

2004 ARRL September VHF QSO Party Results

We want more propagation!

Jeff Klein, K1TEO

The 2004 September VHF QSO Party saw generally average conditions throughout, with the exception of some enhancement on Saturday from New England to parts of Michigan, Ohio, Indiana, Ontario and Illinois. Yet, despite the lack of widespread enhancement, a combination of good activity, increased usage of microwave bands and the efforts of many rovers led to some excellent scores and results for many. Submitted logs were the highest in 4 years (566) representing a 9% increase from 2003.

Nationwide Perspective

Despite the lack of any widespread openings, three of the six categories set all-time September contest records. And, the Single Operator High Power category saw not one but two operators break the all-time single op high score for any VHF contest. Good activity, continued expanded use of the microwave bands, and maximal use of the limited openings that did occur helped with these record-setting scores.

To get a better sense of operating experiences from around the country and within different classes, let's take a look at some of the top scorers to see what they're doing to have fun and achieve high scores.

KA1LMR

After a 10 year hiatus, Chris returned to VHF contesting in 2004. And, he returned in style taking the top spot in the September contest for the Single Operator Portable category! He worked over 400 QSOs and over 100 grids from a hill-top location. Chris noted how hard he worked to balance antenna height with feed-line loss. Adding 1296 MHz this time made it extra important to avoid coax losses. Chris is interested in a wide array of Hamming activities from HF all the way through the microwaves. He cites Dale, AF1T, his high school teacher as having gotten him interested in VHFing.

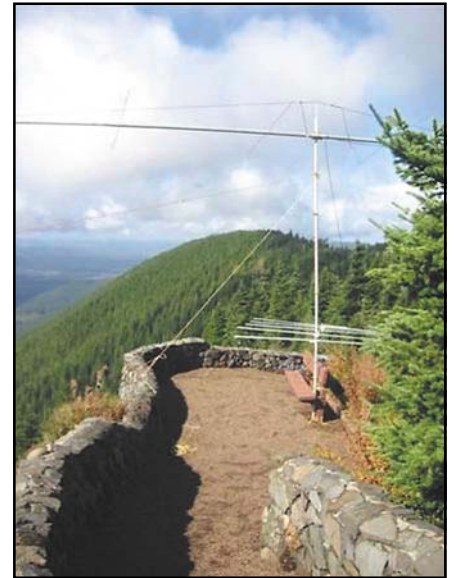
Dale also finished in the Top 10 (SOLP), so not a bad (former) teacher-student combo. Chris is excited to be back into VHF Portable contesting, and intends to add 903 MHz and make further improvements to his mast supports to do even better in 2005.

W4SHG

Steve is relatively new to VHF contesting. Operating from his home QTH in FM18, Steve was able to place #6 in the SOLP class. Steve doesn't enjoy a great VHF location as he is blocked in two key directions. Despite this, he notes that the challenge is to see how you can improve things each time to better your own results. And that Steve did, as he has added a number of bands and a better setup to help his score. While he didn't notice any real enhancement this time, some of the keys to his success included staying in the chair to take advantage of whatever was available, and following some of the rovers to be sure to work the grids they made available. He also cited keeping an eye out for any 6 meter openings, as doing so allowed him to catch a brief opening to Florida. Steve continues to work on his station and expects to add some digital capabilities for the "downtime" in future contests. Steve's interest in VHF contesting stems from the challenge and need to really hone his operating skills to achieve good results. From the results this time he's obviously learned a lot already.

KC9BQA

Todd is a relatively new ham having joined the fraternity in 2003. He's a year into VHF contesting and in this contest achieved a #10 showing in SOLP. Todd was an SWL for years but lived in a poor location. He recently moved to a 39 acre QTH on high farmland. That gave him the incentive to get his license, and up went a 100 foot tower and stacked antennas on 2 and 432 and a single antenna for 6. This



Johnny, KE7V, and Mike, K7MDL, operated at 3000 ft from North Point Lookout in CN78.

contest he added 222, which added over 50% to his score. He enjoys chasing new grids and working openings. As others find, one of the appeals of contesting is the high level of activity and the possibility for new grids. The strategy of chasing rovers and the activity is lots of fun—Todd notes it's like a party or a big Packers game! Having already achieved great results, Todd is looking for more, perhaps adding 903 and 1296 MHz down the road. He's done a lot of research to get things going so far, so expect him to continue his VHF and contesting success as he gains more experience.

W3IY/R

Bill and his roving partner, Christophe, ON4IY, set off once again for the rove from the NC coast up north to Delaware and then west to the mountains of western VA. And, this time they made over 1150 Qs on their way to setting an all-time record score for a rover in September. It helps to have fantastic microwave gear—capable of working over 100 Qs on 903 and 1296, and 70, 61 and 40 on 2.3, 3.4 and 10 GHz, respectively. Anyone who's worked the IY team knows they get louder as you head up in frequency. Other keys to success: Christophe handles the pile-ups on 2 meters and does the coordination with the microwaves. And, Bill really knows how to run 'em through the microwaves. Bill noted great activity from the DC area this time and some interesting

Overall Top 10

Single Operator Low Power		Single Operator High Power		Single Operator Portable		Limited Multioperator		Multioperator Unlimited		Rover	
K1TR	328,482	K1TEO	657,888	KA1LMR	61,500	K3YTL	363,553	W2SZ	1,775,246	W3IY	382,194
K2DRH	228,464	K3EAR	655,710	K6MI	23,968	W3SO	340,985	K1WHS	1,183,200	N6MU	276,012
KB8U	186,702	(K9PW, op)		N7CFO	21,230	W4IY	316,064	N2PA	440,440	KG6TOA	267,894
WB1GQR	170,250	K1RZ	327,334	K17JA	6,000	AA4ZZ	166,772	N2NK	196,974	W9FZ	112,832
(W1SJ, op)		W4RX	251,363	WB2AMU	4,218	K8EP	162,610	K3EOD	179,626	K9JK	88,464
AF1T	77,544	KM0T	224,190	N8XA	4,032	W1QK	144,450	W2EA	162,180	WB8BZK	83,494
W4SHG	62,356	K3DNE	209,088	K3AX	3,300	K2BAR	125,538	W9ICE	153,438	K1DS	78,645
N0KP	59,920	K2SMN	142,674	N7IR	2,240	W4NH	109,020	N3NGE	127,974	K2TER	65,024
K5MA	58,860	K8TQK	122,610	N6DN	2,093	N8ZM	66,144	K5QE	112,189	KF8QL	59,600
N9DG	55,539	K3TUF	102,102	W9SZ	1,653	KB1DFB	63,648	KE1LI	101,432	AL1VE	59,287
KC9BQA	53,922	K8MD	98,350								

Regional Leaders

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT Sections)		
K1TR	328,482	A	W4SHG	62,356	A	K2DRH	228,464	A	N0KP	59,920	A	N6RMJ	17,856	A
WB1GQR	170,250	A	W3IP	27,158	A	KB8U	186,702	A	N0HJZ	31,752	A	KC6ZWT	13,805	A
(W1SJ, op)			KD4HIK	10,856	A	N9DG	55,539	A	K5WPN	29,127	A	K7YO	13,500	A
AF1T	77,544	A	W4VHF	7,293	A	KC9BQA	53,922	A	N0LL	12,956	A	W7USB	5,130	A
K5MA	58,860	A	K4PUF	7,130	A	WA1MKE	36,047	A	N0VZJ	11,713	A	N7DB	4,920	A
W1BQ	50,580	A												
K1TEO	657,888	B	W4RX	251,363	B	K8TQK	122,610	B	KM0T	224,190	B	N7EPD	25,960	B
K3EAR (K9PW, op)	655,710	B	KE8FD	60,606	B	K8MD	98,350	B	W0ZQ	72,688	B	KJ6KO	22,374	B
K1RZ	327,334	B	W4WA	40,812	B	N2BJ	82,859	B	N0URW	67,620	B	K6TSK	20,664	B
K3DNE	209,088	B	KN4SM	28,126	B	VE3TFU	73,746	B	W0GHZ	37,430	B	WA7TZY	20,008	B
K2SMN	142,674	B	K2UOP	21,600	B	W9GA	72,576	B	K0AWU	27,710	B	W7GLF	19,546	B
K3YTL	363,553	L	W4IY	316,064	L	N8ZM	66,144	L	W0VB	7,788	L	VE7DXG	35,856	L
W3SO	340,985	L	AA4ZZ	166,772	L	K8FH	21,712	L	W0EEA	6,345	L	AD6IJ	13,662	L
W1QK	144,450	L	K8EP	162,610	L	N9TF	14,560	L	N0UNL	1,820	L	W6TE	6,075	L
K2BAR	125,538	L	W4NH	109,020	L	K4ITF	6,608	L	KE5CCI	1,302	L	W6QE	1,904	L
KB1DFB	63,648	L	WD4OAR	14,184	L				WV7T	192	L	NW7MT	20	L
W2SZ	1,775,246	M	WB4WEN	44,770	M	W9ICE	153,438	M	K5QE	112,189	M	K0DI	30,660	M
K1WHS	1,183,200	M	AG4V	9,798	M	K9CVC	77,859	M	N0BHH	15,520	M	W6MMM	16,530	M
N2PA	440,440	M	N5DL	6,380	M	K9RN	37,664	M	K0SGI	9,856	M	K7TOP	14,248	M
N2NK	196,974	M	WC4J	6,006	M	AD8U	2,176	M	K5LLL	8,316	M	KE7V	11,128	M
K3EOD	179,626	M	N4JQQ	5,200	M				W5LCC	5,070	M	KG6TBR	5,544	M
KA1LMR	61,500	Q				N8XA	4,032	Q	WA5WJY	54	Q	K6MI	23,968	Q
WB2AMU	4,218	Q				W9SZ	1,653	Q				N7CFO	21,230	Q
K3AX	3,300	Q				WB8WSF	1,092	Q				K17JA	6,000	Q
K4JSI	1,647	Q										N7IR	2,240	Q
N1MPT	918	Q										N6DN	2,093	Q
K1DS	78,645	R	W3IY	382,194	R	KF8QL	59,600	R	N6MU	276,012	R	K3UHF	57,464	R
K2TER	65,024	R	N4OFA	37,224	R	VE3OIL	52,815	R	KG6TOA	267,894	R	W7DHC	33,512	R
AL1VE	59,287	R	KD5RUJ	7,849	R	K8DOG	39,325	R	W9FZ	112,832	R	K6EU	12,599	R
WA2ID	57,960	R	WA4JA	1,056	R	NE8I	35,073	R	K9JK	88,464	R	WB6JDH	7,440	R
K3LFO	40,004	R				K8MR	26,535	R	WB8BZK	83,494	R	KE6HPZ	6,303	R

conditions. They managed to work K1WHS through 5.7 GHz while in FM16 at a distance of over 500 miles. Bill and Christophe have done an excellent job of encouraging microwave activity on the East Coast both during and between contests. Bill leads the way with monthly Microwave Activity Days (MAD) with his rover. During contests they provide many rare grids to their faithful followers. Bill and Christophe both noted the incentive to give out rare grids to grid-hungry contesters. It's fair to say that they've achieved an amazing capability of making things a win-win for themselves and the contesting community. Congratulations, guys, and thanks for making it fun for so many others!

Make sure you see the Web report at www.arrrl.org/contests/results for a sidebar by ON4IY's version of "Why We Rove" as well as several more individual highlights.

Overall Category Results

Single-Operator

Ed, K1TR, repeated in the top Single Operator Low Power spot, again edging Bob, K2DRH. Bob's score went up a good deal this year, but Ed was able to use some of the enhanced conditions from Mt Washington to the upper Midwest to beat his '03 score by over 100k. Ed's score set a new all-time record, breaking his 2001 record for SOLP, this despite the much better conditions in 2001. Ed attributes better microwave gear in 2004 for the results. Bob and Ed have really battled it out over the last few years so stay tuned for the '05 rendition. They may face some tough competition from numbers 3 and 4 in this year's event—Russ, KB8U, and Mitch, W1SJ, operating as WB1GQR. Both were in great locations to benefit from the tropo that occurred and were close behind K2DRH. Mitch's score was

up almost 70% from '03 when he also placed 4th. The SOLP category saw 5 new division records. In addition to Ed, Bob, and Russ, Steve, W4SHG, and Dave, N0KP, set new records in their divisions. Congratulations, guys!

The Single Operator High Power category saw the closest competition for any category in many years. Pete, K9PW, brought his wealth of Midwest contest experience "out east" for a try from the K3EAR mountaintop station in EPA. Last year Stan, KA1ZE, piloted the K3EAR station to a win over Jeff, K1TEO. This year saw the results reversed by an amazingly narrow margin of 2k, or 0.3%! The difference was likely Jeff's CT QTH getting partially into the tropo to the Midwest whereas Pete wasn't able to benefit. Both stations beat the all-time Single Operator score for any VHF contest record, set by W5ZN a number of years ago with the aid of tropo and E-skip on 6 meters during a June con-

Affiliated Club Competition

Medium Category

North East Weak Signal Group	16	2,330,628
Potomac Valley Radio Club	25	1,771,142
Mt Airy VHF Radio Club	24	870,833
Northern Lights Radio Society	51	851,271
South Mountain Contest Club	4	660,380
Rochester VHF Group	4	531,868
Society of Midwest Contesters	11	495,448
Badger Contesters	15	288,561
Pacific Northwest VHF Society	22	255,497
South Jersey Radio Assn	3	171,204
Contest Club Ontario	10	122,238
Yankee Clipper Contest Club	6	76,329
Western States Weak Signal Society	12	75,343
Northern California Contest Club	9	61,538
Mad River Radio Club	3	28,435
Downey ARC	4	19,211

Local Category

Eastern Connecticut ARA	4	167,752
Delaware Valley VHF Society	3	45,786
North Texas Microwave Society	3	16,158
Dauberville DX Assn	4	12,298

test. The numbers suggest that given current activity levels and usage of many microwave bands, we may be just a major E-skip/Tropo opening away for the first single-op ever to achieve 1 million points...Dave, K1RZ, repeated in 3rd place with a FB effort from FM19. Jim, W4RX, Mike, KM0T and Ed, K3DNE, all scored over 200k for 4th through 6th place. And, Mike's, KM0T, effort set a new Division Record.

Multioperator

Three stations in relatively close proximity scored over 300k in the Limited Multioperator category. K3YTL repeated in the top spot, while W3SO reclaimed the 2nd spot only 22k behind. W4IY was right behind in 3rd, moving up from an '03 5th place finish. All three stations are VHF contesting regulars so this sets up some exciting competition ahead. AA4ZZ repeated in the 4th slot followed closely by up and coming K8EP. One Division record was set in Limited Multioperator with the gang at WD4OAR setting a new Delta Division record.

W2SZ led the way again in the MM category with a score similar to '03. But watch out because the K1WHS crew increased their score a good deal and also made the 1 million point level—very impressive for their Down East location. N2PA and team moved up from 4th to 3rd this year, while 4th-7th were very close with N2NK, K3EOD, W2EA and W9ICE battling it out. The K5QE group not only made the Top 10 but also set a new Division record with their efforts.

Rover

As with the two single-op categories a new all-time September contest record was set in the roving category by W3IY. With Bill mowing them down on the microwaves and Christophe, ON4IY, providing "traffic control" on 2 meters, this team demonstrated what a well equipped, well coordinated team can do even under mostly

normal band conditions. And, as noted earlier, they did so in a way that enhanced many other operators' fun and scores. Congratulations, guys! In 2nd and 3rd places were John, N6MU, and Robert, KG6TOA, who operated in tandem from WTX for over 200k apiece. Bruce, W9FZ, scored over 100k for 4th, followed in tight competition by John, K9JK; Mike, WB8BZK, and Rick, K1DS. In addition to W3IY and N6MU, Dave, KF8QL, and Mike, N4OFA, set new Division records. On behalf of all the non-rover operators, thanks to all the "masters of the macadam" for doing a great job and making the contest a lot more fun for everyone!

Regional Highlights

Northeast Region

Activity in the Northeast is generally high and the enhancement Saturday night helped to spur activity. WB1GQR, AF1T and K5MA all made the Top 10 nationally in the SOLP category. Likewise for K3DNE, K2SMN and K3TUF in the SOHP category. LM stations W1QK, K2BAR and KB1DFB made the Top 10 as well, as did N2NK, K3EOD, W2EA and KE1LI in MM. The Rover category also saw heated competition as K1DS, K2TER and AL1VE turned in FB Top 10 results. WA2IID just missed making the list by 1k. WB2AMU and K3AX did a great job in the Portable category.

Southeast Region

Competition in the ML category was especially fierce as four stations made the Top 10 National list. In addition to W4IY near the top, AA4ZZ, K8EP and W4NH all broke 100k and made the Top 10. W4SHG made the Top 10 nationally in SOLP followed by W3IP in Regional results. W4WA moved up to the HP category this year and placed 3rd in the Region just behind KE8FD in SC. The crew at WB4WEN had the top MM score in the Southeast.

Central Region

Like the Northeast, parts of the Central Region benefited from the same enhancement Saturday. KB8U rode the tropo to finish near the top of the SOLP category, while N9DG and KC9BQA also finished in the Top 10. K8TQK and K8MD made it to the top listing in SOHP, while N2BJ, VE3TFU and W9GA followed closely. N8ZM led the region for ML and W9ICE did the same for MM, also making the National Top 10. N8XA and W9SZ did the same in the Portable category as did KF8QL as a Rover. VE3OIL turned in a fine effort as a rover, just missing the Top 10 list.

Midwest Region

N0KP led the way in the Midwest with

a #7 finish nationally, followed in the region by N0HJZ and K5WPN. In addition to KM0T's Top 10 finish in S0HP, W0ZQ and N0URW turned in highly competitive logs. The gang at K5QE really stood out with the top Regional score in MM and a #9 National finish. The Midwest excelled in the roving class with 5 of the top 6 National scores from N6MU, KG6TOA, W9FZ, K9JK and WB8BZK. Way to go, guys!


West Coast Region

While the scores generally aren't as high as some other regions, the competition in the West was especially fierce. Only 4k separated the top 3 in SOLP: N6RMJ, KC7ZWT and K7YO. Not to be outdone, the SOHP competition featured 5 ops within 6k of one another—N7EPD, KJ6KO, K6TSK, WA7TZY and W7GLF. The VE7DXG group did a great job in LM to lead the Region, as did K0DI in MM. K6MI, N7CFO and K17JA finished 2, 3 and 4 Nationally in the Portable Category, with N7IR and N6DN also making the list. K3UHF led the rovers in the West, just missing an overall Top 10 finish.

Club Competition

Clubs are a great way to find out about VHF operating and contesting. There are great clubs in all sections of the country. Many of these clubs help to generate contest participation by encouraging members to get on the air and help the effort in the Affiliated Club Competition. This year 20 clubs submitted entries. If you're not already a member, take a look at the list to see if there is an active club in your area. Most have Web sites that provide more information.

The North East Weak Signal Group repeated as winners in the Medium class in 2004, with a close win over the Potomac Valley Radio Club. Sizable scores were also submitted by the Mt Airy VHF Radio Club, the Northern Lights Radio Society (51 entries—great job, guys!), the South Mountain Contest Club, The Rochester VHF Group and the Society of Midwest Contesters in 3rd through 7th place. The Eastern Connecticut ARA won in the Local Category, defeating last year's champs, the Delaware Valley VHF Society.

So, another September VHF contest is behind us. This one saw increasing participation, more usage of microwave bands and some record-setting scores. If you want to join the fun on VHF and are just starting out, take a look at the Club listings to see if there's a club near you where you might find some more information. Or, take a look at the list of participants in this one and contact them if you have questions. On VHF more activity makes for more fun. So get on and join the fun in the next event. CU on the bands! 

N3NGE (+AA3GN, N3EXA)
127,974 512 154 M ABCD9EFGHI

Maryland-DC

N3UM 3,774 111 34 A AB
K2PLF 2,880 81 32 A ABD
N3II 2,736 114 24 A A
W6AXX 2,496 96 26 A B
K3ZO 2,088 87 24 A B
WN3C 1,377 51 27 A AB
W3FAY 684 34 19 A ABD
W3CB 341 31 11 A B
K1RZ 327,334 825 227 B ABCD9EFGHI
K3DNE 209,088 647 192 B ABCD9EFG
W3ZZ 37,576 295 88 B ABCDE
WB3IGR 6,370 101 49 B ABCD
W3EKT 3,589 97 37 B AB
N3JPU 2,926 76 38 B ABC
W3FAR (N3VOP, W3ARS, W3ADC, W3ADX,
W3RAR, ops)
13,772 254 44 L ABCD
K13DS (K3TH, K3ASK, K3BAY, ops)
3,232 101 32 L AB
N3OC (+K3FT)
79,296 410 118 M ABCD9EFI
WA3ZKR (+K3EJJ)
74,952 416 108 M ABCD9EFGHI

Western Pennsylvania

KE3WM 4,636 118 38 A ABD
WA3LTB 3,315 85 39 A B
K3ZCY 1,760 43 32 A ABD
N3HKQ 540 23 20 A ABD
KA1ZE 28,728 399 72 B B
K4JSI 1,647 53 27 Q ABD
W8IJ 99 10 9 Q ABD
W3SO (W3BXT, K3IXD, KB3LGS, AI3M, W3SF,
W3TEF, W3YOZ, K4VV, ops)
340,985 1105 235 L ABCD
K3HRC (W3ERF, N3ZQY, N3VRO, ops)
2,916 72 36 L ABD

4

Alabama

AF4OD 1,488 36 31 B ABCD

Georgia

WA4IOB 2,250 55 30 A ABCD
NX9O 325 17 13 A ABCD
W4WA 40,812 263 114 B ABCD
KD4K 1,056 34 24 B ABCD
KF4OLO 112 14 8 B AB
K4NGA (WB4AEG, WA4LGP, ops)
5,687 88 47 L ABCD

Kentucky

W4FVQ 7,257 84 59 A ABCDEF
K4LVV 2,184 68 26 A ABCD
K4ITF (+AK4U, K14FGF, K4TDO)
6,608 91 56 L ABCD

North Carolina

N4HN 3,488 90 32 A ABD
K3KO 416 26 16 A AB
N4TL 63 9 7 A A
K4QI 5,888 128 46 B AB
W4DEX 4,640 59 40 B ABCD9EFGHI
W4VHH 3,638 56 34 B BDEFG
AA4ZZ (+AA4S, K2SD, K4DXA, K8YC, W4GRW,
W4MW, W4WJF, W4WNT)
166,772 770 173 L ABCD
W4NH (W4KXY, K4EA, K4SZ, K4VJM, W4SKI,
ops) 109,020 555 158 L ABCD
WK4Y (+N4LSP)
1,150 46 25 L AB
WB4WEN (+K4EJQ)
44,770 256 110 M ABCD9EFGHI

Northern Florida

KE4YYD 120 11 10 A BD

Puerto Rico

NP3CW 18 6 3 A AB

South Carolina

N4UFP 2,403 63 27 A ABCDE
KE8FD 60,606 334 126 B ABCD9EF

Southern Florida

NJ2F 627 42 11 A ABCD
KG4ZLB 14 7 2 A AB
KB2SFA 300 36 6 B ABCD

Tennessee

KD4HIK 10,856 134 59 A ABCD
W4BCU 5,215 101 35 A ABCDE
WA4YRK 2,538 63 27 A ABDE
WB4IXU 1,620 53 20 A ABCD9E
AD4F 1,248 36 26 A ABCD
W2OO 420 24 14 B ABD
WD4OAR (WD4DES, WA4NIV, KG4JST, NE4ME,
W4ORS, N4XYC, KG4CKW, KG4AQW,
KG4SVG, N4FPF, ops)
14,184 180 72 L ABCD
KD4WQE (+KG4MNJ)
4,686 127 33 L ABCD
AG4V (+packet)
9,798 98 71 M ABCDE
N4JQQ (+packet)
5,200 70 52 M ABCDE

Virginia

W4SHG 62,356 309 119 A ABCD9EFG
W3IP 27,158 273 74 A ABCD
W4VHF 7,293 112 51 A ABCD
K4PUF 7,130 121 46 A ABCD
KJ3O 6,670 132 46 A ABD
K4FJW 6,475 131 37 A ABCD9E
K4FTO 4,719 114 33 A ABCD
N4MM 3,333 86 33 A ABD
K4MSG 3,080 78 35 A ABD
KO4ER 3,016 90 29 A BD
AD4TJ 2,409 55 33 A ABD
N4DWK 1,922 58 31 A ABD
KC4DPF 1,029 46 21 A ABD
KG4QWC (W4HFFH, op)
990 47 18 A ABD
W4BNO 276 23 12 A AB
W2YE 231 21 11 A A
K14FWE 208 26 8 A A
N4JED 35 7 5 A B
K9TWP 18 6 3 A AB
W4RX 251,363 580 241 B ABCD9EFGHI
KN4SM 28,126 234 98 B ABD
N4HB 14,352 152 69 B ABDE
WF4R 8,550 110 57 B ABCD
K4WYS 3,280 64 41 B ABD
K2EWW 1,624 45 29 B ABD
K4UO 836 38 22 B B

W4IY (KA4CKI, WA0DYJ, N3WSO K5VG,
KG4HTL, W4DAV, N4MZZ, KE4BUS, W7IY,
AA4SI,
WA4TK, W4RM, W4NF, K5OF, KG4URW, KI4GSS,
ops) 316,064 1119 224 L ABCDI
K4MRA (N4DSL, WA4KKL, K4RMY, K4NRA, ops)
11,330 180 55 L ABCD
N3NYC (+N3GLZ)
6,880 146 40 L ABD
W4YSB (KD4MCA, W4MLN, W4JDM, KI4CJH,
KF4VKX, ops)
5,152 138 32 L ABCD
WC4J (+KR4DO, WA4HR)
6,006 106 42 M ABCDE

5

Arkansas

W5ZN 150 10 10 A ABCD
N5DL (+KG5MD, AA5XA, KK5IX)
6,380 81 58 M ABCDE

Mississippi

KJ5RC 16 4 4 A A

New Mexico

K5RHR 1,044 38 18 A ABCDE
NK5W 616 44 11 A ABD
W5AOX 385 45 7 A ABD
WB2FKO 84 14 6 A B
K5AM 4 2 2 B B

North Texas

K5SM 2,923 69 37 A ABD
K9MK 8,456 111 56 B ABCD9E
N5IT 3,456 108 32 B AB
WA5TKU 3,145 68 37 B ABCDE
WA5WJY 54 9 6 Q B
KE5CCI (+K5USS)
1,302 73 14 L ABCD
KE5CIF (+NM5M)
4,557 104 31 M ABCD9E

Oklahoma

K5WPN 29,127 200 133 A ABD
K5YM 798 35 19 A BD
NE0P 570 26 19 A ABDE
K5SW 5,841 79 59 B ABC
KB0HH (+K0UO)
15,520 142 80 M ABCDE

South Texas

KM5RG 1,750 55 25 A ABD
K5IX 1,242 42 23 A ABD
KZ5CW 418 32 11 A ABD
N0QFV 160 20 8 B AB
K5QE (+K5MQ, N5UM, KE5CLR)
112,189 372 217 M ABCD9E
K5LLL (+NN5DX)
8,316 100 54 M ABCD9EFGI

West Texas

W5LCC (KC5OBX, KC5QKV, N5RNY, KD5ZDD,
KB5KYJ, ops)
5,070 86 39 M ABCDE

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East Bay

KE6QR 1,386 61 18 A ABD
K6MI 23,968 269 56 Q ABCD9EFII

Los Angeles

N6RMJ 17,856 187 64 A ABCDEI
WA6OWM 1,558 57 19 A ABCD
AD6AF 252 16 12 A ABD
KJ6NO 220 18 11 A ABD
KG6GJM 84 9 7 A ABD
KF6QEX 4 2 2 A A
N6TEB 5,216 108 32 B ABCDEI
K6HLH 2,871 59 33 B ABCDE
AD6IJ (+KF6XA, AC6TK)
13,662 221 46 L ABDE
K0DI (+KF6YYV)
30,660 364 60 M ABCDEI

Orange

KC6UIX 1,240 50 20 A ABD
K6TSK 20,664 231 56 B ABCDE
K6IBY 1,265 35 23 B ABCD
N6DN 2,093 58 23 Q ABDEI
W6QE (+ K6EY)
1,904 97 16 L ABD

Santa Barbara

KE6RCI 639 58 9 A BD
KC6NBI 945 45 21 B AB
KG6TBR (+K6WLC, WA6PZK, AB6CF)
5,544 115 36 M ABCDE

WØRKB	45	7	5	A	BD
KBØARK	40	7	4	A	BD
WØIS	40	7	5	A	ABC
AAØGP	36	6	4	A	BD
KØVG	35	6	5	A	BD
KCØTAN	24	7	4	A	ABD
KAØHBG	15	4	3	A	BD
NØGEH	10	5	2	A	AB
KCØOIA	3	3	1	A	B
NØJCF	2	1	1	A	D
WØZQ	72,688	349	112	B	ABCD9EFGI
WØGHZ	37,430	191	95	B	ABCD9EFGHI
KØAWU	27,710	219	85	B	ABCDEI
WØAUS	11,250	138	50	B	ABCDEFHI
KØCJ	9,639	127	51	B	ABCDE
WØAMT	7,095	115	43	B	ABCD9
NØUK	5,247	104	33	B	ABCD9EI
KØJO	3,811	73	37	B	ABCD9
WØPHD	989	33	23	B	ABDE
WØLER	817	29	19	B	ABDE
KCØFQZ	176	22	8	B	AB
WØVB (+ AA5F)	7,788	102	59	L	ABDE
KØSGI (NØRPM, KCØIYT, KD5EMB, ops)	9,856	151	44	M	ABCD9EI

Missouri

WAØFQK	21	7	3	A	A
WAØCNS	504	32	14	B	ABCD

North Dakota

KØUD	198	16	11	A	ABD
NTØV	4,606	67	49	B	ABCD9E

Nebraska

K1DJW	1,380	55	23	A	ABD
NØUNL (KCØRNZ, NØKIS, WDØBGZ, ops)	1,820	65	26	L	ABD

Maritime-Newfoundland

VE1SKY	35	5	5	A	AD
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Quebec

VE2DC	936	38	24	A	ABD
VE2HDQ	640	32	20	A	B
VA2UK	96	31	3	A	ABD
VE2XX	9,971	96	59	B	ABCD9EFG

Ontario

VE3SMA	27,063	185	93	A	ABCD9EFIJ
VA3KA	14,707	141	77	A	ABCDE
VE3CVG	14,256	142	72	A	ABCDE
VE3HHT	6,413	83	53	A	ABCD
VA3NFA	2,926	57	38	A	ABCDE
VE3SPW	2,886	78	37	A	B
VE3KZ	2,607	79	33	A	B
VA3DF	1,040	26	20	A	C
VE3VHB	910	35	26	A	B
VA3OR	315	21	15	A	A
VE3TFU	73,746	298	153	B	ABCD9EF

British Columbia

VA7MM	30	5	2	B	E
VE7DXG (+packet)	35,856	368	72	L	ABCD

Rovers

Atlantic

K1DS	78,645	376	107	R	ABCD9EFGHIP
K2TER (+KV2X)	65,024	291	128	R	ABCD9EFGHI
K3LFO (+W3DIO)	40,004	370	73	R	ABCDE
KE3HT	30,646	208	77	R	ABCD9EFGH
K2QO (+K2ZR)	25,988	214	89	R	ABCDE
NE3I	16,992	203	48	R	ABCD9E
WA3PTV	13,400	145	50	R	ABDEGI
K2LDT (+K2LDU)	12,760	109	55	R	ABCD9EFGHIJK
WA1HHN	4,470	74	30	R	ABCD9EIJKL
W3HMS	4,294	73	38	R	ABCD9EFG
N2SLN	3,600	69	45	R	ABC
N1ROZ	160	11	8	R	ABDJ
N3EMF	40	5	5	R	BCD

Central

K9ZF	8,007	131	51	R	ABD
W9RAY	7,616	135	34	R	ABCD9E
N9UX	1,239	49	21	R	ABD

Dakota

W9FZ	112,832	680	86	R	ABCD9EFI
KØMHC	16,950	201	50	R	ABCD9EFG
KCØP	4,530	97	30	R	ABDEI
KCØFX	1,368	45	24	R	ABD
NØHZO	910	42	14	R	ABDE
KG6GMT	364	24	14	R	ABD
KØNY	98	7	7	R	ABDEI

Delta

N4OFA	37,224	249	99	R	ABCD9EF
KD5RUJ	7,849	139	47	R	ABD
WA4JA	1,056	42	24	R	ABD

Great Lakes

KF8QL	59,600	394	80	R	ABCD9EFI
K8DOG	39,325	319	65	R	ABCD9E
NE8I	35,073	224	81	R	ABCD9EFGHIJK
K8MR (+W1NN)	26,535	277	87	R	ABCD

Hudson

AL1VE	59,287	390	101	R	ABCDE
WA2IID (+KB2SSS)	57,960	286	92	R	ABCD9EFGHIJ
KC2HIZ	8,228	90	34	R	ABD9EFGHIJK
WB2LLP	5,858	71	29	R	BCD9EFGHIJ

Midwest

K9JK	88,464	404	114	R	ABCD9E
WB8BZK	83,494	398	109	R	ABCD9E
KØDAS (+NØLNO)	28,125	244	75	R	ABCD9EF
KFØM	12,420	146	60	R	ABCD

New England

KJ1K	22,002	168	57	R	ABCD9EFGHI
KB1EAA (+KB1EUH)	21,450	230	66	R	ABCD9E
N1FGY (+K2LM)	15,400	150	50	R	ABCD9EFGHI
W1AUV	12,558	184	46	R	ABDEI
N1QVE	6,513	87	39	R	BCD9EIJ
KR1TD	2,875	47	25	R	ABCD9EFGHIJ

Northwestern

K3UHF	57,464	440	88	R	ABCD9E
W7DHC (+KA7GKK)	33,512	348	59	R	ABCD9EFGI
KAØTP	5,376	149	28	R	ABCD
W7ZZT	3,689	73	31	R	ABCDE
K7TM	2,900	92	25	R	ABD
KF7CN	1,748	60	23	R	ABD

Pacific

K6EU	12,599	219	43	R	ABCD
KJ6JO	1,125	53	15	R	BD
K6KL	748	44	17	R	AB

Roanoke

W3IY (+ON4IY)	382,194	1156	153	R	ABCD9EFGHI
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Southwestern

WB6JDH	7,440	153	30	R	ABCDEI
KE6HPZ	6,303	103	33	R	ABCDEGI
N6ZE (+KQ6NO)	3,816	125	24	R	ABD

West Gulf

N6MU	276,012	813	123	R	ABCD9EFGHI
KG6TOA	267,894	791	121	R	ABCD9EFGHI
W5LL (+N5KR)	5,822	120	41	R	ABD
N5AC	5,538	103	39	R	ABDE
KD5SHM	3,604	87	34	R	ABD
WDØACD (+K5FOG)	3,240	92	24	R	ABDE
AF5Q	1,380	46	23	R	ABCDE
KE5BZO (KD5ULG, op)	484	25	11	R	ABCDE
K6LMN/5	130	13	10	R	AB

Canada

VE3OIL (+VE3NPB)	52,815	330	105	R	ABCD9EFIJ
VE7DAY	952	46	17	R	ABCD