ARRL June VHF Contest 2013 Results

By Bob Streigl, K2DRH

This wasn't January…so where did all the propagation go?

After several years of above average propagation during the June VHF Contest, it was almost inevitable that we were due for a down year. While conditions on 6 meters were relatively good the week before the contest, for most participants it did not carry through to the weekend of June 15-17. Tropospheric ducting or other enhanced modes on 2 meters and above did not seem to play a major role for the majority of stations either. Ryan, KB9OWD, in EN53 IL may have overstated things slightly by comparing it to a recent root canal, but he was not the only one feeling frustrated; Mike, K7ULS, in DN41 (UT) also mentioned "pulling teeth."

Most other stations voiced similar perceptions of poor band conditions and slow QSO rates in their post contest comments. Bobby, N3LL, in EL86 (FL) claimed these were the worst June VHF Contest conditions he has experienced in over 35 years of operating. Jeff, K1TEO, in FN31 (CT) made only 17 6 meter sporadic E (Es) contacts in the whole contest, fewer than he did in September or even January. Bill, K3WA, in EN50 (IL) summed it up: "A long, slow slog. Read a good book. Watched the grass grow. Mowed the grass. Watched the grass grow again. Worked out on my treadmill. And worked the desultory sparse openings to get very few QSOs and 9 new grids. Just wait 'til next year."

Logs

1010 logs were submitted — significantly fewer than the 1222 that were submitted in 2012 —but that's not surprising considering the lack of exciting propagation in most areas. As always, the number of logs submitted was far less than the total number of participants. Overall QSO and grid totals were significantly lower this year. The number of Classic Rovers has also continued to drop — down from 49 in 2011 and 34 in 2012, to 25 in 2013.

Based on a review of the submitted logs against the June contest records published on the ARRL website (except for one multiop record noted below) no existing section or division scoring records were broken. However, initial record scores for the new SO3B (Single Operator, Three-Band) and SOFM (Single Operator, FM-Only) categories and the new Canadian sections were established. One longstanding record for the Mississippi section was broken when Unlimited Multioperator (UM) WN2E scored 21,008 points to break the record of 8804 points set in 1988 by N5KDA. K8DOG posted the first Unlimited Rover (RU) score for the Michigan section and Great Lakes division. The previous contest score records are available for review on the ARRL website at www.arrl.org/contest-records and will be updated to reflect the new records set in 2013.

The AB5EB 3-element 6 meter OWL Yagi array. (Photo by AB5EB)

DX

Fewer DX stations sent in their logs than last year because 6 meter conditions did not favor much in the way of DX. Canadian participation was also lower than last year — 70 logs submitted in 2012, but only 42 in 2013. Nine stations in Mexico submitted their logs. Jorge, XE2X, mounted a respectable 6 meter-only effort, as did Julian, XE2JS, and Javier, XE2CQ. Three stations submitted logs from Cuba including Limited Multioperator (LM) T43S. Three stations from Alaska;

KL7YK, KL7AIR, KL7UW, as well as KH7Y from Hawaii all submitted multi-band efforts. Finally, Pedro, HI8PJP, submitted a log with one QSO for the SO3B category.

On the Bands

Despite the majority of stations experiencing only short Es openings with sharply defined footprints, some sections had much better luck with 6 meter propagation — notably Colorado, Texas, New Mexico, and Arizona. During the past few years 6 meter QSO and grid totals have significantly boosted the scores of stations in these areas, and this year was no exception. Jay, W9RM, at his soon-to-be-permanent QTH in DM58 (CO) had constantly shifting 6 meter openings both days, often in multiple directions at once. He took full advantage of them by logging the most 6 meter QSOs of anyone in the contest while using only a single 5-el Yagi on a push-up pole at 25 feet. Perennial STX 6 meter powerhouses George, K5TR in EM00, and George, NR5M in EM10, also made good use of their more impressive antenna farms to mine the band. And despite reporting poor 6 meter conditions in EM31 (STX) the gang at K5QE was still able to log more 6 meter multipliers than any other station.

Dave, NN1N, dodged some weather in DN65 near Wyola, WY to make some 6 meter QSOs. (Photo by NN1N)

Other notable 6 meter totals were logged by Pete, WA7JTM, in DM33 (AZ) and Mark, K5AM, in DM62 (NM), and the operators at WØKVA, in DM89 (CO). The multiops at W2SZ and K8GP also made high QSO numbers despite the lack of sustained Es apparent in their much lower grid count. But unlike last year, with six stations reporting more than 1000 QSOs and another 51 with more than 500 contacts on the band, only Keith, W9RM, came anywhere close to the thousand QSO mark with 920; only 17 stations made it over 500.

In June, 2 meters is the go-to band when 6 meters closes and is most often a springboard for multiple band runs. Despite significantly less 6 meter propagation, the number of stations working more than 100 QSOs on 2 meters remained about the same with 27 this year versus 29 in 2012. But it's no surprise that 7 out of the 10 highest 2 meter QSO totals were made by multiops K8GP, W2SZ, K2LIM, W3SO, W3CCX, N6VI, and W2LV. Jeff, K1TEO, turned his lack of 6 meter Es into the 3rd highest 2 meter QSO total. Andy, K1RA, and Art, K1BX, operating at K1WHS filled out the rest. N6VI is notable as the only West Coast station among the top 2 meter QSO scorers. While most of the multiops also do WSJT meteor scatter and a few do EME contacts to boost their 2 meter grid totals, one really stands out. K5QE used both meteor scatter and EME to accumulate 102 grids on 2 meters, 1/3 more than K8GP at 68. As is true of most western stations, Marshall has many fewer 2 meter neighbors than you would find in other areas, so his pool of stations that are workable by terrestrial propagation is limited.

222 MHz is a great band but there is a limited amount of commercial equipment available since the "Big 3" Japanese rig manufacturers (Icom, Kenwood, and Yaesu) do not normally support it. Most of the time it has as good or better propagation than 2 meters and better immunity to manmade noise. QSOs score the same higher point value as 432 as well as providing additional multipliers. While competitive multiops, rovers, and single ops know they must have it, many stations justify not having a separate rig or transverter for this band because of increased cost and significantly lower QSO total than 2 meters (roughly 35%) or 432 (about 60%). Unfortunately this also tends to make rig unavailability and lower QSO totals on 222 a self-fulfilling prophecy. Only three stations in the June VHF contest had more than 100 QSOs on 222, all of them multiops. While it is more commercially available on multiband rigs, 432 generally has more difficult propagation characteristics and coax loss can be a significant factor. More attention to detail is required to be successful on this band. 6 stations in the June contest had 432 QSO totals over 100, four of them multiops.

QSOs on 902 MHz and above count for more points and additional multipliers; the technical complexity and difficulty rises with the frequency, and so does the cost to put together an effective station while the QSO total continues to go down. Adding SHF and microwave bands with their higher point values tends to be the province of the more technically minded as well as being a necessity for the more competitive stations. But diminishing returns come with low geographical population density where there are few, if any, other

stations available to work. Generally rovers and portables have an easier time adding these bands than fixed stations since high-gain antennas are significantly smaller and coax runs are shorter. The ranks of the Classic and Unlimited Rovers who do carry them continues to dwindle, and along with that the number of QSOs other stations make on these bands.

Single Operators

The majority of contest activity originates with the Single Operators who take advantage of their station capabilities, ranging from a single band with modest antenna to a multiband station with stacked arrays. The Single Operator, Low Power (SOLP) category has had the most logs submitted since its inception and has seen successful portable as well as fixed station efforts. The Overall SOLP W3ZZ Memorial First Log Award has been sponsored by Tim, K3LR, and Dave, W9PA, for a second year and goes to KF7PSM in DM26 (NV). I'm proud to confirm I worked Pete! Good job and welcome to the ranks of SOLP VHF+ contesting!

Top Ten - Single Operator, Low Power

K2DRH	169,926
AB5EB	88,615
WB1GQR	84,249
NØPOH	80,088
N4QWZ	78,960
AF1T	69,156
NØLL	68,425
KC9BQA	63,840
N9DG	63,802
KKØQ	59,760

Bob, K2DRH, in EN41 (IL) built a single-tower multiband station with pairs of long boom antennas on each band that has helped him earn 1st in the SOLP category for 9 of the past 10 years. This year, with the help of a new 6 meter tower and array he attained a score of 169K using eight bands through 3456 MHz to put win number 10 in the books. In only his second June VHF Contest, Mike, AB5EB, added an Innovantenna 3-el OWL (Optimized Wideband Low-impedance) stack to his 7-el LFA (Loop-Fed Antenna) and took advantage of the STX 6 meter propagation with a single-band effort that took 2nd place with 88K. Frequent Top Ten finisher WB1GQR manned by Mitch, W1SJ moved up to 3rd this year with 84K, also using eight bands through 3456 MHz. NØPOH placed next with a seven-band effort of 80K and Todd, N4QWZ, completed the Top Five with a 78K six-band log.

Top Ten - Single Operator, High Power

K1TEO	373,250
W9RM	230,622
K1RZ	218,816
K5TR	200,999
NR5M	196,448
K1WHS	151,677
K5AM	148,890
WA2FGK	123,888
W3PAW	117,450
W6OAL	113,064

The Single Operator, High Power (SOHP) category is where the true heavyweights in the VHF world exercise their capabilities. Jeff, K1TEO, in FN31 (CT) has built a very effective 10-band station; his continuing success over more than a decade shows his dedication. Once again Jeff takes top honors with 373K, even after a 5760 MHz failure soon after the contest started. This is about half of his winning score in 2012, attesting to the generally poor conditions experienced in most places. The big news in SOHP was Jay's, W9RM, three-band effort from DM58 (CO) who moved up from 8th place last year to take 2nd place in his second June VHF outing from his soon-to-be new QTH. Using only Field Day-style antennas with a temporary setup in a pole barn he racked up a great score of 230K, mostly on the merits of his 6 meter effort. Jay was a 6 meter operator at the now silent K9NS EN52 (IL) Limited Multiop and says to "watch out when I put up some real antennas." Dave, K1RZ, is also no stranger to the Top Ten and posted a nine-band effort of 218K to take third place. George, K5TR, came in 4th with 200K from respectable totals on the bottom four bands and George, NR5M, came in 5th with a 6 meter only effort of 196K.

Top Ten – Single Operator, Portable

N6NB	96,036
KJ5RM	32,384
W1MR	26,400
W9SZ	16,600
KB5WIA	15,650
K9AKS	8,496
N2SPI	4,773
AF6RR	3,103
WB9PNU	2,205
WB2AMU	1,675

The Single Operator, Portable (SOP) category limits stations to 10 W, which makes it more difficult to attract the attention of other stations. Wayne, N6NB, who is a living legend in VHF+ contesting and has built more tower trailers than most folks have erected towers, once again succeeded in this category. With his 96K score it is evident that conditions play a somewhat lesser part in his winning strategy than the pursuit of the Southern California Contest Club rover pack.

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The K7ULS Mobile Dental Surgical Office (aka Single-Op Portable) in DN41. (Photo by K7ULS)

Jory, KJ5RM, found a great spot in EM12 to take advantage of the 6 meter propagation to TX and with three bands took second place with 32K. Chris, W1MR, (NH) took 3rd this time with his six-band station scoring 26K. Fourth place is held by Zack, W9SZ, with 16K who takes 10 bands to a hill in EN50 (IL) every year. It's definitely worth seeking out his 10 dB weaker signal on 2 meters since he and I can usually sweep on all of my eight bands. Dave, KB5WIA, in CA took the 5th spot with a 15K 4-band effort and over 100 more QSOs than Zack, but the additional multipliers and points on the microwaves

Two new single operator categories were added to this year's June VHF Contest. Single Operator, Three-Band (SO3B) is already looking like a big hit with 108 entries that mostly put a dent in the SOLP log totals. Single Op, FM-Only (SOFM) generated nine log submissions. The majority of these entries set the first section, division, and contest records for these categories.worked to Zack's advantage.

Top Ten - Single Operator Three Band

AA5AM	72,488
K7XC	63,510
KØNR	48,117
KO9A	41,944
KF7NP	23,532
N7IR	22,632
KI5YG	16,432
K6MI	16,402
W9PA	13,608
N9ISN	9,936

It was a battle of NTX stations for the initial first-place score in SO3B. Scott, AA5AM, in EM13 made the switch from SOLP and parlayed the 6 meter openings to edge out Tim, K7XC, with 72K. K7XC used his tower trailer for the first June VHF Contest at his new QTH in EM12 to score 2nd place with 63K. They were only separated by seven QSOs but Scott managed to find 20 more multipliers on 6 meters, pushing him well over the top. We hope to see many more battles like this with these two stations in the future! Bob, KØNR, in DM78 (CO) also used his operating skills to rack up good 6 meter totals and secure 3rd place with 48K. Jim, KO9A, in EN52 (IL) made the best of the meager Midwest 6 meter openings on Sunday and leveraged good results on 2 meters and 432 to take 4th place with 42K. Rounding out the Top Five was Burke, KF7NP, in AZ who also took advantage of 6 meters with 23K to barely squeak by Gary, N7IR, in an adjacent grid by less than 1K.

The K7XC SO3B antennas at his new QTH in TX. (Photo by K7XC)

While entries in the SOFM category were few, they did span both coasts and most included QSOs on all of the bottom four bands. The initial top score in the SOFM category was logged by Art, KBØLYL, from EN34 (MN) with 146 2 meter QSOs in 10 grids for 1460 points — congratulations! Art was closely followed by Terry, K6TDI, with 23 Qs and 12 grids for 360 points and Ev, W2EV, from the opposite coast with 312 points. Fourth place went to Bob, VE6CCL, from AB— the only Canadian to participate in this new category

Top Ten - Single Operator FM-Only

K6TDI	360
W2EV	312
VE6CCL	242
N9VM	216
KB1YNT	75
W7DMU	66
KD2DLL	27
AK2S	12

Multioperator

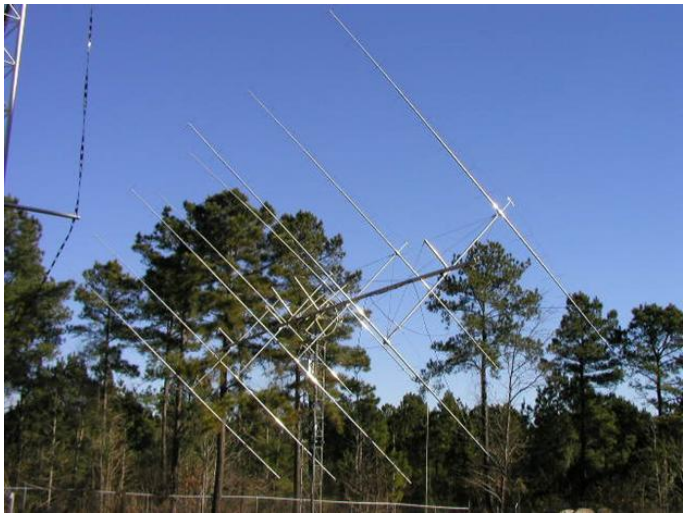
These stations and the crews dedicate much time and effort in finding just the right spot to operate; many carry and set up equipment and antennas in remote locations every year. The Limited Multiops (LM) can operate on as many bands as they wish but can only submit the results from four bands for scoring. Most acquire their best score from the bottom four bands (50, 144, 222, and 432 MHz). The Unlimited Multiops (UM) can score QSOs from practically DC to daylight. These stations are on the air all the time and they set the limits of what's possible for VHF+ contesting.

Top Ten - Limited Multioperator

K5QE	383,691
W3SO	214,140
K2LIM	165,725
WA7JTM	142,780
N5RZ	126,000
AA4ZZ	119,250
N8ZM	96,775
W2LV	78,648
W4NH	76,311
K4MM	35,632

Despite their disadvantageous distance from major population centers that have more stations to work, K5QE posted a score of 383K to win the LM category this year. Being in the area with some of the best 6 meter openings during a down year, and posting the highest 6 meter grid total certainly didn't hurt their score. But it was really their all-out efforts on 2 meters really put them over the top with the highest grid total of the contest on that band as well.

W3SO garnered 214K to take second place with much lighter 6 meter results but solid performances on the other three bands. K2LIM with 165K has a firm hold on 3rd place for the second year in a row with more QSOs then W3SO but fewer multipliers on 222 and 432. The crew at WA7JTM in AZ took advantage of conditions and had an excellent run on 6 meters that propelled them into 4th place with 42K. And Gator, N5RZ, with YL Deborah, N5RZA, turned their mostly 6 meter effort into a 5th place finish with 126K. Sadly, missing this year was the top 3 finisher efforts of K9NS in IL due to harsh winter ice storms taking out many of the antennas at veteran VHF+ contester Frank's, K9HMB, QTH. I know all of us in the Midwest miss their big signal and hope that things get back to normal soon



The EME array at K5QE is an array of 8 Yagis with 18 elements each (8x18) with custom elements for EME. The cross boom is 60 feet. (Photo by K5QE)

Top Ten - Unlimited Multioperator

W2SZ	940,416
K8GP	650,076
N6VI	475,200
W3CCX	315,668
W4IY	197,580
VE3WCC	194,575
WØKVA	183,359
K9CT	131,776
KBØHH	119,780
AA7XT	93,786

The stalwart crew at W2SZ on Mt Greylock posted another win in the UM category. Despite significantly lower grid totals than last year on 6 and even 2 meters they were still able to log a score of 940K on the strength of their 902 and above efforts. This group has been in the June VHF Contest every year since 1983 and has claimed the top spot in this category 23 times. Their dedication year after year is admirable. The Grid Pirates, K8GP, relative upstarts since 1993, along with their sorely missed muse, Gene, W3ZZ (SK), are among the few who have also reached the top of this category. For the second excursion to their new spot in FM19 this year, they posted a 2nd-place finish of 650K with outstanding totals on 6 and 2 meters, but were unable to take the same command of the higher bands. N6VI on the West Coast moved up into the 3rd spot in this category with a solid performance on 10 bands. W3CCX also posted a solid performance of 315K including 15 QSOs on Light to take 4th and W4IY came in 5th with 197K narrowly beating VE3WCC by 3K.

Rovers

The rovers are invaluable to everyone's contest efforts but seem to be a vanishing breed. They are the only way I can even work my own grid and several adjacent grids on the microwave bands. Many have abandoned the

Classic Rover (R) setup for the easier Limited Rover (RL) category. Some have given up roving all together and their absence hurts everyone. Not a contest goes by that we don't see comments advocating a change back to the old rules in which rovers also get a new grid from the stations they work every time they change grids as an incentive to building better rovers and working more bands. In the light of declining participation we really need to reevaluate these changes that were said to "improve" the rover experience for everyone.

Top Ten - Limited Rover

AL1VE/R	34,959
K2QO/R	33,562
WW7D/R	27,588
W9YOY/R	22,875
N6ORB/R	17,766
KK6MC/R	17,563
N6GP/R	15,768
KV2X/R	15,120
W5VY/R	13,272
N2ZBH/R	12,672

In the RL category Tim, AL1VE, once again captured the field with 3 bands and a score of 35K with good totals on 6 meters and by roving in seven grids in OK. Mark, K2QO, with Paul, W2TAU, by his side came in a close second with 33K by visiting eight grids in WNY. Darryl, WW7D roved in nine relatively rare grids in WWA and OR to amass a score of 27K to capture 3rd place. Rounding out the Top Five were Charles, W9YOY, who added eight grids in IL with a score of 23K and Dave, N6ORB, who activated three grids and logged a score of 17K

Limited Rover AL1VE on the road in OK. (Photo by AL1VE)

Top Ten - Classic Rover

K6AH/R	208,254
KI6FGV/R	182,637
N6HD/R	164,780
VE3OIL/R	141,372
KJ5MSY/R	126,126
VE3SMA/R	116,775
NN3Q/R	55,776
W9SNR/R	54,908
VE3WJ/R	52,074
K1DS/R	43,706

The stalwart rovers of the Southern California Contest Club took the top three spots in the R category. Andre, K6AH, was the leader of the pack with 208K— amassed on 10 bands through 10 grids. Jim, KI6FGV, took second place using 10 bands with 182K by visiting nine grids and Dave, N6HD, took 3rd also operating on 10 bands from nine grids. Perennial rover Russ, VE3OIL, ran 11 bands in nine grids around Ontario with a score of 141k to take 4th place. Mark, KJ5MSY, also ran with the SCCC rovers in nine grids to amass a score of 126K.

Top Ten - Unlimited Rover

W6TE/R	189,000
WA3PTV/R	47,044
W3HMS/R	19,520
KJ1K/R	12,696
KRØVER/R	10,416
WØBL/R	9,936
KCØP/R	4,401
NØHZO/R	3,575
K8DOG/R	3,042
NV6C/R	3,038

There were ten entries in the Unlimited Rover (RU) category. Dave, W6TE, roamed a whopping 11 grids in the SJV SCCC stomping grounds with 10 bands to dominate the field with 189K. Joe, WA3PTV, ran four grids in the hills of WPA with 10 bands to garner 47K for second place. John, W3HMS, also fielded 10 bands for a three-grid rove through EPA that netted him 19K. Sig, KJ1K, placed 4th with nine bands on a six-grid rove in WMA with 12K. In 5th Eric, KRØVER, roamed through six grids for 10K.

Affiliated Club Competition

Medium Club Category

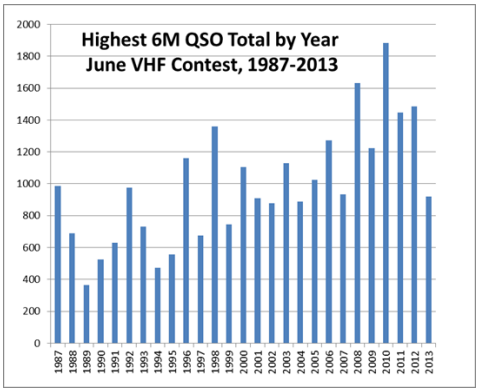
Southern California Contest Club	23	1369498
Potomac Valley Radio Club	35	1339392
Contest Club Ontario	19	642152
Mt Airy VHF Radio Club	13	636754
Grand Mesa Contesters of Colorado	11	509534
North East Weak Signal Group	17	606322
Society of Midwest Contesters	47	547744
Central Texas DX and Contest Club	9	419111
DFW Contest Group	10	335230
Northern California Contest Club	22	308932
Badger Contesters	14	305211
Pacific Northwest VHF Society	20	269307
Arizona Outlaws Contest Club	27	232468
Northern Lights Radio Society	15	229000
Yankee Clipper Contest Club	20	202371
Carolina DX Association	5	139663
Florida Contest Group	13	127548
North Texas Contest Club	3	88434
Tennessee Contest Group	7	81800
Cold Brook Contest Club	5	49316
Frankford Radio Club	9	45049
Mad River Radio Club	7	44317
Alabama Contest Group	7	22274
CTRI Contest Group	4	20380
South Jersey Radio Assn	3	13301
Georgia Contest Group	4	5133
South East Contest Club	5	4969
Minnesota Wireless Assn	6	2655
Rochester (NY) DX Assn	3	2046
Willamette Valley DX Club	4	1864
Hudson Valley Contesters and DXers	3	632

Local Club Category		
Stoned Monkey VHF ARC	4	46333
Florida Weak Signal Society	4	31776
Chippewa Valley VHF Contesters	3	22028
Bristol (TN) ARC	8	21231
Kansas City DX Club	3	11887
Granite State ARA	3	9847
Hilltop Transmitting Assn	3	8302
Contoocook Valley Radio Club	3	5577
Portage County Amateur Radio Service	3	3790
Bergen ARA	3	2916
Raritan Bay Radio Amateurs	4	2713
10-70 Repeater Assn	3	279

A Historic Look at the June VHF Contest, by Curt Roseman, K9AKS

Many participants have noted poor conditions in the 2013 June VHF Contest, especially on 6 meters. How did the 2013 contest stack up against previous years? To partly answer this question, I compiled the highest QSO and grid totals for each of the June contests since grid squares were first used as multipliers in 1985. The data are shown in the two graphs.

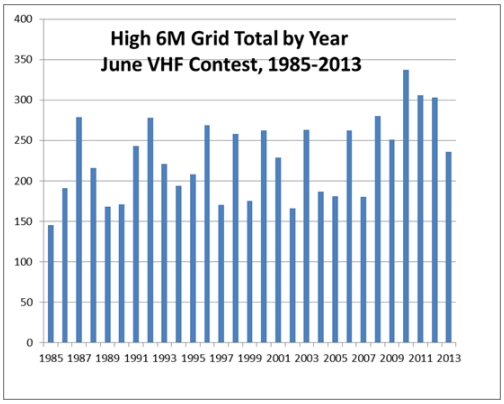
The data for QSO totals only goes back to 1987 because the information is not available in the published results for the first two years. The high QSO and grid totals for a given year are certainly not perfect indicators of the overall conditions across the continent, but they are probably the two best single indicators.



The majority of high QSO totals were attained by stations in the northeast part of the United States, whereas the majority of the highest grid totals came from stations near the middle of the United States. Both graphs ignore location and emphasize the trends over time.

The trend in highest QSO totals is unmistakable. Although the saw-tooth pattern indicates dramatic year-to-year changes, the number of QSOs has steadily climbed over the years. The introduction of HF rigs with 6 meters in the 1990s is one factor that has led to increased activity and associated increases in QSO totals.

The change as shown on the Grid Total graph, however, is not as clear. 2010-2012 did show remarkably high totals. If you look at the graph for the entire pre-2010 period, the trend is almost level. Although it certainly helps, the dramatic increases in activity, as measured by QSO totals, do not automatically increase grid totals. Grid totals are probably more a result of how widespread sporadic-E propagation was in the contest and less influenced by levels of activity.



Epilog

A common observation among 6 meter operators who have been through a few sunspot cycles is that Es propagation is less prevalent during the peak sunspot years. When I've voiced this observation on the ON4KST chat page several very knowledgeable and respected stations who keep statistics on such things told me in no uncertain terms that it's without merit. True or not, you certainly won't disprove it from the QSO and grid totals reported during this June contest. Like K3WA said, "Just wait 'til next year." See you on June 21-23 in 2014!

Sponsored Plaque Winners

Plaque Category	Plaque Sponsor	Winner
Overall Single Operator High Power	Southeastern VHF Society	K1TEO
Overall Single Operator Low Power	Society of Midwest Contesters	K2DRH
Overall Single Operator 3-Band	Northern Lights Radio Society	AA5AM
Overall Single Op Low Power, First Log W3ZZ First Log Award — Memorial	Tim K3LR and Dave W9PA	KF7PSM
Overall Multioperator	Randy Stegemeyer, W7HR	W2SZ
Overall Limited Multioperator Gene Zimmerman, W3ZZ Memorial	ARRL Contest Branch	K5QE
Overall Rover	73 Tim KE3HT/SK, Microwave DX Addict	K6AH/R
Atlantic Division Rover	Potomac Valley Radio Club	NN3Q/R
Dakota Division Single Operator Low Power	Northern Lights Radio Society	WA3EOQ
Hudson Division Single Operator Low Power	NY2NY — In Memory Of Dick, W2GFF	WB2SIH
Northwestern Division Single Operator High Power	Boring, OR Amateur Radio Club	W7EW
Northwestern Division Multioperator	Randy Stegemeyer, W7HR	N7NW
Northwestern Division Rover	Pacific Northwest VHF Society	KD7DCR/R
Roanoke Division Rover	Potomac Valley Radio Club	W4STR/R
Southeastern Division Single Operator High Power	Southeastern VHF Society	K4PI
Southwestern Division Single Operator Low Power	Bud Semon, N7CW	WJØF
Canada Single Operator Low Power	Northern Lights Radio Society	VA3ZV

Division Winners

Single Operator Three Band

Atlantic	KV2M	8,400
Central	KO9A	41,944
Dakota	ACØTA	1,736
Delta	N5QO	2,193
Great Lakes	AC8HU	6,902
Hudson	N2SLO	4,454
Midwest	KØJQA	1,092
New England	W1FW	5,976
Northwestern	K7BG	8,680
Pacific	K6MI	16,402
Roanoke	WA4LDU	1,066
Rocky Mountain	KØNR	48,117
Southeastern	K1TO	9,636
Southwestern	KF7NP	23,532
West Gulf	AA5AM	72,488
Canada	VE7DAY	7,888

Single Operator Low Power

Atlantic	WA3EOQ	28,531
Central	K2DRH	169,926
Dakota	WØJT	10,614
Delta	N4QWZ	78,960
Great Lakes	K8GDT	17,056
Hudson	WB2SIH	51,612
Midwest	NØLL	68,425
New England	WB1GQR	84,249
Northwestern	KEØCO	14,706
Pacific	K6ATZ	14,384
Roanoke	K4FJW	6,600
Rocky Mountain	NØPOH	80,088
Southeastern	N3LL	44,388
Southwestern	WJØF	33,264
West Gulf	AB5EB	88,615
Canada	VA3ZV	16,985

Single Operator High Power

Atlantic	K1RZ	218,816
Central	WØUC	95,765
Dakota	WØGHZ	44,776
Delta	W5MRB	42,075
Great Lakes	K8TQK	52,096
Hudson	WA2MJP	2,492
Midwest	WØLGQ	17,072
New England	K1TEO	373,250
Northwestern	W7EW	48,488
Pacific	K6KLY	73,168
Roanoke	W3IP	37,856
Rocky Mountain	W9RM	230,622
Southeastern	K4PI	37,050
Southwestern	W6PH	31,250
West Gulf	K5TR	200,999
Canada	VE3ZV	70,980

Single Operator FM Only

Atlantic	W2EV	312
Hudson	KD2DLL	27
New England	KB1YNT	75
Northwestern	W7DMU	66
Pacific	N9VM	216
Southwestern	K6TDI	360
Canada	VE6CCL	242

Limited Multioperator

Atlantic	W3SO	214,140
Central	W9RVG	9,796
Dakota	NØEO	19,758
Delta	K5KDX	23,517
Great Lakes	N8ZM	96,775
Hudson	W2LV	78,648
New England	W1QK	34,320
Northwestern	K7NG	9,398
Pacific	N6ML	11,690
Roanoke	AA4ZZ	119,250
Rocky Mountain	WØLSD	29,008
Southeastern	K4MM	35,632
Southwestern	WA7JTM	142,780
West Gulf	K5QE	383,691
Canada	VE3EG	1,275

Unlimited Multioperator

Atlantic	W3CCX	315,668
Central	K9CT	131,776
Dakota	WØVB	360
Delta	W5ZN	32,805
Great Lakes	K8MM	28,737
Hudson	W2JJ	2,900
Midwest	WQØP	62,556
New England	W2SZ	940,416
Northwestern	N7NW	58,926
Pacific	W6TV	74,375
Roanoke	K8GP	650,076
Rocky Mountain	WØKVA	183,359
Southeastern	W4ENN	4,324
Southwestern	N6VI	475,200
West Gulf	KBØHH	119,780
Canada	VE3WCC	194,575

Single Operator Portable

Atlantic	N2SPI	4,773
Central	W9SZ	16,600
Delta	NV4B/5	770
Great Lakes	K9AKS	8,496
Hudson	WB2AMU	1,675
Midwest	WB9PNU	2,205
New England	W1MR	26,400
Pacific	KB5WIA	15,650
Roanoke	KC8KSK	35
Rocky Mountain	KD7WPJ	72
Southeastern	K3TW	1
Southwestern	N6NB	96,036
West Gulf	KJ5RM	32,384

Classic Rover

Atlantic	NN3Q/R	55,776
Central	W9SNR/R	54,908
Dakota	KØMHC/R	12,648
Delta	AG4V/R	24,528
Great Lakes	KF8QL/R	5,184
Northwestern	KD7DCR/R	4,092
Pacific	K6AH/R	208,254
Roanoke	W4STR/R	84
Rocky Mountain	W7QQ/R	8,550
Southwestern	N6TEB/R	12,177
Canada	VE3OIL/R	141,372

Limited Rover

Atlantic	K2QO/R	33,562
Central	W9YOY/R	22,875
Dakota	KØBBC/R	10,248
Delta	W5VY/R	13,272
Great Lakes	W8ISS/R	465
Hudson	N2ZBH/R	12,672
Midwest	WAØRKQ/R	156
New England	W1PL/R	1,387
Northwestern	WW7D/R	27,588
Pacific	N6ORB/R	17,766
Roanoke	WBØPOH/R	570
Rocky Mountain	KK6MC/R	17,563
Southwestern	N6GP/R	15,768
West Gulf	AL1VE/R	34,959
Canada	VE3GJ/R	3,240

Unlimited Rover

Atlantic	WA3PTV/R	47,044
Dakota	KCØP/R	4,401
Great Lakes	K8DOG/R	3,042
New England	KJ1K/R	12,696
Pacific	W6TE/R	189,000
Rocky Mountain	KRØVER/R	10,416
Southwestern	NV6C/R	3,038

Regional Leaders

QRP/LP/HP/3B/FM = Single-Op Portable/Low Power/High Power/Three-Band/FM-Only; LM/UM = Limited/Unlimited Multioperator; R/RL/RU = Classic/Limited/Unlimited Rover

Northeast Region

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

Call	Score	Cat
WB1GQR	84,249	LP
AF1T	69,156	LP
WB2SIH	51,612	LP
K1KG	48,654	LP
K2KIB	38,658	LP
K1TEO	373,250	HP
K1RZ	218,816	HP
K1WHS	151,677	HP
WA2FGK	123,888	HP
W3PAW	117,450	HP
W1MR	26,400	QRP
N2SPI	4,773	QRP
WB2AMU	1,675	QRP
K2FR	1,638	QRP
N1PRW	744	QRP
KV2M	8,400	3B
W1FW	5,976	3B
N3UM	4,699	3B
N2SLO	4,454	3B
W3LL	3,948	3B
W2EV	312	FM
KB1YNT	75	FM
KD2DLL	27	FM
AK2S	12	FM
W3SO	214,140	LM
K2LIM	165,725	LM
W2LV	78,648	LM
W1QK	34,320	LM
W3HZU	21,183	LM
W2SZ	940,416	UM
W3CCX	315,668	UM
K3EOD	51,408	UM
WB3IGR	14,213	UM
W1AN	7,832	UM
NN3Q/R	55,776	R
K1DS/R	43,706	R
KA3KSP/R	99	R
K2QO/R	33,562	RL
KV2X/R	15,120	RL
N2ZBH/R	12,672	RL
KC2SFU/R	8,154	RL
N3XUD/R	5,436	RL
WA3PTV/R	47,044	RU
W3HMS/R	19,520	RU
KJ1K/R	12,696	RU

Southeast Region

Delta, Roanoke and Southeastern Divisions

Call	Score	Cat
N4QWZ	78,960	LP
N3LL	44,388	LP
KX4R	41,529	LP
N4TWX	15,810	LP
AA5AU	13,112	LP
W5MRB	42,075	HP
W3IP	37,856	HP
K4PI	37,050	HP
W4ZRZ	34,989	HP
KE2N	31,995	HP
NV4B/5	770	QRP
KC8KSK	35	QRP
K3TW	1	QRP
K1TO	9,636	3B
W4ATL	6,110	3B
K4UB	4,092	3B
N5QO	2,193	3B
N5BLY	1,989	3B
AA4ZZ	119,250	LM
W4NH	76,311	LM
K4MM	35,632	LM
K5KDX	23,517	LM
K5GDX	22,311	LM
K8GP	650,076	UM
W4IY	197,580	UM
W5ZN	32,805	UM
WN2E	21,008	UM
N4JQQ	14,857	UM
AG4V/R	24,528	R
W4STR/R	84	R
K4YRK/R	50	R
W5VY/R	13,272	RL
WBØPOH/R	570	RL
AI4GR/R	558	RL
KI1U/R	180	RL
KS4YX/R	133	RL

Central Region

Central and Great Lakes Divisions; Ontario Section

Call	Score	Cat
K2DRH	169,926	LP
KC9BQA	63,840	LP
N9DG	63,802	LP
K8GDT	17,056	LP
VA3ZV	16,985	LP
WØUC	95,765	HP
K9EA	72,708	HP
VE3ZV	70,980	HP
K8TQK	52,096	HP
W9GA	52,029	HP
W9SZ	16,600	QRP
K9AKS	8,496	QRP
K9PLS	30	QRP
W9LGP	12	QRP
K9TMS	4	QRP
KO9A	41,944	3B
W9PA	13,608	3B
N9ISN	9,936	3B
NT9E	7,728	3B
N9TF	7,728	3B
N8ZM	96,775	LM
W9RVG	9,796	LM
WW8OH	6,240	LM
W9TE	5,831	LM
VE3EG	1,275	LM
VE3WCC	194,575	UM
K9CT	131,776	UM
N9UHF	46,287	UM
K8MM	28,737	UM
AJ9C	14,175	UM
VE3OIL/R	141,372	R
VE3SMA/R	116,775	R
W9SNR/R	54,908	R
VE3WJ/R	52,074	R
KF8QL/R	5,184	R
W9YOY/R	22,875	RL
K9JK/R	11,220	RL
K9GY/R	4,056	RL
VE3GJ/R	3,240	RL
W8ISS/R	465	RL
K8DOG/R	3,042	RU

Midwest Region

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

Call	Score	Cat
AB5EB	88,615	LP
NØPOH	80,088	LP
NØLL	68,425	LP
KKØQ	59,760	LP
N5JR	37,760	LP
W9RM	230,622	HP
K5TR	200,999	HP
NR5M	196,448	HP
K5AM	148,890	HP
W6OAL	113,064	HP
KJ5RM	32,384	QRP
WB9PNU	2,205	QRP
NØJK	110	QRP
KD7WPJ	72	QRP
AA5AM	72,488	3B
K7XC	63,510	3B
KØNR	48,117	3B
KI5YG	16,432	3B
WBØGAZ	5,035	3B
K5QE	383,691	LM
N5RZ	126,000	LM
WØLSD	29,008	LM
WØFRC	21,620	LM
NØEO	19,758	LM
WØKVA	183,359	UM
KBØHH	119,780	UM
AA7XT	93,786	UM
WQØP	62,556	UM
WØRIC	29,302	UM
KØMHC/R	12,648	R
W7QQ/R	8,550	R
N7SMI/R	500	R
AL1VE/R	34,959	RL
KK6MC/R	17,563	RL
KØBBC/R	10,248	RL
KR5J/R	7,701	RL
NØLP/R	7,314	RL
KRØVER/R	10,416	RU
WØBL/R	9,936	RU
KCØP/R	4,401	RU
NØHZO/R	3,575	RU

West Coast Region

Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Sections

Call	Score	Cat
WJØF	33,264	LP
NQ7R	22,572	LP
KEØCO	14,706	LP
K6ATZ	14,384	LP
K2GMY	13,530	LP
K6KLY	73,168	HP
W7EW	48,488	HP
VE7JH	41,412	HP
N7EPD	36,757	HP
AJ6T	34,989	HP
N6NB	96,036	QRP
KB5WIA	15,650	QRP
AF6RR	3,103	QRP
WA9STI	1,674	QRP
KE7UQL	672	QRP
KF7NP	23,532	3B
N7IR	22,632	3B
K6MI	16,402	3B
K7BG	8,680	3B
VE7DAY	7,888	3B
K6TDI	360	FM
VE6CCL	242	FM
N9VM	216	FM
W7DMU	66	FM
WA7JTM	142,780	LM
KØDI	13,200	LM
N6ML	11,690	LM
K7NG	9,398	LM
AA7A	8,255	LM
N6VI	475,200	UM
W6TV	74,375	UM
N7NW	58,926	UM
WB6W	40,664	UM
N7CW	34,055	UM
K6AH/R	208,254	R
KI6FGV/R	182,637	R
N6HD/R	164,780	R
KJ5MSY/R	126,126	R
KE6QR/R	21,112	R
WW7D/R	27,588	RL
N6ORB/R	17,766	RL
N6GP/R	15,768	RL
K6LMN/R	6,380	RL
N6ZE/R	2,709	RL
W6TE/R	189,000	RU
NV6C/R	3,038	RU