ARRL September VHF Contest 2014 Results

By Jeff Klein, K1TEO (wa2teo@aol.com)

2014 will go down as a good year — conditions were interesting and activity continues to head in the right direction.

The 2014 September VHF contest could best be described as a good overall contest, though not a great one. It was good because the number of submitted logs were up for third year in a row. Keeping that trend going is a shot in the arm as VHF+ contesting has yet to see the high level of growth in participation seen by HF contesting in recent years. Of course, activity levels always have a major impact on the amount of fun contesters experience.

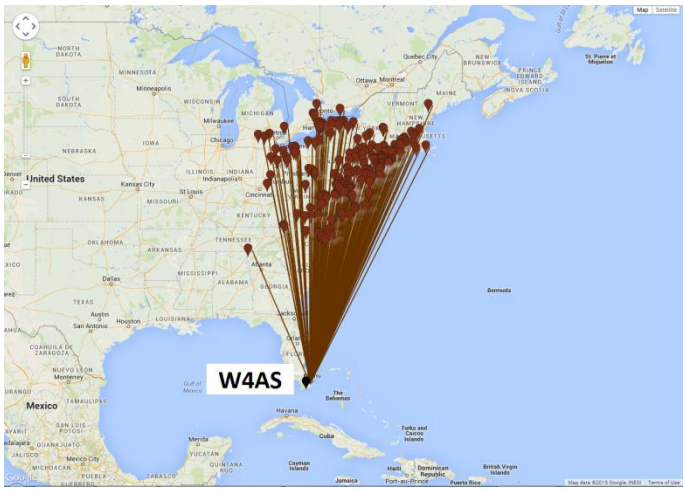
Bob K2DRH put up a new tower this year for his VHF/UHF array made up of 667 elements covering 2 meters through 3456 MHz. (Photo by K2DRH)

Another major enjoyment factor is the band conditions. While not great everywhere, there was a nice touch of 6 meter propagation in many areas of the country, something not always experienced in the September contest. Given the time of year, extended tropo conditions on 144 MHz and up are always hoped for in this contest and there were some excellent conditions for those in the right spots around the country.

The bottom line is that like most VHF+ contests, stations in the right place at the right time had some extra fun. Those not experiencing enhanced conditions still had the opportunity to put their stations to the test, say hello to friends, work some new grids, and experience the thrill of a distant and unexpected station.

Band conditions

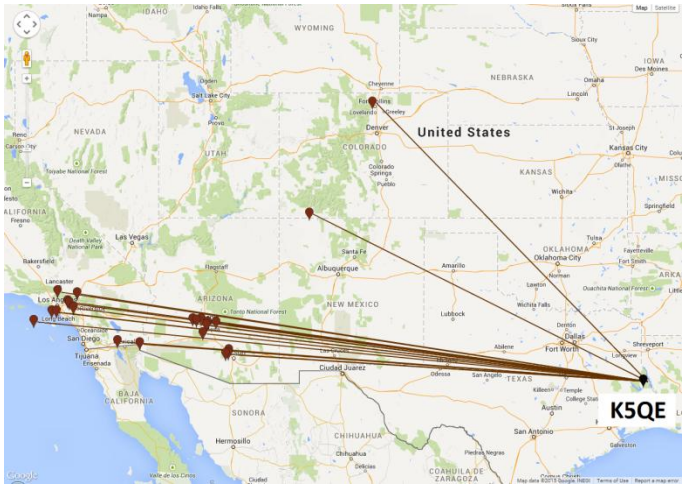
As is usually the case, band conditions varied widely around the country during the contest. News reports a few days before the contest spoke of larger eruptions from the Sun, sparking hope for a major aurora during the contest. The K index did soar to 7 on Friday night, but that did not lead to the hoped-for aurora. Instead, solar activity helped create some interesting conditions over the weekend in the form of E-skip (Es), Trans-Equatorial Propagation (TEP), and Es-to-TEP conditions between North and South America.



Saturday afternoon there was a very strong Es opening from Florida to the Northeast and Midwest (see the map above). Florida stations enjoyed working stations one after another for a few hours. Take a look at the paths W4AS worked during that time to get a good sense of the opening. Fellow Florida station KD2JA reported "feeling like rare DX" as he enjoyed the pileups during the opening.

As the opening progressed, the E-skip linked with TEP propagation to create some exciting north-south paths. CX9AU was particularly active from South America and was able to work many grids in North America while the band was open. He worked many in the Midwest, plus a

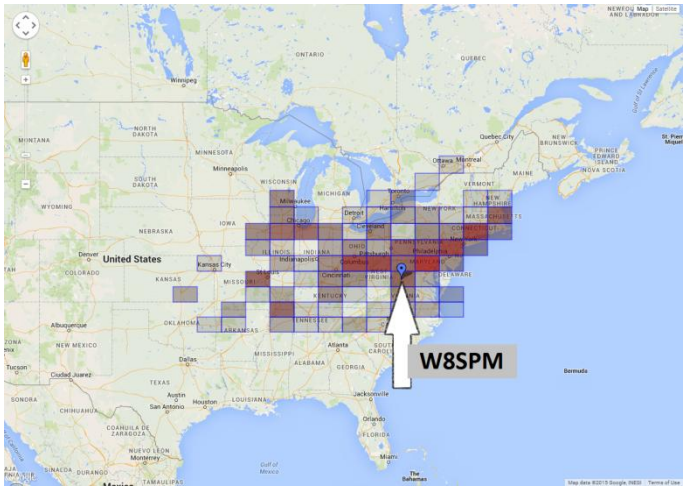
few in Florida, Texas, Mexico, and the Caribbean. Other U.S. stations worked paths to Argentina, including K3ZO and K1RZ in Maryland. Down in Texas, W3XO was working into Brazil, Argentina, Chile, Mexico, and Puerto Rico.



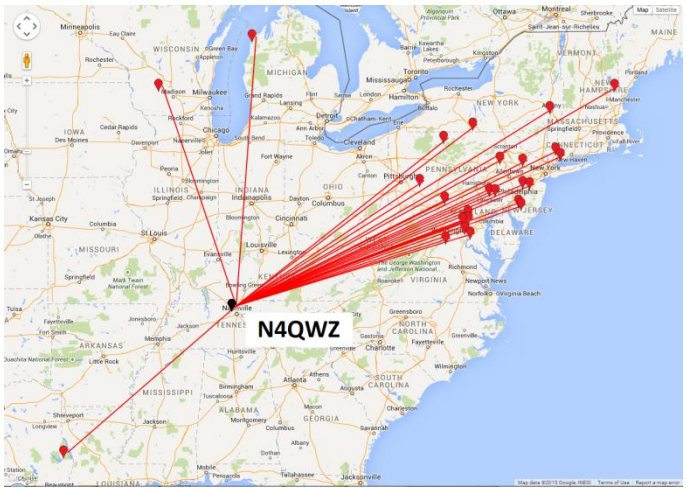
The Sun continued to work some additional magic on Sunday as there was more Es late in the contest. W3XO moved the beam west and worked quite a few stations in Arizona and Southern California. Likewise, Multioperator station K5QE in eastern Texas found the band open as well. The map above shows the paths they found open at that time, adding Colorado in addition to the path 'XO found open. Overall, it is always nice to have six meter propagation during the September contest, and while not the type of widespread Es opening we often see in the June contest, it added some extra excitement to this year's event.

Going into the contest weekend, the propagation prediction maps did not indicate there would be any significant tropospheric enhancement on the bands. As we saw in 2013, sometimes these prediction programs miss the possibilities. With more stations on, particularly from mountaintops, openings that might otherwise go unnoticed are found. That was the case this year, especially for those at high points in the Appalachian Mountains and in various parts of the Midwest down to Tennessee and Arkansas.

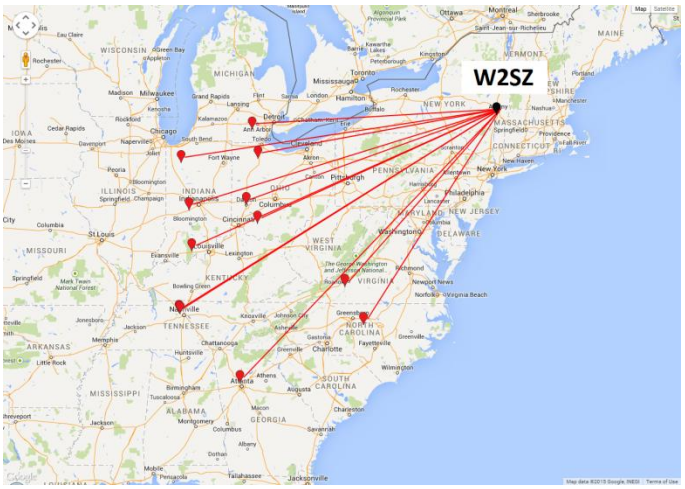
Two stations in the right place at the right time were W8SPM and N4QWZ. 'SPM headed up to a favorite location, 4800-foot Spruce Knob in FM08, West Virginia. Despite operating Single-Operator Portable with its 10-watt maximum power limitation, Sam was able to work an amazing 76 grids (as shown in the following map) and many QSOs. Despite his limited setup, the band conditions on 144 MHz were so outstanding that he was able to work as far west as Kansas and Oklahoma, as far north as Wisconsin, and as far to the northeast as Maine. "I always hoped just one time to get great conditions and I think this was it". With these tremendous results he was able to take the top spot in the category despite only operating on one band.



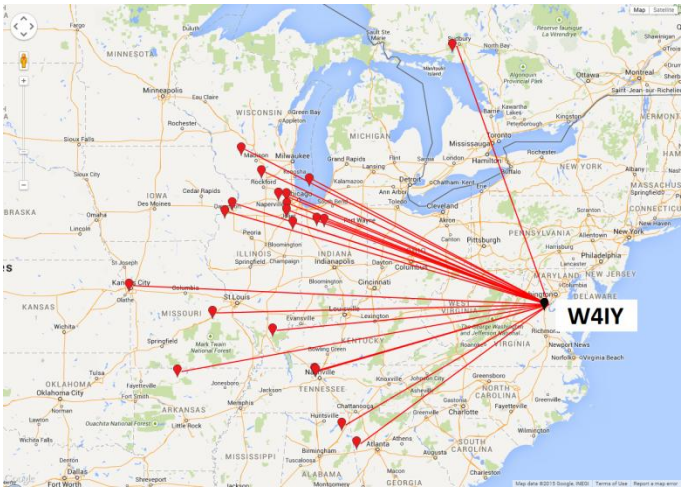
Todd, N4QWZ, has long been a top competitor in the Single-Operator, Low Power (SOLP) category. Todd was definitely in the right place in this contest as he put a steady signal into the northeastern U.S. for much of Saturday and Sunday evenings. Jeff, K1TEO, noted that he has lived at the same location in FN31 (CT) for over 25 years and only had tropo propagation to Todd's area on 2 meters and up a handful of times. Yet in this contest Todd was S-9 over the 800+ mile path both Saturday and Sunday evenings and was also worked on 222 and 432 MHz. Despite Todd's potent signal that was heard for several hours, not a single other station in his area was heard by Jeff. Todd's best DX was to K1WHS in Maine, almost 1000 miles to the northeast (see the map below for his 144 MHz paths worked). He also worked W2SZ on 902 MHz for a new state on the band and a fine-business 800-mile QSO. 'QWZ also did very well on 222 and 432, working many of the same paths as on 2 meters.



In the East, powerhouse Multioperator station W2SZ used their elevation to work the enhancement to a far wider degree than anyone else in the area. Using their usual Mount Greylock location, they managed a good number of long-haul QSOs on all bands to the west and southeast shown on the following map. This helped them achieve higher than normal grid totals, particularly on 144-222-432 MHz, and to another win in their category.



Others on the top of mountains also enjoyed extended contacts, including Limited Multioperator (LM) stations W4NH in EM85, Georgia, and W4IY in FM08, Virginia. 'NH worked many stations in the Midwest beyond normal range, extending as far as K2DRH and K9AKS in EN41, several stations in Wisconsin, W8MIL in northern Michigan, and their best DX of over 800 miles to W2SZ in FN32. 'IY was even more exposed to the duct propagation, probably experiencing similar conditions as fellow FM08 station W8SPM, albeit with more power and bigger antennas. Both worked as far as NØIRS in EM29, Kansas, a 900+ mile path. They also worked into Arkansas, western Illinois and Wisconsin. The map below is based on their log which includes a number of QSOs into the Chicago area, over 600 miles away.



Others in the right place for these terrific conditions included K8EP who rode the wave to a top finish in the LM category, fellow LM competitors W3SO and AA4ZZ, and K1RZ operating SOHP in Maryland.

By the Numbers

A total of 545 logs were received this year. That continues an upward trend in the September VHF contest over the last several years as seen in Table 1. Looking at the category participation rates, we can see that there has been a steady increase in the Single-Operator, High Power (SOHP) and Multioperator categories. Other categories have been relatively static, with a small drop in the SOLP category after the introduction of the SO3B (3 Band) category in 2013. However, the number of entrants in this new category is significantly larger than the drop off in the SOLP category. And, there was a very nice increase in participation this year, so SO3B looks like it is a winner! So far the FM-Only (SOFM) category has yet to take off, so perhaps there is not a lot of awareness of this new avenue to participate in VHF contests.

Number of Logs by Year

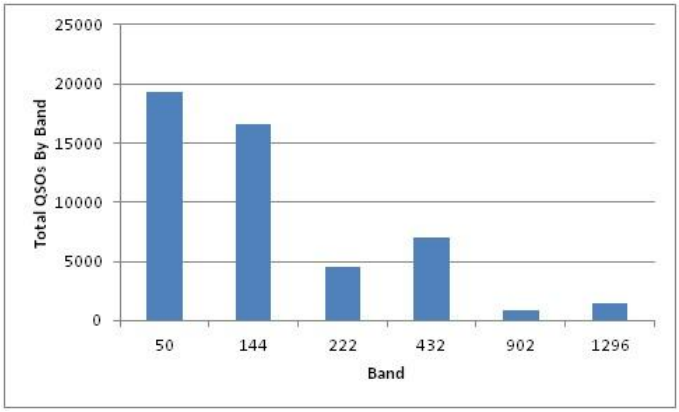
(FM-Only and Three-Band categories were added in 2013)

Year	Logs	Category									
		A	*B*	*L*	*M*	*Q*	*R*	*RL*	*RU*	*3B**	*FM*
2011	434	226	86	23	29	16	31	18	5	-	-
2012	454	233	101	21	29	16	29	16	6	-	-
2013	514	220	111	25	35	19	29	24	7	37	7
2014	545	216	116	24	41	19	27	22	7	63	10

As summarized earlier, the propagation this year had some enhancement for some on six with E-skip and TEP openings. 144 MHz and higher had some nice tropospheric conditions in parts of the country during part of the contest. Often in September, 2 meters is the bread and butter band, seeing more action than 6 meters. This time around however, there were more QSOs made on six meters than 2 meters based on the logs that were submitted.

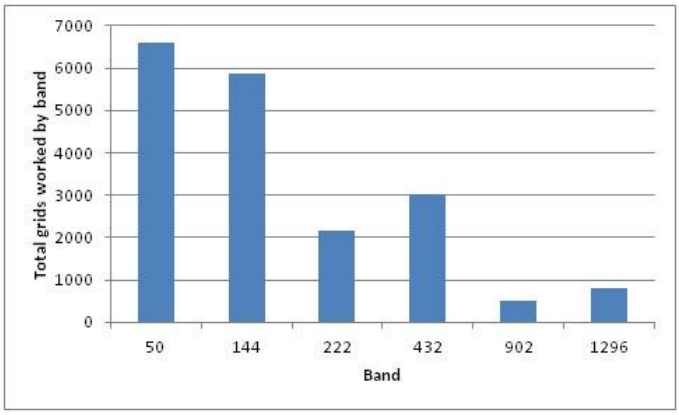
QSOs by Band

Over 19,000 QSOs were made on 50 MHz, while 144 MHz saw over 16,000. 432 MHz was the next most active band followed by 222 MHz. Overall, the 545 participants who submitted logs recorded over 50,000 QSOs. As with QSOs, 6 meter grid multipliers were the largest of any of the bands.



Grids Worked by Band

Over 6500 grids were worked by participants on 50 MHz, while 144 MHz saw over 5800 multipliers added to the logs. A little over 3000 multipliers were added by those participants utilizing 432 MHz.



The tropo conditions helped several stations set division records in the contest. N4QWZ broke his own Delta Division SOLP record with his 96k point total. Also breaking a SOLP record was KX4R in the Southeastern Division exceeding a point total set in 2000. Many division records were set in the SO3B category, led by top placer WA2FGK who tripled the overall existing SO3B record and second-place overall finisher KB8U who also exceeded last year's winner by a wide margin.

Single-Operator Category Results

With the largest number of entrants, SOLP was very competitive. Renewing their September contest competition were Ed, K1TR, operating from Mt. Wachussetts in Massachusetts and Bob, K2DRH, in Illinois. Ed edged out Bob in a close battle, 162k to 143k. It was a difference of more QSOs by 'TR – 626 versus 445 – against more grids worked by 'DRH – 195 versus 164. Conditions were not a major factor this for them as both found relatively little enhancement at their locations. WB1GQR on Mt. Equinox in Vermont was third and also over 100k while N4QWZ used the excellent conditions to just miss the six-figure mark to take fourth. KX4R rode the tropo enhancement wave to round out the top five in the SOLP category, just ahead of K1KG, AF1T, N3RN and WB2JAY. Regionally, KØSIX had the top score in the Midwest, while AF6RR led the West Coast entrants.

In the SOHP category, reigning champion K1TEO kept the crown in a close competition with K1RZ from Maryland. 'RZ enjoyed some nice 6 meter conditions early in the contest including some contacts with South America and then had some nice long-haul tropo contacts on 2 meters and up. Jeff's higher QSO totals helped him secure a 30k margin as they were both over a quarter-million points. Fellow 3-land stations K3TUF and W3IP were third and fourth, followed by Bob, K8TQK, from central Ohio. K1GX was next with a couple of stations from outside the Northeast running up fine scores to finish close behind; W4ZRZ from the Southeast and WØUC from the upper Midwest. Regionally, KFØM led the Midwest and N7EPD was top SOHP scorer from the West Coast.

Top Ten – Single-Operator

Single Operator, Low Power	
K1TR	162,688
K2DRH	143,325
WB1GQR (W1SJ op)	109,678
N4QWZ	96,418
KX4R	66,898
K1KG	63,600
AF1T	62,016
N3RN	53,648
WB2JAY	38,475
W9GA	37,800
Single Operator, High Power	
K1TEO	297,929
K1RZ	267,066
K3TUF	128,816
W3IP	93,024
K8TQK	88,356
K1GX	82,010
W4ZRZ	75,096
WØUC	71,820
WB2RVX	52,326
N3HBX	48,816

Top Ten – Single-Operator

Single Operator, Portable	
W8SPM	14,972
W7LUD	12,604
K7ATN	7,552
WB2AMU	1,430
VE3AAQ	805
KØNR	780
WA7JTM	680
KD7WPJ	230
KQ2RP	180
AC2GJ	117
Single Operator, 3-Band	
WA2FGK (K2LNS op)	28,301
KB8U	19,847
N1ZN	10,047
K9AKS	9,120
K5VIP	5,512
KI5YG	3,990
K6MI	3,726
N1IBM	3,042
N9TF	2,712
WB2EOD	2,236
Single Operator, FM Only	
K7NIT	1,157
KA6AMB	243
K6QCB	224
N9VM (N1VM op)	182
WX4ET	135
K2SI	72
KK6DCM	52
NØJP	1
NØOWT	1
NØNUO	1

The SO3B category looks to become popular with a nice surge of entrants in its second year. Long-time SOHP top competitor Herb, K2LNS, moved into the category and came out on top using his familiar contest call sign, WA2FGK. His score of 28k topped KB8U who finished with just under 20k. N1ZN, K9AKS, and K5VIP rounded out the top five. It looks like SO3B will be a great way to compete for those who do not have microwave bands. Based on results in the first two years we can anticipate some top-notch competition in this category in 2015!

Nineteen participants competed in the Single-Operator Portable (SOP) category. As discussed earlier, W8SPM rode the tropo on Spruce Knob West Virginia to an amazing 76 grids. With 176 QSOs on the band, he took the top spot over an excellent effort by W7LUD who finished second in 2013 as well. 'LUD had the top grid multiplier results in the category on all bands except 2 meters, as well as the highest or nearly so QSO totals on each band. Even that was not enough to turn back the terrific results achieved by W8SPM. K7ATN and WB2AMU were the other scorers over 1k points to take third and fourth in the category.

Logs submitted in the SOFM class rose from 7 in the inaugural year to 10 in 2014. The top score was submitted by K7NIT from the Northwestern Division, and was the first in this two-year-old category to exceed 1k points.

Multioperator Category Results

As continues to be the case, the LM category had the tightest competition for the top spots. K8EP, W3SO, and AA4ZZ all finished within 5k points of one another. After a number of top five efforts, the 'EP gang came out on top for the first time. They were highly competitive on all four bands, and near the top in grids worked, and helped by some long-haul tropo contacts on 2 meters. In the final analysis it was their large lead in total QSOs on 50 and 144 MHz that made the difference as they were the only LM to work over 300 stations on each band. 'SO edged out 'ZZ by a few hundred points to retain second spot in the category. AA4ZZ made a valiant effort, working 107 grids on 2 meters, utilizing moonbounce and some good tropo conditions to achieve their outstanding grid total.

W4IY returned to the LM from Multioperator this year to also break 100k for fourth. They were followed by the W2LV group which duplicated their fifth-place 2013 effort, followed closely by W4NH. In regional action, N8ZM led the Central Division with 39k.

Top Ten – Multioperator

Limited Multioperator	
K8EP	170,502
W3SO	165,597
AA4ZZ	165,197
W4IY	115,984
W2LV	97,785
W4NH	84,923
N2NT	60,170
W1QK	46,314
N8ZM	39,237
N3MK	27,990
Multioperator	
W2SZ	766,080
K1WHS	251,036
K2LIM	182,546
W2EA	168,840
K5QE	64,974
N2BJ	21,888
W1XM	19,323
K6HS	14,749
W4AS	14,160
WA3EHD	13,496

The Multioperator category remained in the hands of the W2SZ group with over three-quarters of a million points, well ahead of all other competitors. Mount Greylock was a good place to be this time as they rode tropo to the west and southwest with 69 grids worked on 144 MHz and 51 on 432 MHz, a good deal higher than their normal results. On 902 MHz they worked all the way down to

N4QWZ in Tennessee. Add that to the QSO results where they were top dog on every band and you have a dominating performance. K1WHS placed second despite some major equipment issues, especially on the microwave bands. K2LIM and W2EA continued their top performances in the September contest, placing third and fourth. While conditions were not quite as good this time around in Texas, K5QE did a fine job to round out the top five. Regionally, N2BJ led the Central Region, while W4AS was top multioperator in the Southeast and K6HS held the same position on the West Coast.

Rover Category Results

After a fine performance in the June contest Classic Rover category (R), the K8GP team returned to swamp the competition in September, nearly reaching the 200k mark. Using a route similar to their prior 2014 efforts in January and June, they notched over 500 QSOs and nearly 200 multipliers. They enjoyed some nice enhancement at the end of the contest from FM08 which helped them achieve outstanding grid multipliers of 47 on 144 MHz, 31 on 222 MHz, and 34 on 432 MHz. VE3OIL continued their long running success to finish second, followed by WA3PTV, NN3Q, W9SNR and AG4V, all of whom were neck and neck for third through sixth. Top to bottom the category was very competitive to make the Top Ten listing.

Top Ten – Rovers

Rover	
K8GP	194,112
VE3OIL/R	72,000
WA3PTV	53,037
NN3Q	47,775
W9SNR/R	44,884
AG4V/R	42,024
KA9VVQ/R	35,150
KF8QL/R	32,400
KF2MR/R	22,192
W1AUV/R	19,734
Limited Rover	
NF2RS/R	61,600
WW7D/R	32,118
WB2SIH/R	23,892
AL1VE/R	20,294
N2ZBH/R	16,820
K9JK/R	13,426
K9GY/R	11,118
NL7B/R	10,920
K8DOG/R	5,412
KØBAK	5,382
Unlimited Rover	
N2SLN/R	54,500
NØLNO/R	21,321
W3HMS	10,868
KJ1K	8,460
K2TER	6,545
KB2YCC	1,071
AF6AV	56

K2QO and K2ZR had a great time as NF2RS, winning the Limited Rover category with a great score of 61k points.

In the Limited Rover (RL) competition, NF2RS repeated as the top contestant with an excellent score of 61k. (the K2QO call was used in 2013) WW7D repeated in second, increasing his score by over twenty percent this year to 32k. Both stations had similar QSO totals, but 'RS was able to work significantly more grids than WW7D on their western New England and upstate New York rove. WB2SIH edged out AL1VE for third with N2ZBH right behind for fifth. K9JK had the top Central Region score while placing sixth overall.

N2SLN retained the top spot in the Unlimited Rover (RU) category, upping his score by 8k to 54k in 2014. Lu and partner KC2SFU worked over 400 QSOs and exactly 100 grid multipliers during their six-grid rove. NØLNO had 21k for second, followed by W3HMS, KJ1K, and K2TER.

QSO/Mult Leaders & Expanded Line Scores

Following the Regional Leaders table is a complete breakdown of bands worked and QSOs and Multipliers for the Top Ten stations in each category. These tables replace the QSOs and Multiplier Leaders tables in previous contest writeups.

A companion to this article, the new expanded line score format also provides the same expanded information about the operation of each station. This includesgrids activated for rovers. Thanks to K9JK for developing this new format for the VHF+ contests.

Club Competition

A total of twenty one clubs competed in the Medium Category competition while there were six competitors in the Local Category. Nearly 45% of all log submissions were tied to a club score.

Club Competition

Logs	*Club Name*	*Score*
Medium Category		
28	Potomac Valley Radio Club	827,961
22	Mt Airy VHF Radio Club	541,784
15	North East Weak Signal Group	510,961
23	Society of Midwest Contesters	238,626
11	Yankee Clipper Contest Club	219,299
30	Pacific Northwest VHF Society	173,301
9	Badger Contesters	170,428
4	Carolina DX Association	168,812
11	Contest Club Ontario	149,576
12	Northern Lights Radio Society	107,951
6	Michigan VHF-UHF Society	73,840
3	Frankford Radio Club	63,362
3	Niagara Frontier Radiosport	62,932
6	Florida Contest Group	44,713
3	Rochester VHF Group	33,740
5	CTRI Contest Group	31,214
6	Bristol (TN) ARC	20,193
4	Northern California Contest Club	15,847
5	DFW Contest Group	4,363
8	Arizona Outlaws Contest Club	1,402
3	Minnesota Wireless Assn	182
Local Category		
5	Granite State ARA	18,329
5	Bergen ARA	9,738
5	Raritan Bay Radio Amateurs	9,458
4	Winona ARC	8,587
3	Florida Weak Signal Society	8,525
3	Grand Mesa Contesters of Colorado	3,424

Repeating as the top scoring club was the Potomac Valley Radio Club, with over 800k points. They had 28 members submit scores which was a nice increase from 20 in 2013. The Mt Airy VHF Radio Club moved up a place to second as they topped the 500k mark with 22 entrants. They were followed by the North East Weak Signal Group, also over 500k points. The top score from outside the Northeast was the Society of Midwest Contesters with almost a quarter-million points to take fourth place. The Pacific Northwest VHF Society had the most club entrants with thirty, helping them to place sixth, generating significant activity in that part of the country.

The Granite State Amateur Radio Association took top honors in the Local category competition. Places two through five were hotly contested with only about a thousand points separating the clubs. A pair of New Jersey clubs, the Bergen Amateur Radio Association and the Raritan Bay Radio Amateurs, finished in second and third.

Conclusion

Good conditions in some places but not others remind us of the reality of the VHF bands: You have to be on the bands operating so that when you are in the right place at the right time — as were W8SPM, N4QWZ, CX9AU, and others — you are ready to experiences the fun of working some great propagation. Get on and operate in the contest next September 19th and 20th – you may be the one in the right place at the right time!

Special thanks to K1RA, who once again created the software generating the maps used in this contest writeup. Great job Andy!

Division Winners

Division	Category	Call Sign	Score
Atlantic	Multioperator	K2LIM	182,546
	Classic Rover	WA3PTV	53,037
	Limited Rover	NF2RS/R	61,600
	Unlimited Rover	N2SLN/R	54,500
	Limited Multioperator	W3SO	165,597
	Single Operator, 3-Band	WA2FGK (K2LNS op)	28,301
	Single Operator, FM Only	K2SI	72
	Single Operator, High Power	K1RZ	267,066
	Single Operator, Low Power	N3RN	53,648
	Single Operator, Portable	AC2GJ	117
Canada	Multioperator	VE2NGH	252
	Classic Rover	VE3OIL/R	72,000
	Limited Rover	VE3RKS/R	56
	Single Operator, 3-Band	VE3KZ	1,311
	Single Operator, High Power	VA3ST	28,078
	Single Operator, Low Power	VA3ZV	12,110
	Single Operator, Portable	VE3AAQ	805
Central	Multioperator	N2BJ	21,888
	Classic Rover	W9SNR/R	44,884
	Limited Rover	K9JK/R	13,426
	Limited Multioperator	W9RVG	18,928
	Single Operator, 3-Band	K9AKS	9,120
	Single Operator, High Power	WØUC	71,820
	Single Operator, Low Power	K2DRH	143,325
Dakota	Multioperator	WØNE	8,480
	Classic Rover	KA9VVQ/R	35,150
	Limited Rover	WBØNIU	6
	Limited Multioperator	WØVB	532
	Single Operator, 3-Band	NØAT	108
	Single Operator, FM Only	NØNUO	1
	Single Operator, High Power	KØAWU	5,145
	Single Operator, Low Power	KØSIX	10,260
Delta	Multioperator	N4JQQ	7,375
	Classic Rover	AG4V/R	42,024
	Limited Rover	W5VY	2,146
	Limited Multioperator	NE5BO	6,903
	Single Operator, 3-Band	K5FOY	364
	Single Operator, FM Only	WX4ET	135
	Single Operator, High Power	KG5MD	7,875
	Single Operator, Low Power	N4QWZ	96,418
Great Lakes	Classic Rover	KF8QL/R	32,400
	Limited Rover	K8DOG/R	5,412
	Limited Multioperator	N8ZM	39,237
	Single Operator, 3-Band	KB8U	19,847
	Single Operator, High Power	K8TQK	88,356
	Single Operator, Low Power	WZ8T	19,462
Hudson	Multioperator	NY2NY	12,740
	Limited Rover	WB2SIH/R	23,892
	Limited Multioperator	W2LV	97,785
	Single Operator, 3-Band	K2UNK	1,617
	Single Operator, High Power	N2SLO	12,566
	Single Operator, Low Power	WB2JAY	38,475
	Single Operator, Portable	WB2AMU	1,430
Midwest	Classic Rover	KCØSKM/R	14,575
	Limited Rover	KBØQGT	846
	Unlimited Rover	NØLNO/R	21,321
	Single Operator, 3-Band	N6KL	49
	Single Operator, High Power	KFØM	10,496
	Single Operator, Low Power	NØLL	3,450
	Single Operator, Portable	NØJK	30

Division	Category	Call Sign	Score
New England	Multioperator	W2SZ	766,080
	Classic Rover	W1AUV/R	19,734
	Unlimited Rover	KJ1K	8,460
	Limited Multioperator	W1QK	46,314
	Single Operator, 3-Band	N1ZN	10,047
	Single Operator, High Power	K1TEO	297,929
	Single Operator, Low Power	K1TR	162,688
	Single Operator, Portable	N1PRW	33
Northwestern	Multioperator	KF7PCL	435
	Classic Rover	KA7RRA	1,968
	Limited Rover	WW7D/R	32,118
	Single Operator, 3-Band	KØVIZ	480
	Single Operator, FM Only	K7NIT	1,157
	Single Operator, High Power	N7EPD	20,708
	Single Operator, Low Power	KEØCO	11,730
	Single Operator, Portable	W7LUD	12,604
Pacific	Multioperator	K6HS	14,749
	Limited Multioperator	W6RKC	728
	Single Operator, 3-Band	K6MI	3,726
	Single Operator, FM Only	KA6AMB	243
	Single Operator, High Power	KC6ZWT	6,162
	Single Operator, Low Power	AF6RR	12,954
	Single Operator, Portable	KF6CVA	24
Roanoke	Multioperator	K4QE	90
	Classic Rover	K8GP	194,112
	Limited Rover	K6PFA/R	1,647
	Limited Multioperator	K8EP	170,502
	Single Operator, 3-Band	K5VIP	5,512
	Single Operator, High Power	W3IP	93,024
	Single Operator, Low Power	K4FJW	10,248
	Single Operator, Portable	W8SPM	14,972
Rocky Mountain	Limited Rover	ABØYM/R	1,978
	Single Operator, High Power	WØETT	666
	Single Operator, Low Power	KKØQ	6,650
	Single Operator, Portable	KØNR	780
Southeastern	Multioperator	W4AS	14,160
	Limited Multioperator	WB4WXE	5,712
	Single Operator, 3-Band	KG4KVZ	416
	Single Operator, High Power	W4ZRZ	75,096
	Single Operator, Low Power	KX4R	66,898
Southwestern	Limited Rover	K6LMN/R	420
	Unlimited Rover	AF6AV	56
	Single Operator, 3-Band	WB6HYH	1,380
	Single Operator, FM Only	K6QCB	224
	Single Operator, High Power	N5BF	36
	Single Operator, Low Power	WA6EJO	637
	Single Operator, Portable	WA7JTM	680
West Gulf	Multioperator	K5QE	64,974
	Classic Rover	AF5Q	580
	Limited Multioperator	W5CSC	6,812
	Single Operator, 3-Band	KI5YG	3,990
	Single Operator, High Power	K5LLL	7,261
	Single Operator, Low Power	WB5ZDP	3,528

2014 ARRL September VHF QSO Party

Regional Leaders by Category

Boxes list call sign, score, and category (A/B/Q - Single-Op, LP/HP/Portable; 3B/FM - Single-Op, Three-Band/FM-Only; L - Limited Multioperator, M - Multioperator, R - Rover, RL - Limited Rover, RU - Unlimited Rover)

Northeast Region

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

K1TR	162,688	A
WB1GQR (W1SJ op)	109,678	A
K1KG	63,600	A
AF1T	62,016	A
N3RN	53,648	A
K1TEO	297,929	B
K1RZ	267,066	B
K3TUF	128,816	B
K1GX	82,010	B
WB2RVX	52,326	B
WB2AMU	1,430	Q
KQ2RP	180	Q
AC2GJ	117	Q
N1PRW	33	Q
KC2JRQ	16	Q
WA2FGK (K2LNS op)	28,301	3B
N1ZN	10,047	3B
N1IBM	3,042	3B
WB2EOD	2,236	3B
K1KT	2,030	3B
K2SI	72	FM
W3SO	165,597	L
W2LV	97,785	L
N2NT	60,170	L
W1QK	46,314	L
K1PRO	3,429	L
W2SZ	766,080	M
K1WHS	251,036	M
K2LIM	182,546	M
W2EA	168,840	M
W1XM	19,323	M
WA3PTV	53,037	R
NN3Q	47,775	R
KF2MR/R	22,192	R
W1AUV/R	19,734	R
N2QIP/R	8,352	R
KA3KSP	130	R
NF2RS/R	61,600	RL
WB2SIH/R	23,892	RL
N2ZBH/R	16,820	RL
KØBAK	5,382	RL
W2MC/R	1,210	RL
N2SLN/R	54,500	RU
W3HMS	10,868	RU
KJ1K	8,460	RU
K2TER	6,545	RU
KB2YCC	1,071	RU

Southeast Region

Delta, Roanoke and Southeastern Divisions

N4QWZ	96,418	A
KX4R	66,898	A
K4FJW	10,248	A
KD2JA	8,528	A
WC4H	8,326	A
W3IP	93,024	B
W4ZRZ	75,096	B
W4RX	36,920	B
K1HTV	22,022	B
WD4MGB	9,625	B
W8SPM	14,972	Q
KC8KSK	12	Q
K5VIP	5,512	3B
WA4LDU	1,075	3B
KJ4VTH	675	3B
KG4KVZ	416	3B
KM4ID	400	3B
WX4ET	135	FM
K8EP	170,502	L
AA4ZZ	165,197	L
W4IY	115,984	L
W4NH	84,923	L
N3MK	27,990	L
W4AS	14,160	M
N4JQQ	7,375	M
N4DW	902	M
K4QE	90	M
W4WNT	28	M
K8GP	194,112	R
AG4V/R	42,024	R
KB4JHU/R	840	R
W5VY	2,146	RL
K6PFA/R	1,647	RL
WA4JA/R	475	RL

Central Region

Central and Great Lakes Divisions; Ontario Section

K2DRH	143,325	A
W9GA	37,800	A
N9DG	33,345	A
WZ8T	19,462	A
VA3ZV	12,110	A
K8TQK	88,356	B
WØUC	71,820	B
K9EA	43,989	B
K9CT	28,245	B
VA3ST	28,078	B
VE3AAQ	805	Q
KB8U	19,847	3B
K9AKS	9,120	3B
N9TF	2,712	3B
WB9TFH	2,208	3B
KO9A	2,112	3B
N8ZM	39,237	L
W9RVG	18,928	L
N2BJ	21,888	M
K9P	11,394	M
N9IO	240	M
K3WA	192	M
VE3OIL/R	72,000	R
W9SNR/R	44,884	R
KF8QL/R	32,400	R
NE8I/R	19,630	R
VE3WJ	19,520	R
K9JK/R	13,426	RL
K9GY/R	11,118	RL
K8DOG/R	5,412	RL
VE3RKS/R	56	RL

Midwest Region

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

KØSIX	10,260	A
KKØQ	6,650	A
WB5ZDP	3,528	A
NØLL	3,450	A
AA5AM	3,040	A
KFØM	10,496	B
K5LLL	7,261	B
KØAWU	5,145	B
W3XO/5	4,464	B
KAØRYT	4,429	B
KØNR	780	Q
NØJK	30	Q
KI5YG	3,990	3B
NØAT	108	3B
K5KBV	70	3B
K5YM	64	3B
N6KL	49	3B
NØJP	1	FM
NØNUO	1	FM
NØOWT	1	FM
W5CSC	6,812	L
WØVB	532	L
K5QE	64,974	M
WØNE	8,480	M
K5GZR	2,065	M
KC5MVZ	1,102	M
KA9VVQ/R	35,150	R
KCØSKM/R	14,575	R
KCØP/R	4,756	R
NØHZO/R	4,582	R
KØBBC/R	4,172	R
ABØYM/R	1,978	RL
KBØQGT	846	RL
W3DHJ/R	720	RL
WBØNIU	6	RL
NØLNO/R	21,321	RU

West Coast Region

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

AF6RR	12,954	A
KEØCO	11,730	A
WA6OSX	8,541	A
K7YDL	7,227	A
K2GMY	5,760	A
N7EPD	20,708	B
KD7TS	14,455	B
KE7SW	13,104	B
W7FI	9,024	B
KC6ZWT	6,162	B
W7LUD	12,604	Q
K7ATN	7,552	Q
WA7JTM	680	Q
KD7WPJ	230	Q
KX7L	98	Q
K6MI	3,726	3B
WB6HYH	1,380	3B
W6JK	1,357	3B
N7IR	1,298	3B
KØVIZ	480	3B
K7NIT	1,157	FM
KA6AMB	243	FM
K6QCB	224	FM
N9VM (N1VM op)	182	FM
KK6DCM	52	FM
W6RKC	728	L
K6HS	14,749	M
W6TV	7,744	M
KF7PCL	435	M
KF7CQ	42	M
KA7RRA	1,968	R
WW7D/R	32,118	RL
AL1VE/R	20,294	RL
NL7B/R	10,920	RL
N6ZE	3,692	RL
K6LMN/R	420	RL
AF6AV	56	RU

Top Ten Stations by Category - QSO and Multiplier Breakdown by Band

Category	Call	Section	Score	QSOs	Grids		Bands Operated	50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1.2 GHz	2.3 GHz	3.4 GHz	5.7 GHz	10 GHz	24 GHz	Light
SO-QRP	W8SPM/8	WV	14,972	197	76		B		197/76										
SO-QRP	W7LUD	WWA	12,604	194	46		ABCD9E	62/13	64/13	24/6	32/8	6/3	6/3						
SO-QRP	K7ATN	OR	7,552	174	32		ABCD9E	43/7	71/13	20/5	38/5	1/1	1/1						
SO-QRP	WB2AMU	NLI	1,430	47	26		ABCD	21/11	18/10	3/2	5/3								
SO-QRP	VE3AAQ	ONE	805	29	23		ABD	7/5	16/13		6/5								
SO-QRP	KØNR	CO	780	46	13		ABD	9/5	23/5		14/3								
SO-QRP	WA7JTM	AZ	680	32	17		ABD	15/6	9/6		8/5								
SO-QRP	KD7WPJ	LAX	230	19	10		ABD	6/2	9/5		4/3								
SO-QRP	KQ2RP	NNJ	180	17	9		ABD	8/3	6/4		3/2								
SO-QRP	AC2GJ	WNY	117	10	9		ABCD	4/4	3/2	2/2	1/1								
SO-LP	K1TR	WMA	162,688	626	164		ABCD9EFGHI	199/32	176/36	71/26	98/28	24/11	25/10	13/8	9/5	5/4	6/4		
SO-LP	K2DRH	IL	143,325	445	195		ABCD9EFG	115/44	126/46	55/31	81/33	18/13	32/16	13/8	5/4				
SO-LP	WB1GQR (W1SJ, op)	VT	109,678	634	122		ABCD9EFG	235/31	188/29	75/20	91/19	14/8	22/9	6/4	3/2				
SO-LP	N4QWZ	TN	96,418	317	194		ABCD9E	63/35	105/55	54/38	64/42	15/12	16/12						
SO-LP	KX4R	GA	66,898	270	166		ABCD9E	75/41	84/47	36/29	53/32	3/1	19/16						
SO-LP	K1KG	EMA	63,600	299	120		ABCD9EFGHI	92/22	70/22	35/19	40/18	12/8	18/9	12/8	10/7	5/4	5/3		
SO-LP	AF1T	NH	62,016	361	102		ABCD9EFGHIJP	108/23	86/20	49/16	60/17	16/7	20/6	12/6	6/3	1/1	1/1	1/1	1/1
SO-LP	N3RN	EPA	53,648	322	112		ABCDEF	107/29	94/30	43/18	49/18		22/11	7/6					
SO-LP	WB2JAY	NLI	38,475	253	95		ABCD9EFG	86/24	60/18	34/15	41/15	10/7	9/5	8/7	5/4				
SO-LP	W9GA	WI	37,800	221	108		ABCD9E	40/16	78/30	32/20	45/20	12/11	14/11						
SO-HP	K1TEO	CT	297,929	785	229		ABCD9EFGHI	202/47	241/48	97/34	118/37	30/15	50/19	20/11	12/7	6/5	9/6		
SO-HP	K1RZ	MDC	267,066	658	222		ABCD9EFGHI	131/40	198/48	81/31	104/33	35/18	37/15	26/12	18/9	15/9	13/7		
SO-HP	K3TUF	EPA	128,816	431	166		ABCD9EFGHI	128/31	100/30	49/22	58/23	20/13	30/14	13/10	11/8	12/8	10/7		
SO-HP	W3IP	VA	93,024	420	153		ABCD9E	110/33	154/45	57/29	67/28	14/9	18/9						
SO-HP	K8TQK	OH	88,356	294	199		ABCD9EFG	69/45	109/58	41/32	44/34	16/15	12/11	2/3	1/1				
SO-HP	K1GX	CT	82,010	339	139		ABCD9EFGHI	96/29	92/27	34/18	47/19	17/10	23/12	12/9	7/6	6/5	5/4		
SO-HP	W4ZRZ	AL	75,096	277	168		ABCD9EFGHI	85/42	69/34	34/27	49/30	15/14	18/14	3/3	2/2	1/1	1/1		
SO-HP	WØUC	WI	71,820	321	133		ABCD9EFGHI	81/33	83/28	48/22	51/20	24/12	30/14	1/1	1/1	1/1	1/1		
SO-HP	K6KLY	SCV	52,528	394	112		ABCD9E	241/73	88/15	17/8	38/9	6/4	4/3						
SO-HP	WB2RVX	SNJ	52,326	269	114		ABCD9EFGHI	81/27	65/23	34/14	41/18	12/6	17/8	6/5	5/5	4/4	4/4		
SO-3B	WA2FGK, (K2LNS, op)	EPA	28,301	265	91		ABD	127/36	92/31		46/24								
SO-3B	KB8U	MI	19,847	183	89		ABD	72/33	71/33		40/23								
SO-3B	N1ZN	CT	10,047	167	51		ABD	86/22	51/16		30/13								
SO-3B	K9AKS	IL	9,120	131	57		ABD	37/12	65/29		29/16								
SO-3B	K5VIP	VA	5,512	93	52		ABD	40/20	40/20		13/12								
SO-3B	KI5YG	STX	3,990	86	42		ABD	64/28	13/8		9/6								
SO-3B	K6MI	SJV	3,726	106	27		ABD	31/9	43/10		32/8								
SO-3B	N1IBM	SNJ	3,042	65	39		ABD	25/16	27/13		13/10								
SO-3B	N9TF	IL	2,712	90	24		ABD	27/7	40/9		23/8								
SO-3B	WB2EOD	SNJ	2,236	74	26		ABD	21/8	41/13		12/5								
SO-FM	K7NIT	OR	1,157	64	13		ABCD	9/3	30/5	5/2	20/3								
SO-FM	K6QCB	ORG	224	25	7		BD		18/3		7/4								
SO-FM	N9VM (N1VM, op)	SJV	182	19	7		BCD		12/3	1/2	6/2								
SO-FM	WX4ET	TN	135	24	5		BD		21/3		3/2								
SO-FM	K2SI	WNY	72	10	6		BD		8/4		2/2								
SO-FM	KK6DCM	EB	52	10	4		ABD	2/1	5/1		3/2								
SO-FM	NØJP	MN	1	1	1		B		1/1										
SO-FM	NØNUO	MN	1	1	1		B		1/1										
SO-FM	NØOWT	MN	1	1	1		B		1/1										
M	W2SZ	WMA	766,080	1,524	304		ABCD9EFGHIJ	521/48	370/69	165/40	232/51	41/14	68/25	37/18	31/17	23/12	19/5	17/5	
M	K1WHS	ME	251,036	905	194		ABCD9EFGHI	356/60	270/43	83/24	117/29	19/9	29/12	14/8	6/4	6/3	5/2		
M	K2LIM	WNY	182,546	683	182		ABCD9EFGI	188/41	240/55	106/34	101/32	13/7	18/9	5/2	6/1		6/1		
M	W2EA	EPA	168,840	717	168		ABCD9EFGHIP	325/41	211/44	52/21	61/22	9/6	20/13	11/8	10/6	6/4	3/2		9/1
M	K5QE	STX	64,974	303	182		ABCD	108/53	141/86	15/13	39/30								
M	N2BJ	IL	21,888	199	76		ABCDE	53/18	68/23	29/15	38/16		11/4						
M	W1XM	EMA	19,323	232	57		ABCD9EF	81/12	71/14	23/9	33/9	7/5	14/6	3/2					
M	K6HS	SJV	14,749	196	49		ABCD9E	62/11	54/13	16/5	39/9	15/5	10/6						
M	W4AS	SFL	14,160	238	59		ABCD	231/53	5/4	1/1	1/1								
M	WA3EHD	EPA	13,496	138	56		ABCD9EFGP	32/13	39/13	19/7	21/7	9/5	9/4	5/3	3/3				1/1
LM	K8EP	WV	170,502	807	181		ABCD	347/57	325/67	63/26	72/31								
LM	W3SO	WPA	165,597	675	191		ABCD	234/57	249/60	81/36	111/38								
LM	AA4ZZ	NC	165,197	570	233		ABCD	171/45	260/107	44/32	95/49								
LM	W4IY	VA	115,984	573	176		ABDE	247/61	247/69		72/37		7/9						
LM	W2LV	NNJ	97,785	652	123		ABCD	297/43	212/39	59/20	84/21								
LM	W4NH	NC	84,923	419	163		ABCD	168/47	149/60	43/27	59/29								
LM	N2NT	NNJ	60,170	442	110		ABCD	149/29	188/40	45/19	60/22								
LM	W1QK	CT	46,314	504	83		ABD	288/37	162/31		54/15								
LM	N8ZM	OH	39,237	250	123		ABCD	92/40	89/39	35/21	34/23								
LM	N3MK	VA	27,990	250	90		ABCD	122/31	67/28	28/15	33/16								

Category	Call	Section	Score	QSOs	Grids	Grids Act'd	Bands Operated	50 MHz	144 MHz	222 MHz	432 MHz	902 MHz	1.2 GHz	2.3 GHz	3.4 GHz	5.7 GHz	10 GHz	24 GHz	Light
R	K8GP/R	VA	194,112	549	192	4	ABCD9EFGHI	105/29	153/47	78/31	95/34	29/11	36/13	13/7	16/6	14/5	10/5		
R	VE3OIL/R	ONS	72,000	275	125	8	ABCD9EFGHIJP	32/12	77/23	35/16	41/14	19/9	26/10	18/8	3/3	7/7	9/7	1/1	7/7
R	WA3PTV/R	WPA	53,037	326	71	4	ABCD9EFGHI	54/11	55/10	45/8	45/8	20/6	30/7	20/5	21/4	17/4	19/4		
R	NN3Q/R	EPA	47,775	237	105	3	ABCD9EFGHI	30/14	75/21	38/17	35/16	14/9	18/10	11/8	7/3	6/2	3/2		
R	W9SNR/R	IL	44,884	260	98	5	ABCD9EFGI	48/12	79/21	34/15	46/15	19/10	22/12	7/5	4/2		1/1		
R	AG4V/R	TN	42,024	247	102	9	ABCD9EF	55/23	68/20	42/15	48/17	14/6	13/8	7/4					
R	KA9VVQ/R	MN	35,150	266	74	8	ABCD9EFI	48/10	77/15	38/9	48/10	19/7	23/9	9/4			4/2		
R	KF8QL/R	MI	32,400	245	72	8	ABCD9EFGHI	48/9	61/10	42/9	46/9	13/6	14/6	7/5	7/4	3/3	4/3		
R	KF2MR/R	WNY	22,192	172	76	7	ABCD9E	25/8	57/17	29/14	31/13	15/8	15/9						
R	W1AUV/R	WMA	19,734	177	66	3	ABCD9EGI	30/9	56/17	32/12	30/11	14/6	13/6		1/1		1/1		
RL	NF2RS/R	WNY	61,600	454	112	7	ABCD	182/32	176/39	45/16	51/18								
RL	WW7D/R	WWA	32,118	455	53	10	ABCD	132/13	172/15	76/6	75/9								
RL	WB2SIH/R	ENY	23,892	278	66	5	ABCD	101/19	93/21	42/11	42/10								
RL	AL1VE/R	WWA	20,294	194	73	10	ABCD	49/17	61/17	40/14	44/15								
RL	N2ZBH/R	ENY	16,820	215	58	9	ABCD	73/14	67/15	43/11	32/9								
RL	K9JK/R	IL	13,426	201	49	8	ABCD	55/10	73/13	31/9	42/9								
RL	K9GY/R	IL	11,118	163	51	3	ABCD	44/10	64/16	25/10	30/12								
RL	NL7B/R	EWA	10,920	124	60	11	ABCD	27/14	39/15	27/9	31/11								
RL	K8DOG/R	MI	5,412	122	33	6	ABCD	38/8	42/8	16/4	26/7								
RL	KØBAK/R	EPA	5,382	108	46	12	ABD	44/12	55/17		9/5								
RU	N2SLN/R	WNY	54,500	403	100	6	ABCD	123/27	138/29	69/19	73/19								
RU	NØLNO/R	IA	21,321	210	69	7	ABCD9EF	42/11	78/17	35/13	47/13	2/2	5/5	1/1					
RU	W3HMS/R	EPA	10,868	133	44	3	ABCDEFGI	33/9	31/9	21/6	22/6		7/3	7/3	7/3		5/2		
RU	KJ1K/R	WMA	8,460	102	36	5	ABCD9EFGHI	13/4	17/4	15/4	18/5	10/4	7/3	7/2	6/2	7/2	2/1		
RU	K2TER/R	WNY	6,545	92	55	3	ABCDE	41/16	25/16	13/11	12/8		1/1						
RU	KB2YCC/R	WNY	1,071	25	17	3	ABCD9EFGI	2/2	3/1	7/4	3/2	1/1	1/1	1/1	1/1		6/1		
RU	AF6AV/R	ORG	56	7	8	2	AB	5/5	2/1										