

By Billy Lunt, KR1R
Contest Manager

1997 ARRL January VHF Sweepstakes Results

Despite 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.

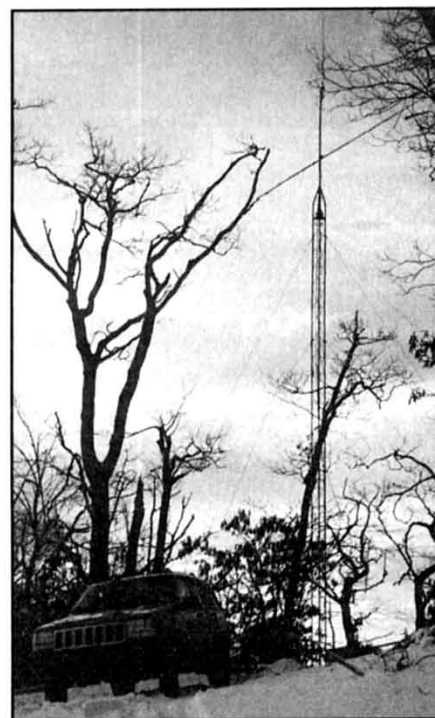
the rovers! Their presence and efforts don't go unrecognized.

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°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°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	K3MOH 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	W1OK 92,367	KB3PW 68,187
AA2UK 231,972	KC8BUN 15,879	K1WHS 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.

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, WA8WZG, 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-



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.

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		K9QYD/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		WA6KLK	14,147	L	
W1QK	92,367	L		KF4KVH	6,580	L		N19E	27,594	L		KG0WA	9,288	L		W6TOI	12,800	L	
N02T	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	
WO2P	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		K6MRH	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		Score	Entries
Unlimited Category			Local Category					
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
Medium Category			Quaboag Valley ARC	40,718	7	Hudson Valley Contesters and DXers	74,842	3
Northeast Weak Signal Group	2,212,377	46	Downey ARC	36,060	8	Overlook Mountain ARC	67,114	5
Rochester VHF Group	1,576,455	46	Crawford ARS	34,966	16	Warminster ARC	57,070	22
Potomac Valley Radio Club	280,106	7	Society of Midwest Contesters	21,589	3	North Texas Microwave Society	52,282	7
Badger Contesters	260,764	42	Keystone VHF Club	21,568	3	Wheaton Community Radio Amateurs	34,037	9
Murgas ARC	176,495	5	Troy ARA	19,332	7	Hilltop Transmitting Assn	25,763	3
Western States Weak Signal Soc	148,399	12	Northern California Contest Club	16,736	4	Albany ARA	19,518	4
South Jersey Radio Assn	72,368	17	Granite State ARA	13,297	4	Drumlin ARC	12,660	8
			Xerox ARC	12,235	10	Delaware Valley OMIK Electronics Comm Assn	8,773	3
			Northern New York Contest Club	3,618	3	Palo Alto ARA	5,120	3
			Mobile Sixers Radio Club	2,841	7	Huber Heights ARC	3,870	5
						Nittany ARC	239	3

QSO Leaders by Band

Single Operator	222 MHz	902 MHz	2304 MHz	Multioperator	222 MHz	902 MHz	2304 MHz
50 MHz							
WA2WQZ	262	WA3AXV	118	WA2TEO	49	WC2K	48
K9PW	247	WC2K	109	WA8WZG	32	WA3AXV	49
N1MIA	244	WA2TEO	108	WA3AXV	31	N3EXA	45
W3EP	224	WB3KRW	94	WA3NUF	44	WA3NUF	44
KU8Y	221	WA3NUF	94	W2UR	43	AA2UK	42
WA2TEO	219	WB3JYO	94	AA2UK	42	N3EXA	41
K1TR	218	N3EXA	93	WB3JYO	41	WA2TEO	24
W0UC/9	205	WA8WZG	91	WC2K	41	WB3JYO	23
AA9AO	197	WZ1V	85	WZ1V	40	W2SK	22
K1RZ	185	AA2UK	85	WB2YEH	40	WZ1V	22
AJ1X	178	N2SB	80	WA8WZG	40	W2UR	22
N1MHH	164	K1RZ	80	N2SB	38	WB2YEH	21
N2BJ	163	KD1DU	79	W2FU	37	N2SB	21
WZ1V	162	N2BJ	78	W3KM	36	N2SB	19
WC2K	161	WB2YEH	76	W2SK	36	N1DPM	18
				W1MBA	18		
144 MHz							
KD1DU	435	K1FO	254	WA8WZG	65	3456 MHz	
WA2TEO	413	WA2TEO	157	WA3AXV	64	WA3AXV	18
WB2OQO	364	WA8WZG	149	AA2UK	63	WA3NUF	16
K3UZY	330	K7JA	142	WA3NUF	60	WB3JYO	14
WC2K	322	WA3AXV	139	N2SB	54	N2SB	14
K1RZ	314	WZ1V	127	WC2K	53	WA8WZG	13
N2BJ	304	K3FUJ	127	N3EXA	53	KB3XG	12
N3FUJ	287	N2BJ	126	WB3KRW	53	W2SK	12
WA3NUF	261	KEGGFF	126	W2UR	52	W2UR	11
WA4GPM	259	K1RZ	121	WB2YEH	49	W1MBA	11
N3JDO	257	WC2K	119	WA2TEO	48	WB2YEH	10
K9MRI	254	WA3NUF	118	WZ1V	45	N1DPM	9
WB3KRW	252	WB3JYO	116	W3KM	45	AA2UK	8
WB2CUT	251	WB3KRW	115	N1DPM	44	N3AOG	8
AA2UK	251	W2FU	111	N2SB	41	WZ1V	6
				W2FU	4	W2FU	4
				N0HJZ	4	N0HJZ	4
				KB2HQ	4	KB2HQ	4
432 MHz							
K1FO	254	WA8WZG	65	3456 MHz			
WA2TEO	157	WA3AXV	64	WA3AXV	18		
WA8WZG	149	AA2UK	63	WA3NUF	16		
K7JA	142	WA3NUF	60	WB3JYO	14		
WA3AXV	139	N2SB	54	N2SB	14		
WZ1V	127	WC2K	53	WA8WZG	13		
K3FUJ	127	N3EXA	53	KB3XG	12		
N2BJ	126	WB3KRW	53	W2SK	12		
KEGGFF	126	W2UR	52	W2UR	11		
K1RZ	121	WB2YEH	49	W1MBA	11		
WC2K	119	WA2TEO	48	WB2YEH	10		
WA3NUF	118	WZ1V	45	N1DPM	9		
WA4GPM	116	W3KM	45	AA2UK	8		
N3JDO	115	N1DPM	44	N3AOG	8		
K9MRI	115	N2SB	41	WZ1V	6		
WB3KRW	111			W2FU	4		
WB2CUT				N0HJZ	4		
AA2UK				KB2HQ	4		
1296 MHz							
K1FO	254	WA8WZG	65	3456 MHz			
WA2TEO	157	WA3AXV	64	WA3AXV	18		
WA8WZG	149	AA2UK	63	WA3NUF	16		
K7JA	142	WA3NUF	60	WB3JYO	14		
WA3AXV	139	N2SB	54	N2SB	14		
WZ1V	127	WC2K	53	WA8WZG	13		
K3FUJ	127	N3EXA	53	KB3XG	12		
N2BJ	126	WB3KRW	53	W2SK	12		
KEGGFF	126	W2UR	52	W2UR	11		
K1RZ	121	WB2YEH	49	W1MBA	11		
WC2K	119	WA2TEO	48	WB2YEH	10		
WA3NUF	118	WZ1V	45	N1DPM	9		
WA4GPM	116	W3KM	45	AA2UK	8		
N3JDO	115	N1DPM	44	N3AOG	8		
K9MRI	115	N2SB	41	WZ1V	6		
WB3KRW	111			W2FU	4		
WB2CUT				N0HJZ	4		
AA2UK				KB2HQ	4		
3456 MHz							
K1FO	254	WA8WZG	65	3456 MHz			
WA2TEO	157	WA3AXV	64	WA3AXV	18		
WA8WZG	149	AA2UK	63	WA3NUF	16		
K7JA	142	WA3NUF	60	WB3JYO	14		
WA3AXV	139	N2SB	54	N2SB	14		
WZ1V	127	WC2K	53	WA8WZG	13		
K3FUJ	127	N3EXA	53	KB3XG	12		
N2BJ	126	WB3KRW	53	W2SK	12		
KEGGFF	126	W2UR	52	W2UR	11		
K1RZ	121	WB2YEH	49	W1MBA	11		
WC2K	119	WA2TEO	48	WB2YEH	10		
WA3NUF	118	WZ1V	45	N1DPM	9		
WA4GPM	116	W3KM	45	AA2UK	8		
N3JDO	115	N1DPM	44	N3AOG	8		
K9MRI	115	N2SB	41	WZ1V	6		
WB3KRW	111			W2FU	4		
WB2CUT				N0HJZ	4		
AA2UK				KB2HQ	4		

-L denotes Limited Multioperator

Multiplier Leaders By Band

Single Operator	222 MHz	902 MHz	2304 MHz	W2UR	2	W2UTH	48	N2XTX -L	33	W3IP	9					
50 MHz	KE8FD	40	WA2TEO	20	WA8WZG	19	N3AOG	2	W2KV -L	47	N6RMJ -L	33	KG0WA -L	9		
	WA8WZG	34	WA8WZG	19	WC2K	11	B2HQ	2	WD9EXD -L	47	N2ODK	32	KB5IUA	7		
	K9PW	59	K9MRI	32	WC2K	16	WA2TEO	10	AA2UK	2	N2ODK	42	W3IP	25	K1WHS	7
	W3EP	54	WA8NJR	31	WA3AXV	14	N1DPM	9	WA3AXV	2	N19E -L	36	WB2PSI	25	W8ULC	6
	WA2TEO	53	WA2TEO	29	K2UOP/8	14	W1MBA	9	WA3NUF	2	W3IP	35	K3CT -L	23	K1MUJ -L	6
	W0UC/9	52	K4TO	26	WZ1V	14	WZ1V	8	WB3JYO	2	N6RMJ -L	34	K1WHS	21	WB2PSI	6
	K1TR	52	AA2UK	25	AA2UK	14	WA3AXV	7	AA2WV	2	W0RSJ	32	KF0M -L	20	KA5BOU -L	6
	AF1T	52	K8TQK	25	W3OR	14	AA2UK	7	WB1FKF	2	N02T -L	31	W0RSJ	19	KC6UCN	5
	W1AIM	52	WC2K	24	W1MBA	14	W2FU	6	WB2YEH	2	NC1I -L	30	K1MUJ -L	19	KB7UWC	5
	KU8Y	51	K1RZ	24	KD1DU	14	WA3NUF	5			K3CT -L	30			WA2OMY	5
	N0LL	51	WZ8T	24	N1DPM	14	K2AN	5							N1BWT	5
	AA9AO	48	KU8Y	23	W2FU	13	WA1YHO	5								
	K0GU	46	N2BJ	23	W2UR	12	N1LZC	5								
	WA8NJR	46	WZ1V	23	WA2FGK	12	N3NGE	4								
	KM1X	45	WB2DNE	22	(K2LNS,op)	12	AA2WV	4								
WZ1V	44	W0UC/9	22	K1RZ	12	W2UR	4									
WA2WQZ	44	K2YAZ	22			AF1T	4									
		WB3KRW	22			N0HJZ	4									
		W2FU	22			WA2FGK	4									
1296 MHz																
144 MHz		WA8WZG	30	WA8WZG	19	N3EXA	4									
KE8FD	55	K4QI	25	(K2LNS,op)	4	N2SB	4									
KA9QFL	51	AA2UK	19	N3EXA	4	K1TR	4									
KB9IEC	51	K1FO	58	WA8NJR	18	N2ULL	4									
K9MRI	51	K4QI	52	KE8FD	17	K1TR	4									
K8TQK	47	WA8WZG	45	WC2K	17	N2ULL	4									
K3UZY	47	KE8FD	41	WA2TEO	17	WB1FKF	4									
WA2TEO	46	K9MRI	33	K2UOP/8	16											
AA4ZZ	45	WA2TEO	32	WA3AXV	16	3456 MHz										
WA8NJR	45	K0RZ	32	W3OR	16	WA8WZG	9									
WA4GPM	44	N2BJ	32	WZ1V	14	W1MBA	7									
WA8WZG	44	AA2UK	31	WB3KRW	14	N1DPM	5									
VE3KDH	43	KB9IEC	31	W2FU	14	N0HJZ	4									
K1RZ	43	K2YAZ	31	W1MBA	14	W2FU	3									
K4QI	43	KC4QWZ	31	WA2FGK	14	N2SB	2									
WZ8T	42	W2FU	31	(K2LNS,op)	14	WZ1V	2									
		WA8NJR	30	WA3NUF	14	NA1W	2									
		W3OR	30			KB3XG	2									
		K8TQK	30			W2SK	2									
		WA4GPM	30													
432 MHz																
		WA8WZG	34	WA8WZG	19	WA8WZG	19									
		WA8WZG	34	WA8WZG	19	WC2K	11									
		WA2TEO	29	WA2TEO	10	KB2HQ	2									
		K4TO	26	WA3AXV	14	AA2UK	2									
		AA2UK	25	WA3NUF	9	WA3AXV	2									
		WZ1V	14	WZ1V	8	WB3JYO	2									
		AA2UK	14	WA3AXV	7	AA2WV	2									
		WA2TEO	14	AA2UK	7	WB1FKF	2									
		W3OR	14	W2FU	6	WB2YEH	2									
		KD1DU	14	WA3NUF	5											
		N1DPM	14	K2AN	5											
		W2FU	13	WA1YHO	5											
		W2UR	12	N1LZC	5											
		WA2FGK	12	N3NGE	5											
		AA2WV	4	AA2WV	4											
		W2UR	4	W2UR	4											
		AF1T	4	AF1T	4											
		N0HJZ	4	N0HJZ	4											
		WA2FGK	4	WA2FGK	4											
		N3EXA	4	N3EXA	4											
		N2SB	4	N2SB	4											
		K1TR	4	K1TR	4											
		N2ULL	4	N2ULL	4											
		WB1FKF	4	WB1FKF	4											
3456 MHz																
		WA8WZG	34	WA8WZG	19	WA8WZG	19									
		WA8WZG	34	WA8WZG	19	WC2K	11									
		WA2TEO	29	WA2TEO	10	KB2HQ	2									
		K4TO	26	WA3AXV	14	AA2UK	2									
		AA2UK	25	WA3NUF	9	WA3AXV	2									
		WZ1V	14	WZ1V	8	WB3JYO	2									
		AA2UK	14	WA3AXV	7	AA2WV	2									
		WA2TEO	14	AA2UK	7	WB1FKF	2									
		W3OR	14	W2FU	6	WB2YEH	2									
		KD1DU	14	WA3NUF	5											
		N1DPM	14	K2AN	5											
		W2FU	13	WA1YHO	5											
		W2UR	12	N1LZC	5											
		WA2FGK	12	N3NGE	5											
		AA2WV	4	AA2WV	4											
		W2UR	4	W2UR	4											
		AF1T	4	AF1T	4											
		N0HJZ	4	N0HJZ	4											
		WA2FGK	4	WA2FGK	4											
		N3EXA	4	N3EXA	4											
		N2SB	4	N2SB	4											
		K1TR	4	K1TR	4											
		N2ULL	4	N2ULL	4											
		WB1FKF	4	WB1FKF	4											
432 MHz																
		WA8WZG	34	WA8WZG	19	WA8WZG	19									
		WA8WZG	34	WA8WZG	19	WC2K	11									
		WA2TEO	29	WA2TEO	10	KB2HQ	2									
		K4TO	26	WA3AXV	14	AA2UK	2									
		AA2UK	25	WA3NUF	9	WA3AXV	2									
		WZ1V	14	WZ1V	8	WB3JYO	2									
		AA2UK	14	WA3AXV	7	AA2WV	2									
		WA2TEO	14	AA2UK	7	WB1FKF	2									
		W3OR	14	W2FU	6	WB2YEH	2									
		KD1DU	14	WA3NUF	5											
		N1DPM	14	K2AN	5											
		W2FU	13	WA1YHO	5											
		W2UR	12	N1LZC	5											
		WA2FGK	12	N3NGE	5											
		AA2WV	4	AA2WV	4											
		W2UR	4	W2UR	4											
		AF1T	4	AF1T	4											
		N0HJZ	4	N0HJZ	4											
		WA2FGK	4	WA2FGK	4											
		N3EXA	4	N3EXA	4											
		N2SB	4	N2SB	4											
		K1TR	4	K1TR	4											
		N2ULL	4	N2ULL	4											
		WB1FKF	4	WB1FKF	4											
432 MHz																
		WA8WZG	34	WA8WZG	19	WA8WZG	19									
		WA8WZG	34	WA8WZG	19	WC2K	11									
		WA2TEO	29	WA2TEO	10	KB2HQ	2									
		K4TO	26	WA3AXV	14	AA2UK	2									
		AA2UK	25	WA3NUF	9	WA3AXV	2									
		WZ1V	14	WZ1V	8	WB3JYO	2									
		AA2UK	14	WA3AXV	7	AA2WV	2									
		WA2TEO	14	AA2UK	7	WB1FKF	2									
		W3OR	14	W2FU	6	WB2YEH	2									
		KD1DU	14	WA3NUF	5											
		N1DPM	14	K2AN	5											
		W2FU	13	WA1YHO	5											
		W2UR	12	N1LZC	5											
		WA2FGK	12	N3NGE	5											
		AA2WV	4	AA2WV	4											
		W2UR	4	W2UR	4											
		AF1T	4	AF1T	4											
		N0HJZ	4	N0HJZ	4											
		WA2FGK	4	WA2FGK	4											
		N3EXA	4	N3EXA	4											
		N2SB	4	N2SB	4											
		K1TR	4	K1TR	4											
		N2ULL	4	N2ULL	4											
		WB1FKF	4	WB1FKF	4											
432 MHz																
		WA8WZG	34	WA8WZG	19	WA8WZG	19									
		WA8WZG	34	WA8WZG	19											

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**.

USA

1

Connecticut

WA2TEO 364,000 1019 208 S ABCD9EFG
W21V 222,384 693 164 S ABCD9EFG
KD1DU 170,291 839 137 S ABCD9E
K1EM 38,786 376 82 S ABCDE
K1FO 29,464 254 58 S D
W3EP 21,460 290 74 S AB
W1COT 18,980 247 52 S ABCDE
N1NQD 11,568 193 48 S ABCD
K1CPJ 10,980 174 45 S ABCD9EF
AJ1X 6,230 178 35 S A
W1QJL 6,105 116 37 S ABCD
K1WVX 5,809 118 37 S ABCDE
N1RXM 3,080 118 22 S ABD
N8WXQ 2,472 103 24 S AB
WA1GTP 2,442 72 33 S ABC
W1NWE 2,358 102 18 S BD
WB1GCM 1,824 76 24 S AB
N1SAG 1,615 69 19 S ABD
WB1MY/I 646 31 19 S ABD
W1TS 583 53 11 S B
W1AW (NJ10p,op)

N1OPO 473 43 11 S AB
K1BHA 306 51 6 S AB
K1LXD 88 22 4 S A
W1VT 25,168 230 52 Q ABCD9EFGHI
N1GVQ 224 45 4 Q BD
N1WES 206 22 8 Q ABD
W1OK (+AA1MY,KD1XS,N1s ABY,GS,W1QJ,
WW1O) 92,367 743 99 L ABCD
N1WPB (+N1TDW)
6,396 206 26 L ABCD
W1ORS (K1TWM,K2RPM,N1s KPR,OLX,
PLP,N2BQA,W1ZQT,W1AEIK,ops)
2,418 80 26 L ABCD

Eastern Massachusetts

WB1FKF 24,752 191 56 S ABCD9EFGHI
KX1C 20,679 237 61 S ABCD9EFG
WG1Z 11,340 190 45 S ABCDE
WA1LBK 9,650 145 50 S ABCDE
WA1ECF 9,457 150 49 S ABCDE
K1GVM 6,650 134 38 S ABCDE
WA1MTI 5,434 116 38 S ABCDE
N1QPR 3,348 96 31 S ABD
WC1B 3,150 101 30 S ABD
WA1OFR 2,862 82 27 S ABD
K1RVR 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 AB
W1DYJ 96 16 6 S A
N1BWT (+KB1VC)
60,230 407 95 M ABCD9EI
KA1EKR (+N1A)
20,592 141 66 L ABCD
N1JOY (+N1TZM)
7,890 276 40 L ABD
K1EP (+KL7JT,I,W1SZ)
2,205 88 21 L ABDE
N1FDX (+N1EDM)
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
W1QOT 180 15 12 S AB
K1WHS (+K1ART,W1NIE)
153,672 681 152 M ABCD9EF

New Hampshire

K1TR 128,440 662 130 S ABCD9EFGHI
AF1T 82,320 434 120 S ABCD9EFG
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
N1TZB 1,400 35 10 S ABD
K1PDY 328 27 8 S BCD
N1YHW 236 57 4 S ABD
K1CHH 189 27 7 S B
WA1YKM 162 18 9 S AB
KB1QV 84 14 6 S B
WB1FLD (+K1RDR,K1FYB,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,K1ZN,ops)
38,847 367 69 L BCDE
K1IKN (+K1MFA,N1s IIN,VOW,W1ZPI)
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
N1KXH 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 ABCDE
N1MIA 14,828 273 53 S ABD
K1ISW 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
WA1NYV 2,235 149 15 S B
KA1SUN 1,980 71 22 S ABCDE
W1RIL 1,649 47 17 S ABCD9EI
W1NMQ 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
KB1AFZ 18 6 3 S A
N1MUV 424 106 4 Q AB
KR1R 4 2 Q AB
NC1I (+AC1Y,NC1B,W1FR)
99,086 700 103 L ABCD

2

Eastern New York

W2XL 46,956 406 91 S ABCD9
WB2DUS 30,212 250 91 S ABCDE
N2MCI 24,566 280 71 S ABCD
KB2HQ 24,072 249 51 S ABCD9EFGHI
W3HHN 22,968 259 66 S ABCDE
K2ZZ 17,700 217 60 S ABCD
WM2Y 12,204 260 36 S ABCDE
WA2WQZ 11,528 262 44 S A
N2YQW 9,676 193 41 S ABD
KB2UBZ 9,432 243 36 S BCD
W2JHO 6,237 231 21 S ABCD
WB2MRX 5,100 133 34 S ABD
W2CCP 3,248 112 29 S B
W2GKR 3,192 114 28 S AB
N2NCQ 3,180 119 20 S ABCD
N2YXW 3,066 124 21 S ABD
KG2H 2,940 98 30 S AB
W1XX 2,862 106 27 S AB
WA1KKM 2,635 74 31 S ABD
WA2BAH 2,210 142 13 S ABCDE
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
WA2IWW 1,000 108 8 S BD
N2YVU 960 71 10 S BCD
AA2WQ 924 84 11 S B
KA2MCU 900 76 10 S ABCDE
KG2GX 837 66 9 S BCD
KB2VQR 738 66 9 S ABD
N2YXX 676 48 13 S ABD
N2TMT 620 62 10 S A
N2TTM 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 BCD
KB2TFD 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 70 5 Q B
K2TVI (K2ZVI,N2s DHH,DVQ,FMC,GDY,HTT,
GKM,NWZ,N3EMF,W2LWV,WB2NC,ops)
152,320 982 112 M ABCD9EFIP
WA2AAU (+K1C1ZN,N2YCA)
132,225 482 129 M ABCD9EFGH
N2VOT (+AB2ZST,N2s WCY,YJZ,N3EYO)
53,418 456 87 L ABCD
N2SQW (+N2EUT)
11,316 198 46 L ABCD

NYC-Long Island

N2LIV 42,822 378 78 S ABCD9
NB2T 10,360 255 28 S BCD
WA2ZFH 10,080 207 36 S ABCDE
N2QHS 2,928 97 24 S ABD
N2DY 2,548 78 26 S ABCD
N2HTU 1,302 76 14 S BD
WB2AMU 663 39 17 S AB
N2HCU 623 89 7 S B
WV2C 328 41 8 S B
KB2VKG (KB2ULH,WB2SHZ,ops)
5,054 223 19 L BD

Northern New Jersey

WB2VVV 80,010 505 105 S ABCD9E
WB2WIH 43,014 467 67 S ABCD
N2NF 12,480 285 40 S ABCD
WB2QOO 11,648 364 32 S B
N2UAH 10,220 238 35 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
WA2BKN (FN21)
2,544 99 24 S ABD
N2LMU 2,244 152 12 S BD
NW2L 1,118 78 13 S BCD
KB2TCF 1,100 100 11 S B
K2JT 960 64 15 S A
N3OIE 880 68 10 S B
KC2HL 608 62 8 S BD
WA2ASQ 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
KB2SJG 45 15 3 S B

NO2T (+KB2YGJ,N2S DSY,PBY,WA2s INW,
QHL,WU2C)
88,827 814 87 L ABCD

Northern New York

WA2AEY 14,283 207 69 S AB
WB2KLD 5,382 105 46 S ABD
KB2ZUP 2,422 167 14 S BD
WB2BAU 8 4 2 S B
N2ZLY 2 2 1 S B
WN2R (+NET)
3,608 88 41 L AB

Southern New Jersey

WC2K 276,937 853 163 S ABCD9EF
AA2JK 231,972 652 156 S ABCD9EFGHI
WB3UYO 149,940 674 105 S ABCD9EFG
W2UR 140,448 545 112 S ABCD9EFGH
N2SB 122,300 558 100 S ABCD9EFGH
WB2YEH 72,261 493 63 S ABCD9EFG
N2SJC 23,426 448 34 S ABCDE
W2PAU 12,564 300 36 S ABD
KD2KS 9,909 297 27 S ABCD
N2OML 6,660 143 30 S ABDE
WB2VLA 3,060 114 18 S ABCD9
N2XYZ 2,907 146 19 S BD
K2UT 1,512 153 7 S BD
K2ZA 1,309 77 17 S AB
N2DEO 1,220 112 10 S BC
N2JVQ 858 63 13 S ABD
W2ORA 728 66 8 S ABCD
W2FGY 640 80 8 S B
KA2YKN 623 81 7 S BC
N2QWR 540 45 12 S AB
N2EMR 456 57 8 S AB
WA2YSW 390 61 5 S BD
N2RJA 385 52 7 S ABD
KA2KFO 287 41 7 S B
WA2OZQ 216 49 4 S BCD
KM2C 156 50 3 S BD
K2VT 124 62 2 S B
WA2DUE 120 21 4 S BC
N2HQL 108 22 4 S BC
WB2YZS 80 15 4 S BD
N2VIZ 78 26 3 S B
N2VPN 76 38 2 S B
K2VFS 70 35 2 S B
WA2ABF 62 31 2 S B
W2YRW 46 23 2 S B
KB2BLO 34 16 2 S BD
N2LHG 14 14 1 S B
N2XQI 10 5 2 S B
K2CR 5 5 1 S B
W2KV (+N2s DK,NU)
24,722 526 47 L B
K2AA (K2WB,K2GSL,KF2YX,ops)
21,960 426 40 L ABCD
W2MMD (KA2s EZN,FFS,KB2VXC,N2YIO,ops)
10,760 261 40 L ABD

Western New York

W2FU 188,800 599 160 S ABCD9EFGHI
WB2ELB 46,596 268 66 S ABC9EFLP
AA2VW 43,882 282 74 S ABCD9EFGH
K2AN 43,758 363 66 S ABCD9EF
N2JUL 35,700 298 68 S ABCD9EF
KBZES 35,055 321 95 S ABD
N2DKP 30,744 305 72 S ABCD9E
AA2GF 21,942 217 69 S ABCDE
WA2BPE 20,475 208 75 S ABCD
AA2VG 16,448 171 64 S BCDE
W2FE 14,053 226 47 S ABCD9E
AF2K 11,492 280 34 S ABCD
KA2DQA 10,688 259 32 S ABCD
WA2ZNC 10,062 203 29 S ABCD
KA2EIE 9,189 269 27 S ABD
N2HJD 8,760 245 24 S ABCDEF
WY2Z 8,288 172 28 S ABCDEIJP
N2MXG 7,888 170 29 S ABCD9E
K2OEQ 6,390 161 30 S ABD9
K2MPE 5,207 107 41 S ABD
WB2VUO 5,016 174 22 S ABCDE
WA2LSK 4,788 133 36 S A
KE2T 4,761 153 23 S BCD
W2UAD 4,428 164 27 S ABD
KB2NFS 4,125 188 15 S BCD
KB2HVL 3,689 154 17 S ABCD
WA2SCB 3,030 82 30 S BD
KF2XC 2,682 107 18 S ABCDE
W2WGL 2,640 72 30 S BD
K2JD (AF2K,op)
2,603 103 19 S ABCD
KB2WEU 2,600 191 10 S BD
N2JJI 2,563 168 11 S BCD
K2JIO 2,050 82 25 S B
KB2YUW 2,032 103 18 S ABD
K2AZJ 1,970 145 10 S BCD
WB2TPN 1,840 59 20 S ABCDE
WV2J 1,820 146 10 S BD
WB2JFL 1,800 90 20 S AB
KB2ZJ 1,344 55 21 S ABD
N2USB 1,170 107 10 S ABD
W04SGU 952 100 8 S BD
W9XK 867 51 17 S B
W2RW 840 79 8 S BD
N2IXD 808 94 8 S BD
N8SE 780 19 12 S ABCD
KE2MK 570 95 6 S B
N2VBK 560 40 14 S AB
WY2Z (FN03)
390 9 6 S BNP
NO2O 380 10 10 S ABCD9EF
N2SNL 380 78 4 S BD
KB2YVS 364 26 14 S AB
WE2Y 352 16 11 S D
N2ZTX 345 23 15 S AB
KB2YTW (WB2VUO,op)
306 20 9 S BCDE
KB2YVC 260 19 13 S ABD
NA2X 230 46 5 S B
KB2YMQ 176 22 8 S A
AA2LQ 156 36 4 S BD

AB2F 152 38 4 S B
KB2YMO 150 50 3 S B
K2ANC 132 33 4 S B
WR2T 106 44 2 S BD
KB2VGH(FN02)102 6 6 S BIJ
KB2VGH(FN03) 80 5 2 S IJ
KB2VGH(FN12) 76 5 4 S BIJ
KC2AJV 45 15 3 S B
KC2AJS 42 21 2 S B
KB2UW 36 12 3 S B
N2HLT 32 2 2 S IP
W3OAB 32 2 2 S IP
KB2KJV 8 3 2 S BC
KF2TV 5 5 1 S B
N2UM 1,332 111 9 Q BD
W2MI 156 24 6 Q BCD
KA2WNS 112 26 4 Q BCD
W2UTH (K2s DH,OS,KA2RDO,KD2KQ,N2WK,
NJ2L,W2PJ,WA2MOP,ops)
495,288 1108 216 M
ABCD9EFGHIJ

N2ODK (+KD2YB,N2s HLT,JQR,W3OAB)
299,296 888 188 M ABCD9EFGIP
WB2PSI (K2WN,KB2ZFE,KE2CP,N2WHT,
W2RA,W0VU,WA2s IKC,KA2E,WA2s,
BYP,QCJ,ops)
102,032 531 112 M ABCD9EFI
N2EVS (+KB2UW, KF2TV)
22,608 352 48 M ABCD
N2XTX (+AK3R,KC2UA,N2s ODU,YCW,NYZZ,
W2DRZ,WA3AWX)
288,495 825 189 L ABCD
W2UB (+N2HXK,N2ZN)
5,265 117 39 L ABD
KB2SGX (+KB2UVO)
4,270 114 35 L ABD
WA2AAZ (KB2s YMO,YMO,KC2s AJL,AJS,AJU,
KG2JJ,ops)
4,002 169 23 L ABD
KB2VGH (+KB2WEV)
3,417 193 13 L ABD
KB2UDB (+K2CAJ)
2,886 180 13 L ABD
W2OW (AA2s EQ,MU,KB2YVS,KC2AIW,N3s
VKM,YKF,W2FA,ops)
1,475 59 25 L AB
KB2UJG (K2DN,KB2s FAF,LUV,KC2ACY,
N2s MRE,ZPT,ops)
1,140 46 20 L ABCD

3

Delaware

W3OR 139,503 559 147 S ABCD9EFG
KB3PD 3,059 82 23 S BCD
N3XTK 1,540 77 20 S B
KA3KHZ 407 37 11 S B
WA3BZT 296 37 8 S B
WA3U (+KB3PD)
38,056 393 67 M ABCD9E

Eastern Pennsylvania

WA3AXV 262,080 814 140 S ABCD9EFGHI
WA3NUF 177,862 707 113 S ABCD9EFGHI
WB3KRW 127,765 641 115 S ABCD9E
N3EXA 119,527 669 89 S ABCD9EF
WA2FGK (K2LNS,op)
101,346 438 127 S ABCD9EF
W3KM 88,116 497 84 S ABCD9EFG
W2SK 74,316 493 66 S ABCD9EFGHI
WA4GPM 58,344 393 104 S ABCDE
K3GNC 53,130 407 69 S ABCD9EF
N3FUJ 53,046 641 63 S ABCD
N3NGE 51,821 335 77 S ABCD9EF
N3ITT 47,275 465 61 S ABCD9E
WB3FAA 40,803 322 87 S ABCD9E
NK8Q 34,800 429 60 S ABCDE
N3RN 32,040 305 89 S ABCD9EF
AK3Q 30,280 346 40 S ABCD9EF
N3AOG 28,656 366 36 S ABCD9EFG
W3AGD 26,884 422 47 S ABCD
K3UVS 25,145 356 47 S ABCDE
KB3ZT 24,581 345 47 S ABCDE
N3JDQ 21,888 338 57 S ABD
KB3IB 21,320 265 41 S ABCD9E
K3MFI 21,216 421 34 S ABCD9E
WA3EHD 20,424 359 37 S ABCDE
WA3AQA 19,383 323 39 S ABCDE
W3KKN 19,282 323 31 S ABCD9EF
W3GXB 17,458 249 43 S ABCD9E
WB2ZAR 15,600 232 40 S ABC9EF
K3UZY 15,510 330 47 S B
K3EBZ 12,342 268 33 S ABCD
N3DOZ 12,104 229 34 S ABCDE
KB3XG 11,880 147 22 S ABCD9EFGHI
KB3HE 10,320 184 40 S ABCD
KT2B 10,302 303 34 S AB
W3JIT 10,208 246 32 S BCD
K3VXG 9,126 34 39 S B
N3EMY 8,106 274 21 S BCD
K3VB 7,810 273 22 S ABCD
N3GSA 6,360 205 24 S ABCD
KA3GN 6,264 116 29 S ABD9
WA3RLT 6,129 156 27 S ABDE
N3JNX 5,616 105 48 S ABC
WA3IAC 5,525 186 17 S ABCD9
KE3YQ 4,521 108 33 S ABCD
KA2WRE 4,466 179 22 S BD
K3ESJ 3,952 212 13 S BCD
W3JUH 3,944 136 21 S ABD
W3HFY 3,900 110 20 S ABCD9E
N3UEH 3,770 223 13 S ABCD
N3TBT 3,243 141 23 S AB
K3PHY 2,783 178 11 S BC9
N3HMT 2,470 175 10 S BCD
N3LMD 2,450 85 25 S ABD
K3KEL 2,436 84 29 S B
N3OZO 2,220 147 12 S ABD
N3YOK 2,088 167 9 S ABCD
KU3A 1,876 92 14 S ABCD
N3VHU 1,512 134 8 S BD

W3ICC	1,485	155	9	S	BD
WA3CSP	1,440	60	24	S	A
WA2GFP	928	80	8	S	BCD
N3MAV	864	100	8	S	ABC
KC2ZA	820	74	10	S	BCD
N3BRJ	812	99	7	S	BCD
N3VRC	777	76	21	S	ABD
W3AWA	777	100	7	S	ABCD
N3LJC	655	115	5	S	BD
WA3JMM	570	79	5	S	ABC
N3RAH	540	93	5	S	BD
W3JG	504	78	6	S	ABD
N3LRJ	500	125	4	S	B
W3JS	426	71	6	S	B
N3HFV	403	31	13	S	AB
N3NIO	330	48	6	S	ABCD
W3AIR	308	74	4	S	BD
N3JPM	292	48	4	S	BD
W3HMM	288	33	8	S	AC
W3ALR	276	69	4	S	B
K43YCG	276	92	3	S	B
N3HSV	240	49	4	S	BD
KC3LE	216	27	8	S	B
W3UQC	210	35	6	S	B
W3OZH	200	19	10	S	ABD
K43MGB	188	47	4	S	B
KD3DI	184	46	4	S	B
K3BPP	160	28	4	S	BC
N3SQO	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
K43QBB	66	33	2	S	B
N3RAG	52	26	2	S	B
W43CQT	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
K3QQ	48	10	4	Q	ABD
W8LJ	4	2	2	Q	ABD
K3MQH (K3s IXD,JFL,MM,RA,N3s EYB,KTV, WZEOs,W3GHR,W3T,ops)					
W3RJS	653,034	1890	254	M	ABCD9E
W3RJS (+K02IX,WB2ONA)	115,884	736	111	M	ABCD9EFG
W42OMY (+W43YUE)	108,290	632	98	M	ABCD9EFGHP
K3EOD (N3DG,WA3IAC,WR3P,W3F3W,ops)	89,320	841	77	M	ABCD9E
N3ADC (+N3S NFB,RSE)	32,076	347	54	M	ABCD9E
K3DMA (+NET)	12,475	305	25	M	ABCD9E
W3RT (+N3HTZ)	11,704	222	38	M	ABCD9E
W3HZU (N3s NBT,RBT,WB3CQN)	4,800	125	32	M	ABCD9E
K3CT (+K3Bs BPQ,BPR,N3RXJ)	36,946	457	58	L	BCD
N3ORF (+N3FJA)	4,984	148	28	L	ABD
W3AD (N3s PTT,TJJ,TPL,TUQ,UEO,ops)	3,780	140	27	L	AB
W3ZGD (K43LJL,N3s UOQ,VQH,VOL,ops)	1,425	90	15	L	BD
Myland-DC					
K1RZ	188,649	777	153	S	ABCD9E
W3ZDNE	101,475	522	123	S	ABCD9E
KH2CY	21,952	246	64	S	ABDE
K3ZQ	8,621	233	37	S	AB
N3HBX	7,380	157	41	S	ABD
W3MR	3,480	110	30	S	ABD
K43TCC	3,312	116	24	S	ABD
W3GN	1,320	55	24	S	AB
WB2BZR	1,260	53	14	S	ABCD9E
N3BWB	819	62	13	S	ABD
N3UMA	704	64	11	S	B
N3XFO	520	39	13	S	ABD
N3RAM	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	AB
K3UAL	112	28	4	S	AB
W8TL/3	49,818	267	114	Q	ABCD9E
W3IP (+K3HH,N3s CBJ,FNE,WB6VGJ,W3GR)	118,708	602	118	M	ABCD9E
N3XLW (+W3CQH)	3,171	137	21	L	ABD
KB8VLI (+KB9PIV)	1,710	85	18	L	ABD
Western Pennsylvania					
N03I	34,476	248	102	S	ABDE
AA3GM	11,907	140	63	S	ABCD9E
K43SDP	11,446	148	59	S	BD
N3PUR	5,698	154	37	S	AB
W3BBO	4,680	102	39	S	ABD
N3YBE	4,142	99	38	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
K43JWJ	121	11	11	S	A
K43AVB	108	18	6	S	A
NB4J	66	11	1	S	B
N3WAV	40	8	5	S	AB
WB8EYI	35	7	5	S	A
N3KJB	24	6	4	S	A
K3MJW (K43s JWJ,WSW,N3WAV,ops)	2,128	70	28	L	ABD
4					
Alabama					
KE4HQ	5,160	101	43	S	ABCD
KD4FMN	738	36	18	S	ABD
K4KYVH (AB4UP,KD4MQA,N4GKE,WA4IIL,ops)	6,580	127	47	L	ABCD
Georgia					
KD4HLG	12,636	191	54	S	ABCD

WA4KXY	10,808	185	56	S	ABD
WA4DYH	2,700	75	27	S	ABCD
K4KAZ	2,139	69	23	S	ABCD9E
WD4MBK	1,700	45	20	S	BCD
KF4DZV	784	55	14	S	AB
KF4KUO	33	11	3	S	B
K4QLH	36	12	3	S	O
W4PYM (AE4GQ,K4SZ,KC4GCK,K4EANYK, KF4AN,KT4XE,W4FLY,ops)	816	41	16	L	ABCD
Kentucky					
K4TO	40,119	230	129	S	ABCD
WA4FVQ	12,648	125	62	S	ABCD9E
KE4JFS	6,936	130	51	S	ABD
KE4PZT	12	4	3	Q	A
North Carolina					
K4QI	48,120	229	120	S	BDE
AA4ZZ	11,904	183	62	S	ABC
W4VHH	8,060	82	52	S	BDEFGI
N4PPH	1,170	45	26	S	B
AA4NC	220	20	11	S	AB
NG4C (+N4ZWQ)	18,630	194	81	L	ABCD
KE4HYM (+KE4GCF)	828	39	18	L	ABCD
Northern Florida					
K44VXT	7,695	118	45	S	ABDE
K4RZB	7,515	115	45	S	ABCD9E
KT4AL	5,822	99	41	S	ABDE
KE4YYD	3,003	78	33	S	ABD
KQ4PI	2,436	53	29	S	ABCD9E
KE4LVQ (+K89KOH,KF4KWN)	627	33	19	L	AB
South Carolina					
AC4Q	1,058	36	23	S	ABCD
KE4YCI	51	16	3	S	BD
N4UK (+W3ZZ,W4XP,WB8ISK)	149,112	513	228	L	ABCD
KD4ZMR (+K44ABW,KD4s TCA,TCB,KE4JNY)	5,822	125	41	L	ABD
Southern Florida					
K4NB	2,783	104	23	S	ABD
K2OY	2,552	108	22	S	ABD
N5PIP	2,499	115	17	S	BD
K4IZFO	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
Tennessee					
KC4QWZ	49,569	288	123	S	ABCD9E
WB4JGG	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
KE4LE	5,198	113	46	S	AB
AD4F	2,528	72	32	S	ABD
N4LGY	1,100	45	20	S	BCD
KD4NOQ	1,080	41	18	S	BCD
Virginia					
K9OYD/4	54,800	334	100	S	ABCD9E
N4KWX	38,367	302	87	S	ABCD9E
KD4UPF	25,988	262	73	S	ABCD
AD4DG	11,773	143	61	S	ABCD9E
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
W4LTV	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
W4KK	60	15	4	S	B
WD4GSM (KC4ATS,KE4SCJ,KF4NSH, N4FPR,ops)	4,532	75	44	L	ABD
5					
Arkansas					
K4NNNO (+N0EOQ)	4,131	75	51	L	ABCD
Louisiana					
N5MYH	1,943	59	29	S	ABD
W5FYZ	646	38	17	S	AB
N5VVB (+N5UXT)	496	27	16	L	ABD
New Mexico					
K5RHR	8,712	140	44	S	ABCD
N5XZM (DM65)	2,288	65	26	S	ABCD9E
N9KUW	2,162	76	23	S	ABD
W5DO	1,298	49	22	S	ABD
KB5ZSK	780	42	13	S	ABCD
W5FV	325	25	13	S	ABD
WA5DJJ	234	21	9	S	ABCD
North Texas					
KY5N	4,992	128	39	S	AB
K6KIT	4,256	152	28	S	AB
KD4HUR	3,729	93	33	S	ABD
KK5DY	2,996	107	28	S	B
KC5YOD	1,540	30	22	S	ABCD9E
KB5DAI	1,026	49	19	S	ABCD
KB5UBE (+W4SVJB)	15,280	205	40	M	ABCD9E
W4SVK (+KC5LBE)	7,689	184	33	L	ABCD
KA5BOU (+N5RDB)	6,601	110	41	L	ABDE
KC5ONJ (+KA5VAN,KC5s MGL,QK2)	2,619	87	27	L	ABD
Oklahoma					
W0RRY	12,998	157	67	S	ABDE
N5TML	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
W5AGO (+KC5RBH)	13,035	111	55	L	BDEP

South Texas					
N5WS	26,296	229	76	S	ABCD9E
W3XO/5	7,392	126	44	S	ABCD9E
W5UWB	4,329	99	37	S	ABCD
W5EHM	2,522	97	26	S	AB
K5SOA	1,092	52	21	S	AB
K5SCXU	217	31	7	S	B
K5SKD	4	2	2	S	B
K5SUA (+W5DX)	26,925	261	75	M	ABCD9E
6					
East Bay					
WB5OMF	29,696	284	64	S	ABCD9E
W7KK	1,080	61	15	S	BCD
WB6ETY	336	38	7	S	BC
Los Angeles					
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	ABCD9E
KD6CML	3,360	116	20	S	ABCD
KE6FCT	3,278	119	22	S	ABCD
KE6AJX	2,730	121	14	S	BCD
KE6MAK	1,416	88	12	S	ABD
WA9STI	1,212	79	12	S	ABD
KE6FVN	1,148	54	14	S	ABCD
W6GGV	918	35	17	S	ABCD
N6WZI	492	82	6	S	B
N6OPR	329	47	7	S	B
KF6EQJ	110	18	5	S	BD
K6FF	84	21	4	S	AB
KD6UNR	39	13	3	S	B
N8KH	7,120	230	23	Q	ABCD
W6TRX (+K6WJZ, KD6WVQ, KE6s MJZ, SNI KF6E, KC6BGC, KS4IS, N6s CIZ, ZAY, WA6MPF, ops)					
	4,906	169	22	M	ABCD9E
N6RNMJ (+KE6WQJ, WA6DJS, WB2ODH)	60,512	351	122	L	ABCD
W6T0I (KB6WKT, KE6HFZ, WB6JH, ops)	12,900	291	32	L	ABCD
Orange					
KE6WWL	6,520	133	20	S	DE
KG6EG	6,237	150	33	S	ABD
K7JA	5,112	142	18	S	D
KE6GFF	4,032	126	16	S	D
K6IBY	4,026	80	33	S	ABCD
KE6GCHC	2,000	114	12	S	BCD
K6TSK	1,804	65	18	S	BD
KD6JUH	1,387	43	19	S	ACD
KE6QCB	329	38	7	S	BD
W6FC	276	19	12	S	ABD
W6ZN	3,553	136	17	Q	BCDE
KE6GFI	2,010	131	10	Q	BD
KE6WOX	160	40	4	Q	B
KI6FF (+KD6MWZ)	8,649	222	31	L	BD
Santa Barbara					
N6QOA	3,375	89	27	S	ABCD
N6VMN	1,245	83	15	S	B
KE6FKA	1,024	59	16	S	ABCD
KD6TBE	966	62	14	S	ABCD
W6BKY	370	30	3	S	B
N5SX	39,820	84	80	Q	ABCD9E
K0BGL (+KD6s BZN, UUN)	8,028	181	36	M	ABCD9E
Santa Clara Valley					
W6IT	5,536	122	32	S	ABCD9E
N6BSO	2,625	76	21	S	ABCD9E
N6JET	2,436	88	21	S	ABD
K6HFM	2,295	94	17	S	ABCD9E
WB6LVR	1,413	134	9	S	BD
W7AKP	1,166	53	11	S	D
W6KAE	930	64	10	S	ABD
W6ISO	708	59	12	S	B
N6NZ	672	36	12	S	BDE
KN6PE	488	44	8	S	BD
KA6SIQ	15	4	3	S	BD
KD6PIW	200	25	8	Q	AB
WA6RNC (+WB6W)					
	1,056	86	12	L	BC
San Diego					
KE6NRO	3,336	111	24	S	ABD
KD6FEF	2,520	103	15	S	ABCD
W6OYJ	2,128	75	19	S	BCDI
K6IAH	126	21	6	S	AB
KE6SDQ	114	18	6	S	BD
KD6DHB (+KC6s LG, TMB, KE6VAV)					
	198	14	11	L	ABCD
San Francisco					
KE6UWK	318	53	6	Q	B
WA6KLL (+W06HDY)					
	14,147	244	47	L	ABDE
San Joaquin Valley					
NSAJ	15,792	190	56	S	ABDE
N7STU	12,168	175	44	S	BDE
K6ALE	9,652	199	38	S	ABCD
WJ6T	7,839	150	39	S	ABD
K6YK	5,670	173	27	S	BCD
W6KOC	5,508	98	36	S	ABDE
N6IFW	3,168	132	24	S	AB
KD6RRV	259	37	7	S	B
KF6CNO	216	36	6	S	B
KG6AC	24	6	4	S	B
W6WJ	17,874	215	54	Q	ABCD9E
KC6UCN (+KB6HRB, KE6IGA, KF6s DDT, DT)	19,610	282	44	M	ABCD9E
WA6YDI (+K6MI, KC60PO)					
	18,444	225	53	M	ABCD9E
Sacramento Valley					
N6KBX	16,170	230	55	S	ABD
KC6ZWY	15,680	253	40	S	BCD
KA6VOY	12,048	186	48	S	ABCD
WA5YWC	7,848	172	36	S	ABD
KE6DPV	5,518	136	31	S	ABDE
KF6FEE	4,930	137	29	S	ABCD9E
KD6VNQ	4,116	128	28	S	BC
K6FO	2,508	120	19	S	ABD
WJ6JX	1,105	56	17	S	BCD
KE6NTZ	376	39	8	S	BD
K6PU	16	4	2	S	D

K8AB	2,346	101	23 S	BD
N8IBW	2,106	64	27 S	ABD
N8PTL	1,452	52	22 S	ABD
K8BZZ	1,232	67	16 S	ABD
W8LJC	1,232	58	20 S	ABD
K8JU	1,071	51	21 S	AB
K8BTL	897	58	13 S	ABD
N8PZD	715	55	13 S	AB
K8ISF/B	480	26	16 S	BD
N8QXC	468	34	13 S	ABD
N8VEA	372	29	12 S	BD
K8BRYX	132	32	3 S	BD
W8SMH	105	25	3 S	BC
N8TOT	96	32	3 S	AB
K8BWCV	81	24	3 S	BD
K8AGH	78	26	3 S	AB
K8BBDY	74	26	2 S	BD
N8LIS	66	27	2 S	BD
K8BTD	57	13	3 S	BCD
N8QWJ	50	18	2 S	BD
N8QHA	48	17	2 S	BD
K8BHQ	34	12	2 S	BD
K8BEF	24	9	2 S	BD
W8IDM	10	10	1 S	B
K8ABUN	15,879	183	67 Q	ABCD
N8XA	5,781	97	41 Q	ABCD9E
W8LJC (+W8LJ,WF8Z)				
159,344	610	184 M		ABCD9E
W8BACA (K8s DIO,III,WW,ops)				
34,207	433	79 L		A
K8BUHY (+K8BSRQ,N8SPW)				
4,773	113	37 L		ABD
K8KRG (K8Bs AOX,VKF,N8PZD,ops)				
819	63	13 L		AB
West Virginia				
K2UOP/B	81,270	349	129 S	ABCD9E
N8XUR	14,760	178	60 S	ABCD9E
W8ZP	11,862	136	68 S	ABCD
W8JHQ	1,539	57	27 S	B
N3IWI	735	35	21 S	AB
W8BBL	540	27	20 S	A
W8BWW	459	27	17 S	B
K8JF (K8LG,W8BYCG,W8BAFJ,WF8X,ops)				
585	39	15 L		B
9				
Illinois				
N2BJ	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
W9IIX	11,662	228	49 S	ABD
W9FIH (EN61)				
10,824	262	33 S		ABCD
W9JGV	8,365	239	35 S	B
W9ACCQ	8,268	262	28 S	ABCD9E
W9BSNR	8,064	87	48 S	ABCD9E
N9CXC	7,289	160	37 S	ABD
W9JSG	5,124	146	28 S	BD
W9BVT	3,796	146	26 S	B
W9BIF	3,591	133	27 S	AB
K9BLDG	3,519	152	23 S	ABD
N9WJ	3,507	134	21 S	ABCD
W9AVB	3,400	136	20 S	ABCD
W9AGZ	3,312	176	16 S	ABD
W9ARIJ	2,916	202	12 S	ABD
W9NHX	2,282	146	14 S	ABD
N9TUQ	2,002	132	13 S	ABD
W9CEJ	1,680	140	12 S	B
K9BCD	1,680	140	12 S	B
N9TUP	1,482	101	13 S	ABD
N9SXC	1,152	113	8 S	BD
W9NGUC	1,148	70	14 S	ABD
K9WKW	1,140	38	30 S	AB
K9Y	988	66	13 S	BD
W9BWR	938	67	14 S	AB
N9YZK (EN61)	870	124	6 S	BD
W9NSP	854	100	7 S	BCD
K9ZJU	810	78	9 S	ABD
K9VGN	737	59	11 S	ABCD
K9ZVW	720	77	8 S	ABD
AK9Y	636	159	4 S	B
N9OBE	544	32	17 S	A
K9H	430	38	10 S	ABD
W9ZU	404	101	4 S	B
K9LPL	404	101	4 S	B
K9VOX	360	60	6 S	B
K9DQI	352	41	8 S	ABD
W9GJK	336	43	7 S	ABC
K9TMW (EN61)				
316	79	4 S		B
N9VLL	308	77	4 S	B
K9USW	268	67	4 S	B
W9LAU	240	37	6 S	BD
K9JJC	228	57	4 S	B
W9AGQK	212	53	4 S	B
K9JQC	212	53	4 S	B
W9GRSH	210	40	5 S	BD
K9MLA	160	40	4 S	B
W9VA	153	17	9 S	A
K9NF	81	27	3 S	B
K9DKI	66	33	2 S	B
K9AUZH	58	29	2 S	B
N9ZKC	44	22	2 S	B
W9REC	40	20	2 S	B
W9DY	3	3	1 S	B
N9TLZ	3,683	114	29 Q	BD
N9KXE	148	33	4 Q	BD
W9BEXD (+W9RVG)				
30,240	226	112 L		ABCD
WD8KHE (+N9QDC)				
9,408	144	49 L		ABCD
Indiana				
K9MRI	103,842	471	162 S	ABCD9E
W9SO	51,304	344	121 S	ABCD
K9QFL	30,212	302	83 S	ABCD
K9BIEC	25,010	247	82 S	BD
K9EA	12,338	145	62 S	BCD
W9DZ	10,974	153	59 S	ABD
K9BZFQ	9,880	115	62 S	ABCD
N9RZY	8,046	149	54 S	AB
N8LUX	7,824	163	48 S	AB
W9BDRB	6,313	81	59 S	ABCD9E
W9BYE	3,840	65	48 S	ABCD
W9IMKE	2,106	64	26 S	ABD
N9EYO	2,054	79	26 S	B
K9BRT	1,740	58	30 S	B
K9BNKM	1,449	63	23 S	B
W9ESU	1,064	51	19 S	ABD
K9JUS	994	122	7 S	BCD

KD6RXT	616	50	11 S	ABD
W9PMJ	324	81	4 S	B
K9RU	12,096	165	63 L	ABD
WD9DSN (+WD9DSF)				
3,379	109	31 L		AB
Wisconsin				
W0UC/9	96,726	486	147 S	ABCD9EFGI
AA9AO	81,357	437	141 S	ABCD9E
WF9X	33,370	250	94 S	ABCD9E
K9BZ	25,860	368	60 S	ABD
K9BHL	15,048	179	72 S	ABD
W8LWJ	14,700	153	75 S	ABCD
N9YKE	13,365	170	55 S	ABCD9E
N9LMU	11,656	163	62 S	ABCD
W9PWP	9,000	180	50 S	AB
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
N9UUR	5,460	96	39 S	ABCD9E
KF9YR	4,428	108	41 S	AB
N9ISN	4,181	107	37 S	ABD
W8LZM	3,234	88	33 S	ABD
W9VHR	3,190	110	29 S	AB
W9AO	2,924	57	34 S	ABD9E
N9TD	2,574	63	33 S	BD
N9NHC	2,464	119	14 S	BCD
K9AJCP	2,280	75	24 S	ABCD
W9AGCZ	2,204	62	29 S	ABD
W9BVP	2,002	67	26 S	BD
W8IUIU/9	1,936	88	22 S	B
N9UBS	1,711	58	29 S	ABD
K9OSH	1,656	62	24 S	ABD
W9AKVS	1,593	57	27 S	ABD
N9CJQ	1,485	43	27 S	ABD
N9DZ	1,485	45	27 S	ABD
K9BFW	1,428	51	28 S	AB
N9DDH	1,350	54	25 S	AB
W8IWI	1,340	53	20 S	ABCD
W9BYZU	1,220	61	20 S	AB
N9ROX	1,150	41	25 S	ABD
K9BJF	1,120	56	20 S	AB
KF9VW	840	45	15 S	ABD
N9CJO	825	55	15 S	B
N9XRC	770	47	14 S	ABD
W9KHH	705	33	15 S	B
N9PBA	492	40	12 S	ABC
W9NVK	451	41	11 S	B
N9NOF	350	27	10 S	ABD
N9NDP	256	30	8 S	BC
N9UDX	198	19	9 S	BD
K9VGE	88	11	8 S	B
N9IE (+W9JUA)				
27,594	323	73 L		ABCD
W9WBR (+N9WVD)				
5,625	125	45 L		AB
W9BSZH (+N9XIX)				
504	28	18 L		AB
0				
Colorado				
N9EC	34,680	243	85 S	ABCD9E
K9GU	17,325	208	75 S	ABCD9E
K9RZ	14,168	109	56 S	BCD9E
N9IVN	11,357	180	41 S	ABCD9E
W9ETT	1,748	58	23 S	ABDE
K9TKR	1,449	58	23 S	ABD
K9S2G	684	51	12 S	ABD
AC6IO (+K9KUC,K9LHL,ops)				
1,454	55	21 M		ABCD9E
W9TMM (+W9KEA)				
912	38	19 S		ABD
Iowa				
K9KD	18,690	154	89 S	ABCD9E
W9YPT	1,917	50	27 S	ABD
N9SPT	888	37	24 S	AB
K9OCMN	84	12	7 S	AB
K9DBT	70	8	7 S	ABD
Kansas				
W9BP	32,476	208	92 S	ABCD9E
N9LI	29,298	214	111 S	ABCD9E
N9OFF	9,204	104	52 S	ABD
W9RT	4,905	91	45 S	ABD
N9LIE	2,697	87	31 S	B
W9QNX	455	50	7 S	BD
K9QMF	420	30	14 S	B
KA8KAN	72	12	6 Q	AB
KF8M (+N9ZHA)				
9,296	122	56 L		BCD
KG0WA (+K9Bs MNZ,YHU,YWM,N5CLU)				
9,268	113	54 L		ABDE
Minnesota				
N9HJZ	92,456	450	127 S	ABCD9E
W9BWE	50,688	360	88 S	ABCD9E
K9BKP	33,200	298	83 S	ABCD9E
W9ZQ	22,597	222	59 S	ABCD9E
KA9RYT	16,335	203	55 S	ABDE
K9JUX	13,622	190	49 S	ABCD9E
W9ZHF/0	9,583	165	37 S	ABCD9E
W9LJC	9,440	211	32 S	ABD9E
W9AUS	8,033	181	29 S	ABCD9E
K9BPO	7,800	135	52 S	ABCE
W9OHO (EN34)				
7,683	148	39 S		BD
K9JO	7,344	145	34 S	ABCD9E
K9BVUK	6,300	198	30 S	ABD
N9CF	6,200	220	22 S	ABCD
KA0ZYD	6,105	123	37 S	BD
KG0BG	5,700	150	30 S	ABD
N9TMO	4,525	165	25 S	ABD
K9BXC	3,800	143	25 S	ABD
W9EPZ	3,740	139	22 S	ABD
A9K	3,211	125	19 S	ABD
N9UK	3,094	116	17 S	ABDE
W9ZVOI	2,958	113	17 S	ABCD9E
W9LCP	2,546	114	19 S	ABD
N9OYQ	2,440	94	20 S	ABCD
KA0PQW	2,415	91	23 S	ABCD
KA0NAN	2,272	101	16 S	ABCD
W9IVI	2,176	111	16 S	ABD
W9GDI	2,080	73	16 S	B9E
W9SH	1,845	71	15 S	ABCD9E
K9B7Z	1,670	133	10 S	ABD
K9BPUW	1,666	119	14 S	B
N9CKK	1,364	41	22 S	ABCD9E
KG0ZQ	1,358	92	14 S	ABC
K9BOBT	1,332	97	12 S	ABD
N9ZIW	1,330	99	10 S	ABCD

K9BWUK	1,224	142	8 S	BD
K9NMN	1,164	79	12 S	BCD
W9PHD	1,104	32	23 S	ABDE
N9QHP	1,100	80	10 S	ABCD
W9DSOK	1,070	89	10 S	BD
N9VUQ	1,036	74	14 S	B
N9SUO	1,010	76	10 S	ABD
W9LER	936	56	12 S	BD
N9NAS	910	75	10 S	ABD
W9OJU	832	50	13 S	BD
N9ION	759	62	11 S	BD
W9BIM	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	BDJ
N9UHV	650	47	10 S	ABD
AL3MM	639	67	7 S	BD
KB0TEH (EN34)				
	440	37	10 S	ABD
N9PDD	392	45	7 S	BD
WA0RLY	385	30	11 S	ABCD
K0EN	384	51	6 S	BD
KG0ZT	378	48	7 S	BD
W9KRX	357	13	7 S	BCDFEGH
W9QHH	294	48	6 S	B
KB0OF	294	49	5 S	B
N9MGY	225	36	5 S	BD
KB0RZT	222	37	6 S	B
W9BGGM	189	8	7 S	ABCDDEFI
KG0CV	182	17	7 S	BCD
KB0UCP	170	34	5 S	B
N9ADQ (EN33)	148	37	4 S	B
W9BFWI	144	24	6 S	AB
KB0OIS	140	35	4 S	B
KB0YAE (EN33)	84	20	2 S	BD
K0KTY	76	19	4 S	B
KB0TEJ	46	23	2 S	B
N9ADQ	40	20	2 S	B
WB0LSG	38	19	2 S	B
N9PGQ	36	18	2 S	B
N9CET	33	11	3 S	B
K0FSP	33	11	3 S	B
K0PJH	16	8	2 S	B
W9PLD	12	12	1 S	B
KB0RZW	12	12	1 S	B
N9HZO	12	4	3 S	B
KB0MRK	9	3	3 S	B
KB0UWW	6	2	2 S	BD
KB0WDI	6	3	2 S	B
KE4KE (EN33)	4	2	2 S	B
KB0OND	4	2	1 S	D
KB0YAE (EN33)	4	2	2 S	B
KCA4VR	3	3	1 S	B
N9ZSY	1	1	1 S	B
KB0WDM	1	1	1 S	B
N9HZN	1	1	1 S	B
N9WCB	588	60	7 Q	BCD
KB0YAE	322	37	7 Q	BD
KG0ZT (EN33)	322	37	7 Q	BD
N9VUQ (EN33)	110	22	5 S	B
N9VUR (EN33)	105	21	5 S	B
N9PUJ	42	21	2 Q	B
KB0RZZ (EN34)	16	4	2 Q	D
K0PSH (EN34)	14	7	2 Q	B
KB0WVD	4	2	1 Q	D
N9HBS	2	2	1 Q	B
N9HBS (+N9WYH)				
	12	4	2 L	BD
Missouri				
K0WR	5,880	102	49 S	ABD
KB0SXS	4,305	86	41 S	BD
K0TLM	1,836	59	27 S	ABCD
N9IGZ	198	22	9 S	B
North Dakota				
N7OV	2,550	46	34 S	ABCD9EF
WB0OAJ	672	32	21 S	AB
KB0LXX	136	13	8 S	ABD
Nebraska				
WD0BQM	1,612	38	26 S	ABCDE
N9WJY	946	43	22 S	B
N9YNP	608	22	16 S	ABCDE
South Dakota				
WB0HHM	4,042	72	43 S	ABCD
KG0MW	851	37	23 S	AB
Canada				
New Brunswick				
VE9AA	1,426	46	31 S	AB
Quebec				
VE2JWH	1,554	74	21 S	B
VE2SHW	162	54	3 S	B
XL2PJW (op)	2,160	82	20 Q	ABD
VE2CUA (VA2s ECM, GTX, MRX, VE2s ARW, DUB, HFX, HKI, JTX, ops)	6,402	152	33 M	ABCD
VE2CLD (VE2s CFA, ops)	1,161	100	9 L	BD
Ontario				
VE3KDH	86,041	439	139 S	ABCD9EF
VE3CF	3,874	267	94 S	ABCD
VE3FHC	6,840	90	38 S	ABDEF
VE3FHU	6,380	96	58 S	ABCD
VE3SMA	5,130	100	38 S	ABCD
VE3SXE	3,870	85	43 S	ABD
VE3QJN	1,612	46	31 S	ABD
VE3NPB	1,050	38	21 S	ABD
VE3VHB	551	29	19 S	B
VE3TJD	300	20	15 S	AB
VE3JTH	285	57	5 S	B
VE3BFM (+VA3FIN)	9,555	95	49 M	BCD9EF
VE3TMG (+VE3DEB)	12,688	204	52 L	ABD
Manitoba				
VE4AQJ	697	33	17 S	BD
VE4GLS	656	33	16 S	ABD
British Columbia				
VE7XF	3,275	113	25 S	ABD
VE7CYT	115	23	5 S	A
VE7XO	10	4	S	A
VE7PKE (+VE7s BKU,KNV)	516	34	12 L	ABCD