



# ARRL June VHF Contest 2015 Results

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## Propagation Took a Summer Vacation

The 6 meter sporadic E (E<sub>s</sub>) season this year has been disappointing at best and the contest weekend was no exception. K4WI's soapbox comment really nailed it; *"I have read about virtual particles that pop out of nowhere and then disappear. This was the story of 6 meters for the week end ..."*. While some areas of the country got a few hours' worth of, at best, mediocre E<sub>s</sub>, the rest of the country was literally left out in the rain. Thunderstorms hundreds of miles long trudged through all weekend, killing any hope of enhanced conditions on any other bands. It rained almost constantly in the Midwest. This made for really slow going for most of us and made the past two years of poor June propagation seem wonderful by comparison. Of course 6 meters opened up with widespread European and domestic E<sub>s</sub> the day *AFTER* the contest!



*This doesn't look like the "lower" four bands, but George, K5TR, can be seen hard at work getting his VHF/UHF array ready for the contest. From bottom to top (not including George) are seven elements on 50 MHz, 17 elements on 144 MHz, 16 elements on 222 MHz, and a pair of 28-element beams on 432 MHz. [George, K5TR, photo]*

Even the Texans were feeling the pain on 6 meters this time out despite having some of the best E<sub>s</sub> conditions of the contest again. Conditions on the other bands were average at best, and poor most of the time. Top Ten scores were mostly comparable to 2013 lows and

considerably down from last year. The bright spot for most folks seemed to be the new rules changes being tested for the first time that allows QSO scheduling to be set up in real time and keep it interesting during the many slow hours.

## Logs-Up or Down?

1061 logs were submitted and while the continued upward trend is encouraging (1043 in 2014 and 1010 in 2013) we still have a long way to go to better the total of 1222 in 2012. Overall QSO and grid totals were way down from 2012, too. The good news is that SO3B (Single-Op, 3 Bands) has increased in popularity by 10% and the rebound in the number of Rovers (R) has held steady at 38 but is still down from 49 in 2011. Hopefully, this indicates the multiband classic Rover is still alive and will be increasing scores with many band mults for years to come. However the number of Limited Rovers (LR) on the bottom 4 bands (50, 144, 222, and 432 MHz) took a worrisome drop with only 31 compared to 42 last year, 43 in 2013 and 42 in 2012. The numbers of Unlimited (RU) rovers remains statistically static at less than a dozen.

Reflecting the generally poor conditions, once again few existing division or overall scoring records were broken. Of course record scores for the newer SO3B, SOFM (Single-Op, FM-Only) categories and the new Canadian RAC sections continue to be in flux. The previous contest score records are available for review on the ARRL website at [www.arrl.org/contest-records](http://www.arrl.org/contest-records) and will be updated with the any new records set in 2015.

## What about the DX?

DX logs are up this year with the help of three DXpeditions and a few South American logs. The 3830 soapbox comments ([www.3830scores.com](http://www.3830scores.com)) also reported a handful of European contacts to the East Coast on Sunday. Canadian participation stayed steady at 47 but is still way down from the 70 logs submitted in 2012. The XE contingent continues with five logs and Jorge, XE2X leading the way for his countrymen XE3N, XE2CQ, XE2OK and XE2O. The Limited Multiop (LM) at C6ATA broke the existing C6 record with a whopping 931 QSOs on 6 meters and 15 on 2 meters, mostly on EME. Pedro, NP4A also put a new multiplier in a lot of logs with a huge 689-QSO 6 meter effort for a Top Ten finish shattering the old SOHP (Single-Op, High Power) WP4G 1986 record from Puerto Rico. Kyle,

VP9/WA4PGM also made a lot of people happy with 432 QSOs on 6 meters with 100 W and a 5-element Yagi at 20 feet. Three stations submitted logs from Cuba; Raul, CO8ZZ; Ed, CO8LY; and Juan, CO2WZ; all on 6 meters. Logs from Alaska doubled to four; Kevin, KL7KY; Ed, KL7UW; Dale, KL7XJ; and Ron, KL7YK. AH6RH/R and K6GSS/KH6 (SO3B) both submitted logs from Hawaii. VP2MTT, PV8AZ, FS/K9EL, and YL2GD rounded out the rest.

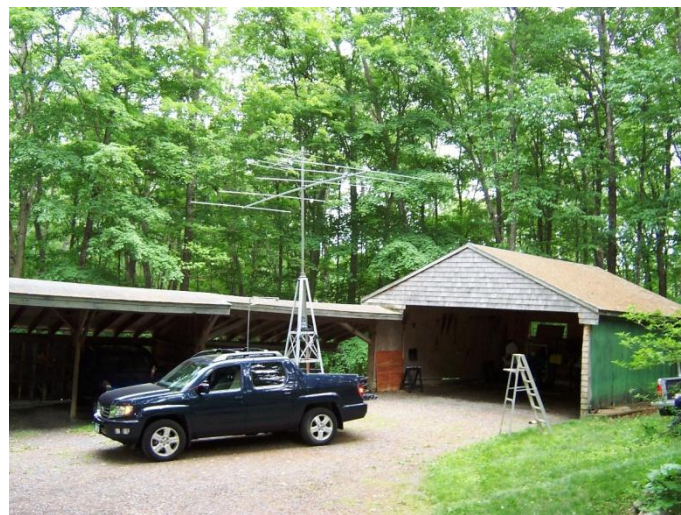
### So what about the Conditions?

As noted before, 6 meters was not especially kind to most of the county. The West Coast did report a few short openings on both days that didn't last long. And while the East Coast got some propagation to the Caribbean and EU it only opened well domestically for them for about two hours late Sunday. There was a late flurry on Sunday in Missouri to the FN grids that caused Jon, KC0DEB to comment, *"That is what I call a run for the finish line ..."* but it never migrated much further north. Some Texans and few stations in AZ and NM got the best shake out of a bad deal with multiple small openings in different areas as well as double hop to the FN grids on Sunday, but not everyone was in the spotlight. We heard some of them here in the Midwest for brief periods both days, but it was very weak and short lived. All of the 6 meter E<sub>s</sub> this author got was what has been termed "popcorn prop"; short bursts that would pop in and pop right out again, however ionoscatter was about normal on Sunday morning and a lot easier to line up on with web spots and chats."

Unlike last year when there were 16 stations over 500 QSOs on 6 meters, only 9 broke that barrier and most of them multiops or DX. No stations made it over 1000 Qs, although C6ATA came the closest with 931. Pedro, NP4A was next in line for DX with 689. Two multiops in the east were able to leverage a combination of tropo, meteorscatter, ionoscatter, and the sparse 6 meter openings with W2SZ (M) making 748 contacts in 102 grids and W3CCX (M) clearing 595 contacts and 93 grids, but their grid totals indicate the limited areas of the openings. Chuck, W5PR and George, K5TR and Ken, WM5R at K5TR (M) were able to take the best advantage of the STX prop to rack up 571 QSOs in 235 grids and 605 QSOs in 222 grids, respectively, but neither had the pileup depth they normally enjoy. Mark, K5AM parlayed his location in NM to rack up 624 QSOs and 191 grids, and W7FSL (M) in AZ had 570 QSOs in 188 grids. Jay, W9RM in CO had a respectable 521 QSO/180 grid score from CO despite having very limited short-duration openings. K5QE (LM) reported 6 meters was very poor at their STX QTH this year, but 427 QSOs/173 grids is still much better than most of us got.

Troposcatter enhancements of the other bands were slim to none this year. The number of stations working more than 100 QSOs on 2 meters dropped back down to 28 this year from 35 but is consistent with 27 in 2013 and 29 in 2012. Even with essentially flat propagation, SOHP (B) Stan, KA1ZE with his new 4x12 2 meter array was able to go to right to the top of the pack with an outstanding 368 QSO/78 grid 2 meter-only effort. 13 of the top 2 meter scores were multiops with W2SZ on top from 357 QSOs/56 grids. The top 2 meter grid total goes to K5QE (LM) with 129, followed by Joel, W5ZN (SOHP) with 93. Both are heavily invested in EME to acquire those high grid totals and found the new rules useful in attracting attention to their potent signals. K5QE's grid total tops the old all-time high of 121 set by W8VP (M) from Ohio in June of 1985.

Four stations in the June VHF contest had 100 or more QSOs on 222, all of them multiops, with W2SZ (M) topping the list at 129. Six stations had 432 QSO totals over 100, five multiops once again with W2SZ on top at 186. Jeff K1TEO (SOHP) is also on this list at 121. No real enhancement was reported by anyone on 432 and up.



Now THAT is a sturdy mount for a rover antenna! Dave, NN1N decided to create a serious mount for his trip to super-rare FN67 in Maine, along with FN78 and FN79 in Quebec. That roof tower tips over but holds up a 5-element 50 MHz beam plus beams for 144 and 432 MHz. (Photo by NN1N)

### First Time Test for the Updated Rules

Back in the bad old days of the 80s and 90s I remember setting up VHF QSOs during a contest from EM64 (AL) using a VHF distribution list attached to the SE packet cluster network. It was acceptable to do that then but, contest rule changes based on HF standards shut down any form of QSO setup for VHF by applying the same principles to all contests, HF and VHF+. When I was at the Dayton Hamvention this year I asked every VHF+ contester I knew what they thought of the new rules and everyone had a different take on how they could make them work for them. Almost everyone expressed



approval of the hard work done by the VHF/UHF Ad Hoc Committee in convincing the Programs and Services Committee that VHF is indeed different. It's much more difficult to determine where the band may be enhanced (often for very short times) or who may be actually listening. Propagation on VHF is not at all the same as HF and just because your neighbor 30 miles away hears DX that doesn't mean you will ... in fact you probably won't!

EMEers can now announce their CQ frequency and get more folks to listen for them. Rovers can now announce over the Web when they arrive in a new grid, where they are listening, and where they are actually pointing. Folks can line right up with each other to attempt longer distance QSOs: Random antenna aiming would not allow them to even hear distant stations unless they coincidentally just happened to be pointing back at exactly the same time. You can track rovers with a cell phone call or text and ask them to point your way (similar to what the portable microwave folks have been doing for years). The possibilities are endless and only limited by our imaginations.

First impressions from my QTH show that the ON4KST Chats and Ping Jockey pages were particularly useful, as were W0UC's web-based *Google Documents* spreadsheets of upper-Midwest stations on the air for any given contest. The data include rover plans that include detailed itineraries and cell numbers to contact them. APRS rover tracking proved to be more confusing than helpful to me, but the real-time APRS VHF propagation map at [aprs.mountainlake.k12.mn.us](http://aprs.mountainlake.k12.mn.us) was a useful tool. Traditional DX clusters didn't seem to be as useful except maybe on 6 meters, but were often more frustrating and maybe a little disheartening by showing E<sub>s</sub> propagation that I didn't have! Looking at all the stuff already available was actually a lot of work! Again, these are just my first impressions ... your mileage may vary!

## Single-Operators

The backbone of VHF contesting is the Single-Operators who build stations that range from a single band with a modest antenna to a multi-band station with stacked arrays. Modest stations even with only one or two bands allow everyone to enjoy the contest with a lot more stations to work. Here in the Midwest the VHF/UHF bands are relatively quiet unless there is a contest or a net. Day to day activity on the bands seems to be dwindling with the exception of KA1ZE/3 and his 205 Morning Report gathering coordinated on Facebook. Many stations are active every day (and more on the weekends) on the ON4KST low band, VHF, UHF and microwave chats in the Region 2 144 and 432 chat

rooms. There they make real-time skeds and report on what they have worked that day and Stan compiles it all into a daily report on the group's *Facebook* page. Lots of folks were already comfortable using this tool. Great job promoting activity, Stan!

### Top Ten – Single-Op, Low Power

Call	Score	QSOs	Mults	Bands
K2DRH	225,984	597	264	ABCD9EFG
WB1GQR (W1SJ, op)	155,844	736	162	ABCD9EFG
AF1T	140,454	682	153	ABCD9EFGHIJ
N4QWZ	90,882	345	198	ABCD9E
K1KG	87,870	396	145	ABCD9EFGHI
KX4R	56,115	295	145	ABCD9E
WB2JAY	50,600	304	110	ABCD9EFG
NØLL	45,760	334	130	ABCD
VP9/WA4PGM	44,928	432	104	A
WJØF	43,820	304	140	ABD

*Band designators are A=50 MHz; B=144; C=222; D=432; 9=902 MHz; E=1.2GHz; F=2.3; G=3.4; H=5.7; I=10; J=24; K=47; L=75; M=119; N=142; O=241 GHz; P=Light*

Modest stations with 100-200 W “bricks” (amplifiers) have always comprised the bulk of contest activity since well before the Low Power category was established so it's no surprise that once again the Single-Op, Low Power (SOLP) category proved to be most popular. The SOLP category has been big hit since it was introduced back in 2000.



*Aimed at the US West Coast, this 50-element, rope-mounted Yagi didn't have a lot of success this year but you can't fault KL7NN for trying! The antenna can be flipped from vertical to horizontal to take advantage of whatever polarization is best. (Photo by KL7NN)*

There are more ways than one to field a good SOLP station, and several folks over the years have taken it portable to a hill or mountaintop and done very well. For most VHF+ hams it's the best way for them to be competitive and maybe earn a place in the Top Ten. The overall Single-Op, Low Power W3ZZ First Log Award - Memorial has been sponsored by Tim, K3LR and Dave, W9PA again for the fourth year and goes to Mike

Crownover, Sr., AD5A, of Boerne, TX — welcome to the ranks of VHF+ contesting!

Despite the challenging conditions and a lower overall QSO total than the both the second and third-place stations, Bob, K2DRH in EN41 (IL) took first place again in the Single-Operator, Low Power category with a score of 226K using 8 bands through 3456 MHz. Thanks to a QTH in the middle of the country and a high-gain antenna system constantly in need of maintenance his overall multiplier total was over 100 more than his top two competitors. WB1GQR manned by Mitch, W1SJ atop Mt. Equinox in MA took second again with 156K — one of the few who made a better score than last year by using 8 bands through 3456 MHz. Dale, AF1T with 11 bands took 3rd place with 140K. In a relatively close race with Warner, K1KG in 5th with 88K, Todd, N4QWZ moved up a place to fourth with 91K, mostly on the strength of being able to work 198 grids.

Top Ten, Single-Op High Power				
Call	Score	QSOs	Mults	Bands
K1TEO	414,400	973	280	ABCD9EFGHI
K1RZ	254,016	643	216	ABCD9EFGHI
W9RM	148,685	613	227	ABCD
K5AM	148,645	663	217	ABCD
W5PR	134,185	571	235	A
WØUC	128,234	476	194	ABCD9EFGHI
W5ZN	114,918	448	214	ABCD
KU8Y	101,493	414	179	ABCD9E
NP4A	93,704	689	136	A
K9CT	76,736	358	176	ABCD9E

The Single-Op, High Power category is where the big guns of the VHF+ contesting world come out to play. It takes a large commitment of time and resources to build and maintain a multiband high power station and compete effectively in this category. For the western half of the country the relative scarcity of VHF+ stations to work on 2 meters and above makes it more difficult to be in contention for the top spots when 6 meters is not cooperative.

Jeff, K1TEO's 10-band station in FN31 (CT) has kept him on the top of the leader boards for over 20 years. He took top honors again with 415K, despite few E<sub>s</sub> opportunities, flat tropo conditions, equipment problems, and persistent electrical noise to the west that has been plaguing him recently. Jeff says he will not be able to participate in 2016 due to his son's college graduation so it practically guarantees much better conditions next year (at least for the NE). Dave, K1RZ got 10 bands going in MDC and moved up from 3rd to 2nd place this year in flat conditions with little help from 6 meters. Both W9RM in CO and K5AM in NM had 4 bands and some of the better 6 meter totals for this contest, but in another

rare reversal of fortune, Jay squeaked out Mark by 40 points to take 3rd place after log checking. Logging accuracy made all the difference in this race with W9RM receiving a lower reduction in claimed score than K5AM. And despite making only about half as many 6 meter QSOs as he did last year Chuck, W5PR still made it into the Top Five with his 6 meters-only station.

Top Ten, Single-Op Portable				
Call	Score	QSOs	Mults	Bands
KB5WIA	13,932	250	43	ABCD
KG6IYN	7,137	117	61	A
N4OGW	7,056	96	63	ABCD
W1QK	4,816	172	28	A
KJ5RM	4,307	72	59	ABD
N8XA	3,337	66	47	ABCD
NV4B/5	3,330	61	45	ABCD
WB2AMU	2,508	63	33	ABCD
K1ZK	2,356	66	31	ABD
W6KKO	1,775	57	25	ABCD

The Single-Operator Portable category stations running 10 W are anywhere from 10-20 dB harder to hear on the bottom four band than the other single-operators. They often face harsh environments and weather when they assemble a station on a hill or mountain top. Dave, KB5WIA in the East Bay section (CA) moved up again this time from 3rd to 1st place with 13K. Dave operated at 4000 feet from the summit of Mount Diablo in the SF Bay Area where line of sight for VHF+ signals can be hundreds of miles.

Another Californian from the San Diego section, KG6IYN, took 6 meters to his favorite hilltop and made enough QSOs on E<sub>s</sub> to capture second place with 7K, barely edging out last year's 2nd place winner, Tor, N4OGW in Mississippi by 81 points. Ironically, Tor could not stay in his chosen location on Little Mountain after dark and had to pack up just as he finally got some 6 meter E<sub>s</sub> to the west. Dan, W1QK went to a hilltop in CT with only 6 meters, yet managed to work enough stations to put him in 4th place with 4.8K. Jory, KJ5RM in TX took 5th place with 4.3K.

This is the third year for the two new Single-Operator categories. Single-Op, 3 Band (3B) is growing steadily with 132 entries this year, a roughly 10% increase. Single-Op, FM Only (FM) remained static with 17 log submissions. As expected, the operators who enter these categories are still setting new section and division records that will be posted on the ARRL website. This year's 6 meter propagation favored TX and AZ for the top spots in the SO3B category. Mike, AB5EB used his South Texas (STX) 6 meter sweet spot again to keep himself in first place with 61K, but only got half as much action as he did when he set the high-water mark for this

category last year. Mike keeps constantly improving his station to stay on top. N7IR from AZ worked his way up from number 6 to number 2 this year by using CW for the last 3 hours on 6 meter E<sub>s</sub>. Generally, in an E<sub>s</sub> opening if you're running on CW, you're going too slow, but Gary made it work for him. Sam, W8SPM has been to Spruce Knob in WV 46 times but this one was the charm as he took 3rd place despite a near miss with lightning that almost knocked him off his feet. Bob, KØNR parlayed his 6 meter totals into a fourth place spot and Jim, KO9A racked up some pretty good numbers from the black hole of IL to join the Top Five.

#### Top Ten, Single-Op 3 Bands

Call	Score	QSOs	Mults	Bands
AB5EB	63,896	381	163	ABD
N7IR	31,920	271	112	ABD
W8SPM	30,550	276	94	ABD
KØNR	23,900	228	100	ABD
KO9A	23,392	240	86	ABD
N7EME	16,878	167	97	ABD
KC7QY	12,510	136	90	ABD
N1ZN	11,529	173	63	ABD
AA5AM	11,180	126	86	ABD
WDØBGZ	11,147	157	71	AB

#### Top Ten, Single-Op FM

KK4QSG	3,725	114	25	ABCD
W2EV	3,612	93	28	ABCD
KI6JJW	1,425	47	19	ABCD
K2SI	1,065	57	15	ABD
KA6AMB	640	38	10	BCD
W3SKX	630	27	14	BCD
N9VM (N1VM, op)	451	27	11	BCD
KE6PLA	261	19	9	BCD
WB5HVH	252	21	12	AB
NA6AA	246	32	6	ABD

Here in the Midwest VHF+ FM activity is very sparse. Entries in the SOFM category tend to cluster in the population centers near the coasts and the top three entries have QSOs on all of the bottom four bands. Scores are definitely going up with the top score logged by the GA station of Ryan, KK4QSG who shattered the old category record with 3.7K. Ev, W2EV in NY doubled his last year's high score but still slid into 2nd place only about 100 points behind. Ev has always been an innovator and proponent of rover tracking and his many QSOs with the Rochester (NY) VHF Group (RVHFG) members and rovers are helping revitalize VHF+ contesting in that area. Steve, KI6JJW from the San Francisco Bay area also improved his score significantly, but dropped one for a 3rd place finish. Duane, K2SI from WNY and Mark, KA6AMB complete the Top Five.

## Multiooperators

Unlimited Multiops (M) score QSOs from 6 meters to daylight. These stations are on the air all the time and

they set the limits of what's possible for VHF+ contesting. The Limited Multiops (L) range from a few operators manning a home station to huge efforts with many ops and multiple antenna systems. They both provide a place where folks without a big station can have the fun of operating while enjoying time with other hams who also enjoy VHF+ contesting. They also provide a place for future operators to learn such as the WA2CP Camp Pouch Boy Scouts will attest – read the short story below! We need more of them on both coasts as well as here in the black hole of the Midwest where all the old guard, huge effort multiop stations have shut down.



Erecting the microwave station at W3CCX (W3CCX website photo)



A historical aerial view of W3CCX from 1999. All this work, and yet they keep on doing it! (Photo by KB3XG)

#### Top Five, Limited Multiop

Call	Score	QSOs	Mults	Bands
K5QE	273,000	707	350	ABCD
K8GP	267,852	994	221	ABCD
K2LIM	231,420	889	210	ABCD
AA4ZZ	216,999	775	243	ABCD
W3SO	202,335	768	205	ABCD



The Top Five Limited Multiop scores were grouped pretty tightly together. The K5QE powerhouse from the STX flatlands won the category again this year, but with only about half the QSOs of last year. Since 6 meters was not as kind to them as it was to the other TX stations they took to the Moon again on 2 meters and racked up an impressive overall grid total of 350 to come up with a winning score of 273K on the bottom 4 bands. They had a lower QSO total than any of the other Top Five contenders. Close on their heels was the intrepid Grid Pirate crew at K8GP in VA who scored 268K, also with little in the way of 6 meter E<sub>s</sub> but with strong numbers on 2 meters and 432. K2LIM in WNY moved back up to 3rd place this year with 231K. AA4ZZ in EM96 (NC) broke into the Top Five this year at 4th place and 217K. W3SO (WPA) couldn't pull their big 2 meter numbers this year and without much 6 meter E<sub>s</sub> they dropped to 5th place with 202K.

#### Top Five, Unlimited Multiop

Call	Score	QSOs	Mults	Bands
W2SZ	883,575	1,714	315	ABCD9EFGHIJP
W3CCX	526,864	1,230	272	ABCD9EFGHIJP
K5TR	268,500	787	300	ABCD9EI
W6TE	160,556	573	164	ABCD9EFGHI
W2LV	140,304	740	158	ABCDE

W2SZ, The Mt Greylock Expeditionary Force, posted their 25th June VHF win in the Unlimited Multioperator (M) category with 884K. Without much enhancement they were still able to outdistance their nearest competitor, W3CCX, by almost 500 QSOs. These two stations were the only ones to post QSO totals over the 1000 mark this year. The Mt Airy VHF Radio Club (aka Pack Rats) steered W3CCX to a strong 2nd place finish with 527K. They have been fielding a great station from Camelback Mountain in PA since 1999 and are always a force to be reckoned with. K5TR broke into the world of Multiop VHF+ contesting in a big way to take 3rd. George's recently revamped VHF station is now on seven bands. They parlayed good 6 meter numbers and a great multiband grid total of 300 to turn in a respectable 269K from STX where other multiband VHF stations are few and far between. W6TE mounted a rare multiop effort from the West Coast atop Frasier Peak and captured fourth with 161K. W2LV from NNJ took 5th with 140K.

## Rovers

Rovers are the glue that hold things together and keep it interesting. Classic Rovers (R) often carry as many bands as the multiops to multiple locations and hand out grid multipliers like Halloween candy. The steady numbers of Classic Rovers are a hopeful sign that the turmoil from the rover rule changes some years ago may be over and

more will continue to join their ranks to take the place of those who have left. The new rules changes make it even easier to find them now.



Jim, W9SNR/R roves in the Chicago area and has a great station from 6 meter through 10GHz. (Photo by W9SNR)

#### Top Ten, Limited Rover

Call	Score	QSOs	Mults	Grids	Bands
ACØRA/R	96,180	519	140	10	ABCD
WW7D/R	38,133	509	57	10	ABCD
K2QO/R	32,340	266	98	8	ABCD
K2JB/R	20,010	321	58	6	ABD
K2EZ/R	19,734	229	66	10	ABCD
KM3T/R	17,794	238	62	5	ABCD
KD5EUO/R	14,300	189	65	8	ABD
N6GP/R	12,749	184	61	6	ABCD
W3DHJ/R	8,840	136	65	4	AB
K9JK/R	8,160	203	30	4	ABCD

For Rover Top Ten tables, "Grids" is the total number of grids activated.

In the Limited Rover (RL) category, Wyatt, ACØRA/R is still going strong with a little help from Brian, KDØLRG and they took the top spot again this year. In fact, ACØRA/R had the best score of all three rover categories combined! While they didn't set any records this year it wasn't for lack of trying. Their aggressive 10-grid schedule through the Central Division netted them 96K and put a lot of new mults in a lot of logs. In 2nd place, Darryl, WW7D/R ran 10 grids in the Northwestern division with 38K and posted a great description with pictures of his rove at [ww7d.wordpress.com/2015/06/24/ww7dr-roves-the-2015-arrl-june-vhf-contest](http://ww7d.wordpress.com/2015/06/24/ww7dr-roves-the-2015-arrl-june-vhf-contest). Bill-Mark, K2QO/R and his partner Paul, W2TAU took third with 32K from an 8-grid, 600-mile rove through the Atlantic Division in WNY and were encouraged by having quite a few new RVHFG rovers to work.

Newcomers to VHF+ roving, Jimmy, K2JB/R and his co-pilot Howard, W4PH mounted a 6-grid assault on the Roanoke Division that netted them fourth place and 20K. Andrea, K2EZ/R on her second time out (she roved for

the first time in January from the Central Division) did a 10-grid rove to garner almost 20K and another place in the Top Five. Andrea has a great description of her January rove and her rover on her QRZ.com web page.

#### Top Ten, Classic Rover

Call	Score	QSOs	Mults	Grids	Bands
VE3OIL/R	95,583	304	151	4	ABCD9EFHIP
WA3PTV/R	46,036	312	68	5	ABCD9EFGHI
W9SNR/R	43,415	268	95	9	ABCD9EFGHI
VE3WJ/R	40,940	157	115	6	ABCD9EFHIP
NN3Q/R	40,656	240	77	8	ABCD9EFGHI
KK6MC/R	39,480	249	120	4	ABCDEFJ
WA3RGQ/R	35,295	257	65	3	ABCD9EFGHI
K2TER/R	34,848	280	99	7	ABCD9E
WØZQ/R	34,612	257	68	7	ABCD9EFGHI
KF8QL/R	34,170	238	85	9	ABCD9EFGHIJK



Perennial Top Five rover Russ, VE3OIL/R had his day in the sun and won the Classic Rover category this time out with 96K. (Photo by VE3OIL)

First-place Classic Rover, Russ, VE3OIL/R used 10 bands (no Qs on 3456) in a 9-grid rove on the other side of the border to leap to the top with double the score of his nearest competitor. Russ also shared nine laser QSOs with companion rover VE3WJ/R. Joe, WA3PTV/R did a 4-grid romp through the Atlantic Division with 10 bands to capture 2nd place with 46K. Jim, W9SNR/R stayed close to home to do 5 grids on 10 bands in the Chicago area so he could attend to his ailing spouse and did a great job taking 3rd place with 43K. Murray, VE3WJ/R also used 10 bands (no Qs on 3456) in 9 grids to amass 41K. Packrat member Russ, NN3Q fielded another 10-band rove with his companion Al, K3WGR to do a 6-grid trek through the Atlantic Division and take 5th with just over 40K.

There were 11 entries this year in the Unlimited Rover category (RU). While these stations can carry as many bands as they wish and can work as many other rovers as many times as they wish, few entrants now in this category seem to fully embrace the intent of this category that allows multiple operators, pack roving and grid

circling to rack up massive scores while still being fair to the classic Rovers. For the past two years scores in this category have not challenged those of the Top Ten classic Rovers.

#### Top Ten, Unlimited Rover

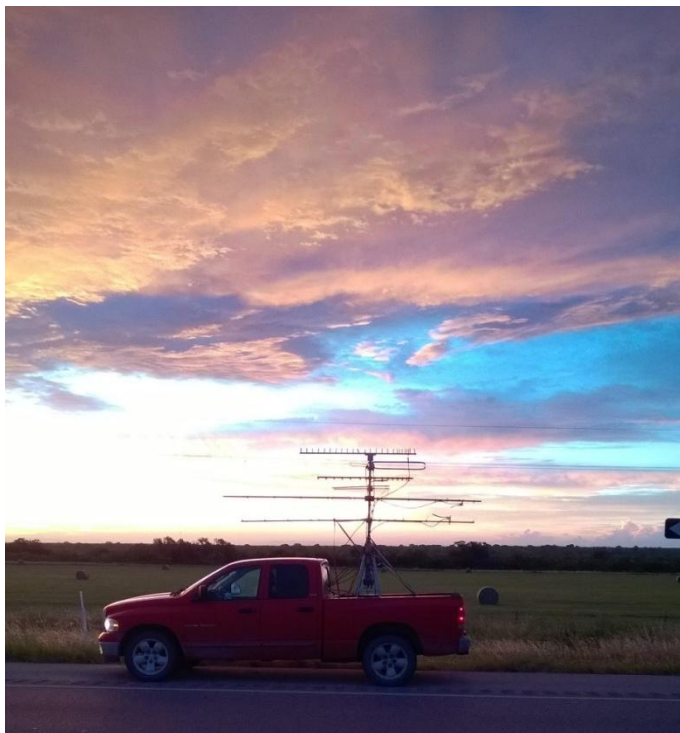
Call	Score	QSOs	Mults	Grids	Bands
K6EU/R	14,136	194	57		ABCD
W3HMS/R	13,188	146	42		ABCDEFGI
W7QQ/R	11,712	121	64		ABCDEFJ
KE6QR/R	10,619	223	37		ABCD9
KJ1K/R	10,542	116	42		ABCD9EFGHI
KØBBC/R	9,240	130	60		ABCD
K7ATN/R	1,872	63	24		ABCD9E
VE7AFZ/R	1,197	45	19		ABCDE
AB4CR/R	740	42	10		ABCDEFI
WØATV/R	636	26	12		ABCDEI



WW7D/R took to the hills to activate CN98 from this location at 3,000 feet elevation. (Photo by WW7D)

Tom, K6EU/R in the Pacific Division switched places with W3HMS/R in the Atlantic division to take 1st this year on a 4-grid 14K jaunt, again using the bottom 4 bands. John, W3HMS/R managed a 13K 9-band rove also in 4 grids. Bill, W7QQ/R in the Rocky Mountain Division fielded 7 bands in 9 grids for a 3rd place, 12K finish. In a close finish on opposite coasts, KE6QR/R (5 bands 4 grids) and KJ1K/R (10 bands, 5 grids) round out the Top Five.





You see the best stuff while roving, like this sunset from Gator, N5RZ somewhere out in West Texas. (Photo by N5RZ)

### Sponsored Plaque Winners

Category	Recipient	Sponsor
Overall Single Operator Low Power	K2DRH	Society of Midwest Contesters
Overall Single Operator, 3-Band	AB5EB	Northern Lights Radio Society
Overall Multioperator	W2SZ	AA4ZZ Team & CDXA, Ken Boyd K4DXA Memorial Gene Zimmerman, W3ZZ
Overall Limited Multioperator	K5QE	Memorial - ARRL Contest Branch
Overall Rover	VE3OIL/R	* 73 Tim KE3HT/SK, Microwave DX Addict *
Overall Limited Rover	ACØRA/R	Carolina DX Association, In Memory of W4VHF/R
Atlantic Division Rover	WA3PTV/R	Potomac Valley Radio Club
Dakota Division Single Operator Low Power	WBØHHM	Northern Lights Radio Society
Hudson Division Single Operator Low Power	WB2JAY	NY2NY - In Memory of W2GFF & W2HB A
Northwestern Division Single Operator High Power	K7CW	Boring, OR Amateur Radio Club
Northwestern Division Multioperator	WN7Y	Randy Stegemeyer, W7HR
Roanoke Division Rover	AD4IE/R	Potomac Valley Radio Club
Southwestern Division Single Operator Low Power	WJØF	Bud Semon, N7CW
Canada Single Operator Low Power	VA3ZV	Northern Lights Radio Society
Northwestern Single Operator, 3-Band	AL1VE	Pacific Northwest VHF Society
Single-Op, Low Power W3ZZ First Log Award - Memorial	AD5A	Tim Duffy, K3LR, and Dave Zeph, W9PA

### Affiliated Club Competition

Club Name	Logs	Score
<b>Unlimited</b>		
No entry		
<b>Medium</b>		
Potomac Valley Radio Club	34	948,372
North East Weak Signal Group	19	845,139
Mt Airy VHF Radio Club	20	716,753
Society of Midwest Contesters	49	393,333
Central Texas DX and Contest Club	5	390,437
Northern Lights Radio Society	16	330,290
Pacific Northwest VHF Society	31	314,130
Contest Club Ontario	20	311,824
Arizona Outlaws Contest Club	24	268,273
Carolina DX Association	6	235,170
Grand Mesa Contesters of Colorado	8	209,662
Southern California Contest Club	22	199,603
Yankee Clipper Contest Club	16	187,156
Frankford Radio Club	8	162,300
Northern California Contest Club	22	140,797
Badger Contesters	8	127,128
Tennessee Contest Group	7	97,697
CTRI Contest Group	5	93,722
Rochester VHF Group	12	87,801
Florida Contest Group	18	63,992
Michigan VHF-UHF Society	6	54,882
Alabama Contest Group	9	51,279
DFW Contest Group	8	46,090
Georgia Contest Group	4	44,596
Florida Weak Signal Society	6	39,477
Bergen ARA	4	24,390
North Coast Contesters	3	22,581
Minnesota Wireless Assn	13	17,606
South East Contest Club	4	16,102
Bristol (TN) ARC	3	14,734
Hudson Valley Contesters and DXers	4	11,215
Mad River Radio Club	6	8,918
Western Washington DX Club	4	7,449
Kansas City Contest Club	3	6,800
Contest Group Du Quebec	3	3,303
West Park Radiops	4	2,944
Louisiana Contest Club	3	1,742
Alaska VHF-UP Group	3	1,260
<b>Local</b>		
Radio Amateurs of Northern Vermont	3	156,105
Clovis Amateur Radio Pioneers	3	38,102
Granite State ARA	4	36,526
Lodi ARC	5	31,190
Portage County Amateur Radio Service	4	24,599
Meriden ARC	3	14,008
Contoocook Valley Radio Club	4	11,997
Rochester ARA	5	5,321
Ventura County Amateur Radio Society	5	4,709
Raritan Bay Radio Amateurs	9	2,556
Inland Empire ARC	3	18



## Contesting at Camp Pouch by Andrew KC2GOW and Gary KB2BSL

The Camp Pouch Amateur Radio Association, brainchild of Andy Genau, KC2GOW and Gary Lindtner, KB2BSL, has become one of the primary activities at the William H. Pouch Boy Scout Camp in Staten Island, NY. Camp Pouch is a 100+ acre facility owned and operated by the Boy Scouts of America. The Amateur Radio program has been built from the ground up by hams for the scouts and promotes the hobby as well as helps to educate the scouts in electronics, RF propagation, Radio merit badge counseling, Amateur Radio licensing, kit building, and on-air activities. We have scouts from all age groups involved in the station and it has drawn a tremendous interest in the past three years of formal operation. The support from the rangers as well as other camp staff has been essential to the success and growth of Amateur Radio in the New York City scouting community.



*Pictured left-to-right are Steve, NV2L (Eagle Scout)' Andy, KC2GOW (station manager); and Chris, K2USH (Eagle Scout) with WA2CP's two towers in the background. (Photo by KC2GOW)*

The station is regularly on the air on every band between 160 meters and 70 cm, operating on all modes and is well-equipped for simultaneous multiple operator use. Aside from the day to day on-air experience, the radio contesting scene has been a hit with the regular visitors of the station, leading to WA2CP being found in every

major contest. Last year a VHF weak signal station was added to the shack and the mystery of VHF propagation drew plenty of attention from our operators. We are primarily active on the bottom four bands for the VHF+ contests on SSB/CW and have even taken first place for the Hudson Division for the Unlimited Multiop category in January 2015.

The VHF weak signal aspect has been so successful that we hope to be able to add more power and additional bands in the coming years. The June conditions were not as great as we had hoped, but still managed to obtain a respectable score considering our location in the region and the limited output power. The guys were running the VHF+ station all weekend and had a blast working everybody! Plans are to be active once again this coming September as the school and work schedules allow.

## Epilog

To briefly sum up the 2015 June contest in a few words; it was slow. Real slow. We are way overdue for some real barnburners like we all enjoyed ten or so years ago, but only time will tell. Now that the sunspot cycle is plunging rapidly and the weather is changing, we can only hope that things will start looking up for 6 meter E<sub>s</sub> and VHF/UHF/SHF tropo.

The new rules are here to stay, whatever you think about them and there have been many more positive than negative comments in the Soapbox comments and on the reflectors. It's good to know that lots of stations still get on to make QSOs in the June contest despite the run of bad luck we have been experiencing for the past few years. Let's keep going, so be back next year on the 11<sup>th</sup>-13<sup>th</sup> for the 2016 June VHF Contest to find out what happens next.

Division Winners					SOP	W1QK	4,816
Division	Category	Call	Score		RL	KM3T/R	17,794
Atlantic	SO3B	N1IBM	4,794	Northwestern	RU	KJ1K/R	10,542
	SOLP	WA3EQQ	31,165		SO3B	AL1VE	8,550
	SOHP	K1RZ	254,016		SOLP	K7YDL	22,995
	SOFM	W2EV	3,612		SOHP	K7CW	39,298
	LM	K2LIM	231,420		SOFM	WA6NDR	8
	UM	W3CCX	526,864		LM	K7TM	17,927
	SOP	N7UN/3	1,014		UM	WN7Y	15
	R	WA3PTV/R	46,036		SOP	AF7GL	189
	RL	K2QO/R	32,340		R	K7BWH/R	23,534
	RU	W3HMS/R	13,188		RL	WW7D/R	38,133
Canada	SO3B	VE1SKY	7,452	Pacific	RU	K7ATN/R	1,872
	SOLP	VA3ZV	21,372		SO3B	N6YG	1,891
	SOHP	VE3ZV	53,040		SOLP	K2GMY	40,255
	LM	VE3EG	180		SOHP	K6KLY	45,854
	UM	VE3WCC	56,610		SOFM	KI6JJW	1,425
	SOP	VE6IXD	80		UM	K6ARP	36,156
	R	VE3OIL/R	95,583		SOP	KB5WIA	13,932
	RU	VE7AFZ/R	1,197		R	N6ORB/R	13,446
	SO3B	KO9A	23,392		RL	AF6RR/R	3,007
	SOLP	K2DRH	225,984		Roanoke	RU	K6EU/R
SOHP	WØUC	128,234	SO3B	W8SPM		30,550	
LM	W9JN	12,616	SOLP	K4FJW		14,168	
UM	N2BJ	21,980	SOHP	W3IP		76,140	
SOP	W9SZ	969	LM	K8GP		267,852	
R	W9SNR/R	43,415	SOP	KC8KSK		220	
RL	ACØRA/R	96,180	R	AD4IE/R		1,025	
SO3B	WØOHU	108	RL	K2JB/R		20,010	
SOLP	WBØHHM	5,588	SO3B	KØNR		23,900	
SOHP	WØGHZ	71,377	Rocky Mountain	SOLP		AI5I	40,964
LM	NØEO	12,960		SOHP	W9RM	148,685	
R	WØZQ/R	34,612		LM	K5LRW	1,950	
RU	KØBBC/R	9,240		UM	NØSZ	70,525	
SO3B	WA4FHY	99		R	KK6MC/R	39,480	
SOLP	N4QWZ	90,882		RL	W3DHJ/R	8,840	
SOHP	W5ZN	114,918		RU	W7QQ/R	11,712	
LM	K5OLV	4,136		SO3B	N4AU	391	
UM	K5KDX	13,770		SOLP	KX4R	56,115	
SOP	N4OGW	7,056		SOHP	NP4A	93,704	
Delta	R	AG4V/R	28,032	SOFM	KK4OSG	3,725	
	RL	WA4JA/R	816	LM	W4NH	50,096	
	SO3B	WN8R	10,205	UM	W4UAL	6,902	
	SOLP	N8BI	23,328	SOP	K3TW	1	
	SOHP	KU8Y	101,493	Southeastern	R	N4TZH/R	78
	SOFM	W8DIY	161		SO3B	N7IR	31,920
	LM	N8ZM	91,300		SOLP	WJØF	43,820
	UM	K8JH/8	1,632		SOHP	W6FM	31,302
	SOP	N8XA	3,337		SOFM	KE6PLA	261
	R	KF8QL/R	34,170		LM	WA7JTM	65,689
RL	K8DOG/R	3,510	UM		W6TE	160,556	
SO3B	N2JJ	5,883	SOP		KG6IYN	7,137	
SOLP	WB2JAY	50,600	R		N6VI/R	11,886	
SOHP	N2SLO	16,767	Southwestern		RL	N6GP/R	12,749
LM	N2NT	150,917		SO3B	AB5EB	63,896	
UM	W2LV	140,304		SOLP	AD5A	41,629	
SOP	WB2AMU	2,508		SOHP	W5PR	134,185	
R	WB2SIH/R	11,470		SOFM	WB5HVV	252	
RL	K2EZ/R	19,734		LM	K5QE	273,000	
SO3B	WDØBGZ	11,147		UM	K5TR	268,500	
SOLP	NØLL	45,760		SOP	KJ5RM	4,307	
SOHP	KMØT	20,273		R	N5RZ/R	19,152	
R	W2FU/Ø	506		RL	KD5EUO/R	14,300	
New England	RL	WAØCNS/R	1,254				
	SO3B	N1ZN	11,529				
	SOLP	WB1GQR (W1SJ, op)	155,844				
	SOHP	K1TEO	414,400				
	SOFM	KB1YSK	215				
	LM	K1PRO	3,144				
	UM	W2SZ	883,575				



## QSO Band Leaders By Category

### Single Operator, Low Power

#### 50 MHz

VP9/WA4PGM	432
AF1T	392
WB1GQR (W1SJ, op)	354
AI5I	303
NØLL	293

#### 144 MHz

WB1GQR (W1SJ, op)	202
K2DRH	140
WB2CUT	140
AF1T	121
KX4R	82

#### 222 MHz

WB1GQR (W1SJ, op)	61
K2DRH	53
AF1T	49
N4QWZ	36
WA2VNV	33
WB2JAY	33

#### 432 MHz

K2DRH	87
WB1GQR (W1SJ, op)	81
AF1T	72
N4QWZ	44
WA2VNV	43

#### 902 MHz

K2DRH	18
K1KG	13
K2GMY	13
AF1T	11
WB1GQR (W1SJ, op)	11

#### 1.2 GHz

K2DRH	28
WB2JAY	20
WB1GQR (W1SJ, op)	19
AF1T	18
WA2VNV	18

#### 2.3 GHz

K1KG	10
W3SZ	9
AF1T	7
WB1GQR (W1SJ, op)	5
K2DRH	4

#### 3.4 GHz

W3SZ	9
K1KG	7
AF1T	6
K2DRH	5
WB2JAY	5

#### 5.7 GHz

W3SZ	7
K1KG	5
AF1T	1
K3IUV	1

#### 10 GHz

W3SZ	7
K1KG	5
AF1T	4
K3IUV	1
KA2OON	1
KB2EYN	1
NN4AA	1

#### 24 GHz

AF1T	1
KA2OON	1
KB2EYN	1

#### Light

K3IUV	7
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### Single Operator, High Power

#### 50 MHz

NP4A	689
K5AM	624
W5PR	571
W9RM	521
K1IED	494

#### 144 MHz

KA1ZE/3	368
K1TEO	273
N3HBX	187
K1RZ	181
W5ZN	156

#### 222 MHz

K1TEO	95
K1RZ	77
W3IP	49
KU8Y	41
N3HBX	40

#### 432 MHz

K1TEO	121
K1RZ	95
W3IP	68
KU8Y	54
WØUC	54

#### 902 MHz

K1RZ	32
K1TEO	30
WØGHZ	21
WØUC	19
KØAWU	13
K1GX	13
KC6ZWT	13
KU8Y	13

#### 1.2 GHz

K1TEO	48
K1RZ	45
WØGHZ	21
WØUC	21
K3GNC	19

#### 2.3 GHz

K1RZ	25
K1TEO	13
WØGHZ	9
K1GX	8
K1IIG	7
W3PAW	7

#### 3.4 GHz

K1RZ	17
K1TEO	15
K1IIG	6
WØGHZ	6
W3PAW	6

#### 5.7 GHz

K1RZ	11
K1TEO	9
WØGHZ	7
K1GX	5
W3PAW	3

#### 10 GHz

K1RZ	16
WØGHZ	9
K1TEO	8
KØAWU	5
K1GX	5

### Single Operator, Portable

#### 50 MHz

W1QK	172
KG6IYN	117
KB5WIA	85
N4OGW	66
KJ5RM	60

#### 144 MHz

KB5WIA	91
KA1SYG	57
K1ZK	35
AF7GL	27
W6KKO	23

#### 222 MHz

KB5WIA	24
N6ZE	10
N4OGW	6
W6KKO	6
NV4B/5	5
WB2AMU	5

<b>432 MHz</b>	
KB5WIA	50
K1ZK	10
N4OGW	10
N6ZE	10
NV4B/5	8
W6KKO	8
WB2AMU	8

<b>902 MHz</b>	
N6ZE	2
W9SZ	2

<b>1.2 GHz</b>	
N7UN/3	5
W9SZ	2

<b>2.3 GHz</b>	
W9SZ	2

<b>3.4 GHz</b>	
W9SZ	2

<b>5.7GHz</b>	
W9SZ	1

<b>10 GHz</b>	
AA9IL	1
W9SZ	1

#### Single Operator, Three Band

<b>50 MHz</b>	
AB5EB	352
N7IR	235
KØNR	187
KO9A	153
N7EME	152

<b>144 MHz</b>	
W8SPM	119
KO9A	55
WN8R	36
N1IBM	35
N3MWQ	33

<b>432 MHz</b>	
W8SPM	49
KO9A	32
WN8R	22
N1IBM	16
N3ALN	15

#### Single Operator, FM Only

<b>50 MHz</b>	
W2EV	24
KK4OSG	20
WB5HVH	20
K2SI	17
NA6AA	8

<b>144 MHz</b>	
KK4OSG	59
W2EV	33
K2SI	26
KB1YSK	26
KI6JJW	16

<b>222 MHz</b>	
KI6JJW	15
W2EV	13
W3SKX	12
KA6AMB	10
KE6PLA	8

<b>432 MHz</b>	
KK4OSG	29
W2EV	23
KA6AMB	16
K2SI	14
KI6JJW	13

#### Multioperator (-L Limited Multioperator)

<b>50 MHz</b>	
C6ATA -L	931
W2SZ	748
K5TR	605
W3CCX	595
W7FSL	570

<b>144 MHz</b>	
K8GP -L	364
W2SZ	357
K2LIM -L	307
W3SO -L	274
N2NT -L	272

<b>222 MHz</b>	
W2SZ	126
W6TE	119
W3CCX	105
K2LIM -L	103
K8GP -L	85

<b>432 MHz</b>	
W2SZ	186
W3CCX	146
W3SO -L	141
K8GP -L	133
K2LIM -L	110

<b>902 MHz</b>	
W2SZ	44
W3CCX	32
W6TE	13
W1XM	6
WB6W	5

<b>1.2 GHz</b>	
W2SZ	68
W3CCX	49
W1XM	18
W6TE	17
VE3WCC	13

<b>2.3 GHz</b>	
W2SZ	47
W3CCX	26
VE3WCC	15
W6TE	14
W1XM	6

<b>3.4 GHz</b>	
W2SZ	43
W3CCX	23
W6TE	15
VE3WCC	6
K6ARP	3

<b>5.7 GHz</b>	
W2SZ	33
W3CCX	21
VE3WCC	16
W6TE	13
K6ARP	1
W6QAR	1

<b>10 GHz</b>	
W2SZ	36
W3CCX	21
W6TE	18
VE3WCC	6
NØSZ	4

<b>24 GHz</b>	
W2SZ	25
VE3WCC	1
W3CCX	1

<b>Light</b>	
W3CCX	6
VE3WCC	4
W2SZ	1

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

<b>50 MHz</b>	
WW7D/R -L	213
K2JB/R -L	195
ACØRA/R -L	182
N6GP/R -L	143
K7BWH/R	142

<b>144 MHz</b>	
ACØRA/R -L	169
WW7D/R -L	136
KF2MR/R	113
K2JB/R -L	102
K2QO/R -L	92

<b>222 MHz</b>	
ACØRA/R -L	76
WW7D/R -L	71
VE3OIL/R	45
WA3PTV/R	45
AG4V/R	41



<b>432 MHz</b>	
ACØRA/R -L	92
WW7D/R -L	89
KF2MR/R	56
VE3OIL/R	54
KF8QL/R	52

<b>902 MHz</b>	
WØZQ/R	22
VE3OIL/R	21
WA3PTV/R	18
K7BWH/R	17
NN3Q/R	17
W9SNR/R	17

<b>1.2 GHz</b>	
WA3PTV/R	27
VE3OIL/R	25
WØZQ/R	24
W9SNR/R	20
WA3RGQ/R	20

<b>2.3 GHz</b>	
WA3PTV/R	19
VE3OIL/R	18
NN3Q/R	14
WA3RGQ/R	14
VE3WJ/R	11

<b>3.4 GHz</b>	
WA3PTV/R	17
WA3RGQ/R	14
NN3Q/R	11
W3HMS/R -U	11
N6VI/R	7

<b>5.7 GHz</b>	
NN3Q/R	13
VE3OIL/R	9
VE3WJ/R	9
WA3PTV/R	9
N6VI/R	7
WØZQ/R	7

<b>10 GHz</b>	
WA3PTV/R	16
WA3RGQ/R	13
W3HMS/R -U	12
NN3Q/R	11
WØZQ/R	11

<b>24 GHz</b>	
KK6MC/R	2
K1DS/R	1
KF8QL/R	1
W7QQ/R -U	1

<b>47 GHz</b>	
KF8QL/R	1

<b>Light</b>	
VE3OIL/R	9
VE3WJ/R	9
K1DS/R	2

## Multiplier Band Leaders By Category

### Single Operator, Low Power

<b>50 MHz</b>	
AI5I	130
WJØF	127
AD5A	120
NQ7R	114
W3XO/5	114

<b>144 MHz</b>	
K2DRH	52
N4QWZ	41
KX4R	36
WA3EOQ	30
N4TUT	28

<b>222 MHz</b>	
K2DRH	29
N4QWZ	29
KX4R	22
WB1GQR (W1SJ, op)	20
W9GA	18
WA3EOQ	18

<b>432 MHz</b>	
K2DRH	35
N4QWZ	28
KX4R	20
W9GA	20
VE3DS	19

<b>902 MHz</b>	
K2DRH	13
WB1GQR (W1SJ, op)	10
K1KG	8
W9GA	8
WA2VNV	8

<b>1.2 GHz</b>	
K2DRH	16
WB1GQR (W1SJ, op)	13
KX4R	9
K1KG	8
WA2VNV	8
WB2JAY	8

<b>2.3 GHz</b>	
K1KG	6
W3SZ	6
AF1T	5
WB1GQR (W1SJ, op)	5
K2DRH	4

<b>3.4 GHz</b>	
W3SZ	7
K1KG	6
AF1T	4
K2DRH	4
WB1GQR (W1SJ, op)	3
WB2JAY	3

<b>5.7 GHz</b>	
W3SZ	6
K1KG	4
AF1T	1
K3IUV	1

<b>10 GHz</b>	
W3SZ	6
K1KG	5
AF1T	2
K3IUV	1
KA2OON	1
KB2EYN	1
NN4AA	1

<b>24 GHz</b>	
AF1T	1
KA2OON	1
KB2EYN	1

<b>Light</b>	
K3IUV	1

### Single Operator, High Power

<b>50 MHz</b>	
W5PR	235
K5AM	191
W9RM	180
NP4A	136
NR7T	126
WB2FKO	126

<b>144 MHz</b>	
W5ZN	93
KA1ZE/3	78
K1TEO	47
NTØV	46
K1RZ	42
K8TQK	42

<b>222 MHz</b>	
K1TEO	35
K1RZ	29
KU8Y	25
K8TQK	24
W3IP	24
W5ZN	24

<b>432 MHz</b>	
K1TEO	37
K1RZ	31
K8TQK	30
KU8Y	28
VE3ZV	27

<b>902 MHz</b>	
K1TEO	18
K1RZ	16
K9EA	12
KU8Y	11
K1GX	10
WØUC	10

**1.2 GHz**

K1TEO	20
K1RZ	18
K8TQK	12
KU8Y	12
K1GX	11
K9EA	11
WØUC	11
W5MRB	11

**2.3 GHz**

K1RZ	12
K1TEO	7
WØGHZ	7
K1GX	6
K1IIG	6
W5MRB	6

**3.4 GHz**

K1RZ	11
K1TEO	9
WØGHZ	6
K1IIG	5
K1GX	4

**5.7 GHz**

K1RZ	8
K1TEO	7
WØGHZ	6
K1GX	5
W3PAW	2

**10 GHz**

K1RZ	8
WØGHZ	8
K1TEO	7
K1GX	5
KØAWU	3
W1FKF	3

**Single Operator, Portable****50 MHz**

KG6IYN	61
KJ5RM	51
N4OGW	36
N8XA	33
W1QK	28

**144 MHz**

KA1SYG	18
K1ZK	15
KB5WIA	15
N4OGW	11
WB2AMU	11

**222 MHz**

KB5WIA	8
N4OGW	6
NV4B/5	5
N6ZE	3
W6KKO	3
W9SZ	3

**432 MHz**

KB5WIA	10
N4OGW	10
K1ZK	6
NV4B/5	6
NG1R	4
W6KKO	4
WB2AMU	4

**902 MHz**

W9SZ	2
N6ZE	1

**1.2 GHz**

N7UN/3	5
W9SZ	2

**2.3 GHz**

W9SZ	2
------	---

**3.4 GHz**

W9SZ	2
------	---

**5.7GHz**

W9SZ	1
------	---

**10 GHz**

AA9IL	1
W9SZ	1

**Single Operator, Three Band****50 MHz**

AB5EB	156
N7IR	97
N7EME	88
KC7QY	84
KØNR	81

**144 MHz**

W8SPM	39
K8GU	16
N1IBM	16
W2REA	16
WN8R	16

**432 MHz**

W8SPM	23
WN8R	13
N1IBM	11
WA4LDU	10
W2XL	9

**Single Operator, FM Only****50 MHz**

WB5HVV	11
W2EV	8
KK4OSG	6
K2SI	5
KI6JJW	3

**144 MHz**

KK4OSG	9
W2EV	8
KI6JJW	6
K2SI	5
KA6AMB	4
KE6PLA	4
N9VM (N1VM, op)	4
W8DIY	4

**222 MHz**

W3SKX	7
W2EV	6
KI6JJW	5
KA6AMB	3
KE6PLA	3
KK4OSG	3
N9VM (N1VM, op)	3

**432 MHz**

KK4OSG	7
W2EV	6
K2SI	5
KI6JJW	5
N9VM (N1VM, op)	4
W3SKX	4

**Multioperator**

(-L Limited Multioperator)

**50 MHz**

K5TR	222
W7FSL	188
K5QE -L	173
WA7JTM -L	140
KBØZO	135

**144 MHz**

K5QE -L	129
AA4ZZ -L	85
W2SZ	56
K2LIM -L	55
K8GP -L	55
W3SO -L	55

**222 MHz**

K2LIM -L	38
W3SO -L	34
W3CCX	32
K8GP -L	31
W2SZ	29

**432 MHz**

W3SO -L	46
K8GP -L	36
W2SZ	35
K2LIM -L	34
W3CCX	32
W4IY -L	32

**902 MHz**

W2SZ	17
W3CCX	15
W6TE	8
W1XM	5
WB6W	4



**1.2 GHz**

W2SZ	21
W3CCX	16
W6TE	10
K5TR	8
W1XM	8

**2.3 GHz**

W2SZ	16
W3CCX	12
W6TE	9
W1XM	5
VE3WCC	2

**3.4 GHz**

W2SZ	13
W3CCX	11
W6TE	10
K6ARP	3
VE3WCC	1
W6QAR	1

**5.7 GHz**

W3CCX	11
W2SZ	9
W6TE	8
K6ARP	1
VE3WCC	1
W6QAR	1

**10 GHz**

W3CCX	11
W2SZ	9
W6TE	8
NØSZ	4
K5TR	2
K6ARP	2
KBØZO	2

**24 GHz**

W2SZ	6
VE3WCC	1
W3CCX	1

**Light**

VE3WCC	1
W2SZ	1
W3CCX	1

**Rover**

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

**50 MHz**

KK6MC/R	72
KD7DCR/R	62
ACØRA/R -L	56
N5RZ/R	55
K7BWH/R	54

**144 MHz**

ACØRA/R -L	38
VE3OIL/R	29
K2QO/R -L	26
K2TER/R	24
N2SPI/R	24

**222 MHz**

VE3OIL/R	19
ACØRA/R -L	17
K2QO/R -L	16
K2TER/R	14
W9SNR/R	14

**432 MHz**

ACØRA/R -L	19
VE3OIL/R	18
KF8QL/R	14
W9SNR/R	14
K2QO/R -L	13
KF2MR/R	13

**902 MHz**

VE3OIL/R	11
VE3WJ/R	9
KF2MR/R	6
W9SNR/R	6
KF8QL/R	5
NN3Q/R	5
WA3PTV/R	5
WA3RGQ/R	5

**1.2 GHz**

VE3OIL/R	11
VE3WJ/R	9
K2TER/R	8
KCØP/R	8
NØHZO/R	8

**2.3 GHz**

VE3OIL/R	10
VE3WJ/R	9
NN3Q/R	4
WA3PTV/R	4
WA3RGQ/R	4

**3.4 GHz**

NN3Q/R	4
WA3PTV/R	4
WA3RGQ/R	4
KF8QL/R	3
W3HMS/R -U	3

**5.7 GHz**

VE3OIL/R	9
VE3WJ/R	9
NN3Q/R	4
KF8QL/R	3
WA3RGQ/R	3

**10 GHz**

VE3OIL/R	9
VE3WJ/R	9
NN3Q/R	4
WA3PTV/R	4
WA3RGQ/R	4

**24 GHz**

KK6MC/R	2
K1DS/R	1
KF8QL/R	1
W7QQ/R -U	1

**47 GHz**

KF8QL/R	1
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**Light**

VE3OIL/R	9
VE3WJ/R	9
K1DS/R	1

Regional Leaders														
SOLP/HP/Q = Single-Operator Low/High Power/Portable; LM/M = Limited/Unlimited Multioperator; R/RL/RU = Classic/Limited/Unlimited Rover														
Northeast Region			Southeast Region			Central Region			Midwest Region			West Coast Region		
New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections			Delta, Roanoke and Southeastern Divisions			Central and Great Lakes Divisions; Ontario Section			Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections			Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Sections		
Call	Score	Cat	Call	Score	Cat	Call	Score	Cat	Call	Score	Cat	Call	Score	Cat
WB1GQR (W1SJ, op)	155,844	SOLP	N4QWZ	90,882	SOLP	K2DRH	225,984	SOLP	NØLL	45,760	SOLP	WJØF	43,820	SOLP
AF1T	140,454	SOLP	KX4R	56,115	SOLP	W9GA	42,037	SOLP	AD5A	41,629	SOLP	K2GMY	40,255	SOLP
K1KG	87,870	SOLP	N4TWX	21,565	SOLP	N8BI	23,328	SOLP	AI5I	40,964	SOLP	NQ7R	31,868	SOLP
WB2JAY	50,600	SOLP	N3LL	16,456	SOLP	W28T	22,680	SOLP	W3XO/5	31,020	SOLP	W6JK	24,650	SOLP
WA2VNV	40,097	SOLP	K4FIW	14,168	SOLP	VA3ZV	21,372	SOLP	KBØHH	21,040	SOLP	K7YDL	22,995	SOLP
K1TEO	414,400	SOHP	W5ZN	114,918	SOHP	WØUC	128,234	SOHP	W9RM	148,685	SOHP	K6KLY	45,854	SOHP
K1RZ	254,016	SOHP	NP4A	93,704	SOHP	KU8Y	101,493	SOHP	K5AM	148,645	SOHP	K7CW	39,298	SOHP
K1TR	75,330	SOHP	W3IP	76,140	SOHP	K9CT	76,736	SOHP	W5PR	134,185	SOHP	W6FM	31,302	SOHP
N3HBX	75,208	SOHP	W5MRB	48,018	SOHP	K8TQK	56,848	SOHP	WØGHZ	71,377	SOHP	WA6OSX	27,508	SOHP
W1AN	61,774	SOHP	K4PI	38,416	SOHP	VE3ZV	53,040	SOHP	WB2FKO	43,026	SOHP	K7YM	26,215	SOHP
W1QK	4,816	SOP	N4OGW	7,056	SOP	N8XA	3,337	SOP	KJ5RM	4,307	SOP	KB5WIA	13,932	SOP
WB2AMU	2,508	SOP	NV4B/5	3,330	SOP	W9SZ	969	SOP				KG6IYN	7,137	SOP
K1ZK	2,356	SOP	KC8KSK	220	SOP	AA9IL	4	SOP	AB5EB	63,896	SO3B	W6KKO	1,775	SOP
KA1SYG	1,026	SOP	W3MEO	98	SOP	AE8M	2	SOP	KØNR	23,900	SO3B	N6ZE	1,148	SOP
N7UN/3	1,014	SOP	K3TW	1	SOP				KC7QY	12,510	SO3B	KD7WPJ	290	SOP
N1ZN	11,529	SO3B	W8SPM	30,550	SO3B	KO9A	23,392	SO3B	AA5AM	11,180	SO3B	N7IR	31,920	SO3B
VE1SKY	7,452	SO3B	WA4LDU	7,236	SO3B	WN8R	10,205	SO3B	WDØBGZ	11,147	SO3B	N7EME	16,878	SO3B
W1DYJ	7,228	SO3B	KM4ID	4,930	SO3B	K8AB	1,276	SO3B				AL1VE	8,550	SO3B
N2JJ	5,883	SO3B	N4AU	391	SO3B	WB9TFH	1,232	SO3B	WB5HVH	252	SOFM	N6LB	6,683	SO3B
W2XL	5,014	SO3B	W4MDF	315	SO3B	KB8UUZ	1,196	SO3B				N9NA	5,616	SO3B
W2EV	3,612	SOFM				W8DIY	161	SOFM	K5QE	273,000	LM	K16JJW	1,425	SOFM
K2SI	1,065	SOFM	KK4OSG	3,725	SOFM	KD8VSQ	20	SOFM	NØEO	12,960	LM	KA6AMB	640	SOFM
KB1YSK	215	SOFM	N1LF	4	SOFM				WØSHL	9,590	LM	W3SKX	630	SOFM
W2GMT	60	SOFM	K8GP	267,852	LM	N8ZM	91,300	LM	WØW	6,237	LM	N9VM (N1VM, op)	451	SOFM
W1FP	8	SOFM	AA4ZZ	216,999	LM	W9JN	12,616	LM	K5LRW	1,950	LM	KE6PLA	261	SOFM
K2LIM	231,420	LM	W4IY	144,358	LM	KC8AAV	11,218	LM	K5TR	268,500	M	WA7JTM	65,689	LM
W3SO	202,335	LM	W4IY	144,358	LM	K9LAS	3,150	LM	NØSZ	70,525	M	K7TM	17,927	LM
N2NT	150,917	LM	K8EP	113,900	LM	N9TF	2,225	LM	KC5MVZ	8,494	M	WO1S	3,190	LM
WA2CP	22,848	LM	W4NH	50,096	LM				WØLFA	2,408	M	N1GE	2,448	LM
K2BAR	18,300	LM				VE3WCC	56,610	M	KN5S	550	M	W6TE	160,556	M
W2SZ	883,575	M	K5KDX	13,770	M	N2BJ	21,980	M	KK6MC/R	39,480	R	W7FSL	135,044	M
W3CCX	526,864	M	W4UAL	6,902	M	N9UHF	17,136	M	WØZQ/R	34,612	R	KBØZO	98,102	M
W2LV	140,304	M	WN2E	6,240	M	VE3RB	6,028	M	N5RZ/R	19,152	R	K6ARP	36,156	M
W1XM	60,368	M	K4E	2,760	M	K8JH/8	1,632	M	KCØP/R	8,448	R	WB6W	13,635	M
KV1J	55,000	M	AD4ES	2,278	M				NØHZO/R	8,184	R			
WA3PTV/R	46,036	R	AG4V/R	28,032	R	VE3OIL/R	95,583	R	KD5EUO/R	14,300	RL	K7BWH/R	23,534	R
NN3Q/R	40,656	R	K4QF/R	1,938	R	W9SNR/R	43,415	R	W3DHI/R	8,840	RL	WA7BBJ/R	15,428	R
WA3RGQ/R	35,295	R	AD4IE/R	1,025	R	VE3WJ/R	40,940	R	ABØYM/R	4,719	RL	N6ORB/R	13,446	R
K2TER/R	34,848	R	N4TZH/R	78	R	KF8QL/R	34,170	R	KD5IKG/R	2,592	RL	N6VI/R	11,886	R
KF2MR/R	33,456	R				VE3FHM/R	4,214	R	WAØCNS/R	1,254	RL	KD7DCR/R	7,808	R
K2QO/R	32,340	RL	K2JB/R	20,010	RL	ACØRA/R	96,180	RL				WW7D/R	38,133	RL
K2EZ/R	19,734	RL	WA4JA/R	816	RL	K9JK/R	8,160	RL	W7QQ/R	11,712	RU	N6GP/R	12,749	RL
KM3T/R	17,794	RL				K9PW/R	6,480	RL	KØBBC/R	9,240	RU	W4OEP/R	7,008	RL
KØBAK/R	6,550	RL				WB8BZK/R	6,048	RL	WØATV/R	636	RU			
KC2PJH/R	3,090	RL				K8DOG/R	3,510	RL						
W3HMS/R	13,188	RU												
KJ1K/R	10,542	RU												
AB4CR/R	740	RU												
KD2IRH/R	208	RU												