



# 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 later in this article. Please consider sponsoring a plaque for next year's contest.

## Category Results — Single Operator

### Single Operator, High Power

Station	Score	Grid
<b>K1TEO</b>	546,588	FN31
<b>N4OGW</b>	284,666	EM53
<b>W5PR</b>	269,352	EL29
<b>N1AV</b>	257,660	DM43
<b>N2JMH</b>	242,215	FN12
<b>K1TO</b>	226,066	EL87
<b>K9CT</b>	223,652	EN50
<b>N5RZ</b>	194,005	EM00
<b>K2PS</b>	190,855	EL98
<b>W5LO</b>	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 3<sup>rd</sup> 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
<b>W9RM</b>	166,656	DM58
<b>WWØR</b>	98,280	DM79
<b>NU6S</b>	97,527	CM87
<b>K4WI</b>	96,866	EM62
<b>N5TJ</b>	96,192	EM10
<b>NR7T</b>	91,945	DM37
<b>WZ1V</b>	90,720	FN31
<b>W2FU</b>	87,176	FN13
<b>WA2VYA</b>	77,824	EM10
<b>W3IP</b>	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
<b>K2DRH</b>	171,920	EN41
<b>N2WK</b>	164,095	FN13
<b>AG6X</b>	143,220	DM12
<b>KM5RG</b>	130,402	EL09
<b>WB5TUF</b>	122,640	EL29
<b>N7IR</b>	102,780	DM43
<b>NR2C</b>	101,574	FN03
<b>K9KLD</b>	99,216	EM58
<b>WB1GQR</b> (W1SJ op)	87,780	FN33
<b>KFØIDT</b>	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
<b>AF1T</b>	108,984	FN43
<b>AB5EB</b>	105,610	EL09
<b>N4OX</b>	63,920	EM60
<b>KAØPQW</b>	54,978	EN33
<b>N5BO</b>	46,115	EM60
<b>VE3DS</b>	38,582	FN03
<b>N4IS</b>	36,309	EL96
<b>K2GMY</b>	35,742	CM88
<b>KEØIZE</b>	30,000	EN41
<b>KG9AP</b>	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
<b>WA4AUG</b> (AA5JF op)	23,200	EM83
<b>KC6NKK</b>	22,800	DM15
<b>NØJK</b>	6,864	EM28
<b>AB4DX</b>	5,720	EM73
<b>K3GD</b>	4,785	FN11
<b>N8XA</b>	2,688	EM89
<b>NØSUW</b>	1,768	EN35
<b>N4IJ</b>	1,656	EM95
<b>WQ6D</b>	1,593	DM04
<b>AF5T</b>	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
<b>AI6US</b>	19,344	CM99
<b>K6MI</b>	10,640	DM05
<b>N4DLA</b>	8,736	CM87
<b>N3AWS</b>	3,692	EM50
<b>AA6XA</b>	3,276	CM88
<b>KE6GLA</b>	2,256	CM98
<b>W9SZ</b>	2,016	EN50
<b>WB2AMU</b>	1,512	FN30
<b>KF7NP</b>	1,440	DM12
<b>K2AXX</b>	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
<b>KO9A</b>	182,920	EN52
<b>WQ5L</b>	148,944	EM50
<b>NØUR</b>	103,828	EN33
<b>WN3A</b>	99,372	FN10
<b>KØNR</b>	95,546	DM78
<b>K6EI</b>	93,024	DN18
<b>K7BG</b>	79,401	DN94
<b>NS4T</b>	79,373	EM73
<b>KØVG</b>	75,264	EN27
<b>CO2QU</b>	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
<b>AD5A</b>	112,041	EL09
<b>KØXF</b>	40,576	DM79
<b>K4BAI</b>	33,572	EM72
<b>KEØKKD</b>	23,985	EN31
<b>KI5YG</b>	23,861	EM10
<b>AI6O</b>	20,273	EM29
<b>WB9HFK</b>	14,355	EN50
<b>NØXR</b>	10,880	EN31
<b>N8II</b>	10,758	FM19
<b>WB6HYH</b>	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
<b>K6JO</b>	1,260	DM13
<b>VE3RWJ</b>	1,064	FN03
<b>K1CT</b>	1,008	DM12
<b>W6JFA</b>	468	CM97
<b>AF6GM</b>	420	DM12
<b>KN6YCX</b> (W6JFA op)	352	CM97
<b>AA2SD</b>	297	FM29
<b>KB1YNT</b>	280	FN31
<b>KI4POT</b>	176	FM08
<b>KO6BT</b>	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
<b>ACØRA/R</b>	406,029	EM59 EM69 EN31 EN32 EN50 EN60
<b>N7GP/R</b>	361,030	DM31 DM32 DM33 DM34 DM35 DM42 DM43 DM44
<b>KF2MR/R</b>	152,702	FN02 FN03 FN12 FN13 FN22 FN23
<b>VE3OIL/R</b>	134,121	EN81 EN82 EN92 EN93 FN02 FN03 FN04 FN13 FN14
<b>K2UA/R</b>	85,575	FN02 FN03 FN12 FN13
<b>K7LSX/R</b>	80,391	DM32 DM33 DM34 DM42 DM43
<b>K2QO/R</b>	78,987	FN02 FN03 FN12 FN13 FN22 FN23
<b>N7DSX/R</b>	62,816	DM32 DM33 DM34 DM42 DM43
<b>AG4V/R</b>	55,950	EM44 EM45 EM54 EM55 EM56 EM65 EM66
<b>VE3WJ/R</b>	38,962	EN81 EN82 EN92 EN93 FN03 FN04 FN13 FN14

ACØRA/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
<b>W5TN/R</b>	171,288	EL08 EL09 EL18 EL19 EM00 EM01 EM02 EM10 EM11 EM12
<b>KA5D/R</b>	164,369	EL08 EL09 EL18 EL19 EM00 EM01 EM02 EM10 EM11 EM12
<b>AL1VE/R</b>	94,691	DM88 DM89 DM96 DM97 DM99 EM06 EM08 EM09
<b>AA5PR/R</b>	60,896	DM55 DM66
<b>KG9OV/R</b>	56,024	EM58 EM79 EN50 EN51 EN60 EN61 EN70
<b>KX6A/R</b>	39,690	DM03 DM04 DM13 DM14
<b>VE3GKT/R</b>	39,168	EN92 EN93 EN94 FN02 FN03 FN04
<b>N6GP/R</b>	37,948	DM03 DM04 DM13 DM14
<b>WR7X/R</b>	31,944	DN04 DN05 DN14 DN15
<b>W3DHJ/R</b>	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
<b>NV4B/R</b>	128,436	EM52 EM53 EM54 EM55 EM62 EM63 EM64 EM65
<b>NØLNO/R</b>	91,584	DN92 DN93 EN02 EN03
<b>KG6CIH/R</b>	58,218	FN31 FN32 FN33 FN41 FN42 FN43
<b>K2EZ/R</b>	48,298	EL08 EL09 EL18 EL19 EL29 EM00 EM10 EM20
<b>KØAXX/R</b>	48,032	EL29 EL39 EM10 EM11 EM20 EM21 EM22 EM31 EM32
<b>N6UTC/R</b>	21,830	DM03 DM04 DM13 DM14
<b>KD1RX/R</b>	19,701	CN94 CN95
<b>KE6QR/R</b>	8,892	CM88 CM97 CM98
<b>KCØP/R</b>	8,880	EN33 EN34 EN35 EN43
<b>NØHZO/R</b>	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
<b>AA4ZZ</b>	453,390	EM96
<b>K5QE</b>	339,500	EM31
<b>N2NT</b>	252,984	FN20
<b>WB9Z</b>	135,470	EN60
<b>KE8FD</b>	130,680	EN80
<b>W9VW</b>	96,086	EM79
<b>N7T</b>	83,136	DN75
<b>WY7DT</b>	79,849	DN74
<b>W2LV</b>	77,700	FN21
<b>W3SO</b>	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
<b>W2SZ</b>	432,450	FN32
<b>W3CCX</b>	366,928	FN21
<b>N4SVC</b>	300,004	EM80
<b>W9XA</b>	275,872	EN51
<b>W4IY</b>	169,002	FM08
<b>W4NH</b>	167,865	EM84
<b>N8GA</b>	154,365	EN80
<b>WQØP</b>	136,584	EM19
<b>VE3MIS</b>	134,640	FN03
<b>K7SWI</b>	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:** K14US, 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>

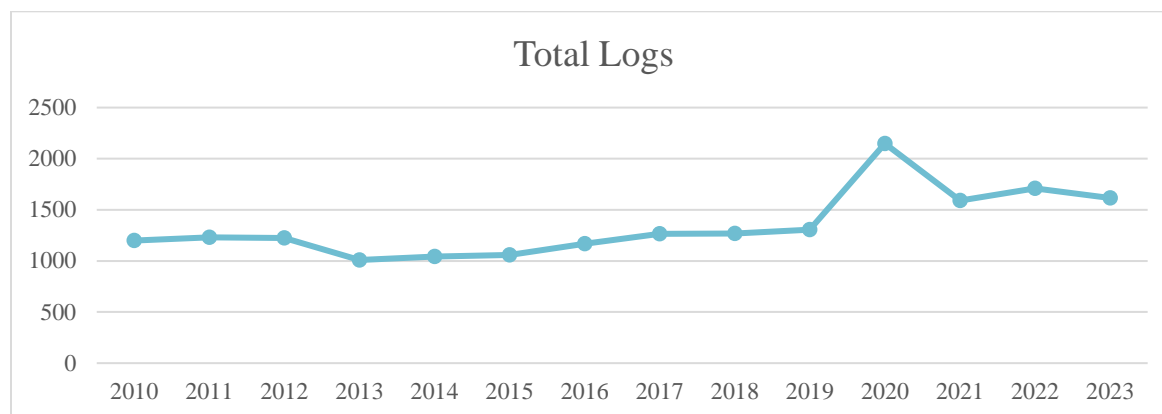
**The next ARRL June VHF contest will be held on June 8-10, 2024. For full rules and contest details, visit [www.arrl.org/june-vhf](http://www.arrl.org/june-vhf)**

**There's more on the web!**

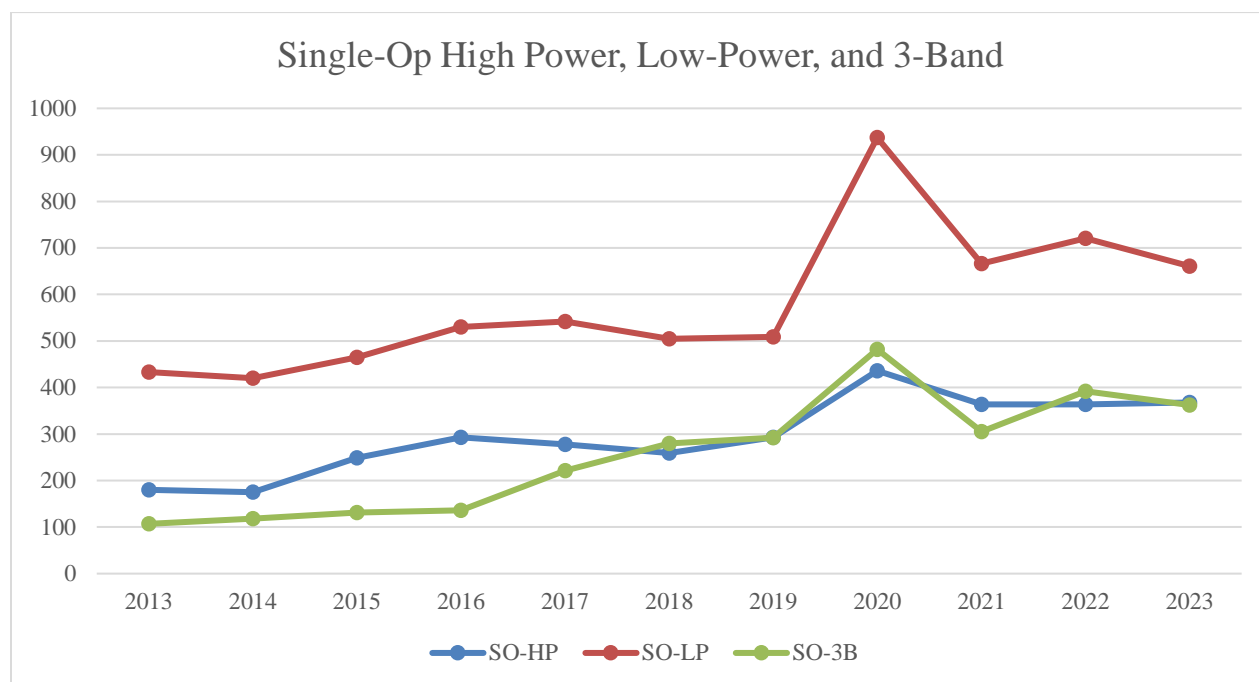
For complete line scores, full contest results articles, photos, downloadable certificates and more, visit the ARRL contest portal at [CONTESTS.ARRL.ORG](http://CONTESTS.ARRL.ORG)

## 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.



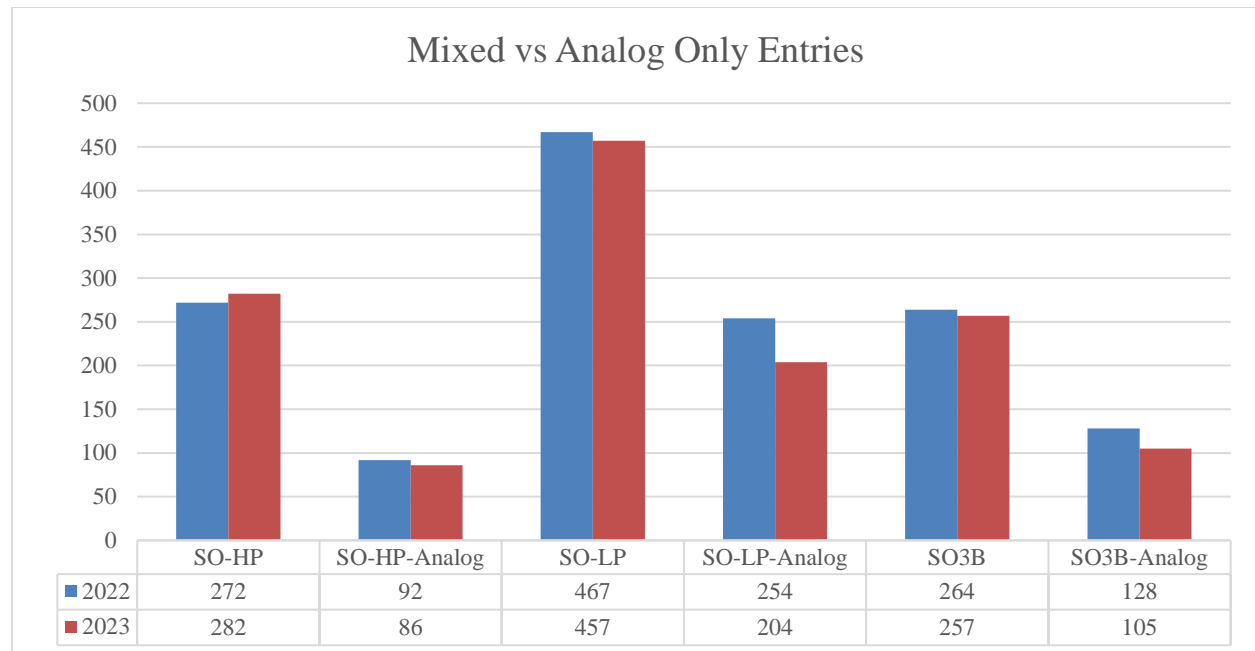
This next chart runs the numbers from 2013, the start of the Single Operator – 3 Band category, through 2023. For this analysis, it adds the analog-only categories of the last two years, pulling all the logs together for high-power, low-power, and three-band.





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.

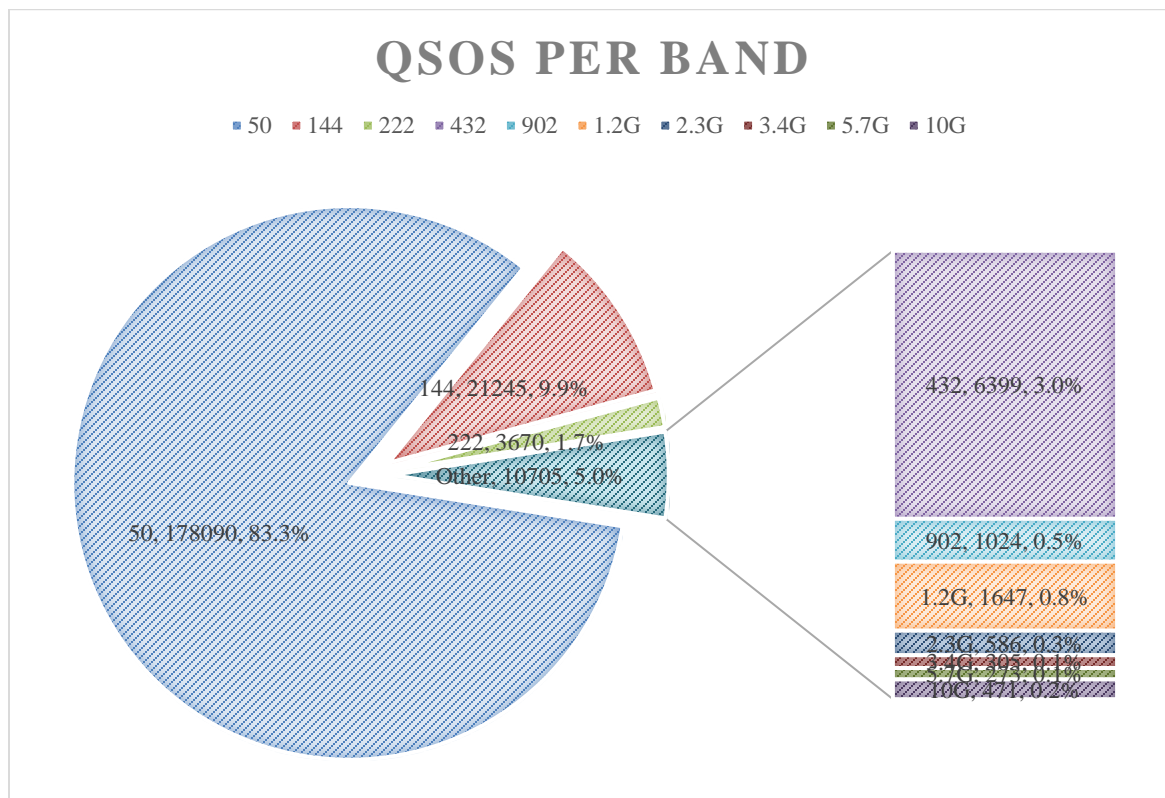
	2021	2022	2023
<b>SOHP</b>	364	272	282
<b>SOHP-Analog</b>		92	86
<b>Total</b>	364	364	368
<b>SOLP</b>	666	467	457
<b>SOLP-Analog</b>		254	204
<b>Total</b>	666	721	661
<b>SO3B</b>	305	264	257
<b>SO3B-Analog</b>		128	28
<b>Total</b>	305	392	285

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 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
<b>Rover</b>	32	33	52	40	37	28
<b>Rover Limited</b>	52	57	68	62	44	47
<b>Rover Unlimited</b>	8	14	10	15	11	18
<b>Single Op Portable</b>	29	31	52	50	26	21
<b>Single Op Portable Analog</b>					24	28
<b>Single Op FM Only</b>	23	25	51	51	21	21
<b>Limited Multioperator</b>	42	27	36	33	37	32
<b>Unlimited Multioperator</b>	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.

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.



Figure 4 - KD9NZB in operation at AA9RK/R

## **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.

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)



Figure 5 - KØAAX/R

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 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. 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. 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 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.**

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.



Figure 7 - KE4WMF/R

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.

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.



Figure 8 - KE4WMF/R handy operating position.

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

## 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](mailto: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	KO9A
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	KD9NVE	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
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**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	WB2PIH	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	Midwest	NØMA	8,850
Southwestern	WB6HYH	10,065	New England	W1QK	33,516
West Gulf	AD5A	112,041	Northwestern	N7T	83,136
Canada	VE2BAP	3,277	Pacific	W6MMM	3,660
			Roanoke	AA4ZZ	453,390
<b>Single Operator, FM Only</b>			Rocky Mountain	WY7DT	79,849
Atlantic	AA2SD	297	Southeastern	WB4WXE	45,552
Central	KE2BKJ	6	Southwestern	N6MI	22,848
Delta	K4NRT	15	West Gulf	K5QE	339,500
New England	KB1YNT	280			
Northwestern	KL4LJ	120	<b>Unlimited Multioperator</b>		
Pacific	W6JFA	468	Atlantic	W3CCX	366,928
Roanoke	KI4POT	176	Central	W9XA	275,872
Southeastern	K3TW	27	Great Lakes	N8GA	154,365
Southwestern	K6JO	1,260	Hudson	WE1P	47,128
West Gulf	KG5UNK	10	Midwest	WQØP	136,584
Canada	VE3RWJ	1,064	New England	W2SZ	432,450
			Northwestern	K7SWI	123,152
<b>Limited Multioperator</b>			Pacific	N6RO	122,850
Atlantic	W3SO	71,575	Roanoke	W4IY	169,002
Central	WB9Z	135,470	Southeastern	N4SVC	300,004
Dakota	NØEO	27,140	West Gulf	KC5MVZ	17,542
Great Lakes	KE8FD	130,680	Canada	VE3MIS	134,640
Hudson	N2NT	252,984			

## 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	W1UO	640	SOP
N6GP/R	37,948	RL	VE7VIE	42	SOP
WR7X/R	31,944	RL			
K6LMN/R	2,945	RL	AI6US	19,344	SOP-ALG
VA7OTC/R	2,848	RL	K6MI	10,640	SOP-ALG
			N4DLA	8,736	SOP-ALG
N6UTC/R	21,830	RU	AA6XA	3,276	SOP-ALG
KD1RX/R	19,701	RU	KE6GLA	2,256	SOP-ALG
KE6QR/R	8,892	RU			
WA6OEM/R	2,300	RU	K6EI	93,024	SO3B
KI6ARW/R	1,587	RU	WA6ZTY	55,986	SO3B
			AF6SA	49,056	SO3B
N1AV	257,660	SOHP	AB9BH	35,230	SO3B
W7EW	181,980	SOHP	KJ6VHZ	33,127	SO3B
KA6BIM	106,248	SOHP			
W7MEM	104,625	SOHP	WB6HYH	10,065	SO-ALG-3B
NJ6D	101,069	SOHP	N7QOZ	5,661	SO-ALG-3B
			KØXP	5,394	SO-ALG-3B
AG6X	143,220	SOLP	K7CX	5,060	SO-ALG-3B
N7IR	102,780	SOLP	K6YK	3,960	SO-ALG-3B
KIØE	48,348	SOLP			
N7EPD	41,268	SOLP	K6JO	1,260	SOFM
W8AEF	40,185	SOLP	K1CT	1,008	SOFM
			W6JFA	468	SOFM
NU6S	97,527	SO-ALG-HP	AF6GM	420	SOFM
N6KN	32,109	SO-ALG-HP	KN6YCX (W6JFA, op)	352	SOFM
K7RAT (N6TR, op)	16,849	SO-ALG-HP			
KD7UO	10,250	SO-ALG-HP	N7T	83,136	LM
K6WIS	7,560	SO-ALG-HP	N6MI	22,848	LM
			WO1S	12,474	LM
K2GMY	35,742	SO-ALG-LP	W6MMM	3,660	LM
N7RK	21,375	SO-ALG-LP	W6SPR	416	LM
N6ZE	12,939	SO-ALG-LP			
N6NZ	6,150	SO-ALG-LP	K7SWI	123,152	UM
KØIP	5,537	SO-ALG-LP	N6RO	122,850	UM
			W6YX	7,897	UM
KC6NKK	22,800	SOP	VE6AO	162	UM
WQ6D	1,593	SOP			
AF5T	1,525	SOP			

# 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

<b>Central Region</b>			K8MR	5,044	SO-ALG-LP
(Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Golden Horseshoe Sections)			N8XA	2,688	SOP
VE3OIL/R	134,121	R	KD9NYE	304	SOP
VE3WJ/R	38,962	R	AB9BZ	110	SOP
K9JK/R	15,876	R			
VE3KGC/R	1,722	R	W9SZ	2,016	SOP-ALG
VA3WBR/R	1,311	R	K9PW	196	SOP-ALG
			AA9IL	36	SOP-ALG
KG9OV/R	56,024	RL	N9YH	4	SOP-ALG
VE3GKT/R	39,168	RL			
AA9RK/R	5,680	RL	KO9A	182,920	SO3B
KC8JPZ/R	2,520	RL	N8HRZ	49,725	SO3B
KF8QL/R	560	RL	KCØUDO	44,550	SO3B
			AB8M	44,436	SO3B
VE3SST/R	3,381	RU	KX9X	26,724	SO3B
K9CT	223,652	SOHP	WB9HFK	14,355	SO-ALG-3B
N4SV	83,721	SOHP	N9CO	5,871	SO-ALG-3B
N2BJ	73,726	SOHP	N9OBB	3,055	SO-ALG-3B
NØAKC	72,600	SOHP	KE4KY	2,590	SO-ALG-3B
K9NW	60,860	SOHP	K9WO	1,320	SO-ALG-3B
K2DRH	171,920	SOLP	VE3RWJ	1,064	SOFM
K9KLD	99,216	SOLP	KE2BKJ	6	SOFM
W8DPK	52,038	SOLP			
W9GA	47,472	SOLP	WB9Z	135,470	LM
ND4X	43,210	SOLP	KE8FD	130,680	LM
			W9VW	96,086	LM
WØUC	59,250	SO-ALG-HP	KB9HV	4,209	LM
VE3KG	13,816	SO-ALG-HP	K9FE	3,034	LM
VA3AR	11,189	SO-ALG-HP			
W9DZ	7,680	SO-ALG-HP	W9XA	275,872	UM
K2YAZ	6,420	SO-ALG-HP	N8GA	154,365	UM
			VE3MIS	134,640	UM
VE3DS	38,582	SO-ALG-LP	WD9EXD	101,821	UM
KG9AP	27,261	SO-ALG-LP	VE3WCC	98,670	UM
KG9X	8,415	SO-ALG-LP			
K9GX	5,700	SO-ALG-LP			

## Southeast Region

(Delta, Roanoke and Southeastern Divisions)

(Delta, Roanoke and Southeastern Divisions)			WA4AUG (AA5JF, op)	23,200	SOP
AG4V/R	55,950	R	AB4DX	5,720	SOP
W5VY/R	26,332	R	N4IJ	1,656	SOP
W8BRY/R	920	R	KF4VTT	702	SOP
K4ECM/R	6	R	KK4BZ	357	SOP
K4NO/R	17,776	RL	N3AWS	3,692	SOP-ALG
W4IU/R	4,661	RL	AB8CI	216	SOP-ALG
KE4WMF/R	3,150	RL	KC8KSK	192	SOP-ALG
WBØPOH/R	1,421	RL			
KA4JAH/R	990	RL	WQ5L	148,944	SO3B
			NS4T	79,373	SO3B
NV4B/R	128,436	RU	KK4MA	65,619	SO3B
K4CNY/R	1,170	RU	W4TM	56,212	SO3B
			N9NFT	52,635	SO3B
N4OGW	284,666	SOHP			
K1TO	226,066	SOHP	K4BAI	33,572	SO-ALG-3B
K2PS	190,855	SOHP	N8II	10,758	SO-ALG-3B
WO4O	108,336	SOHP	NN3W	7,224	SO-ALG-3B
WA4GPM	93,795	SOHP	KW4SW	4,466	SO-ALG-3B
			K4ORD	2,880	SO-ALG-3B
W5SUM	69,696	SOLP			
KB5VKP	63,210	SOLP	KI4POT	176	SOFM
KJ5RC	62,629	SOLP	K3TW	27	SOFM
W1BQ	52,260	SOLP	K4NRT	15	SOFM
N4LAZ	52,073	SOLP			
			AA4ZZ	453,390	LM
K4WI	96,866	SO-ALG-HP	WB4WXE	45,552	LM
W3IP	66,555	SO-ALG-HP	AA4SC	13,395	LM
WZ5M	55,626	SO-ALG-HP	W4COV	4,896	LM
N5BLY	33,176	SO-ALG-HP			
K5TS	27,664	SO-ALG-HP	N4SVC	300,004	UM
			W4IY	169,002	UM
N4OX	63,920	SO-ALG-LP	W4NH	167,865	UM
N5BO	46,115	SO-ALG-LP	W4UAL	36,855	UM
N4IS	36,309	SO-ALG-LP	KC4HW	30,008	UM
W4RAA	14,904	SO-ALG-LP			
K5OF	9,490	SO-ALG-LP			



# **Northeast Region**

(New England, Hudson, and Atlantic Divisions;  
Newfoundland/Labrador, New Brunswick, Nova Scotia,  
Prince Edward Island, 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

<i>Club</i>	<i>Score</i>	<i>Entries</i>
<b>Unlimited</b>		
Society of Midwest Contesters	1,565,619	51
Potomac Valley Radio Club	890,207	88
<b>Medium</b>		
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
<b>Local</b>		

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

<b>Classic Rover</b>		<b>222 MHz Mults</b>		<b>K2QO/R</b>	
<b>50 MHz QSOs</b>		ACØRA/R 17		K7LSX/R 8	
ACØRA/R	737	VE3OIL/R 13		N7DSX/R 8	
N7GP/R	329	K2QO/R 12		VE3WJ/R 8	
AG4V/R	249	KF2MR/R 9			
AC7SG/R	155	K2UA/R 8		<b>1.2 GHz QSOs</b>	
K7LSX/R	143	K7LSX/R 8		N7GP/R 139	
		N7DSX/R 8		KF2MR/R 60	
<b>50 MHz Mults</b>		VE3WJ/R 8		K2UA/R 55	
ACØRA/R	249	W5VY/R 8		K2QO/R 39	
AG4V/R	121			N7DSX/R 31	
N7GP/R	88	<b>432 MHz QSOs</b>			
W5VY/R	69	N7GP/R 149		<b>1.2 GHz Mults</b>	
K7LSX/R	63	KF2MR/R 62		KF2MR/R 10	
		K2UA/R 60		VE3OIL/R 10	
<b>144 MHz QSOs</b>		ACØRA/R 51		K2QO/R 9	
ACØRA/R	231	K2QO/R 49		VE3WJ/R 8	
N7GP/R	145			K7LSX/R 7	
VE3OIL/R	84	<b>432 MHz Mults</b>		N7DSX/R 7	
KF2MR/R	77	ACØRA/R 16		N7GP/R 7	
K2UA/R	64	K2QO/R 13			
		KF2MR/R 11		<b>2.3 GHz QSOs</b>	
<b>144 MHz Mults</b>		VE3OIL/R 11		N7GP/R 60	
ACØRA/R	71	K2UA/R 8		KF2MR/R 47	
VE3OIL/R	30	VE3WJ/R 8		K2UA/R 38	
W5VY/R	22			K2QO/R 22	
KF2MR/R	21	<b>902 MHz QSOs</b>		VE3OIL/R 19	
K2QO/R	15	N7GP/R 129			
		KF2MR/R 56		<b>2.3 GHz Mults</b>	
<b>222 MHz QSOs</b>		K2UA/R 54		VE3OIL/R 8	
N7GP/R	141	K2QO/R 37		VE3WJ/R 8	
K2UA/R	62	VE3OIL/R 25		KF2MR/R 7	
KF2MR/R	56			N7GP/R 7	
ACØRA/R	49	<b>902 MHz Mults</b>		K2QO/R 5	
K2QO/R	47	KF2MR/R 10			
		VE3OIL/R 10			

<b>3.4 GHz QSOs</b>		VE3WJ/R	8	<b>Limited Rover</b>	
N7GP/R	33	K7LSX/R	7	<b>50 MHz QSOs</b>	
K2UA/R	29	N7GP/R	7	AL1VE/R	544
KF2MR/R	27	KF2MR/R	6	W5TN/R	475
K2QO/R	12	N7DSX/R	6	KA5D/R	470
N7DSX/R	9	24 GHz QSOs		AA5PR/R	359
		VE3OIL/R	6	WR7X/R	264
		VE3WJ/R	6		
<b>3.4 GHz Mults</b>		WA2TMC/R	3	<b>50 MHz Mults</b>	
N7GP/R	7			AA5PR/R	171
K7LSX/R	6	<b>24 GHz Mults</b>		AL1VE/R	171
N7DSX/R	6	VE3OIL/R	6	W5TN/R	168
K2QO/R	5	VE3WJ/R	6	KA5D/R	166
VE3OIL/R	5	WA2TMC/R	1	WR7X/R	115
VE3WJ/R	5				
<b>5.7 GHz QSOs</b>		<b>123 GHz QSOs</b>		<b>144 MHz QSOs</b>	
N7GP/R	34	VE3OIL/R	6	VE3GKT/R	126
KF2MR/R	27	VE3WJ/R	6	W5TN/R	82
K2UA/R	19	W7GLF/R	3	KX6A/R	79
VE3OIL/R	11			KØBAK/R	75
VE3WJ/R	8	<b>123 GHz Mults</b>		KA5D/R	70
		VE3OIL/R	6		
<b>5.7 GHz Mults</b>		VE3WJ/R	6	<b>144 MHz Mults</b>	
VE3OIL/R	8	W7GLF/R	1	VE3GKT/R	29
VE3WJ/R	8			KG9OV/R	26
KF2MR/R	6	<b>Light QSOs</b>		KØBAK/R	23
N7GP/R	6	VE3OIL/R	6	K4NO/R	20
K7LSX/R	4	VE3WJ/R	6	KC8JPZ/R	18
N6TEB/R	4	VA3WBR/R	1		
N7DSX/R	4	VE2NR/R	1	<b>222 MHz QSOs</b>	
		VE3KGC/R	1	KA5D/R	63
				W5TN/R	59
<b>10 GHz QSOs</b>		<b>Light Mults</b>		N6GP/R	35
N7GP/R	45	VE3OIL/R	6	VE3GKT/R	27
KF2MR/R	33	VE3WJ/R	6	KX6A/R	25
K2UA/R	25	VA3WBR/R	1		
K7LSX/R	19	VE2NR/R	1	<b>222 MHz Mults</b>	
N7DSX/R	18	VE3KGC/R	1	KA5D/R	12
				W5TN/R	12
<b>10 GHz Mults</b>				KG9OV/R	9
VE3OIL/R	8				

AA2SD/R	5	KE6QR/R	54	<b>902 MHz QSOs</b>	
KX6A/R	5			KG6CIH/R	20
KØBAK/R	5	<b>144 MHz Mults</b>		K2EZ/R	13
N6GP/R	5	NV4B/R	33	KCØP/R	11
VE3GKT/R	5	KG6CIH/R	11	VE3SST/R	10
		KØAXX/R	11	NØHZO/R	8
<b>432 MHz QSOs</b>		KD1RX/R	9		
KA5D/R	65	K2EZ/R	8	<b>902 MHz Mults</b>	
W5TN/R	65	KE6QR/R	8	KCØP/R	6
KX6A/R	49			KG6CIH/R	6
VE3GKT/R	48	<b>222 MHz QSOs</b>		NØHZO/R	5
N6GP/R	26	K2EZ/R	52	KJ1K/R	4
		N6UTC/R	43	VE3SST/R	4
<b>432 MHz Mults</b>		KG6CIH/R	42		
KA5D/R	12	NV4B/R	25	<b>1.2 GHz QSOs</b>	
W5TN/R	12	KE6QR/R	21	KG6CIH/R	28
VE3GKT/R	9			K2EZ/R	18
WB2SIH/R	9	<b>222 MHz Mults</b>		VE3SST/R	11
KG9OV/R	8	NV4B/R	14	KCØP/R	10
		KG6CIH/R	11	N6UTC/R	10
<b>Unlimited Rover</b>		KCØP/R	7		
<b>50 MHz QSOs</b>		NØHZO/R	7	<b>1.2 GHz Mults</b>	
NØLNO/R	507	K2EZ/R	6	KG6CIH/R	9
NV4B/R	364	KE6QR/R	6	KCØP/R	5
KØAXX/R	293			KJ1K/R	4
KD1RX/R	192	<b>432 MHz QSOs</b>		NV4B/R	4
K2EZ/R	133	K2EZ/R	68	NØHZO/R	4
		N6UTC/R	50	VE3SST/R	4
<b>50 MHz Mults</b>		KG6CIH/R	44		
NØLNO/R	188	KE6QR/R	37	<b>2.3 GHz QSOs</b>	
NV4B/R	156	NV4B/R	26	KG6CIH/R	16
KØAXX/R	127			K2EZ/R	8
KD1RX/R	88	<b>432 MHz Mults</b>		KJ1K/R	5
K2EZ/R	42	NV4B/R	13	WB2VVQ/R	2
		KG6CIH/R	11	WC7M/R	1
<b>144 MHz QSOs</b>		KCØP/R	7		
K2EZ/R	76	NØHZO/R	7	<b>2.3 GHz Mults</b>	
NV4B/R	68	K2EZ/R	6	KG6CIH/R	7
N6UTC/R	61	KE6QR/R	6	K2EZ/R	3
KG6CIH/R	56	N6UTC/R	6	KJ1K/R	3

WB2VVQ/R	2	<b>24 GHz Mults</b>		K9CT	129
WC7M/R	1	KG6CIH/R	1	K8MM	123
		VE3SST/R	1		
<b>3.4 GHz QSOs</b>		<b>47 GHz QSOs</b>		<b>144 MHz Mults</b>	
KG6CIH/R	14	KG6CIH/R	2	K9CT	60
K2EZ/R	5			K1RZ	55
KJ1K/R	4	<b>47 GHz Mults</b>		K1TEO	54
WB2VVQ/R	2	KG6CIH/R	1	W9FF	53
		<b>123 GHz QSOs</b>		K8MM	52
<b>3.4 GHz Mults</b>		KG6CIH/R	2	<b>222 MHz QSOs</b>	
KG6CIH/R	7			K1TEO	82
K2EZ/R	3	<b>123 GHz Mults</b>		N2JMH	39
KJ1K/R	3	KG6CIH/R	1	VE3ZV	30
WB2VVQ/R	2			K1KG	26
<b>5.7 GHz QSOs</b>		<b>Light QSOs</b>		K1TR	26
KJ1K/R	3	KG6CIH/R	2		
KG6CIH/R	2	<b>Light Mults</b>		<b>222 MHz Mults</b>	
WB2VVQ/R	2	KG6CIH/R	1	K1TEO	37
WC7M/R	1			VE3ZV	17
		<b>Single Operator, High Power</b>		N2JMH	14
<b>5.7 GHz Mults</b>		<b>50 MHz QSOs</b>		K1KG	12
KJ1K/R	2	W5PR	1181	K1TR	12
WB2VVQ/R	2	K1TO	1048	K3SK	12
KG6CIH/R	1	N4OGW	848	WA3DRC	12
WC7M/R	1	N5RZ	818		
		K2PS	793	<b>432 MHz QSOs</b>	
<b>10 GHz QSOs</b>		<b>50 MHz Mults</b>		K1TEO	104
VE3SST/R	9	N4OGW	269	N2JMH	44
KG6CIH/R	8	W5LO	266	VA3IKE	40
VE7AFZ/R	2	W7EW	249	K1TR	32
		K2PS	245	VE3ZV	32
<b>10 GHz Mults</b>		N5RZ	241		
VE3SST/R	3	<b>144 MHz QSOs</b>		<b>432 MHz Mults</b>	
KG6CIH/R	2	K1TEO	250	K1TEO	35
VE7AFZ/R	1	K1RZ	168	VA3IKE	30
		N2JMH	133	W9FF	17
<b>24 GHz QSOs</b>				N2JMH	16
KG6CIH/R	2			N3MK	16
VE3SST/R	2				



**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

<b>24 GHz QSOs</b>		<b>144 MHz Mults</b>		N1JEZ	4
N2WK	4	W2KV	31	WA1PBU	4
		WZ1V	24		
<b>24 GHz Mults</b>		N1GC	23	<b>902 MHz Mults</b>	
N2WK	3	W3IP	21	W2FU	10
		WØUC	20	W1GHZ	6
<b>123 GHz QSOs</b>				K5LLL	5
AG6QV	3	<b>222 MHz QSOs</b>		WØUC	5
		WZ1V	48	N1JEZ	4
<b>123 GHz Mults</b>		W2FU	42		
AG6QV	1	N6KN	25	<b>1.2 GHz QSOs</b>	
		K5LLL	23	W2FU	30
<b>Light QSOs</b>		N1JEZ	21	WZ1V	22
WB3IGR	2			WA1PBU	10
<b>Light Mults</b>		<b>222 MHz Mults</b>		K5LLL	9
WB3IGR	1	WZ1V	21	K6WIS	8
		W2FU	16	N1JEZ	8
<b>Single Operator, Analog Only, High Power</b>		VE3KG	15	N6KN	8
<b>50 MHz QSOs</b>		N1GC	13		
W9RM	778	N1JEZ	12	<b>1.2 GHz Mults</b>	
K4WI	635			W2FU	12
N5TJ	583	<b>432 MHz QSOs</b>		WZ1V	12
WWØR	558	WZ1V	54	K5LLL	8
WA2VYA	522	W2FU	44	N1JEZ	5
		NU6S	43	N6KN	5
<b>50 MHz Mults</b>		N6KN	42	W1GHZ	5
W9RM	213	W2KV	36	W3IP	5
NR7T	182			WØUC	5
WWØR	180	<b>432 MHz Mults</b>			
N5TJ	167	WZ1V	17	<b>2.3 GHz QSOs</b>	
NU6S	165	W2FU	16	W2FU	24
		W3IP	15	WA1PBU	2
<b>144 MHz QSOs</b>		W2KV	14	K5LLL	1
W2KV	99	K5LLL	13	N1JEZ	1
WZ1V	87			WØUC	1
NU6S	64	<b>902 MHz QSOs</b>			
N6KN	55	W2FU	26	<b>2.3 GHz Mults</b>	
W2FU	45	K5LLL	6	W2FU	9
		W1GHZ	6	K5LLL	1
		WØUC	5	N1JEZ	1

WA1PBU	1	<b>50 MHz Mults</b>		N7RK	30
WØUC	1	AB5EB	160	WB2JAY	27
		N4OX	136	K2GMY	24
<b>3.4 GHz QSOs</b>		KAØPQW	133	N6ZE	24
WØUC	1	N5BO	115		
		N4IS	114	<b>432 MHz Mults</b>	
<b>3.4 GHz Mults</b>				VE3DS	17
WØUC	1	<b>144 MHz QSOs</b>		AF1T	15
		N3ITT	77	WA3EOQ	15
<b>5.7 GHz QSOs</b>		AF1T	76	KG9AP	12
WØUC	1	WB2CUT	49	WB2JAY	10
		N6ZE	47		
<b>5.7 GHz Mults</b>		N7KN	47	<b>902 MHz QSOs</b>	
WØUC	1	WB2JAY	47	AF1T	19
				VE3DS	18
<b>10 GHz QSOs</b>		<b>144 MHz Mults</b>		WA3EOQ	6
W2FU	17	N3ITT	29	W4RAA	5
KD7UO	3	KG9AP	23	WB2JAY	4
W3IP	3	VE3DS	20		
K5LLL	1	WA3EOQ	20	<b>902 MHz Mults</b>	
WØGHZ	1	AF1T	19	AF1T	10
WØUC	1			VE3DS	7
		<b>222 MHz QSOs</b>		WA3EOQ	6
<b>10 GHz Mults</b>		AF1T	42	WB2JAY	4
W2FU	5	VE3DS	32	W4RAA	2
KD7UO	2	WB2JAY	23		
W3IP	2	WA3EOQ	20	<b>1.2 GHz QSOs</b>	
K5LLL	1	AC1J	15	AF1T	27
WØGHZ	1	WB2VVV	15	N7RK	20
WØUC	1			VE3DS	20
		<b>222 MHz Mults</b>		AC1J	9
<b>Single Operator, Analog Only, Low Power</b>		VE3DS	17	WB2JAY	9
<b>50 MHz QSOs</b>		AF1T	16		
AB5EB	536	WA3EOQ	16	<b>1.2 GHz Mults</b>	
N4OX	473	WB2JAY	12	AF1T	12
N5BO	405	KG9AP	11	VE3DS	8
KAØPQW	315			WA3EOQ	7
N4IS	241	<b>432 MHz QSOs</b>		WB2JAY	7
		AF1T	55	K2LNS	6
		VE3DS	35		

<b>2.3 GHz QSOs</b>		VA7SC	1	N8XA	42
AF1T	14	VE7HR	1		
VE3DS	7	WJ7L	1	<b>144 MHz QSOs</b>	
WB2JAY	2			K3GD	36
W3GAD	1	<b>24 GHz QSOs</b>		AB4DX	17
		AF1T	2	KC6NKK	16
<b>2.3 GHz Mults</b>				AF5T	14
AF1T	7	<b>24 GHz Mults</b>		KK4BZ	14
VE3DS	4	AF1T	1		
WB2JAY	2			<b>144 MHz Mults</b>	
W3GAD	1	<b>47 GHz QSOs</b>		K3GD	19
		AF1T	2	AB4DX	14
<b>3.4 GHz QSOs</b>				KC6NKK	9
AF1T	12	<b>47 GHz Mults</b>		KK4BZ	8
VE3DS	5	AF1T	1	WX3P	5
WB2JAY	1	<b>123 GHz QSOs</b>		<b>222 MHz QSOs</b>	
		AF1T	2	AF5T	8
<b>3.4 GHz Mults</b>				AB4DX	3
AF1T	6	<b>123 GHz Mults</b>		KC6NKK	1
VE3DS	3	AF1T	1		
WB2JAY	1			<b>222 MHz Mults</b>	
<b>5.7 GHz QSOs</b>		<b>Light QSOs</b>		AF5T	4
AF1T	7	AF1T	2	AB4DX	3
				KC6NKK	1
<b>5.7 GHz Mults</b>		<b>Light Mults</b>			
AF1T	5	AF1T	1	<b>432 MHz QSOs</b>	
				AF5T	8
<b>10 GHz QSOs</b>		<b>Single Operator, Portable</b>		WQ6D	8
AF1T	9	<b>50 MHz QSOs</b>		KC6NKK	5
VA3ELE	6	WA4AUG (AA5JF, op)	198	WX3P	5
KBØZOM	3	KC6NKK	163	KK4BZ	1
VA7SC	1	NØJK	93	NØSUW	1
VE7HR	1	AB4DX	72	WA4AUG (AA5JF, op)	1
WJ7L	1	N8XA	66		
				<b>432 MHz Mults</b>	
<b>10 GHz Mults</b>		<b>50 MHz Mults</b>		WQ6D	5
AF1T	5	WA4AUG (AA5JF, op)	112	WX3P	5
KBØZOM	3	KC6NKK	105	AF5T	4
VA3ELE	2	NØJK	78	KC6NKK	4
		AB4DX	48	KK4BZ	1

NØSUW	1	<b>144 MHz Mults</b>		AA6XA	1
WA4AUG (AA5JF, op)	1	AI6US	8		
		AA6XA	7	<b>902 MHz Mults</b>	
<b>902 MHz QSOs</b>		K6MI	6	K6MI	3
KC6NKK	1	KE6GLA	6	AA6XA	1
		N4DLA	6	KAØCRO	1
<b>902 MHz Mults</b>		W9SZ	6		
KC6NKK	1			<b>1.2 GHz QSOs</b>	
		<b>222 MHz QSOs</b>		AI6US	7
<b>1.2 GHz QSOs</b>		AI6US	24	K6MI	7
WQ6D	3	N4DLA	12	N4DLA	7
		K6MI	10	AA6XA	6
<b>1.2 GHz Mults</b>		KF7NP	10	KE6GLA	5
WQ6D	2	KAØCRO	5		
		WB2AMU	5	<b>1.2 GHz Mults</b>	
<b>Single Operator, Portable, Analog Only</b>		<b>222 MHz Mults</b>		KE6GLA	5
<b>50 MHz QSOs</b>		K6MI	7	N4DLA	5
AI6US	83	AI6US	6	AA6XA	4
N3AWS	75	N4DLA	5	AI6US	4
N4DLA	60	W9SZ	4	K6MI	4
K6MI	36	KAØCRO	3		
AA6XA	32			<b>2.3 GHz QSOs</b>	
		<b>432 MHz QSOs</b>		K6MI	2
<b>50 MHz Mults</b>		AI6US	61	K9PW	1
N3AWS	52	N4DLA	25		
N4DLA	30	K6MI	22	<b>2.3 GHz Mults</b>	
AI6US	28	KE6GLA	15	K6MI	1
AKØM	23	KF7NP	15	K9PW	1
K6MI	21				
		<b>432 MHz Mults</b>		<b>3.4 GHz QSOs</b>	
<b>144 MHz QSOs</b>		K6MI	9	K9PW	1
AI6US	106	AI6US	6		
AA6XA	30	KE6GLA	6	<b>3.4 GHz Mults</b>	
KE6GLA	27	N4DLA	6	K9PW	1
N4DLA	24	W9SZ	6		
KF7NP	17			<b>5.7 GHz QSOs</b>	
KM6SJO	17	<b>902 MHz QSOs</b>		K6MI	2
		K6MI	5	K9PW	1
		KAØCRO	2		

**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
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**47 GHz Mults**

K9PW	1
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**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
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**Light Mults**

K6MI	1
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**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



<b>144 MHz Mults</b>		W6JFA	2	AA2SD	3
AD5A	13			KN6YCX (W6JFA, op)	3
KEØKKD	10	<b>144 MHz QSOs</b>		W6JFA	3
K7CX	8	VE3RWJ	56		
N7QOZ	8	K1CT	40	<b>Limited Multioperator</b>	
K6YK	7	KB1YNT	34	50 MHz QSOs	
N4TWX	7	AF6GM	26	K5QE	805
		K6JO	26	AA4ZZ	689
<b>432 MHz QSOs</b>				WB9Z	509
AD5A	32	<b>144 MHz Mults</b>		N2NT	449
VA3CJZ	32	W6JFA	7	N7T	421
N7QOZ	31	KN6YCX (W6JFA, op)	6		
WB6HYH	28	K6JO	5	<b>50 MHz Mults</b>	
VE2BAP	19	KI4POT	4	K5QE	261
		VE3RWJ	4	AA4ZZ	237
<b>432 MHz Mults</b>				WB9Z	193
AD5A	10	<b>222 MHz QSOs</b>		N7T	182
N7QOZ	7	K1CT	19	WY7DT	175
K6YK	6	K6JO	12		
WB6HYH	6	KO6BT	6	<b>144 MHz QSOs</b>	
KB6A	4	KN6FKQ	4	N2NT	320
N1JD	4	N6DRE	4	AA4ZZ	280
N4TWX	4			W2LV	173
VE2BAP	4	<b>222 MHz Mults</b>		W3SO	153
WB9HFK	4	K1CT	4	K5QE	123
WD6E	4	K6JO	4		
		AA2SD	2	<b>144 MHz Mults</b>	
<b>Single Operator, FM Only</b>		KO6BT	2	AA4ZZ	70
<b>50 MHz QSOs</b>		N6DRE	2	K5QE	67
KB1YNT	8			N2NT	64
AA2SD	5	<b>432 MHz QSOs</b>		KE8FD	57
AF6GM	4	VE3RWJ	39	W3SO	54
KN6YCX (W6JFA, op)	4	K1CT	25		
W6JFA	4	K6JO	21	<b>222 MHz QSOs</b>	
		AF6GM	17	N2NT	56
<b>50 MHz Mults</b>		KL4LJ	13	AA4ZZ	49
AA2SD	3			KE8FD	23
AF6GM	2	<b>432 MHz Mults</b>		W2LV	16
KI4POT	2	K6JO	5	W6MMM	13
KN6YCX (W6JFA, op)	2	VE3RWJ	4		

<b>222 MHz Mults</b>		W4NH	220	<b>432 MHz Mults</b>	
AA4ZZ	33	N6RO	194	W2SZ	30
N2NT	24	WQØP	183	W3CCX	30
KE8FD	21	W9XA	178	VE3MIS	26
W2LV	9			KD2LGX	20
WB9Z	6	<b>144 MHz QSOs</b>		N4SVC	20
		W2SZ	275	N8GA	20
<b>432 MHz QSOs</b>		W3CCX	213	W9XA	20
AA4ZZ	83	W4IY	204		
N2NT	67	W9XA	170	<b>902 MHz QSOs</b>	
KE8FD	41	N8GA	159	KD2LGX	17
W2LV	23			W3CCX	17
W6MMM	21	<b>144 MHz Mults</b>		W2SZ	14
WA3EKL	21	W9XA	67	VE3WCC	5
		N8GA	64	W9XA	5
<b>432 MHz Mults</b>		W2SZ	60		
AA4ZZ	41	N4SVC	57	<b>902 MHz Mults</b>	
KE8FD	27	W4IY	57	W3CCX	11
N2NT	24			KD2LGX	7
W9VW	14	<b>222 MHz QSOs</b>		W2SZ	7
WA3EKL	13	W3CCX	69	N4SVC	4
		W2SZ	63	W9XA	3
<b>1.2 GHz QSOs</b>		KD2LGX	33		
K5QE	14	W9XA	30	<b>1.2 GHz QSOs</b>	
WO1S	4	N8GA	29	W2SZ	30
		VE3MIS	29	W3CCX	26
<b>1.2 GHz Mults</b>				KD2LGX	24
K5QE	14	<b>222 MHz Mults</b>		N6RO	13
WO1S	3	W3CCX	30	W4NH	12
		W2SZ	23		
<b>Unlimited Multioperator</b>		N8GA	19	<b>1.2 GHz Mults</b>	
<b>50 MHz QSOs</b>		VE3MIS	19	W2SZ	16
N4SVC	620	W9XA	18	W3CCX	16
W9XA	569			W4NH	12
W3CCX	498	<b>432 MHz QSOs</b>		KD2LGX	9
W2SZ	469	W2SZ	108	N4SVC	7
W4IY	457	W3CCX	106		
		K7SWI	79	<b>2.3 GHz QSOs</b>	
<b>50 MHz Mults</b>		VE3MIS	57	VE3WCC	16
N4SVC	255	KD2LGX	43	W2SZ	15

W3CCX	15	W9XA	1	<b>24 GHz QSOs</b>	
KD2LGX	9			N9UHF	1
K7SWI	5	<b>5.7 GHz Mults</b>		VE3WCC	1
<b>2.3 GHz Mults</b>		W2SZ	11	W9XA	1
W2SZ	12	W3CCX	6	<b>24 GHz Mults</b>	
W3CCX	10	K7SWI	1	N9UHF	1
KD2LGX	6	VE3WCC	1	VE3WCC	1
KV1J	2	W4NH	1	W9XA	1
K7SWI	1	W9XA	1	<b>47 GHz QSOs</b>	
VE3WCC	1	<b>10 GHz QSOs</b>		W9XA	2
W9XA	1	WQØP	12	<b>47 GHz Mults</b>	
<b>3.4 GHz QSOs</b>		W2SZ	11	W9XA	1
W2SZ	12	VE3MIS	8	<b>123 GHz QSOs</b>	
VE3WCC	7	VE3WCC	8	N9UHF	1
W3CCX	7	W3CCX	6	W9XA	1
W9XA	1	<b>10 GHz Mults</b>		<b>123 GHz Mults</b>	
<b>3.4 GHz Mults</b>		W2SZ	11	N9UHF	1
W2SZ	8	WQØP	11	W9XA	1
W3CCX	6	W3CCX	6	<b>Light QSOs</b>	
VE3WCC	1	VE3MIS	4	VE3WCC	12
W9XA	1	N9UHF	1	<b>Light Mults</b>	
<b>5.7 GHz QSOs</b>		VE3WCC	1	VE3WCC	1
VE3WCC	14	W4NH	1		
W2SZ	13	W9XA	1		
W3CCX	7				
K7SWI	5				
W4NH	1				