forgot to highlight a short 2m Es opening to Texas and Arkansas around 23:10Z on Sunday, where I worked K5QE for my final 2m QSO! So, YES, this was a FUN weekend with good propagation the entire time. There were a couple of anomalies; while I worked K5QE on 2m, I couldn't work him on 6m despite a +25dB signal, I also worked K1TEO on 6m but couldn't connect on 2m even during AM Tropo-ducting. I saw a few more than I managed to work, AZ, CA, UT, and WY are all in my ALL files but not in my logs.

I did not reach the scoring goals I had set, but that was not a problem for me, I had fun. Running SO2R finally came together for me as a new experience and actually reduced fatigue once I developed my strategy and rhythm.

K7KTM Single Operator Low Power. 17,266 points, 184 QSOs, 97 grids, from DN26.

A big thank you to W7OUU, Jim, for saying just get on the air Saturday and Sunday and make some contacts, little did we know what an epic weekend it would be. The very best 6 meter conditions I had ever operated in. Thanks to everyone who answered my CQ's, I was amazed at what 40 watts did on FT8, an experience I will never forget!

Figure 6 - K7KTM proving you don't need much height on 6 meters.

KC4HW Unlimited Multioperator.
Ops KC4HW and N4IDH, 30,008 points, 250 QSOs, 124 grids, from EM61.

Operated from Frank Jackson State Park, Opp, Al - EM61. Actually, there are a lot of 6m ops from my home grid (EM71), so I decided to go over to the state park, where there is only one active op, and see if we could co-exist. Actually, I was close to him, but I never heard him.

Ran with 75 watts and a brand new 4L homebrew constructed antenna, design based on YU7EF. In fact, I was sitting at my RV campsite picnic table around 8:30 PM local, using the light from the battery power drill to prepare the Boom to Mast mount plate. It actually turned out pretty good. Put my own twist on the design using EZNEC with help from KV5W and AC6LA, which helped me late last year. I used available aluminum that I had for years. All in all, the antenna worked great! It was easy to put up and transport in the truck bed with no problem.

OK, thanks for the QSOs and to all who participated in the success of this outing.

Jim/KC4HW
Al/N4IDH

Figure 6 - KC4HW on the air in EM61

KE4WMF/R Limited Rover. 3,150 points, 75 QSOs, 42 grids.

Figure 7 - KE4WMF/R

My plan for June's ARRL VHF contest was ambitious: 10 grids and 700 miles of driving! I started my rove at Red Wing Park in Virginia Beach, grid square FM26. Next, I drove up the road a few miles to First Landing State Park (K-1299) in FM16. I made just five contacts before driving across the Chesapeake Bay Bridge Tunnel to Cape Charles, VA. The majority of Virginia's eastern shore is in FM27. However, Cape Charles protrudes west just enough to have it lay in FM17, which is my home grid. I chose to make some QSOs from there just to see if I could reach across the Chesapeake Bay to contact friends at home and on my local repeater. Reaching 42 miles (67 km) across the water was a cinch! Next, I drove to Exmore, VA, to make some contacts from FM27 and to spend the night.

Figure 8 - KE4WMF/R handy operating position.

Chincoteague, also in FM27, was a top destination for me on this rove! I wanted the beach photo and the chance to shoot a signal over the Atlantic Ocean to work New England. I left Exmore at 5:45 am and took a beach photo around 7 am. I decided to do a "quick" POTA activation (K-0561) on HF, adding the VHF contacts that I had already made, and then left. I tripped over a couple of stations on 144.200 MHz as I was leaving the area. I parked and worked them on 50.135, 144.200, and 432.100 MHz. The unplanned stop delayed my driving schedule, but the contacts were good points multipliers for both me and them. I also learned that my 15-element beam antenna requires a bit of fine tuning to find a distant station.

I left Chincoteague and drove to someplace forgettable to make some contacts from FM28. I shot up to a rest stop just over the boundary line for FM29 and then returned to FM28 to cross Maryland's Bay Bridge. I was falling behind schedule, either because of traffic or neglecting to account for other stops for fuel or food. I opted to cancel my next stop to make-up an hour. I

knew that I'd spend plenty of time driving in FM18 and could make some FT8 contacts while on the move. Then things got really bad, blowing my "schedule" to pieces!

Highways 50 and 301 were PARKING LOTS between Queenstown and Skidmore, MD. I visited Sandy Point State Park (K-1595) to work from FM19. I also added some HF contacts to complete a POTA activation before leaving. The traffic and crowds in that area were more than sufficient for me to exclude it from future roving plans!

Nearly three hours behind what I now know was too ambitious of a schedule, I was getting tired and was still three hours from my next planned stop, which was another three hours from home. I decided to skip grids FM07, FM08, and FM09 and drive home, which was still three hours from my current location. That decision shaved 175 miles (280 km) from my drive and got me home by 10pm. I didn't want to forfeit Afton Mountain, but I also didn't want to be on the road until 2am, especially since I started very early that morning. I'll work those grids into a future plan. I monitored 144.200 and ran FT8 on 50.313 during my drive home and also made a few voice contacts along the way.

In the end, I made 76 QSOs with stations located in 25 different grid squares and worked from 7 grid squares. That won't win me any prizes, but I'm in the books, possibly around mid-pack. I need to do much better before I can feel like an accomplished rover.

One lesson learned is it's clear that I underestimated the time needed to make this work. I was perpetually falling behind as each day progressed. Next time, I'm going to double my travel time and on-station operational times to account for traffic, fuel stops, meals, and other factors. That will reduce the number of grid squares on my itinerary, but it may also put my schedule right where it needs to be. I'll test another route during the next contest. See You Then!

N2ZBH/R Limited Rover. 9,332 points, 157 QSOs, 54 grids.

I had a decent amount of fun, but less sleep than I'm used to these days, doing the contest. Went out as Rover Limited as usual. This was the first time in the Fiat 500 - I may have been the smallest rover out there. I managed to get the full antenna tree that I normally go with onto the Fiat at the last minute, but rotating was a pain cause I had to get out of the car. Probably the first priority improvement will be some sort of custom rotator. The last 2 vehicles I roved in were both Jettas with a sunroof, so there was no need - just reach up and rotate. I haven't contested much in the last few years, but I'm not a fan of the recent majority shift to digital. This is the first time I've incorporated digital, and sadly, most of my QSOs were gotten there. I normally just do phone, and I prefer it for a number of reasons, but what are you gonna do? Did 9 grids this time around - 4 on Sat and 5 on Sun.

Figure 9 - N2ZBH/R

N6MI Limited Multioperator. Ops N6MI, K6VCR, 22,848 points, 206 QSOs, 119 grids, from DM15.

For the 2023 June VHF contest, N6MI and K6VCR went portable as "N6MI" from the Mojave Desert (near Fort Irwin, California) to hand out a few rare DM15 contacts. We operated from a converted news van (n6mi.com). We ran 500 watts (or less) on six meters to a five-element Yagi at 60 feet. We ran 100 watts on two meters for a handful of contacts. Before log checking, we worked 11 CW, 49 USB, and 156 FT8 contacts on six meters -- 123 grids with contacts in the continental United States, Hawaii, Mexico, Canada, Ireland, Switzerland, and France. Six meters was booming on Sunday morning, but we packed up after the weather turned to hail and thunderstorms. Thanks for the contacts.

Figure 10 - N6MI in the Mohave Desert, DM15

Appendix

Sponsored Plaque Winners

There are numerous contest plaques that go unsponsored each year. If you or your club is interested in sponsoring a plaque, please contact the ARRL Contest Program at contests@arrl.org or by phone at 860-594-0232. Plaques are priced at $80, which includes all shipping and handling costs to the winner. Send your $80 (US) payment by check (make payable to ARRL) and mail to ARRL — Contest Plaques, 225 Main St., Newington, CT 06111 USA.

Plaque Category	Plaque Sponsor	Winner
Overall Single Operator High Power	Charles Dietz, W5PR	K1TEO
Overall Single Operator, Analog Only, High Power	Andrea Slack, K2EZ	W9RM
Overall Single Operator, Analog Only, Low Power	Andrea Slack, K2EZ	AF1T
Overall Single Operator, Low Power, Rookie	W3ZZ First Log Award - Memorial by Tim, K3LR and Dave, W9PA	AD4GG
Overall Single Operator QRP Portable	Andrea Slack, K2EZ	WA4AUG (AA5JF, op)
Overall Single Operator, Analog Only, QRP Portable	Andrea Slack, K2EZ	AI6US
Overall Single Operator, 3-Band	Northern Lights Radio Society	KØ9A
Overall Single Operator, Analog Only, 3-Band	Andrea Slack, K2EZ	AD5A
Overall Single Operator, FM Only	Andrea Slack, K2EZ	K6JO
Overall Rover	Andrea Slack, K2EZ	ACØRA/R
Overall Limited Rover	Andrea Slack, K2EZ	W5TN/R
Overall Unlimited Rover	Andrea Slack, K2EZ	NV4B/R
Atlantic Division Rover	Rochester VHF Group	KF2MR/R
Central Division Single Operator High Power	Society of Midwest Contesters	K9CT
Central Division Single Operator Low Power	Society of Midwest Contesters	K2DRH
Central Division Single Operator QRP Portable	Society of Midwest Contesters	KD9NYE
Central Division Single Operator, 3-Band	Society of Midwest Contesters	KO9A
Central Division Rover	Society of Midwest Contesters	K9JK/R
Dakota Division Single Operator Low Power	Northern Lights Radio Society	WBØULX

Dakota Division Rover	Matt Holden, KØBBC	NØSPN/R
Dakota Division Limited Rover	Matt Holden, KØBBC	NØUD/R
Dakota Division Unlimited Rover	Matt Holden, KØBBC	NØLNO/R
Southeastern Division Single Operator, 3-Band	Andrew Goss, AA5JF	NS4T
Southwestern Division Single Operator Low Power	Northern Lights Radio Society	AG6X
Canada Single Operator Analog Only, Low Power	Neil Macklem, VE3SST	VE3DS
Canada Single Operator Low Power	Neil Macklem, VE3SST	VA6AN
Canada Single Operator, 3-Band	Neil Macklem, VE3SST	VE3DZ
Canada Rover	Neil Macklem, VE3SST	VE3OIL/R
Canada Limited Rover	Rochester VHF Group	VE3GKT/R
Canada Unlimited Rover	Neil Macklem, VE3SST	VE3SST/R

Division Winners

Classic Rover

Atlantic	KF2MR/R	152,702
Central	K9JK/R	15,876
Dakota	NØSPN/R	7,480
Delta	AG4V/R	55,950
Midwest	ACØRA/R	406,029
Northwestern	AC7SG/R	12,880
Pacific	N6TEB/R	6,477
Roanoke	W8BRY/R	920
Southwestern	N7GP/R	361,030
Canada	VE3OIL/R	134,121

Limited Rover

Atlantic	KØBAK/R	19,401
Central	KG9OV/R	56,024
Dakota	NØUD/R	2,535
Delta	WA4JA/R	224
Great Lakes	KC8JPZ/R	2,520
Hudson	N2ZBH/R	9,342
Midwest	AL1VE/R	94,691
New England	KB1QYH/R	1,140
Northwestern	WR7X/R	31,944
Roanoke	KE4WMF/R	3,150
Rocky Mountain	AA5PR/R	60,896
Southeastern	K4NO/R	17,776
Southwestern	KX6A/R	39,690
West Gulf	W5TN/R	171,288
Canada	VE3GKT/R	39,168

Unlimited Rover

Dakota	NØLNO/R	91,584
Delta	NV4B/R	128,436
Hudson	WB2VVQ/R	1,846
New England	KG6CIH/R	58,218
Northwestern	KD1RX/R	19,701
Pacific	KE6QR/R	8,892
Southeastern	K4CNY/R	1,170
Southwestern	N6UTC/R	21,830
West Gulf	K2EZ/R	48,298
Canada	VE3SST/R	3,381

Single Operator, High Power

Atlantic	N2JMH	242,215
Central	K9CT	223,652
Dakota	WØZQ	53,851
Delta	N4OGW	284,666
Great Lakes	K9NW	60,860
Hudson	WA2FZW	53,949
Midwest	WØZA	104,790
New England	K1TEO	546,588
Northwestern	W7EW	181,980
Pacific	ND7M	79,639
Roanoke	N3MK	92,082
Rocky Mountain	NG7M	79,336
Southeastern	K1TO	226,066
Southwestern	N1AV	257,660
West Gulf	W5PR	269,352
Canada	VE5MX	56,175

Single Operator, Low Power

Atlantic	N2WK	164,095
Central	K2DRH	171,920
Dakota	WBØULX	26,934
Delta	W5SUM	69,696
Great Lakes	W8DPK	52,038
Hudson	WA2VNV	20,930
Midwest	NIØP	69,223
New England	WB1GQR (W1SJ, op)	87,780
Northwestern	KIØE	48,348
Pacific	W6RN	32,860
Roanoke	N4LAZ	52,073
Rocky Mountain	KFØIDT	82,716
Southeastern	W1BQ	52,260
Southwestern	AG6X	143,220
West Gulf	KM5RG	130,402
Canada	VA6AN	29,696

Single Operator, Analog Only, High Power

Atlantic	W2FU	87,176
Central	WØUC	59,250
Dakota	WØGHZ	9,916
Delta	WZ5M	55,626

Great Lakes	K2YAZ	6,420
Hudson	W2KV	26,978
Midwest	NØURW	54,756
New England	WZ1V	90,720
Northwestern	K7RAT (N6TR, op)	16,849
Pacific	NU6S	97,527
Roanoke	W3IP	66,555
Rocky Mountain	W9RM	166,656
Southeastern	K4WI	96,866
Southwestern	N6KN	32,109
West Gulf	N5TJ	96,192
Canada	VE3KG	13,816

Single Operator, Analog Only, Low Power

Atlantic	WA3EOQ	22,575
Central	KG9AP	27,261
Dakota	KAØPQW	54,978
Delta	KD5ILA	7,906
Great Lakes	K8MR	5,044
Hudson	WB2JAY	25,392
Midwest	KEØIZE	30,000
New England	AF1T	108,984
Northwestern	N6ZE	12,939
Pacific	K2GMY	35,742
Roanoke	K5OF	9,490
Rocky Mountain	AC7AF	5,856
Southeastern	N4OX	63,920
Southwestern	N7RK	21,375
West Gulf	AB5EB	105,610
Canada	VE3DS	38,582

Single Operator, Portable

Atlantic	K3GD	4,785
Central	KD9NYE	304
Dakota	NØSUW	1,768
Great Lakes	N8XA	2,688
Hudson	WX3P	580
Midwest	NØJK	6,864
Roanoke	N4IJ	1,656
Southeastern	WA4AUG (AA5JF, op)	23,200
Southwestern	KC6NKK	22,800
Canada	VE7VIE	42

Single Operator, Portable, Analog Only

Atlantic	K2AXX	624
Central	W9SZ	2,016
Dakota	KAØCRO	608
Delta	N3AWS	3,692
Hudson	WB2AMU	1,512
Midwest	AKØM	598
Northwestern	N7UN	72
Pacific	AI6US	19,344
Roanoke	AB8CI	216
Southwestern	KF7NP	1,440
Canada	VE6SM	3

Single Operator, 3 Band

Atlantic	WN3A	99,372
Central	KO9A	182,920
Dakota	NØUR	103,828
Delta	WQ5L	148,944
Great Lakes	N8HRZ	49,725
Hudson	W2JTM	16,261
Midwest	WØJW	48,495
New England	W1BS	12,740
Northwestern	K6EI	93,024
Pacific	WA6ZTY	55,986
Roanoke	KK4MA	65,619
Rocky Mountain	KØNR	95,546
Southeastern	NS4T	79,373
Southwestern	WM6Y	17,278
West Gulf	AD5L	38,135
Canada	VE3DZ	7,198

Single Operator, Analog Only, 3 Band

Atlantic	K3AU (K2YWE, op)	2,627
Central	WB9HFK	14,355
Dakota	NDØC	1,036
Delta	KC5DI	1,512
Great Lakes	KE4KY	2,590
Hudson	WB2PJH	1,539
Midwest	KEØKKD	23,985

New England	AJ1G	1,760
Northwestern	N7QOZ	5,661
Pacific	K6YK	3,960
Roanoke	N8II	10,758
Rocky Mountain	KØXF	40,576
Southeastern	K4BAI	33,572
Southwestern	WB6HYH	10,065
West Gulf	AD5A	112,041
Canada	VE2BAP	3,277

Single Operator, FM Only

Atlantic	AA2SD	297
Central	KE2BKJ	6
Delta	K4NRT	15
New England	KB1YNT	280
Northwestern	KL4LJ	120
Pacific	W6JFA	468
Roanoke	KI4POT	176
Southeastern	K3TW	27
Southwestern	K6JO	1,260
West Gulf	KG5UNK	10
Canada	VE3RWJ	1,064

Limited Multioperator

Atlantic	W3SO	71,575
Central	WB9Z	135,470
Dakota	NØEO	27,140
Great Lakes	KE8FD	130,680
Hudson	N2NT	252,984
Midwest	NØMA	8,850
New England	W1QK	33,516
Northwestern	N7T	83,136
Pacific	W6MMM	3,660
Roanoke	AA4ZZ	453,390
Rocky Mountain	WY7DT	79,849
Southeastern	WB4WXE	45,552
Southwestern	N6MI	22,848
West Gulf	K5QE	339,500

Unlimited Multioperator

Atlantic	W3CCX	366,928
Central	W9XA	275,872
Great Lakes	N8GA	154,365
Hudson	WE1P	47,128
Midwest	WQØP	136,584
New England	W2SZ	432,450
Northwestern	K7SWI	123,152
Pacific	N6RO	122,850
Roanoke	W4IY	169,002
Southeastern	N4SVC	300,004
West Gulf	KC5MVZ	17,542
Canada	VE3MIS	134,640

Regional Leaders

Boxes list call sign, score, and class:

LM = Limited Multioperator
R = Classic Rover
RL = Limited Rover
RU = Unlimited Rover
SO-ALG-3B = Single Operator, Analog Only, 3 Band
SO-ALG-HP = Single Operator, Analog Only, High Power
SO-ALG-LP = Single Operator, Analog Only, Low Power
SO3B = Single Operator, 3 Band
SOFM = Single Operator, FM Only
SOHP = Single Operator, High Power
SOLP = Single Operator, Low Power
SOP = Single Operator, Portable
SOP-ALG = Single Operator, Portable, Analog Only
UM = Unlimited Multioperator

West Coast Region

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

N7GP/R	361,030	R
K7LSX/R	80,391	R
N7DSX/R	62,816	R
AC7SG/R	12,880	R
N6TEB/R	6,477	R
KX6A/R	39,690	RL
N6GP/R	37,948	RL
WR7X/R	31,944	RL
K6LMN/R	2,945	RL
VA7OTC/R	2,848	RL
N6UTC/R	21,830	RU
KD1RX/R	19,701	RU
KE6QR/R	8,892	RU
WA6OEM/R	2,300	RU
KI6ARW/R	1,587	RU
N1AV	257,660	SOHP
W7EW	181,980	SOHP
KA6BIM	106,248	SOHP
W7MEM	104,625	SOHP
NJ6D	101,069	SOHP
AG6X	143,220	SOLP
N7IR	102,780	SOLP
KIØE	48,348	SOLP
N7EPD	41,268	SOLP
W8AEF	40,185	SOLP
NU6S	97,527	SO-ALG-HP
N6KN	32,109	SO-ALG-HP
K7RAT (N6TR, op)	16,849	SO-ALG-HP
KD7UO	10,250	SO-ALG-HP
K6WIS	7,560	SO-ALG-HP
K2GMY	35,742	SO-ALG-LP
N7RK	21,375	SO-ALG-LP
N6ZE	12,939	SO-ALG-LP
N6NZ	6,150	SO-ALG-LP
KØIP	5,537	SO-ALG-LP
KC6NKK	22,800	SOP
WQ6D	1,593	SOP
AF5T	1,525	SOP
W1UO	640	SOP
VE7VIE	42	SOP

AI6US	19,344	SOP-ALG
K6MI	10,640	SOP-ALG
N4DLA	8,736	SOP-ALG
AA6XA	3,276	SOP-ALG
KE6GLA	2,256	SOP-ALG
K6EI	93,024	SO3B
WA6ZTY	55,986	SO3B
AF6SA	49,056	SO3B
AB9BH	35,230	SO3B
KJ6VHZ	33,127	SO3B
WB6HYH	10,065	SO-ALG-3B
N7QOZ	5,661	SO-ALG-3B
KØXP	5,394	SO-ALG-3B
K7CX	5,060	SO-ALG-3B
K6YK	3,960	SO-ALG-3B
K6JO	1,260	SOFM
K1CT	1,008	SOFM
W6JFA	468	SOFM
AF6GM	420	SOFM
KN6YCX (W6JFA, op)	352	SOFM
N7T	83,136	LM
N6MI	22,848	LM
WO1S	12,474	LM
W6MMM	3,660	LM
W6SPR	416	LM
K7SWI	123,152	UM
N6RO	122,850	UM
W6YX	7,897	UM
VE6AO	162	UM

Midwest Region

(Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)

ACØRA/R	406,029	R
NØSPN/R	7,480	R
WAØCNS/R	2,178	R
AF4JF/R	629	R
KBØTNG/R	162	R
W5TN/R	171,288	RL
KA5D/R	164,369	RL
AL1VE/R	94,691	RL
AA5PR/R	60,896	RL
W3DHJ/R	26,320	RL
NØLNO/R	91,584	RU
K2EZ/R	48,298	RU
KØAXX/R	48,032	RU
KCØP/R	8,880	RU
NØHZO/R	5,842	RU
W5PR	269,352	SOHP
N5RZ	194,005	SOHP
W5LO	185,668	SOHP
AA5AM	168,020	SOHP
K5ND	132,250	SOHP
KM5RG	130,402	SOLP
WB5TUF	122,640	SOLP
KFØIDT	82,716	SOLP
WR7AY	80,456	SOLP
WØBL	79,170	SOLP
W9RM	166,656	SO-ALG-HP
WWØR	98,280	SO-ALG-HP
N5TJ	96,192	SO-ALG-HP
NR7T	91,945	SO-ALG-HP

WA2VYA	77,824	SO-ALG-HP
AB5EB	105,610	SO-ALG-LP
KAØPQW	54,978	SO-ALG-LP
KEØIZE	30,000	SO-ALG-LP
WDØT	19,716	SO-ALG-LP
NØKO	19,610	SO-ALG-LP
NØJK	6,864	SOP
NØSUW	1,768	SOP
NØTJN	9	SOP
KAØCRO	608	SOP-ALG
AKØM	598	SOP-ALG
NØUR	103,828	SO3B
KØNR	95,546	SO3B
K7BG	79,401	SO3B
KØVG	75,264	SO3B
AD1C	50,132	SO3B
AD5A	112,041	SO-ALG-3B
KØXF	40,576	SO-ALG-3B
KEØKKD	23,985	SO-ALG-3B
KI5YG	23,861	SO-ALG-3B
AI6O	20,273	SO-ALG-3B
KG5UNK	10	SOFM
K5QE	339,500	LM
WY7DT	79,849	LM
NØEO	27,140	LM
NØMA	8,850	LM
WQØP	136,584	UM
KC5MVZ	17,542	UM

Central Region

(Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Golden Horseshoe Sections)

VE3OIL/R	134,121	R
VE3WJ/R	38,962	R
K9JK/R	15,876	R
VE3KGC/R	1,722	R
VA3WBR/R	1,311	R
KG9OV/R	56,024	RL
VE3GKT/R	39,168	RL
AA9RK/R	5,680	RL
KC8JPZ/R	2,520	RL
KF8QL/R	560	RL
VE3SST/R	3,381	RU
K9CT	223,652	SOHP
N4SV	83,721	SOHP
N2BJ	73,726	SOHP
NØAKC	72,600	SOHP
K9NW	60,860	SOHP
K2DRH	171,920	SOLP
K9KLD	99,216	SOLP
W8DPK	52,038	SOLP
W9GA	47,472	SOLP
ND4X	43,210	SOLP
WØUC	59,250	SO-ALG-HP
VE3KG	13,816	SO-ALG-HP
VA3AR	11,189	SO-ALG-HP

W9DZ	7,680	SO-ALG-HP
K2YAZ	6,420	SO-ALG-HP
VE3DS	38,582	SO-ALG-LP
KG9AP	27,261	SO-ALG-LP
KG9X	8,415	SO-ALG-LP
K9GX	5,700	SO-ALG-LP
K8MR	5,044	SO-ALG-LP
N8XA	2,688	SOP
KD9NYE	304	SOP
AB9BZ	110	SOP
W9SZ	2,016	SOP-ALG
K9PW	196	SOP-ALG
AA9IL	36	SOP-ALG
N9YH	4	SOP-ALG
KO9A	182,920	SO3B
N8HRZ	49,725	SO3B
KCØUDO	44,550	SO3B
AB8M	44,436	SO3B
KX9X	26,724	SO3B
WB9HFK	14,355	SO-ALG-3B
N9CO	5,871	SO-ALG-3B
N9OBB	3,055	SO-ALG-3B
KE4KY	2,590	SO-ALG-3B
K9WO	1,320	SO-ALG-3B
VE3RWJ	1,064	SOFM
KE2BKJ	6	SOFM
WB9Z	135,470	LM
KE8FD	130,680	LM
W9VW	96,086	LM
KB9HV	4,209	LM
K9FE	3,034	LM
W9XA	275,872	UM
N8GA	154,365	UM
VE3MIS	134,640	UM
WD9EXD	101,821	UM
VE3WCC	98,670	UM

Southeast Region

(Delta, Roanoke and Southeastern Divisions)

AG4V/R	55,950	R
W5VY/R	26,332	R
W8BRY/R	920	R
K4ECM/R	6	R
K4NO/R	17,776	RL
W4IU/R	4,661	RL
KE4WMF/R	3,150	RL
WBØPOH/R	1,421	RL
KA4JAH/R	990	RL
NV4B/R	128,436	RU
K4CNY/R	1,170	RU
N4OGW	284,666	SOHP
K1TO	226,066	SOHP
K2PS	190,855	SOHP
WO4O	108,336	SOHP
WA4GPM	93,795	SOHP
W5SUM	69,696	SOLP
KB5VKP	63,210	SOLP
KJ5RC	62,629	SOLP
W1BQ	52,260	SOLP
N4LAZ	52,073	SOLP

K4WI	96,866	SO-ALG-HP
W3IP	66,555	SO-ALG-HP
WZ5M	55,626	SO-ALG-HP
N5BLY	33,176	SO-ALG-HP
K5TS	27,664	SO-ALG-HP
N4OX	63,920	SO-ALG-LP
N5BO	46,115	SO-ALG-LP
N4IS	36,309	SO-ALG-LP
W4RAA	14,904	SO-ALG-LP
K5OF	9,490	SO-ALG-LP
WA4AUG (AA5JF, op)	23,200	SOP
AB4DX	5,720	SOP
N4IJ	1,656	SOP
KF4VTT	702	SOP
KK4BZ	357	SOP
N3AWS	3,692	SOP-ALG
AB8CI	216	SOP-ALG
KC8KSK	192	SOP-ALG
WQ5L	148,944	SO3B
NS4T	79,373	SO3B
KK4MA	65,619	SO3B
W4TM	56,212	SO3B
N9NFT	52,635	SO3B
K4BAI	33,572	SO-ALG-3B
N8II	10,758	SO-ALG-3B
NN3W	7,224	SO-ALG-3B
KW4SW	4,466	SO-ALG-3B
K4ORD	2,880	SO-ALG-3B
KI4POT	176	SOFM
K3TW	27	SOFM
K4NRT	15	SOFM
AA4ZZ	453,390	LM
WB4WXE	45,552	LM
AA4SC	13,395	LM
W4COV	4,896	LM
N4SVC	300,004	UM
W4IY	169,002	UM
W4NH	167,865	UM
W4UAL	36,855	UM
KC4HW	30,008	UM

Northeast Region

(New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)

KF2MR/R	152,702	R
K2UA/R	85,575	R
K2QO/R	78,987	R
VE2NR/R	3,239	R
NN3Q/R	2,289	R
KØBAK/R	19,401	RL
N2ZBH/R	9,342	RL
AA2SD/R	3,700	RL
WB2SIH/R	2,010	RL
KB1QYH/R	1,140	RL
KG6CIH/R	58,218	RU
KJ1K/R	3,712	RU
WB2VVQ/R	1,846	RU

K1TEO	546,588	SOHP
N2JMH	242,215	SOHP
K1KG	114,816	SOHP
K1RZ	95,645	SOHP
K2TER	95,524	SOHP
N2WK	164,095	SOLP
NR2C	101,574	SOLP
WB1GQR (W1SJ, op)	87,780	SOLP
WA3NUF	69,825	SOLP
KA2ENE	58,652	SOLP
WZ1V	90,720	SO-ALG-HP
W2FU	87,176	SO-ALG-HP
W2KV	26,978	SO-ALG-HP
W1XX	21,436	SO-ALG-HP
AA2A (N2KW, op)	20,020	SO-ALG-HP
AF1T	108,984	SO-ALG-LP
WB2JAY	25,392	SO-ALG-LP
WA3EOQ	22,575	SO-ALG-LP
N3ITT	11,753	SO-ALG-LP
WB2VVV	8,120	SO-ALG-LP
K3GD	4,785	SOP
WX3P	580	SOP
KC3UKC	18	SOP
WB2AMU	1,512	SOP-ALG
K2AXX	624	SOP-ALG
KQ2RP	84	SOP-ALG
KC2PJH	49	SOP-ALG
NU2H	6	SOP-ALG
WN3A	99,372	SO3B
W2JTM	16,261	SO3B
NA2NY	15,876	SO3B
W1BS	12,740	SO3B
K1AFC	12,432	SO3B
VE2BAP	3,277	SO-ALG-3B
K3AU (K2YWE, op)	2,627	SO-ALG-3B
W2LC	1,938	SO-ALG-3B
AJ1G	1,760	SO-ALG-3B
WB2PJH	1,539	SO-ALG-3B
AA2SD	297	SOFM
KB1YNT	280	SOFM
VA2DG	12	SOFM
N2NT	252,984	LM
W2LV	77,700	LM
W3SO	71,575	LM
WA3EKL	47,422	LM
W1QK	33,516	LM
W2SZ	432,450	UM
W3CCX	366,928	UM
KD2LGX	120,640	UM
KV1J	77,779	UM
WE1P	47,128	UM

Affiliated Club Competition

Club	*Score*	*Entries*
Unlimited		
Society of Midwest Contesters	1,565,619	51
Potomac Valley Radio Club	890,207	88
Medium		
Mt Airy VHF Radio Club	1,759,302	34
Rochester VHF Group	1,315,288	23
Arizona VHF Society	889,312	10
DFW Contest Group	686,112	12
Roadrunners Microwave Group	567,825	5
Central Texas DX and Contest Club	547,792	9
Grand Mesa Contesters of Colorado	502,817	16
Carolina DX Association	481,076	8
Arizona Outlaws Contest Club	479,467	22
Florida Contest Group	473,280	17
Northern Lights Radio Society	457,627	17
Northern California Contest Club	451,677	19
Pacific Northwest VHF Society	425,822	34
Southern California Contest Club	409,987	26
Texas DX Society	355,251	7
North East Weak Signal Group	326,850	15
Fourlanders Contest Team	319,530	6
Ontario VHF Association	308,770	11
Contest Club Ontario	290,519	19
Alabama Contest Group	270,478	6
Yankee Clipper Contest Club	238,188	25
South East Contest Club	200,778	9
New Mexico VHF Society	191,673	8
Frankford Radio Club	176,000	20
South West Idaho Amateur Radio Club	172,677	3
Kentucky Contest Group	171,363	9
Willamette Valley DX Club	164,048	5
Florida Weak Signal Society	162,634	5
Great Places Contest Club	126,051	3
Arkansas DX Assn	109,246	8

Badger Contesters	106,248	10
Minnesota Wireless Assn	105,422	16
Tennessee Contest Group	72,967	15
Mad River Radio Club	72,242	7
North Coast Contesters	48,939	5
Radiosport Manitoba	41,433	3
Mississippi Valley DX/Contest Club	34,949	3
Western Washington DX Club	33,399	3
Silver Comet Amateur Radio Society	29,058	6
Michigan VHF-UHF Society	27,828	5
Sierra Foothills ARC	23,898	3
Wayne County Amateur Radio Club	19,285	3
Portage County Amateur Radio Service	18,334	3
Niagara Frontier Radiosport	15,535	6
South Jersey Radio Assn	12,662	5
Western Canada Weak Signal Assoc	11,151	4
Swamp Fox Contest Group	10,589	3
Heartland DX Association	6,012	3
Hudson Valley Contesters and DXers	4,415	4
Convair/220 Amateur Radio Club	4,168	6
Eastern Iowa DX Assn	1,103	3

Local

The Villages Amateur Radio Club	235,356	4
Chippewa Valley VHF Contesters	83,440	4
Stoned Monkey VHF ARC	34,614	3
Eastern Connecticut ARA	34,592	5
Bristol (TN) ARC	31,917	3
CTRI Contest Group	26,945	4
Bolingbrook ARS	26,667	3
Central Ohio Operators Klub	7,232	3
Meriden ARC	4,232	3

QSO and Multiplier Leaders by Category

Classic Rover	
50 MHz QSOs	
ACØRA/R	737
N7GP/R	329
AG4V/R	249
AC7SG/R	155
K7LSX/R	143
50 MHz Mults	
ACØRA/R	249
AG4V/R	121
N7GP/R	88
W5VY/R	69
K7LSX/R	63
144 MHz QSOs	
ACØRA/R	231
N7GP/R	145
VE3OIL/R	84
KF2MR/R	77
K2UA/R	64
144 MHz Mults	
ACØRA/R	71
VE3OIL/R	30
W5VY/R	22
KF2MR/R	21
K2QO/R	15
222 MHz QSOs	
N7GP/R	141
K2UA/R	62
KF2MR/R	56
ACØRA/R	49
K2QO/R	47
222 MHz Mults	
ACØRA/R	17
VE3OIL/R	13
K2QO/R	12
KF2MR/R	9
K2UA/R	8
K7LSX/R	8
N7DSX/R	8
VE3WJ/R	8
W5VY/R	8
432 MHz QSOs	
N7GP/R	149
KF2MR/R	62
K2UA/R	60
ACØRA/R	51
K2QO/R	49
432 MHz Mults	
ACØRA/R	16
K2QO/R	13
KF2MR/R	11
VE3OIL/R	11
K2UA/R	8
VE3WJ/R	8
902 MHz QSOs	
N7GP/R	129
KF2MR/R	56
K2UA/R	54
K2QO/R	37
VE3OIL/R	25
902 MHz Mults	
KF2MR/R	10
VE3OIL/R	10
K2QO/R	9
K7LSX/R	8
N7DSX/R	8
VE3WJ/R	8

1.2 GHz QSOs	
N7GP/R	139
KF2MR/R	60
K2UA/R	55
K2QO/R	39
N7DSX/R	31
1.2 GHz Mults	
KF2MR/R	10
VE3OIL/R	10
K2QO/R	9
VE3WJ/R	8
K7LSX/R	7
N7DSX/R	7
N7GP/R	7
2.3 GHz QSOs	
N7GP/R	60
KF2MR/R	47
K2UA/R	38
K2QO/R	22
VE3OIL/R	19
2.3 GHz Mults	
VE3OIL/R	8
VE3WJ/R	8
KF2MR/R	7
N7GP/R	7
K2QO/R	5
3.4 GHz QSOs	
N7GP/R	33
K2UA/R	29
KF2MR/R	27
K2QO/R	12
N7DSX/R	9
3.4 GHz Mults	
N7GP/R	7
K7LSX/R	6
N7DSX/R	6
K2QO/R	5
VE3OIL/R	5
VE3WJ/R	5
5.7 GHz QSOs	
N7GP/R	34
KF2MR/R	27
K2UA/R	19
VE3OIL/R	11
VE3WJ/R	8
5.7 GHz Mults	
VE3OIL/R	8
VE3WJ/R	8
KF2MR/R	6
N7GP/R	6
K7LSX/R	4
N6TEB/R	4
N7DSX/R	4
10 GHz QSOs	
N7GP/R	45
KF2MR/R	33
K2UA/R	25
K7LSX/R	19
N7DSX/R	18
10 GHz Mults	
VE3OIL/R	8
VE3WJ/R	8
K7LSX/R	7
N7GP/R	7
KF2MR/R	6
N7DSX/R	6
24 GHz QSOs	
VE3OIL/R	6
VE3WJ/R	6

WA2TMC/R	3
24 GHz Mults	
VE3OIL/R	6
VE3WJ/R	6
WA2TMC/R	1
123 GHz QSOs	
VE3OIL/R	6
VE3WJ/R	6
W7GLF/R	3
123 GHz Mults	
VE3OIL/R	6
VE3WJ/R	6
W7GLF/R	1
Light QSOs	
VE3OIL/R	6
VE3WJ/R	6
VA3WBR/R	1
VE2NR/R	1
VE3KGC/R	1
Light Mults	
VE3OIL/R	6
VE3WJ/R	6
VA3WBR/R	1
VE2NR/R	1
VE3KGC/R	1
Limited Rover	
50 MHz QSOs	
AL1VE/R	544
W5TN/R	475
KA5D/R	470
AA5PR/R	359
WR7X/R	264
50 MHz Mults	
AA5PR/R	171
AL1VE/R	171
W5TN/R	168
KA5D/R	166
WR7X/R	115
144 MHz QSOs	
VE3GKT/R	126
W5TN/R	82
KX6A/R	79
KØBAK/R	75
KA5D/R	70
144 MHz Mults	
VE3GKT/R	29
KG9OV/R	26
KØBAK/R	23
K4NO/R	20
KC8JPZ/R	18
222 MHz QSOs	
KA5D/R	63
W5TN/R	59
N6GP/R	35
VE3GKT/R	27
KX6A/R	25
222 MHz Mults	
KA5D/R	12
W5TN/R	12
KG9OV/R	9
AA2SD/R	5
KX6A/R	5
KØBAK/R	5
N6GP/R	5
VE3GKT/R	5
432 MHz QSOs	
KA5D/R	65
W5TN/R	65

KX6A/R	49
VE3GKT/R	48
N6GP/R	26

432 MHz Mults	
KA5D/R	12
W5TN/R	12
VE3GKT/R	9
WB2SIH/R	9
KG9OV/R	8

Unlimited Rover

50 MHz QSOs	
NØLNO/R	507
NV4B/R	364
KØAXX/R	293
KD1RX/R	192
K2EZ/R	133

50 MHz Mults	
NØLNO/R	188
NV4B/R	156
KØAXX/R	127
KD1RX/R	88
K2EZ/R	42

144 MHz QSOs	
K2EZ/R	76
NV4B/R	68
N6UTC/R	61
KG6CIH/R	56
KE6QR/R	54

144 MHz Mults	
NV4B/R	33
KG6CIH/R	11
KØAXX/R	11
KD1RX/R	9
K2EZ/R	8
KE6QR/R	8

222 MHz QSOs	
K2EZ/R	52
N6UTC/R	43
KG6CIH/R	42
NV4B/R	25
KE6QR/R	21

222 MHz Mults	
NV4B/R	14
KG6CIH/R	11
KCØP/R	7
NØHZO/R	7
K2EZ/R	6
KE6QR/R	6

432 MHz QSOs	
K2EZ/R	68
N6UTC/R	50
KG6CIH/R	44
KE6QR/R	37
NV4B/R	26

432 MHz Mults	
NV4B/R	13
KG6CIH/R	11
KCØP/R	7
NØHZO/R	7
K2EZ/R	6
KE6QR/R	6
N6UTC/R	6

902 MHz QSOs	
KG6CIH/R	20
K2EZ/R	13
KCØP/R	11
VE3SST/R	10
NØHZO/R	8

902 MHz Mults

KCØP/R	6
KG6CIH/R	6
NØHZO/R	5
KJ1K/R	4
VE3SST/R	4

1.2 GHz QSOs

KG6CIH/R	28
K2EZ/R	18
VE3SST/R	11
KCØP/R	10
N6UTC/R	10

1.2 GHz Mults

KG6CIH/R	9
KCØP/R	5
KJ1K/R	4
NV4B/R	4
NØHZO/R	4
VE3SST/R	4

2.3 GHz QSOs

KG6CIH/R	16
K2EZ/R	8
KJ1K/R	5
WB2VVQ/R	2
WC7M/R	1

2.3 GHz Mults

KG6CIH/R	7
K2EZ/R	3
KJ1K/R	3
WB2VVQ/R	2
WC7M/R	1

3.4 GHz QSOs

KG6CIH/R	14
K2EZ/R	5
KJ1K/R	4
WB2VVQ/R	2

3.4 GHz Mults

KG6CIH/R	7
K2EZ/R	3
KJ1K/R	3
WB2VVQ/R	2

5.7 GHz QSOs

KJ1K/R	3
KG6CIH/R	2
WB2VVQ/R	2
WC7M/R	1

5.7 GHz Mults

KJ1K/R	2
WB2VVQ/R	2
KG6CIH/R	1
WC7M/R	1

10 GHz QSOs

VE3SST/R	9
KG6CIH/R	8
VE7AFZ/R	2

10 GHz Mults

VE3SST/R	3
KG6CIH/R	2
VE7AFZ/R	1

24 GHz QSOs

KG6CIH/R	2
VE3SST/R	2

24 GHz Mults

KG6CIH/R	1
VE3SST/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	
W5PR	1181
K1TO	1048
N4OGW	848
N5RZ	818
K2PS	793
50 MHz Mults	
N4OGW	269
W5LO	266
W7EW	249
K2PS	245
N5RZ	241
144 MHz QSOs	
K1TEO	250
K1RZ	168
N2JMH	133
K9CT	129
K8MM	123
144 MHz Mults	
K9CT	60
K1RZ	55
K1TEO	54
W9FF	53
K8MM	52
222 MHz QSOs	
K1TEO	82
N2JMH	39
VE3ZV	30
K1KG	26
K1TR	26
222 MHz Mults	
K1TEO	37
VE3ZV	17
N2JMH	14
K1KG	12
K1TR	12
K3SK	12
WA3DRC	12
432 MHz QSOs	
K1TEO	104
N2JMH	44
VA3IKE	40
K1TR	32
VE3ZV	32
432 MHz Mults	
K1TEO	35
VA3IKE	30
W9FF	17
N2JMH	16
N3MK	16
902 MHz QSOs	
K1TEO	35
N2JMH	27
N1AV	23
K2TER	18
K2DH	15

N7VD	15
902 MHz Mults	
K1TEO	24
N1AV	11
N2JMH	9
K1KG	7
K2TER	6
N7VD	6
VE3ZV	6
1.2 GHz QSOs	
K1TEO	44
N1AV	36
N2JMH	29
K2TER	20
N7VD	20
1.2 GHz Mults	
K1TEO	24
N1AV	21
N2JMH	10
W2BVH	8
K1KG	7
K1TR	7
N7VD	7
2.3 GHz QSOs	
N2JMH	21
N1AV	19
N7VD	16
K2TER	15
K1KG	11
VE3ZV	11
2.3 GHz Mults	
N1AV	8
N2JMH	7
K1KG	6
VE3ZV	6
K2TER	5
N7VD	5
3.4 GHz QSOs	
N2JMH	17
K2TER	12
K1TEO	11
K1KG	9
N1AV	7
3.4 GHz Mults	
K1TEO	9
N1AV	7
K1KG	6
N2JMH	5
K2TER	4
5.7 GHz QSOs	
N2JMH	17
K1TEO	8
N1AV	8
K2TER	6
N7VD	6
5.7 GHz Mults	
K1TEO	8
N1AV	6
K1KG	5
N2JMH	5
N7VD	5
10 GHz QSOs	
N1AV	19
N2JMH	17
N7VD	15
K2TER	11
K1TEO	6
10 GHz Mults	
N1AV	7

K1TEO	6
K1KG	5
N2JMH	5
N7VD	5

Single Operator, Low Power

50 MHz QSOs	
WB5TUF	555
KM5RG	547
K2DRH	471
KFØIDT	463
WR7AY	458

50 MHz Mults	
WB5TUF	206
K2DRH	203
KM5RG	198
NIØP	196
KBØNAV	187

144 MHz QSOs	
WB1GQR (W1SJ, op)	143
N2SCJ	108
N2WK	105
W8DPK	96
WA3NUF	93

144 MHz Mults	
K2DRH	48
W8DPK	42
N2WK	41
K9KLD	40
KA2ENE	30
N2SCJ	30
N4HB	30
WA3NUF	30

222 MHz QSOs	
AG6X	41
N2WK	38
KA2ENE	35
WB1GQR (W1SJ, op)	35
WA3NUF	29

222 MHz Mults	
WA3NUF	15
WB1GQR (W1SJ, op)	15
AG6X	14
N2WK	13
K2DRH	11

432 MHz QSOs	
AG6X	55
N2WK	45
WB1GQR (W1SJ, op)	44
KA2ENE	39
WA3NUF	30

432 MHz Mults	
K9KLD	16
AG6X	15
WA3NUF	15
WB1GQR (W1SJ, op)	14
KF7NN	13

902 MHz QSOs	
N2WK	30
KA2ENE	20
NR2C	20
AG6X	13
N2OA	13

902 MHz Mults	
AG6X	12
N2WK	9
WB1GQR (W1SJ, op)	9
NR2C	6
WA3NUF	6

1.2 GHz QSOs

N2WK	33
NR2C	24
N7IR	22
WB1GQR (W1SJ, op)	21
KA2ENE	19
1.2 GHz Mults	
AG6X	12
WB1GQR (W1SJ, op)	11
N2WK	9
N7IR	7
WA3NUF	7
2.3 GHz QSOs	
N2WK	22
NR2C	14
N2OA	10
K5TRA	8
AG6X	6
2.3 GHz Mults	
N2WK	7
AG6X	6
K5TRA	5
NR2C	5
N2OA	4
WB1GQR (W1SJ, op)	4
3.4 GHz QSOs	
N2WK	11
N2OA	7
NR2C	7
WA3NUF	5
WB1GQR (W1SJ, op)	5
3.4 GHz Mults	
N2WK	5
WA3NUF	4
WB1GQR (W1SJ, op)	4
N2OA	3
NR2C	3
5.7 GHz QSOs	
N2WK	15
NR2C	8
N2OA	5
AG6X	3
KIØE	3
5.7 GHz Mults	
N2WK	6
AG6X	3
N2OA	3
NR2C	3
KIØE	2
10 GHz QSOs	
N2WK	23
NR2C	19
AG6X	8
AG6QV	4
N2OA	4
VE3SMA	4
10 GHz Mults	
AG6X	8
N2WK	7
NR2C	6
N2OA	3
NIØP	2
24 GHz QSOs	
N2WK	4
24 GHz Mults	
N2WK	3
123 GHz QSOs	
AG6QV	3

123 GHz Mults	
AG6QV	1

Light QSOs	
WB3IGR	2

Light Mults	
WB3IGR	1

Single Operator, Analog Only, High Power

50 MHz QSOs	
W9RM	778
K4WI	635
N5TJ	583
WWØR	558
WA2VYA	522

50 MHz Mults	
W9RM	213
NR7T	182
WWØR	180
N5TJ	167
NU6S	165

144 MHz QSOs	
W2KV	99
WZ1V	87
NU6S	64
N6KN	55
W2FU	45

144 MHz Mults	
W2KV	31
WZ1V	24
N1GC	23
W3IP	21
WØUC	20

222 MHz QSOs	
WZ1V	48
W2FU	42
N6KN	25
K5LLL	23
N1JEZ	21

222 MHz Mults	
WZ1V	21
W2FU	16
VE3KG	15
N1GC	13
N1JEZ	12

432 MHz QSOs	
WZ1V	54
W2FU	44
NU6S	43
N6KN	42
W2KV	36

432 MHz Mults	
WZ1V	17
W2FU	16
W3IP	15
W2KV	14
K5LLL	13

902 MHz QSOs	
W2FU	26
K5LLL	6
W1GHZ	6
WØUC	5
N1JEZ	4
WA1PBU	4

902 MHz Mults	
W2FU	10
W1GHZ	6
K5LLL	5
WØUC	5

N1JEZ	4

1.2 GHz QSOs

W2FU	30
WZ1V	22
WA1PBU	10
K5LLL	9
K6WIS	8
N1JEZ	8
N6KN	8

1.2 GHz Mults

W2FU	12
WZ1V	12
K5LLL	8
N1JEZ	5
N6KN	5
W1GHZ	5
W3IP	5
WØUC	5

2.3 GHz QSOs

W2FU	24
WA1PBU	2
K5LLL	1
N1JEZ	1
WØUC	1

2.3 GHz Mults

W2FU	9
K5LLL	1
N1JEZ	1
WA1PBU	1
WØUC	1

3.4 GHz QSOs

WØUC	1

3.4 GHz Mults

WØUC	1

5.7 GHz QSOs

WØUC	1

5.7 GHz Mults

WØUC	1

10 GHz QSOs

W2FU	17
KD7UO	3
W3IP	3
K5LLL	1
WØGHZ	1
WØUC	1

10 GHz Mults

W2FU	5
KD7UO	2
W3IP	2
K5LLL	1
WØGHZ	1
WØUC	1

Single Operator, Analog Only, Low Power

50 MHz QSOs

AB5EB	536
N4OX	473
N5BO	405
KAØPQW	315
N4IS	241

50 MHz Mults

AB5EB	160
N4OX	136
KAØPQW	133
N5BO	115
N4IS	114

144 MHz QSOs

N3ITT	77
AF1T	76
WB2CUT	49
N6ZE	47
N7KN	47
WB2JAY	47

144 MHz Mults

N3ITT	29
KG9AP	23
VE3DS	20
WA3EOQ	20
AF1T	19

222 MHz QSOs

AF1T	42
VE3DS	32
WB2JAY	23
WA3EOQ	20
AC1J	15
WB2VVV	15

222 MHz Mults

VE3DS	17
AF1T	16
WA3EOQ	16
WB2JAY	12
KG9AP	11

432 MHz QSOs

AF1T	55
VE3DS	35
N7RK	30
WB2JAY	27
K2GMY	24
N6ZE	24

432 MHz Mults

VE3DS	17
AF1T	15
WA3EOQ	15
KG9AP	12
WB2JAY	10

902 MHz QSOs

AF1T	19
VE3DS	18
WA3EOQ	6
W4RAA	5
WB2JAY	4

902 MHz Mults

AF1T	10
VE3DS	7
WA3EOQ	6
WB2JAY	4
W4RAA	2

1.2 GHz QSOs

AF1T	27
N7RK	20
VE3DS	20
AC1J	9
WB2JAY	9

1.2 GHz Mults

AF1T	12
VE3DS	8
WA3EOQ	7
WB2JAY	7
K2LNS	6

2.3 GHz QSOs

AF1T	14
VE3DS	7
WB2JAY	2
W3GAD	1

2.3 GHz Mults

AF1T	7

VE3DS	4
WB2JAY	2
W3GAD	1

3.4 GHz QSOs

AF1T	12
VE3DS	5
WB2JAY	1

3.4 GHz Mults

AF1T	6
VE3DS	3
WB2JAY	1

5.7 GHz QSOs

AF1T	7

5.7 GHz Mults

AF1T	5

10 GHz QSOs

AF1T	9
VA3ELE	6
KBØZOM	3
VA7SC	1
VE7HR	1
WJ7L	1

10 GHz Mults

AF1T	5
KBØZOM	3
VA3ELE	2
VA7SC	1
VE7HR	1
WJ7L	1

24 GHz QSOs

AF1T	2

24 GHz Mults

AF1T	1

47 GHz QSOs

AF1T	2

47 GHz Mults

AF1T	1

123 GHz QSOs

AF1T	2

123 GHz Mults

AF1T	1

Light QSOs

AF1T	2

Light Mults

AF1T	1

Single Operator, Portable

50 MHz QSOs

WA4AUG (AA5JF, op)	198
KC6NKK	163
NØJK	93
AB4DX	72
N8XA	66

50 MHz Mults

WA4AUG (AA5JF, op)	112
KC6NKK	105
NØJK	78
AB4DX	48
N8XA	42

144 MHz QSOs

K3GD	36
AB4DX	17
KC6NKK	16
AF5T	14

KK4BZ	14

144 MHz Mults

K3GD	19
AB4DX	14
KC6NKK	9
KK4BZ	8
WX3P	5

222 MHz QSOs

AF5T	8
AB4DX	3
KC6NKK	1

222 MHz Mults

AF5T	4
AB4DX	3
KC6NKK	1

432 MHz QSOs

AF5T	8
WQ6D	8
KC6NKK	5
WX3P	5
KK4BZ	1
NØSUW	1
WA4AUG (AA5JF, op)	1

432 MHz Mults

WQ6D	5
WX3P	5
AF5T	4
KC6NKK	4
KK4BZ	1
NØSUW	1
WA4AUG (AA5JF, op)	1

902 MHz QSOs

KC6NKK	1

902 MHz Mults

KC6NKK	1

1.2 GHz QSOs

WQ6D	3

1.2 GHz Mults

WQ6D	2

Single Operator, Portable, Analog Only

50 MHz QSOs

AI6US	83
N3AWS	75
N4DLA	60
K6MI	36
AA6XA	32

50 MHz Mults

N3AWS	52
N4DLA	30
AI6US	28
AKØM	23
K6MI	21

144 MHz QSOs

AI6US	106
AA6XA	30
KE6GLA	27
N4DLA	24
KF7NP	17
KM6SJO	17

144 MHz Mults

AI6US	8
AA6XA	7
K6MI	6
KE6GLA	6
N4DLA	6
W9SZ	6

222 MHz QSOs	
AI6US	24
N4DLA	12
K6MI	10
KF7NP	10
KAØCRO	5
WB2AMU	5

222 MHz Mults	
K6MI	7
AI6US	6
N4DLA	5
W9SZ	4
KAØCRO	3

432 MHz QSOs	
AI6US	61
N4DLA	25
K6MI	22
KE6GLA	15
KF7NP	15

432 MHz Mults	
K6MI	9
AI6US	6
KE6GLA	6
N4DLA	6
W9SZ	6

902 MHz QSOs	
K6MI	5
KAØCRO	2
AA6XA	1

902 MHz Mults	
K6MI	3
AA6XA	1
KAØCRO	1

1.2 GHz QSOs	
AI6US	7
K6MI	7
N4DLA	7
AA6XA	6
KE6GLA	5

1.2 GHz Mults	
KE6GLA	5
N4DLA	5
AA6XA	4
AI6US	4
K6MI	4

2.3 GHz QSOs	
K6MI	2
K9PW	1

2.3 GHz Mults	
K6MI	1
K9PW	1

3.4 GHz QSOs	
K9PW	1

3.4 GHz Mults	
K9PW	1

5.7 GHz QSOs	
K6MI	2
K9PW	1

5.7 GHz Mults	
K6MI	1
K9PW	1

10 GHz QSOs	
K2AXX	4
K6MI	2
AA9IL	1
K9PW	1

N9YH	1

10 GHz Mults

K2AXX	2
AA9IL	1
K6MI	1
K9PW	1
N9YH	1

24 GHz QSOs

K6MI	2
AA9IL	1
K9PW	1

24 GHz Mults

AA9IL	1
K6MI	1
K9PW	1

47 GHz QSOs

K9PW	1

47 GHz Mults

K9PW	1

123 GHz QSOs

NØCYT	3
K6MI	2
AA9IL	1
K9PW	1

123 GHz Mults

AA9IL	1
K6MI	1
K9PW	1
NØCYT	1

Light QSOs

K6MI	2

Light Mults

K6MI	1

Single Operator, 3 Band

50 MHz QSOs

WQ5L	700
KO9A	539
NØUR	496
K6EI	461
KØNR	420

50 MHz Mults

KO9A	209
WQ5L	209
K6EI	204
K7BG	199
NS4T	187

144 MHz QSOs

WN3A	113
KO9A	110
N8HRZ	91
NE2U	71
AB8M	64

144 MHz Mults

KO9A	48
N8HRZ	42
WN3A	41
KK4MA	33
NA2NY	30

432 MHz QSOs

VE3IMU	29
KO9A	21
KD2CDV	20
KI1P	17
N8HRZ	17

432 MHz Mults

KO9A	12
N8HRZ	11
WN3A	11
AB8M	10
KD2CDV	10

Single Operator, Analog Only, 3 Band

50 MHz QSOs	
AD5A	538
K4BAI	311
KØXF	303
KI5YG	225
AI6O	224

50 MHz Mults	
AD5A	154
KØXF	124
K4BAI	109
KI5YG	107
KEØKKD	106

144 MHz QSOs	
N7QOZ	47
VA3CJZ	41
VE2BAP	41
K7CX	39
AD5A	38

144 MHz Mults	
AD5A	13
KEØKKD	10
K7CX	8
N7QOZ	8
K6YK	7
N4TWX	7

432 MHz QSOs	
AD5A	32
VA3CJZ	32
N7QOZ	31
WB6HYH	28
VE2BAP	19

432 MHz Mults	
AD5A	10
N7QOZ	7
K6YK	6
WB6HYH	6
KB6A	4
N1JD	4
N4TWX	4
VE2BAP	4
WB9HFK	4
WD6E	4

Single Operator, FM Only

50 MHz QSOs	
KB1YNT	8
AA2SD	5
AF6GM	4
KN6YCX (W6JFA, op)	4
W6JFA	4

50 MHz Mults	
AA2SD	3
AF6GM	2
KI4POT	2
KN6YCX (W6JFA, op)	2
W6JFA	2

144 MHz QSOs	
VE3RWJ	56
K1CT	40
KB1YNT	34
AF6GM	26
K6JO	26

144 MHz Mults	
W6JFA	7
KN6YCX (W6JFA, op)	6

K6JO	5
KI4POT	4
VE3RWJ	4
222 MHz QSOs	
K1CT	19
K6JO	12
KO6BT	6
KN6FKQ	4
N6DRE	4
222 MHz Mults	
K1CT	4
K6JO	4
AA2SD	2
KO6BT	2
N6DRE	2
432 MHz QSOs	
VE3RWJ	39
K1CT	25
K6JO	21
AF6GM	17
KL4LJ	13
432 MHz Mults	
K6JO	5
VE3RWJ	4
AA2SD	3
KN6YCX (W6JFA, op)	3
W6JFA	3

Limited Multioperator

50 MHz QSOs	
K5QE	805
AA4ZZ	689
WB9Z	509
N2NT	449
N7T	421
50 MHz Mults	
K5QE	261
AA4ZZ	237
WB9Z	193
N7T	182
WY7DT	175
144 MHz QSOs	
N2NT	320
AA4ZZ	280
W2LV	173
W3SO	153
K5QE	123
144 MHz Mults	
AA4ZZ	70
K5QE	67
N2NT	64
KE8FD	57
W3SO	54
222 MHz QSOs	
N2NT	56
AA4ZZ	49
KE8FD	23
W2LV	16
W6MMM	13
222 MHz Mults	
AA4ZZ	33
N2NT	24
KE8FD	21
W2LV	9
WB9Z	6
432 MHz QSOs	
AA4ZZ	83
N2NT	67
KE8FD	41
W2LV	23

W6MMM	21
WA3EKL	21

432 MHz Mults	
AA4ZZ	41
KE8FD	27
N2NT	24
W9VW	14
WA3EKL	13

1.2 GHz QSOs	
K5QE	14
WO1S	4

1.2 GHz Mults	
K5QE	14
WO1S	3

Unlimited Multioperator

50 MHz QSOs	
N4SVC	620
W9XA	569
W3CCX	498
W2SZ	469
W4IY	457

50 MHz Mults	
N4SVC	255
W4NH	220
N6RO	194
WQØP	183
W9XA	178

144 MHz QSOs	
W2SZ	275
W3CCX	213
W4IY	204
W9XA	170
N8GA	159

144 MHz Mults	
W9XA	67
N8GA	64
W2SZ	60
N4SVC	57
W4IY	57

222 MHz QSOs	
W3CCX	69
W2SZ	63
KD2LGX	33
W9XA	30
N8GA	29
VE3MIS	29

222 MHz Mults	
W3CCX	30
W2SZ	23
N8GA	19
VE3MIS	19
W9XA	18

432 MHz QSOs	
W2SZ	108
W3CCX	106
K7SWI	79
VE3MIS	57
KD2LGX	43

432 MHz Mults	
W2SZ	30
W3CCX	30
VE3MIS	26
KD2LGX	20
N4SVC	20
N8GA	20
W9XA	20

902 MHz QSOs	
KD2LGX	17

W3CCX	17
W2SZ	14
VE3WCC	5
W9XA	5
902 MHz Mults	
W3CCX	11
KD2LGX	7
W2SZ	7
N4SVC	4
W9XA	3
1.2 GHz QSOs	
W2SZ	30
W3CCX	26
KD2LGX	24
N6RO	13
W4NH	12
1.2 GHz Mults	
W2SZ	16
W3CCX	16
W4NH	12
KD2LGX	9
N4SVC	7
2.3 GHz QSOs	
VE3WCC	16
W2SZ	15
W3CCX	15
KD2LGX	9
K7SWI	5
2.3 GHz Mults	
W2SZ	12
W3CCX	10
KD2LGX	6
KV1J	2
K7SWI	1
VE3WCC	1
W9XA	1
3.4 GHz QSOs	
W2SZ	12
VE3WCC	7
W3CCX	7
W9XA	1
3.4 GHz Mults	
W2SZ	8
W3CCX	6
VE3WCC	1
W9XA	1
5.7 GHz QSOs	
VE3WCC	14
W2SZ	13
W3CCX	7
K7SWI	5
W4NH	1
W9XA	1
5.7 GHz Mults	
W2SZ	11
W3CCX	6
K7SWI	1
VE3WCC	1
W4NH	1
W9XA	1
10 GHz QSOs	
WQØP	12
W2SZ	11
VE3MIS	8
VE3WCC	8
W3CCX	6
10 GHz Mults	
W2SZ	11
WQØP	11

W3CCX	6
VE3MIS	4
N9UHF	1
VE3WCC	1
W4NH	1
W9XA	1

24 GHz QSOs

N9UHF	1
VE3WCC	1
W9XA	1

24 GHz Mults

N9UHF	1
VE3WCC	1
W9XA	1

47 GHz QSOs

W9XA	2

47 GHz Mults

W9XA	1

123 GHz QSOs

N9UHF	1
W9XA	1

123 GHz Mults

N9UHF	1
W9XA	1

Light QSOs

VE3WCC	12

Light Mults

VE3WCC	1

Checklog

50 MHz QSOs

N8ECI	113
KA2MGE	65
N5GG	5

50 MHz Mults

N8ECI	82
KA2MGE	42
N5GG	5

144 MHz QSOs

N8ECI	79

144 MHz Mults

N8ECI	50

432 MHz QSOs

N8ECI	6

432 MHz Mults

N8ECI	4