

# 1997 ARRL January VHF Sweepstakes Results

**D**espite average propagation conditions, high levels of activity made this contest fun from start to finish. You can always count on lots of activity in the January VHF Sweepstakes. Our ARRL Affiliated Clubs see to that. Typically, the January VHF SS attracts 300 to 500 more entrants than the June or September VHF QSO Parties. Clubs have a way of enticing casual operators to get on the air during the contest—with whatever equipment they may have. Even if the only VHF equipment that is available to you is a 2-meter FM transceiver, the bands are usually buzzing with activity on the simplex channels, especially in the local areas near large VHF contest clubs. A scan through the score listings will show you lots of entries with low to average scores. These are the casual operators. In the areas where you can find lots of casual operators, you can surely count on an active VHF contest club being nearby. If you are in one of these areas and don't belong to the local club, you should contact them. Clubs offer a wealth of resources—operating help, equipment information, antennas and propagation advice, etc. But most of all, clubs offer camaraderie among the members and lots of operating fun. If your club isn't filling the bill by getting the casual operators active in the contest, you should experiment with some new techniques to encourage your members to try VHF contesting. More activity makes for more fun—and larger scores.

Rovers are another entity that contributes to the overall fun of the contest. This year's VHF SS attracted quite a few rovers despite the unusually cold and stormy weather. With the lack of enhanced band conditions, and when nearby grid square multipliers are hard to come by, rovers offer us those much appreciated grid square multipliers, especially on the microwave bands. Rovers add *doubly* to your club's aggregate effort—contacts for you, and contacts for the rover. This only translates to larger club scores. Hats off to all

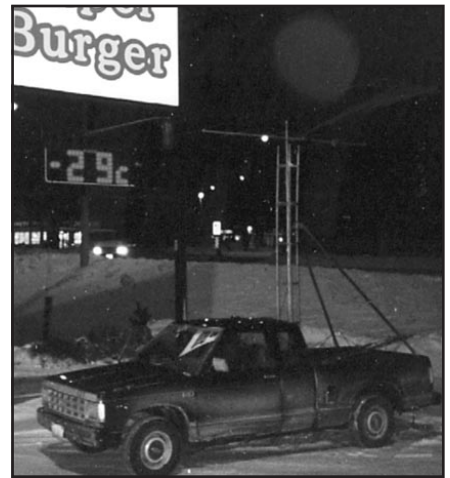


Our rotators were frozen several times during the weekend, but we were warm and toasty in the shack. Thanks to N2WK's XYL for the great food. We used our new Rochester VHF club call sign in memory of our founder Hank Blogett, W2UTH. Shown (l-r) are Mark, KA2RDO; Paul, W2PJ; Frank, K2OS; and Dave, K2DH. Rus, NJ2L, is to the left, in the background.

the rovers! Their presence and efforts don't go unrecognized.

It's not just activity that makes a contest interesting and fun—a band opening or two surely helps. Did you catch the short opening on 6 meters? Yes, there were actually *two* short 6-meter openings—one on Saturday night and one on Sunday morning, about an hour each. There wasn't much of any other band enhancements reported—a little meteor scatter and that was about it. This was definitely an average January contest.

Did you work any EME? This year the January EME Sked Weekend was on the same weekend as our contest. A few stations reported making EME QSOs into Europe—K1FO, WB2DNE and N4UK. Any others? This is one mode you want to watch. If you can catch a moonrise or moonset, you just might pick up a new multiplier or two.



Russell, VE3OIL, says, "The contest was on the coldest weekend of the year (notice the  $-29^{\circ}\text{C}$  sign). The 1296 plastic antenna mounting, used for several June contests, shattered in the cold. The 432 antenna broke while cleaning ice off of it; I had to hot-wire it back to life. At one point the 2-meter amp took off into audio-frequency oscillation that I could hear, but a couple of thumps set it straight. The 6-meter transverter failed and needed encouragement. The only thing I couldn't work around was the truck. The picture is from the south end of EN94 shortly before the truck started misfiring and not providing enough power to pull itself. It had to be towed to the garage, causing much work and significant changes in my plans. The problem was determined to be probably a cold-induced intermittent in the fuel pump. It hasn't given me a problem since then—I may replace it in the warmer months, or I may not. I may attempt roving again next January, but only if it stays warm, say above  $-10^{\circ}\text{C}$ ."



AA4ZZ operated 144 MHz in the mountains of NC from his Jeep.

## Top Ten

Single Operator	QRP Portable	Multioperator	Limited Multioperator	Rover	
WA8WZG 467,712	W8TL/3 49,818	K3MQH 653,034	N2XTX 180,495	AB4CR 143,606	
WA2TEO 364,000	NS6X 37,920	W2UTH 495,288	N4UK 149,112	NR1L 109,368	
WC2K 276,937	W1VT 25,168	N2ODK 299,296	NC1I 99,086	NC7K 82,820	
WA3AXV 262,080	KK6KE 17,874	W8ULC 159,344	W1QK 92,367	KB3PW 68,187	
AA2UK 231,972	KC8BUN 15,879	K1VHS 153,672	NO2T 88,827	(+N2HKD)	
WZ1V 222,384	N8KH 7,130	K2TVI 152,320	N6RMJ 60,512	WO2P 37,760	
W2FU 188,800	N8XA 5,781	WA2AAU 132,225	WB1FLD 56,602	KA2CKI 34,408	
K1RZ 188,649	N9TZL 3,683	W3IP 118,708	N2VOT 53,418	N2KXS 29,055	
WA3NUF 177,862	W6ZN 3,553	W0RSJ 115,884	K1MUJ 38,847	KJ1K(+N1MU) 26,977	
KD1DU 170,291	XL2PIJ 2,160	WA2OMY 108,290	K3CT 36,946	WB5VYE 17,836	
	(VE2PIJ,op)			(+WA5ZKO)	
				N3KKM 16,744	
				(+N3XUD)	

## How I Worked Five Grids on Sixteen Bands

By John Kitchens, NS6X

A nonham friend works in a satellite communication division of Hughes. He thinks I am a bit crazy for what I do. He does this stuff for a living, so he really doesn't understand why I find this stuff "fun." I guess it is more of the challenge of the hunt, than the competition that I enjoy—conquering something that I was told would be impossible to do. He can't tell me what he does (top secret job and all...), but I knew he has some expensive test equipment. I made arrangements to borrow some of it. I didn't pay too close attention to the equipment I was using, but it was essentially a signal generator and frequency counter, attached to 5-foot dishes, for all bands above 24 GHz. For the other bands, I used an FT-736 for 144 through 1296 MHz, Downeast transverters for 2.4 through 5.7 GHz, and Gunnplexers for 10/24 GHz. Several lasers were used with photomultipliers for receivers, as designed by Steve Noll, WA6EJO.

Los Angeles is a series of hills, with a grid intersection smack in the middle of the metropolitan area. I parked in the corner of one grid and worked my daughter, KB6JVV, on all bands. I then moved to each of the other three grids, in turn, working her again from each one. Then I drove to a more remote location for the fifth grid. That was it. Simple operation, mag mounts for 50 to 1296 MHz, two dishes, Gunnplexers, and photomultipliers for receivers. I practiced with the equipment all day Friday, the day before the contest, to make sure I understood how it all worked, and to avoid destroying over a quarter-million dollars of "test" equipment.

For the first QSOs, we were practically next to each other. For the next three, I went with her to help set up the equipment, and then returned to my location to make the QSOs. For the QSOs from the final location, she set up by herself. She had never done that before, making it even more of a feat. I just wish there were some VUCC-type award she could receive for the effort she put in, something ol' dad could give. I enjoy the family nature of the way I have operated within the hobby. I have two more daughters to get licensed—just need to get some time with them, maybe this summer. They are 12 and almost 10 years old.



Ric, K3QQ, tells us, "The contest fell on the same day as my Hemodialysis session." This didn't stop Ric. He had a QSO rate of 2.4 per hour.

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In the ARRL Affiliated Club Competition, the three gavel winners finished comfortably ahead of their competition. The Mt Airy VHF Radio Club easily took the unlimited category, with 2.8 million points. The North East Weak Signal Group took the medium category, with 2.2 million points, and the Delaware Valley VHF Society won the local category, with 136k points.

As you read these results, it'll be time to start getting ready for Field Day and the June VHF QSO Party. Don't forget about the VHF/UHF activity in Field Day. See May *QST* for details. Special thanks to Administrative Assistant Sharon Taratula for her help in preparing the results.

The score boxes tell the whole story on what the top stations did in each category. Take a few minutes to look over the standings, especially the region boxes that detail the local competition.

One thing for sure that we want to mention is that there were two overall score records set in this year's competition: WA8WZG set a new single operator record at 467,712 points, and K3MQH set a new multioperator record at 653,034 points. Great going! There were also 18 division records set: Single opera-

tors—WC2K, N2BJ, WA8WXG, WA2TEO, and N0EC. QRP portables—W8TL/3, N9TZL, KC8BUN, KK6KE, NS6X, and XL2PIJ (VE2PIJ,op). Multioperator—K3MQH. Limited multioperators—WA6KLK, N4UK, and VE3TMG. Rovers—AB4CR, NC7K, and W3EKT. *The 1997 ARRL Contest Yearbook* has all the contest records in it. ARRL Publications are available from your local ARRL dealer or directly from the ARRL, Mail orders to Publication Sales Dept, ARRL, 225 Main St, Newington, CT 06111-

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/Yukon Sections)		
WA2TEO	364,000	S	K2UOP/8	81,270	S	WA8WZG	467,712	S	N0HJZ	92,456	S	WB5OMF	29,696	S
WC2K	276,937	S	K9OYD/4	54,800	S	KE8FD	167,800	S	WA0BWE	50,688	S	W3SE	18,330	S
WA3AXV	262,080	S	KC4QWZ	49,569	S	WA8NJR	161,980	S	N0EC	34,680	S	N6KBX	16,170	S
AA2UK	231,972	S	K4QI	48,120	S	N2BJ	149,641	S	KB0IKP	33,200	S	N6AJ	15,792	S
WZ1V	222,384	S	N4KWX	38,367	S	KU8Y	111,706	S	WQ0P	32,476	S	KC6ZWT	15,680	S
W8TL/3	49,818	Q	KE4QLH	36	Q	KC8BUN	15,879	Q	N0WCB	588	Q	NS6X	37,920	Q
W1VT	25,168	Q			N8XA	5,781	Q	KG0ZT (EN33)	322	Q	KK6KE	17,874	Q	
XL2PIJ (VE2PIJ,op)	2,160	Q			N9TZL	3,683	Q	KB0YAE	322	Q	N8KH	7,130	Q	
N2UM	1,332	Q			N9KXE	148	Q	N0VUQ (EN33)	110	Q	W6ZN	3,553	Q	
N1MUV	424	Q			KE4PZT	12	Q	N0VUR (EN33)	105	Q	KE6GFI	2,010	Q	
K3MQH	653,034	M			W8ULC	159,344	M	KB5IUA	26,925	M	KC6UCN	19,140	M	
W2UTH	495,288	M			VE3BFM	9,555	M	KB5UBE	15,280	M	WA6YDI	18,444	M	
N2ODK	299,296	M					AC6IO	1,554	M	K0BGL	8,028	M		
K1WHS	153,672	M							KB7UWC	5,418	M			
K2TVI	152,320	M							W6TRW	4,906	M			
N2XTX	180,495	L	N4UK	149,112	L	WA8BCA	34,207	L	WD5AGO	13,035	L	N6RMJ	60,512	L
NC1I	99,086	L	NG4C	18,630	L	WD9EXD	30,240	L	KF0M	9,296	L	WA6KLLK	14,147	L
W1QK	92,367	L	KF4KVH	6,580	L	N19E	27,594	L	KG0WA	9,288	L	W6TOI	12,800	L
NQ2T	88,827	L	KD4ZMR	5,822	L	K8EB	17,226	L	WA5VKS	7,689	L	K16FF	8,649	L
WB1FLD	56,602	L	WD4GSM	4,532	L	VE3TMG	12,688	L	KA5BOU	6,601	L	WA7IQH	2,660	L
NR1L	109,368	R	AB4CR	143,606	R	N9UIZ	13,414	R	WB5VYE (+WA5ZKO)	17,836	R	NC7K	82,820	R
KB3PW (+N2HKD)	68,187	R	KF4OHL	10,556	R	N9VZX	11,820	R	N5VBK	10,549	R	KB6JVV	9,870	R
W02P	37,760	R	W3EKT	8,778	R	N9SFN	11,100	R	KK5RH (+KD4JDT)	10,300	R	K6LMN	9,436	R
KA2CKI	34,408	R	N8ZCA (+KB8RXC)	6,633	R	N8KWX	8,748	R	NK5F	6,897	R	KM6RH	5,797	R
N2KXS	29,055	R	KF9US	4,368	R	K9JK	5,876	R	N0MWH	5,694	R	KE6BZY	5,404	R

## Affiliated Club Competition

Score			Entries			Score			Entries								
<b>Unlimited Category</b>						<b>Local Category</b>											
Mt Airy VHF Radio Club	2,893,897	57	Rocky Mountain VHF	65,721	5	Delaware Valley VHF Society	136,757	6	Northern Lights Radio Society	498,443	56	Six Meter Club of Chicago	62,693	33	North Shenandoah DX Assn	96,844	3
Rochester (MN) ARC	17,685	55	Schenectady ARA	59,321	16	Bergen ARA	91,540	5	Downey ARC	36,060	8	Hudson Valley Contesters and DXers	74,842	3	Overlook Mountain ARC	67,114	5
<b>Medium Category</b>																	
Northeast Weak Signal Group	2,212,377	46	Crawford ARS	34,966	16	Warminster ARC	57,070	22	Rochester VHF Group	1,576,455	46	North Texas Microwave Society	52,282	7	Wheaton Community Radio Amateurs	34,037	9
Potomac Valley Radio Club	280,106	7	Society of Midwest Contesters	21,589	3	Hilltop Transmitting Assn	25,763	3	Badger Contesters	260,764	42	Albany ARA	19,518	4	Drumlin ARC	12,660	8
Murgas ARC	176,495	5	Keystone VHF Club	21,568	3	Delaware Valley OMIK Electronics Comm Assn	8,773	3	Western States Weak Signal Soc	148,399	12	Palo Alto ARA	5,120	3	Huber Heights ARC	3,870	5
South Jersey Radio Assn	72,368	17	Troy ARA	19,332	7	Nittany ARC	239	3									
			Northern California Contest Club	16,736	4												
			Granite State ARA	13,297	4												
			Xerox ARC	12,235	10												
			Northern New York Contest Club	3,618	3												
			Mobile Sixers Radio Club	2,841	7												

## QSO Leaders by Band

Single Operator	222 MHz	902 MHz	2304 MHz	Multioperator	222 MHz	902 MHz	2304 MHz
<b>50 MHz</b>	WA3AXV 118	WA2TEO 49	WC2K 48	<b>50 MHz</b>	K3MQH 198	N2ODK 40	W2UTH 23
WA2WQZ 262	WC2K 109	WA3AXV 49	WA8WZG 32	K3MQH 462	W2UTH 127	W2UTH 38	WA2AAU 19
K9PVP 247	WA2TEO 108	N3EXA 45	WA3AXV 31	W8BCA -L 433	N2ODK 111	WA2AAU 30	N2ODK 17
N1MIA 244	WB3KRW 94	WA3NUF 44	WA3NUF 28	K2TVI 354	K2TVI 103	WA2OMY 26	WA2OMY 14
W3EP 224	WA3NUF 94	W2UR 43	AA2UK 27	K3EOD 292	K3EOD 86	W3IP 22	W0RSJ 11
KU8Y 221	WB3JYO 94	AA2UK 42	N3EXA 26	N2XTX -L 284	WB2PSI 83	K3EOD 21	K1WHS 10
WA2TEO 219	N3EXA 93	WB3JYO 41	WA2TEO 24	K1WHS 284	WA2OMY 78	WB2PSI 21	WB2PSI 7
K1TR 218	WA8WZG 91	WC2K 41	WB3JYO 23	W0RSJ 242	K1MUJ -L 69	N3ADC 20	W3IP 6
W0UC/9 205	WZ1V 85	WZ1V 40	W2SK 22	W1QK -L 227	W1QK -L 69	K3MQH 18	K2TVI 3
AA9AO 197	AA2UK 85	WB2YEH 40	WZ1V 22	W2UTH 223	N2VOT -L 68	K1WHS 16	VE3BFM 3
K1RZ 185	N2SB 80	WA8WZG 40	W2UR 22	N2ODK 216	W8ULC 65	N1BWT 15	<b>3456 MHz</b>
AJ1X 178	K1RZ 80	N2SB 38	WB2YEH 21	N4UK -L 183	NO2T -L 60	W8ULC 12	W2UTH 12
N1MHH 164	KD1DU 79	W2FU 37	N2SB 21	K3EOD 179	K3DMA 60	K2TVI 10	WA2AAU 9
N2BJ 163	N2BJ 78	W3KM 36	W3KM 19	W8ULC 154	WB1FLD -L 58	W0RSJ 7	W0RSJ 3
WZ1V 162	WB2YEH 76	W2SK 36	N1DPM 18	N2VOT -L 149	NO2T -L 142	WA3U 7	N2ODK 3
WC2K 161			N1MBA 18	WA2OMY 137			WA2OMY 1
<b>144 MHz</b>	<b>432 MHz</b>	<b>1296 MHz</b>	<b>3456 MHz</b>	<b>144 MHz</b>	<b>432 MHz</b>	<b>1296 MHz</b>	
KD1DU 435	K1FO 254	WA8WZG 65	WA3AXV 18	K3MQH 847	K3MQH 333	W2UTH 53	
WA2TEO 413	WA2TEO 157	WA3AXV 64	WA3AXV 16	W2UW 526	NC11 -L 222	N2ODK 45	
WB2QOQ 364	WA8WZG 149	AA2UK 63	WA3NUF 14	NO2T -L 465	W2UTH 176	W3IP 43	
K3UZY 330	K7JA 142	WA3NUF 50	WB3JYO 14	K3EOD 427	N2ODK 156	WA2AAU 37	
WC2K 322	WA3AXV 139	WB3JYO 54	N2SB 14	W2UTH 404	NO2T -L 147	WA2OMY 33	
K1RZ 314	WZ1V 127	WC2K 53	WA8WZG 13	K2TVI 404	K2TVI 138	K3MQH 32	
N2BJ 304	N3FUJ 127	N3EXA 53	KB3XG 12	W2UTH 404	K3CT -L 133	WD5AGO -L 28	
N3FUJ 287	N2BJ 126	WB3KRW 53	W2SK 12	N2XTX -L 403	W1QK -L 121	WB2PSI 26	
WA3NUF 261	KE6GFF 126	W2UR 52	W2UR 11	K2TVI 356	W3IP 116	N3ADC 25	
WA4GPM 259	K1RZ 121	WB2YEH 49	W1MBA 11	NC11 -L 342	K3EOD 107	K1WHS 24	
N3JDQ 257	WC2K 119	WA2TEO 48	WB2YEH 10	W1QK -L 326	W8ULC 104	K3DMA 24	
K9MRI 254	WA3NUF 118	WZ1V 45	N1DPM 9	W0RSJ 324	WB2PSI 100	KC6UCN 23	
WB3KRW 252	WB3JYO 116	W3KM 45	AA2UK 8	N2ODK 294	WB1FLD -L 91	K2TVI 22	
WB2CUT 251	WB3KRW 115	N1DPM 44	N3AOG 8	K3CT -L 277	N4UK -L 90	K3EOD 21	
AA2UK 251	W2FU 111	N2SB 41	WZ1V 6	W3IP 271	N2VOT -L 90	W0RSJ 20	
			W2FU 4	WA2OMY 260			
			N0HJZ 4	W8ULC 258			
			KB2HQ 4				

-L denotes Limited Multioperator

## Multiplier Leaders By Band

Single Operator	222 MHz	902 MHz	2304 MHz	222 MHz	902 MHz	2304 MHz
<b>50 MHz</b>	KE8FD 40	WA2TEO 20	WA8WZG 19	W2UR 2	W2UTH 48	N2XTX -L 33
K9PVP 59	WA8WZG 34	WA8WZG 19	WC2K 11	N3AOG 2	W2KV -L 47	N6RMJ -L 33
W3EP 54	K9MRI 32	WC2K 16	WA2TEO 10	KB2HQ 2	WB9EXD -L 47	N2ODK 32
WA2TEO 53	WA8NJR 31	WA3AXV 14	N1DPM 9	AA2UK 2	N2ODK 42	W3IP 25
W0UC/9 52	WA2TEO 29	K2UOP/8 14	W1MBA 9	WA3AXV 2	N19E -L 36	WB2PSI 25
K1TR 52	K4TO 26	WZ1V 14	WZ1V 8	WA3NUF 2	W3IP 35	K3CT -L 23
AF1T 52	AA2UK 25	AA2UK 14	WA3AXV 7	K1WHS 2	N6RMJ -L 34	K1WHS 21
W1AIM 52	K8TQK 25	W3OR 14	AA2UK 7	AA2WV 2	W0RSJ 32	KF0M -L 20
KU8Y 51	WA8WZG 25	WA2UR 14	WB1FKF 7	WB1FKF 2	NO2T -L 31	W0RSJ 19
N0LL 51	WC2K 24	W1MBA 14	W2FU 6	WB2YEH 2	NC11 -L 30	K1MUJ -L 19
AA9AO 48	K1RZ 24	KD1DU 14	WA3NUF 5		K3CT -L 30	KB7UWC 5
K0GU 46	WZ8T 24	N1DPM 14	K2AN 5	<b>Multioperator</b>		WA2OMY 5
WA8NJR 46	KU8Y 23	W2FU 13	WA1YHO 5	<b>222 MHz</b>	N2ODK 16	N1BWT 5
KM1X 45	N2BJ 23	W2UR 12	N1LZC 5	K3MQH 43	WA2AAU 14	<b>2304 MHz</b>
WZ1V 44	WZ1V 23	WA2FGK 12	N3NGE 4	W2UTH 37	WA2AAU 12	WA2AAU 11
WA2WQZ 44	WB2DNE 22	(K2LNS.op) 12	WA2WV 4	W8ULC 34	K3MQH 11	N2ODK 7
	W0UC/9 22	K1RZ 12	W2UR 4	N2ODK 32	W3IP 8	W2UTH 6
	K2YAZ 22		AF1T 4	N4UK -L 31	WB2PSI 7	K1WHS 6
<b>144 MHz</b>	WB3KRW 22	<b>1296 MHz</b>	N0HJZ 4	N2XTX -L 62	W8ULC 6	WB2PSI 5
KE8FD 55	W2FU 22	WA8WZG 30	WA2FGK 4	W2UTH 47	N6RMJ -L 24	W0RSJ 4
KA9QFL 51	<b>432 MHz</b>	K4QI 25	(K2LNS.op) 4	N2VOT -L 40	WD9EXD -L 22	K2TVI 3
KB9IEC 51	K1FO 58	WA8NJR 17	N3EXA 4	W8ULC 40	WB2PSI 20	N1BWT 6
K9MRI 51	K4QI 52	KE8FD 18	N2SB 4	N2ODK 39	K1WHS 18	WA2OMY 5
K8TQK 47	WA8WZG 45	WC2K 17	K1TR 4	W1QK -L 39	NO2T -L 17	VE3BFM 1
K3UZY 47	KE8FD 41	WA2TEO 17	N2ULL 4	N1BWT 38	K1MUJ -L 17	N3ADC 4
WA2TEO 46	WZ1V 41	WA2TEO 17	WB1FKF 4	WB1FLD -L 37	W3IP 17	VE3BFM 3
AA4ZZ 45	K9MRI 33	K2UOP/8 16		W0RSJ 36	WA2AAU 16	W0RSJ 2
WA8NJR 45	WA2TEO 32	WA3AXV 16	<b>3456 MHz</b>	K2TVI 35	W1QK -L 16	KB5UBE 2
WA4GPM 44	K0RZ 32	W3OR 16	WA8WZG 9	NG4C -L 34	<b>432 MHz</b>	KB5IUA 2
WA8WZG 44	N2BJ 32	WZ1V 14	W1MBA 7	K3EOD 34		K3EOD 2
VE3KDH 43	AA2UK 31	WB3KRW 14	N1DPM 5	<b>144 MHz</b>	N4UK -L 54	<b>1296 MHz</b>
K1RZ 43	KB9IEC 31	W2FU 14	N0HJZ 4	N2XTX -L 64	K3MQH 52	WD5AGO -L 23
K4QI 43	K2YAZ 31	W1MBA 14	W2FU 3	K3MQH 64	NC11 -L 46	N2ODK 15
WZ8T 42	KC4QWZ 31	WA2FGK 14	N2SB 2	N4UK -L 59	W8ULC 41	W2UTH 15
	W2FU 31	(K2LNS.op) 14	WZ1V 2	W8ULC 57	W2UTH 37	K3MQH 15
	WA8NJR 30	WA3NUF 14	NA1W 2			W2AAU 14
	W3OR 30		KB3XG 2			K2TVI 10
	K8TQK 30		W2SK 2			
	WA4GPM 30					

-L denotes Limited Multioperator

# Scores

Each line score lists call sign, score, stations worked, multipliers, band (A = 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, G = 3456 MHz, H = 5760 MHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = 75 GHz, M = 119 GHz, N = 142 GHz, O = 241 GHz, P = 300+ GHz), and number of grid squares activated (if rover). Division leaders are listed in **bold** print.

State	Call Sign	Score	Stations	Multipliers	Band	Grid Squares	
USA	1						
	Connecticut	WAZTEO	364,000	1019	208 S	ABCD9EFG	
		W21V	222,384	693	164 S	ABCD9EFG	
		KD1DU	170,291	839	137 S	ABCD9E	
		K1EM	38,788	376	52 S	ABCE	
		K1FO	29,484	254	58 S	D	
		W3EP	21,460	290	74 S	AB	
		W1COT	18,980	247	52 S	ABCE	
		N1NQD	11,568	193	48 S	ABCD	
		K1CPJ	10,980	174	45 S	ABCD9EF	
AJ1X		6,230	178	35 S	A		
W1JQL	6,105	116	37 S	ABCD			
K1VXX	5,809	118	37 S	ABCE			
N1RXM	3,080	118	22 S	ABD			
N8WXC	2,472	103	24 S	AB			
W1AGTP	2,442	73	39 S	ABC			
W1NWE	2,358	102	18 S	BD			
WB1GCM	1,824	76	24 S	AB			
N1SAG	1,615	69	19 S	ABD			
WB8MY1	646	31	19 S	ABD			
W1TS	583	53	11 S	B			
W1AW (NJ1Q,op)	473	43	11 S	AB			
N1OPO	364	42	7 S	BD			
N1BAH	306	51	6 S	AB			
K1LXD	88	52	4 S	A			
W1WT	25,168	282	4 Q	ABCD9EFGHI			
N1VQV	224	45	4 Q	BD			
N1WES	208	22	8 Q	ABD			
W1QK (+AA1MY, KD1SN, N1S ABY, GS, W1QJ, WW1O)	92,367	743	99 L	ABCD			
N1WPB (+N1TDW)	6,396	206	26 L	ABCD			
W1ORS (K1TMM, K2RPM, N1S KPR, OLX, P1P, N2BQA, W1ZQT, WA1EHK, ops)	2,418	80	26 L	ABCD			
Eastern Massachusetts	WB1FKF	24,752	191	56 S	ABCD9EFGHI		
	KX1C	20,679	237	61 S	ABCD9E		
	WG1Z	11,340	190	45 S	ABCE		
	WA1LKB	9,650	145	50 S	ABCE		
	WA1ECF	9,457	150	49 S	ABCE		
	K1GVM	6,650	134	38 S	ABCE		
	WA1MTI	5,434	116	38 S	ABCE		
	N1OPR	3,348	96	31 S	ABD		
	WC1B	3,150	101	30 S	ABD		
	WA1OFR	2,862	82	27 S	ABDEI		
K1R1V	1,704	71	24 S	AB			
N1VQR	1,380	85	15 S	ABD			
N1EKV	1,380	65	20 S	ABD			
K1VZI	450	45	10 S	AB			
WA1QWT	198	22	9 S	A			
W1DYJ	96	16	6 S	A			
N1BWT (+KB1VC)	60,230	407	95 M	ABCD9EI			
KA1EKR (+N1IA)	20,592	241	66 L	ABCD			
N1JOY (+N1ITM)	7,800	176	40 L	ABD			
K1EP (+K1J7T1, W1SZ)	2,205	88	21 L	ABDE			
N1FDX (+N1EMD)	1,125	75	15 L	AB			
Maine	N1HOV	5,945	122	41 S	ABD		
	K1GAO	3,182	86	37 S	A		
	N1DGF	2,366	74	26 S	BCD		
	WA1JOF	714	33	21 S	ABD		
	W1Q1T	180	15	12 S	AB		
	K1WHS (+K1ART, WA1NIE)	153,672	681	152 M	ABCD9EF		
	New Hampshire	K1TR	128,440	662	130 S	ABCD9EFGHI	
		AF1T	82,320	434	120 S	ABCD9EFGI	
		WA1YHO	40,053	258	79 S	ABCD9EF	
		AC1J	12,696	221	46 S	ABCD	
KU2A		11,232	150	48 S	ABCD9E		
N1JHJ		5,282	125	38 S	ABD		
W1QA		1,475	54	25 S	ABCD		
K1JY		494	31	13 S	BCD		
W1QWJ		477	53	9 S	A		
N1TZY		400	35	10 S	ABD		
K1PDY	328	27	8 S	BCD			
N1YHW	236	57	4 S	ABD			
KC1HH	189	27	7 S	AB			
WA1YKM	162	18	9 S	AB			
KB1QV	84	14	6 S	B			
WB1FLD (+K1DR, KA1FYB, KE1CS, N1NUM)	56,602	473	91 L	ABCD			
Rhode Island	KM1X	23,256	312	72 S	ABD		
	W1LYT	6,435	158	39 S	ABCD		
	K1DS	522	51	9 S	ABC		
	AA1IW	490	35	14 S	A		
	K1MUJ (K1ZE, KA1ZN, ops)	38,847	367	69 L	BCDE		
	K1IKN (+K1MFA, N1S IIN, VDW, WA1ZPJ)	9,102	215	37 L	ABDE		
	Vermont	W1AIM	35,298	257	111 S	ABCD9E	
		K1LPS	8,322	122	57 S	ABCD	
		N1UQT	8,151	122	57 S	ABDE	
		N1DIO	1,288	46	28 S	AB	
KA1CXD		884	52	17 S	B		
N1XKH		544	54	8 S	BD		
Western Massachusetts		N1DPM	153,440	509	140 S	ABCD9EFG	
		W1MBA	79,904	361	88 S	BD9EFGHI	
		N1LZC	43,560	410	72 S	ABCD9EF	
		N1MUW	37,960	399	73 S	ABCE	
	N1MIA	14,628	273	53 S	ABD		
	K1SWW	12,825	211	45 S	ABCD		
	N1MHH	11,891	238	47 S	ABD		
	N1FUS	6,608	201	28 S	ABD		
	WA1UOL	3,870	111	30 S	ABCD		
	KD1XP	3,723	172	17 S	ABCD		
NA1W	3,550	62	25 S	BCD9EFG			
WA1ZUH	3,024	88	28 S	ABD			
WA1NVV	2,235	149	15 S	B			
KA1SN	1,980	71	22 S	ABCE			
W1RIL	1,649	47	17 S	ABCD9EI			
N1MMQ	1,020	60	17 S	AB			
N1QKR	592	122	4 S	BD			
N1RWC	273	35	7 S	ABCD			
N1VMJ	64	32	2 S	B			
N1JZO	63	21	3 S	AB			
NB1AFZ	18	6	3 S	A			
KM1UW	424	106	4 Q	AB			
KR1R	4	2	2 Q	AB			
NC11 (+AC1Y, NC1B, WF1R)	99,086	700	103 L	ABCD			
2	Eastern New York	W2XL	46,956	406	91 S	ABCD9	
		WB2DUS	30,212	250	91 S	ABCE	
		N2MCI	24,566	280	71 S	ABCD	
		KB2HQ	24,072	249	51 S	ABCD9EFGHIJ	
		W3HNN	22,968	259	66 S	ABCE	
		KZ2Z	17,700	217	60 S	ABCD	
		W3M2J	12,204	269	34 S	ABCE	
		WAZWQZ	11,528	262	44 S	ABD	
		N2YQW	9,676	193	41 S	ABD	
		KB2JZO	9,432	243	36 S	BCD	
W2JHO	6,237	231	21 S	ABCD			
WB2MXX	5,100	133	34 S	ABD			
W2CCP	3,248	112	29 S	B			
W2GKR	3,192	114	28 S	AB			
N2NCO	3,180	119	20 S	ABCD			
N2XW	3,066	124	21 S	ABD			
KG2H	2,940	98	30 S	AB			
W1XX	2,862	106	27 S	AB			
WA1KMM	2,835	74	31 S	ABD			
WAZBAH	2,210	142	13 S	ABCE			
N2TY	2,028	118	12 S	BDE			
K2RI	1,668	93	12 S	BCD			
N2UID	1,529	99	11 S	ABD			
WB2YOR	1,524	100	12 S	ABD			
WY2H	1,512	63	18 S	ABCD			
WAZIWW	1,000	108	8 S	BD			
N2YU	960	71	10 S	BCD			
A2WQU	924	84	11 S	B			
KA2MCU	900	76	10 S	ABCE			
KG2GX	837	66	9 S	BCD			
KB2VQR	738	66	9 S	ABD			
N2YXX	676	48	13 S	ABD			
N2TMT	620	62	10 S	A			
N2TMT	585	61	9 S	BD			
W2RJS	576	36	16 S	B			
AB2AF	484	40	11 S	BP			
N2ZOE	460	115	4 S	B			
N2TJQ	415	83	5 S	B			
KB2WZT	310	38	5 S	BD			
AA2CW	300	46	6 S	ABCD			
KB2PTD	288	48	6 S	B			
WB2BEJ	255	37	5 S	BCD			
N2JJE	215	43	5 S	AB			
WB2FWK	132	33	4 S	B			
KB2WPA	132	31	4 S	BD			
KB2VDR	124	31	4 S	B			
K2UF	18	9	2 S	B			
KB2VXF	350	7	5 Q	B			
K2TVI (K2ZVI, N2S DHH, VQ, FMC, GDY, HTT, GKM, NWZ, NSEMF, WAZLV, WB2NHC, ops)	152,320	982	112 M	ABCD9EFIP			
WAZAAU (+KC1ZN, N2YCA)	132,225	482	129 M	ABCD9EFGH			
N2VOT (+KB2ZST, N2S WCY, YJ, N3EYQ)	53,418	456	87 L	ABCD			
N2SQW (+N2EUT)	11,316	198	46 L	ABCD			
NYC-Long Island	N2LIV	42,822	378	78 S	ABCD9E		
	NB2T	10,360	255	28 S	BCD		
	WAZ2FH	10,080	207	36 S	ABCE		
	N2QHS	2,928	97	24 S	ABD		
	N2DY	2,548	78	26 S	ABD		
	N2HTU	1,302	76	14 S	BD		
	WB2AMU	663	39	17 S	AB		
	N2HCU	623	89	7 S	B		
	W2CC	328	41	8 S	B		
	KB2VKQ (KB2WB, WB2SHZ, ops)	5,054	223	19 L	BD		
Northern New Jersey	NB2VVV	80,010	505	105 S	ABCD9E		
	WB2WH	43,014	467	67 S	ABCD		
	N2NF	12,480	265	40 S	ABCD		
	WB2COQ	11,648	364	32 S	S		
	N2UAH	10,220	238	32 S	ABD		
	K2KIB	10,032	194	44 S	ABD		
	KB2IT	6,324	200	31 S	BD		
	WB2CUT	6,024	251	24 S	B		
	KC2CY	5,206	123	38 S	ABCD		
	NX2Q	3,294	183	18 S	B		
N2NHN	2,880	96	30 S	A			
WAZ2BK (FN21)	2,544	99	24 S	ABD			
N2LMU	2,244	152	12 S	BD			
NW2L	1,118	78	13 S	ABCD			
KB2TFC	1,100	100	11 S	B			
K2JTF	960	64	15 S	B			
NQ3IE	880	88	10 S	B			
KC2HL	608	62	8 S	BD			
WAZ2SQ	374	34	11 S	A			
AA2CN	360	36	10 S	A			
WB2MBM	344	43	8 S	B			
KA2NJP	224	56	4 S	B			
W2JEK	172	43	4 S	A			
N2ZBH	156	39	4 S	B			
KB2VFT	104	26	4 S	A			
KB2TAT	84	21	4 S	B			
KB2SJK	45	15	3 S	B			
Northern New York	NB2YJG, N2S DSY, PBY, WA2s INW, OHL, WU2C)	88,827	814	87 L	ABCD		
	WA2AEY	14,283	207	69 S	AB		
	WB2KLD	5,382	105	46 S	ABD		
	KB2ZUP	2,422	167	14 S	BD		
	WB2BAU	8	4				

W3ICC	1,485	155	9	S	BD
W3CSP	1,440	60	24	S	A
W3GFP	928	80	8	S	BCD
N3MAV	864	100	8	S	ABC
KCZZA	820	74	10	S	BCD
N3BPJ	812	99	7	S	BD
N3VRC	777	36	21	S	ABD
W3AWA	777	100	7	S	ABCD
N3LJC	655	115	5	S	BD
W3JMM	570	79	5	S	ABC
N3RAH	540	93	5	S	BD
W3JG	504	78	6	S	ABD
N3LRJ	500	125	4	S	B
W3JUS	426	71	6	S	B
N3HFV	403	31	13	S	ABD
N3NID	330	48	6	S	ABCD
W3IAR	308	74	4	S	BD
N3IPM	292	48	4	S	BD
W3HMM	288	33	8	S	AC
W3ALR	276	69	4	S	ABC
KA3YCG	276	92	3	S	B
N3HSV	240	49	4	S	BD
KC3LE	216	27	8	S	B
W3UQC	210	35	6	S	B
W3DZH	200	19	10	S	ABD
KA3MGB	188	47	2	S	B
KD3DI	184	46	4	S	B
K3BPP	160	28	4	S	BC
N3SOQ	148	35	4	S	BD
N3TLJ	140	20	7	S	AB
N3MXT	130	65	2	S	B
N3AHP	126	18	6	S	ABCD
N3LJE	112	56	2	S	B
N3VPG	110	55	2	S	B
W3HK	80	11	5	S	ABCD
KA3QBB	66	33	2	S	B
N3RAG	52	26	2	S	B
W3ACQT	42	11	3	S	ABC
W3GS	33	33	1	S	B
W3BNE	28	6	4	S	BD
N3RAL	24	8	3	S	B
W3TDZ	10	5	2	S	B
N3RIA	3	3	1	S	B
N3YNX	3	3	1	S	B
W3ABH	232	58	4	Q	B
K3QG	48	10	4	Q	ABD
N81J	4	2	2	Q	AB
<b>K3MQH</b> (K3s IXD, JFL, ML, RA, N3s EYB, KTV, W2EOS, W3GHR, WF3T, ops)	653,034	1890	254	M	ABCD9E
W0RSJ (+KD2IX, WB2ONA)	115,884	736	111	M	ABCD9EFG
W3AOMY (+W3AYUE)	108,290	632	98	M	ABCD9EFGHP
K3EOD (N3DG, WA3IAC, WR3P, WF3W, ops)	89,320	841	77	M	ABCD9E
N3ADC (+N3S NFB, RSE)	32,076	347	54	M	ABCD9E
K3DMA (+N1ET)	12,475	305	25	M	ABDCE
W3RT (+N3HTZ)	11,704	222	38	M	ABDCE
W3HZU (N3s NBT, RBT, WB3CQN)	4,800	125	32	M	ABDCE
K3CT (+KB3s BPQ, BPR, N3RXJ)	36,946	457	58	L	BCD
N3ORF (+N3JFA)	4,984	148	28	L	ABD
W3AD (N3s PTT, TLU, TPL, TUC, UED, ops)	3,780	140	27	L	ABD
W3ZGD (KA3LJL, N3s UOO, VQH, VOI, ops)	1,425	90	15	L	BD

<b>Maryland-DC</b>					
K1RZ	188,649	777	153	S	ABCD9E
WB2DNE	101,475	522	123	S	ABCD9E
KH2CY	21,952	246	64	ABD	
K3ZQ	8,621	233	37	S	AB
N3HBX	7,380	157	41	S	ABD
W3MR	3,480	110	30	S	ABD
KA3TCN	3,312	116	24	S	ABD
W3GN	1,320	55	24	S	AB
WB2BZR	1,260	53	14	S	ABDCE
N3BWJ	819	62	13	S	ABD
N3UMA	704	64	11	S	B
N3XFO	520	39	13	S	ABD
NR4M	456	60	6	S	BD
N3WKE	384	64	6	S	B
W3LMC	175	25	7	S	B
N3WGC	148	36	4	S	BD
N3XFM	112	28	4	S	ABD
K3UAL	112	28	4	S	ABD
W8TLJ3	49,818	267	114	Q	ABCD9E
W3IP (+K3HH, N3s CBJ, FNE, WB6VG, WG3R)	118,708	602	118	M	ABCD9E
N3XLW (+W3COH)	3,171	137	21	L	ABD
KB8VLI (+KB9PIV)	1,710	85	18	L	ABD

<b>Western Pennsylvania</b>					
NO3I	34,476	248	102	S	ABDE
AA3GM	11,907	140	63	S	ABDCE
KA3SDP	11,446	148	59	S	ABD
N3PUR	5,698	154	37	S	A
W3BBO	4,680	102	39	S	ABD
N3YBE	4,219	94	39	S	ABCD
K3TLP	2,016	63	32	S	AB
W3OOM	544	34	16	S	A
W3KJM	378	27	14	S	A
W3HDH	180	15	12	S	A
W3ZA	153	17	9	S	AB
KA3JVJ	121	11	11	S	A
KA3AVB	108	18	6	S	AB
NB4J	66	11	6	S	B
N3WAV	40	8	5	S	AB
WB8EY	35	7	5	S	A
N3KJB	24	6	4	S	A
K3MJW (KA3s JWJ, WSW, N3WAV, ops)	2,128	70	28	L	ABD

<b>4</b>					
<b>Alabama</b>					
KE4HJU	5,160	101	43	S	ABCD
KD4FMN	738	36	18	S	ABD
<b>KF4KVH</b> (AB4JP, KD4MQA, N4GKE, WA4III, ops)	6,580	127	47	L	ABCD
<b>Georgia</b>					
KD4HLG	12,636	191	54	S	ABCD

WA4KXY	10,808	185	56	S	ABD
WA4OYH	2,700	75	27	S	ABCD
K4KAZ	2,139	69	23	S	ABDCE
WD4MBK	1,700	45	20	S	BCDE
KF4DZY	784	55	14	S	ABD
KF4KLUO	33	11	3	S	B
<b>KE4QLH</b>	36	12	3	Q	B
W4PYM (AE4GO, K4SZ, KC4GCK, KE4NYK, KF4KAN, KT4XE, W4FLY, ops)	816	41	16	L	ABCD

<b>Kentucky</b>					
K4TO	40,119	230	129	S	ABCD
WA4FVQ	12,648	125	62	S	ABDCE
KE4JFS	6,936	130	51	S	ABD
KE4PZT	12	4	3	Q	A
<b>North Carolina</b>					
K4QI	48,120	229	120	S	BDE
AA4ZZ	11,904	183	62	S	ABC
W4VHH	8,060	82	52	S	BDEFGI
N4PHH	1,170	46	26	S	AB
AA4NC	220	20	11	S	AB
NG4C (+N4ZWO)	18,630	194	81	L	ABCD
KE4HYM (+KE4GCF)	828	39	18	L	ABCD

<b>Northern Florida</b>					
KA4VXT	7,695	118	45	S	ABDE
K4RZB	7,515	115	45	S	ABDCE
KT4AL	5,822	99	41	S	ABDCE
KE4YYD	3,003	78	33	S	ABD
KQ4PI	2,436	53	29	S	ABDCE
KE4LVQ (+KB9KOH, KF4KWN)	627	33	19	L	AB

<b>South Carolina</b>					
AC4Q	1,058	36	23	S	ABCD
KE4YCI	51	16	3	S	BD
<b>NAUK</b> (+W3ZZ, W4XP, WD8ISK)	149,112	513	228	L	ABCD
KD4ZMR (+KA4ABW, KD4s TCA, TCB, KE4JNY)	5,822	125	41	L	ABD
<b>Southern Florida</b>					
K4NB	2,783	104	23	S	ABD
K2OY	2,552	108	22	S	ABD
N5PIP	2,499	115	17	S	BD
KA1ZFO	1,309	56	17	S	BD
K9HUY	1,178	59	19	S	ABD
KD4JMV	902	74	11	S	BD
KD4NUA	68	34	2	S	B
KD4ZXX	16	16	1	S	B
KM4XN	14	7	2	S	B

<b>Tennessee</b>					
KC4QQZ	49,569	288	123	S	ABDCE
WB4JG	22,160	211	80	S	ABCD
NS4W	21,093	178	89	S	ABCD
WB4ZUG	7,150	114	55	S	ABD
KD4HIK	6,342	128	42	S	ABD
KE4JLE	5,198	113	46	S	AB
AD4F	2,528	72	32	S	ABD
N4LGY	1,100	45	22	S	ABD
KD4NQO	1,080	41	18	S	BCD

<b>Virginia</b>					
K9OYD/4	54,800	334	100	S	ABCD9E
N4KWX	38,367	302	87	S	ABDCE
KD4JFP	25,988	262	73	S	ABCD
AD4DG	11,773	143	61	S	ABDCE
K4FTO	10,164	188	42	S	ABCD
N4BG	1,768	63	26	S	ABD
AD4TJ	1,178	62	19	S	AB
KF4NSH	1,161	41	27	S	ABD
W4LTU	1,026	57	18	S	A
N4MM	814	14	6	S	A
K4ME	560	40	14	S	B
WB3AKD	549	61	9	S	B
AD4NJ	390	25	13	S	ABCD
W4K	60	15	4	S	A
W4GSM (KC4ATS, KE4SCJ, KF4NSH, N4FPR, ops)	4,532	75	44	L	ABCD

<b>5</b>					
<b>Arkansas</b>					
KA0NNO (+N0EOOQ)	4,131	75	51	L	ABCD
<b>Louisiana</b>					
N5MYH	1,943	59	29	S	ABD
W5FYZ	646	38	17	S	B
NS5VB (+N5XUT)	496	27	16	L	ABD

<b>New Mexico</b>					
K5RHR	8,712	140	44	S	ABCD
N5XZM (DM65)	2,288	65	26	S	ABDCE
N9KUW	2,162	76	23	S	ABD
W5DO	1,298	49	22	S	ABD
KB5SK	780	42	13	S	ABCD
W5FF	325	25	13	S	ABD
WA5DJJ	234	21	9	S	ABCD

<b>North Texas</b>					
KY5N	4,922	128	39	S	AB
KK6IT	4,256	152	28	S	B
KD4HUR	3,729	93	33	S	ABD
KK5DY	2,996	107	28	S	B
KC5VDQ	1,540	30	22	S	ABCD9E
KB5OAI	1,026	49	19	S	ABD
KB5UBE (+WA5VJB)	15,280	205	40	M	ABCD9EHIJ
WA5VKS (+KC5LBE)	7,689	184	33	L	ABCD
KA5BOU (+N5RDB)	6,601	110	41	L	ABDE
KC5ONJ (+KA5VAN, KC5s MGL, QKZ)	2,619	87	27	L	ABD

<b>Oklahoma</b>					
W0RRY	12,998	157	67	S	ABDE
NS1TM	3,861	77	39	S	ABD
KB5YAJ	1,534	58	26	S	ABD
KC5UZY	777	37	21	S	AB
KC5UGY	221	17	13	S	AB
KA0BEI	105	15	7	S	B
<b>W5AGO</b> (+KC5RBH)	13,035	111	55	L	BDEP

<b>South Texas</b>					
N5WS	26,296	229	76	S	ABCD9E
W3XO5	7,392	126	44	S	ABCD9E
W5UWB	4,329	99	37	S	ABD
W5EHM	2,522	97	26	S	AB
KK5OA	1,092	52	21	S	AB
KC5CXU	217	31	7	S	B
KK5DK	4	2	2	S	B
<b>KB5UA</b> (+W55DX)	26,925	261	75	M	ABCD9E

<b>6</b>					
<b>East Bay</b>					
WBSOMF	29,696	284	64	S	ABDCE
W7FK	1,080	61	15	S	BCD
WB6ETY	336	38	7	S	B
<b>Los Angeles</b>					
W3SE	18,330	330	39	S	ABCD
AC6TA	7,784	215	28	S	ABD
W6IST	3,990	139	21	S	ABCD
KE6MAS	3,672	140	18	S	ABDCE
KD6CML	3,360	116	20	S	ABCD
KE6FCF	3,278	119	22	S	ABCD
KE6AJX	2,730	121	14	S	BCD
KE6MAX	1,416	88	12	S	ABD
WA9ST1	1,212	79	12	S	ABD
KE6FVN	1,148	54	14	S	ABCD
W6GGV	918	35	17	S	ABCD
N6WZT	492	82	6	S	B
N6OPR	329	47	7	S	B
KF6EOJ	110	18	5	S	BD
K6FF	84</				

K8AB	2,346	101	23	S	BD
N81BW	2,106	64	27	S	ABD
N8P7L	1,452	52	22	S	ABD
KB8WZZ	1,232	67	16	S	ABD
W81LC	1,200	58	20	S	ABD
KT8U	1,071	51	21	S	AB
KG8TL	897	58	13	S	ABD
N8PZD	715	55	13	S	ABD
KB1SF/8	480	26	16	S	BD
N8QXC	468	34	13	S	ABD
N8VEA	372	29	12	S	BD
KB8RYX	132	32	3	S	BD
WB8SMH	105	25	3	S	BC
N8TQT	96	32	3	S	AB
KB8WCV	81	24	3	S	BD
KC8AGH	78	26	3	S	ABD
KC8BDD	74	26	2	S	BD
N8LIS	66	27	2	S	BD
KB8TDC	57	13	3	S	BCD
N8QWJ	50	18	2	S	BD
N8QQA	48	17	2	S	BD
KA8RIQ	34	12	2	S	BD
KF8EF	24	2	2	S	BD
W81DM	10	10	1	S	B
<b>KC8BUN</b>	15,879	183	67	Q	ABCD
N8XA	5,781	97	41	Q	ABCD9E
<b>W81ULC</b> (+W8LR,W8Z)	159,344	160	184	M	ABCD9E
<b>WABBCA</b> (K8s DIO,III,WW,ops)	34,207	433	79	L	A
KB8UHY (+KB8SRQ,N8SPW)	4,773	113	37	L	ABD
K8KRG (KB8s AOX,VKf,N8PZD,ops)	819	63	13	L	AB

**West Virginia**

<b>K2UOP/8</b>	81,270	349	129	S	ABCD9E
N8XUP	14,780	176	60	S	ABCD9E
W8ZP	11,892	136	36	S	ABCD
W83HQ	1,539	57	27	S	AB
N31WJ	735	35	21	S	AB
WB8BEL	540	27	20	S	A
WA8WV	459	27	17	S	B
K8JF (K8LG,WA8YCG,W8BAFJ,W8FX,ops)	585	39	15	L	B

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**Illinois**

<b>N2BJ</b>	149,641	700	151	S	ABCD9E
K9ZZE	14,664	250	52	S	ABD
K9PW	14,573	247	59	S	A
N9WRO	12,105	191	45	S	ABCD9E
W91X	11,662	228	49	S	ABD

**W91FH (EN61)**

W9UGV	10,824	262	33	S	ABCD
W9CCQ	8,268	262	26	S	ABCD
WB9SNR	8,064	87	48	S	ABCD9EF
N9CXO	7,289	160	37	S	ABD
W91SG	5,124	146	28	S	BD
WB9VTF	3,796	146	26	S	B
WB9JFM	3,591	133	27	S	AB

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**Colorado**

<b>N9EC</b>	34,680	243	85	S	ABCD9E
K9GU	17,325	208	75	S	ABD
K9RZ	14,168	109	56	S	BCD9E
N91VN	11,357	180	41	S	ABCD9E
W9ETK	1,748	58	23	S	ABDE
KB0TKR	1,449	58	23	S	ABD
KB0SZG	684	51	12	S	ABD

**AC610 (+K0UK,KE6LHL,ops)**

**W0TM (+W0KEA)**

W0TM (+W0KEA)	912	38	19	L	ABCD
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**Iowa**

K9DK	18,690	154	89	S	ABDCE
W9YPT	1,917	50	27	S	BCD
N9SPF	888	37	24	S	AB
KB0OCM/N	84	12	7	S	AB
KD0BT	70	8	7	S	ABD

**Kansas**

<b>W9QP</b>	32,476	208	92	S	ABCD9EHI
N9LL	29,298	214	114	S	ABDCE
N9OFF	9,204	104	52	S	ABDE
W9RT	4,905	91	45	S	ABD
N9LIE	2,697	87	3	S	B
W9QNF	455	50	7	S	BD
KB0QMF	420	30	14	S	B
<b>KA0KAN</b>	72	12	6	Q	ABD

**KF0M (+N0ZHA)**

KG0WA (+KB0s MNZ,YHU,YWM,N5CLU)	9,296	122	56	L	BCD
	9,288	113	54	L	ABDE

**Minnesota**

<b>N9HZ</b>	92,456	450	127	S	ABCD9EFGI
WA0BWE	50,688	360	88	S	ABCD9EFGH
KB0IKP	33,200	298	83	S	ABDCE
W9ZQ	22,597	222	59	S	ABCD9E
KA0RYT	16,335	203	55	S	ABDE
K9GJK	13,622	190	49	S	ABDCE
WA2HF1/0	9,593	165	37	S	ABCD9E
WB0LC	9,440	211	32	S	ABDCE
W9AUS	8,033	181	29	S	ABDCE
KB0PYO	7,800	135	52	S	ABCE
<b>W0PHU (EN34)</b>					

**K9JO**

K9JO	7,344	148	39	S	BD
KB0VUK	7,344	145	34	S	ABCD9E
N999	6,300	198	30	S	ABD
KB0ZD	6,270	200	22	S	ABD
KA0ZYD	6,105	123	3	S	BD
KG0BG	5,700	150	30	S	ABD
N9TMM	4,525	165	25	S	ABD
KB0IXC	3,800	143	25	S	ABD
W9EPZ	3,740	139	22	S	ABD
AJ0K	3,211	125	19	S	ABCD
N9UK	3,094	116	17	S	ABDE
WA2VCI	2,958	113	17	S	ABDCE
W9LCP	2,546	114	19	S	ABD
N90YQ	2,440	94	22	S	ABCD
KA0POW	2,415	91	23	S	ABCD
KA0NAN	2,272	101	16	S	ABCD
W91VI	2,176	111	16	S	ABD
W9GD	2,080	73	16	S	B9E
WS0H	1,845	71	15	S	ABCD9E
KB0TZA	1,670	133	10	S	ABD
KB0PUW	1,666	119	14	S	B
N9CKK	1,364	41	22	S	ABDCE
KG0ZQ	1,358	92	14	S	ABD
KB0QBT	1,332	97	12	S	ABD
N9OZW	1,330	99	10	S	ABCD

KD6RXT	616	50	11	S	ABD
WP9MJ	324	81	4	S	B
K9RU	12,096	165	63	L	ABD
<b>W9SDSN (+W9DSDP)</b>	3,379	109	31	L	AB

**Wisconsin**

W0UC/9	96,726	486	147	S	ABCD9EFGI
AA9AO	81,357	437	141	S	ABDCE
WF9X	33,370	250	94	S	ABDCE
KB0Z	25,660	368	60	S	ABD
KA9HKL	15,048	179	72	S	ABD
WA9LWJ	14,700	153	75	S	ABCD
N9YKE	13,365	170	55	S	ABDCE
N9MLU	11,656	163	62	S	ABCD
WA9PWP	9,000	180	50	S	ABD
WD9BGA	7,738	114	53	S	ABD
N9JR	7,285	122	47	S	ABCD
N9QZD	6,532	84	46	S	ABDE
W9PHJ	5,628	121	42	S	ABD
N9ULR	5,460	94	39	S	ABDCE
N9OAK	5,207	103	41	S	ABCD
KF9YR	4,428	108	41	S	AB
N91SN	4,181	107	37	S	ABD
WA9LZM	3,234	88	33	S	ABD
N9WHR	3,190	110	29	S	AB
WA9O	2,924	57	34	S	ABD9E
N9TD	2,574	63	33	S	BD
N9NH	2,464	119	14	S	BD
KA9UCP	2,280	75	24	S	ABCD
WA9HCZ	2,204	62	29	S	ABD
WB9VYP	2,002	67	26	S	BD
WA1JUJ/9	1,936	88	22	S	B
N9UBS	1,711	58	29	S	ABD
K9OSH	1,656	62	24	S	ABD
WA9KVS	1,593	57	27	S	ABD
N9C1Q	1,485	43	27	S	ABD
N91ZP	1,485	45	27	S	ABD
KD9PW	1,428	51	28	S	AB
N9DDH	1,350	54	25	S	AB
W91M	1,340	53	20	S	ABCD
WB9YZU	1,220	61	20	S	AB
N9ROX	1,150	41	25	S	ABD
KB9JIF	1,120	56	20	S	AB
KF9VU	840	45	15	S	ABD
N9O0	825	55	15	S	B
N9XRO	770	47	14	S	ABD
W9KHH	495	33	15	S	B
N9PBA	492	40	12	S	ABD
W9NVK	451	41	11	S	B
N9NDP	350	27	10	S	ABD
N9NDP	256	30	8	S	BC
N9UDX	198	19	9	S	BD
K9VGE	88	11	8	S	B
N9E (+WB9UAI)	27,594	323	73	L	ABCD
N9WBR (+N9WVD)	5,625	125	45	L	AB
WA9SZH (+N9XIX)	504	28	18	L	AB

KB0WUK	1,224	142	8	S	BD	
KB0NMN	1,164	79	12	S	BCD	
W0PHD	1,104	32	23	S	ABDE	
N90HD	1,100	82	10	S	BD	
WB0SOK	1,070	89	10	S	BD	
N9VUQ	1,036	74	14	S	B	
N8SUO	1,010	76	10	S	ABD	
W0LER	936	56	12	S	BD	
N8NAS	910	75	10	S	ABD	
W0HUH	839	50	13	S	BD	
N8ON	752	62	11	S	BD	
W091M	748	53	11	S	BD	
KE4KE	744	58	12	S	BCD	
N9VUR	696	58	12	S	B	
N9MTR	672	71	7	S	ABD	
WB0TDN	657	61	9	S	BCD	
WA0RSE	657	44	9	S	BDI	
N9UHV	640	47	10	S	ABD	
AA05M	539	67	7	S	BD	
KB0TEH (EN34)						
N9PDD	440	37	10	S	ABD	
WA0RLY	385	30	11	S	ABCD	
K0EN	384	51	6	S	BD	
KG0ZT	378	48	7	S	BD	
W0KRX	357	13	7	S	BCDEFGH	
WD0HHH	294	49	6	S	B	
KB0OFF	245	49	5	S	B	
N9M9Y	225	36	5	S	BD	
KB0RZZ	222	37	6	S	B	
WB0CCM	189	8	7	S	ABCDDEFI	
KB0CV	182	17	7	S	BCD	
KB0UCP	170	34	5	S	B	
N9ADQ (EN33)	148	37	4	S	B	
WB0FWI	144	24	6	S	AB	
KB0OIS	140	35	4	S	B	
KB0YAE (EN33)	84	20	4	S	BD	
K0KTY	76	19	4	S	B	
KB0TJE	46	23	2	S	B	
N9ADQ	40	20	2	S	B	
WB0LSG	38	19	2	S	B	
N9PQC	36	18	2	S	B	
N9CET	33	11	3	S	B	
K0P5H	33	11	3	S	B	
KG0KJ	16	8	2	S	B	
W0PLD	12	12	1	S	B	
KB0RZV	12	12	1	S	B	
N9HZO	12	4	3	S	B	
KB0HRK	9	3	3	S	B	
KB0UJW	8	2	2	S	BD	
KB0WDI	6	3	2	S	B	
KE4KE (EN33)	4	2	2	S	B	
KB0OND	4	2	1	S	D	
KC4AVR (EN33)	4	2	2	S	B	
KC4AVR	3	3	1	S	B	
N9ZSY	1	1	1	S	B	
KB0WDM	1	1	1	S	B	
N9HZH	1	1	1	S	B	
<b>N9WC</b>	588	60	7	S	BCD	
KB0YAE	322	37	7	S	Q	BD
KG0ZT (EN33)	322	37	7	S	Q	BD
N9VUQ (EN33)	110	22	5	S	Q	B
N9VUR (EN33)	105	21	5	S	Q	B
N9PUJ	42	21	2	S	Q	B
KB0RZT (EN34)	16	4	2	S	Q	B
K0P5H (						