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# 1998 ARRL January VHF Sweepstakes Results

**J**anuary is infamous for uncooperative weather. Our friends in the Northeast and Canada can surely attest to this. They were hit with one of the worst snow and ice storms in the history of the contest. The ice in some areas was so thick that trees and telephone poles snapped like toothpicks. Some of the northern areas were completely isolated from the rest of the outside world. If you had trouble finding those usual VE1s, VE2s, VE3s, and some of the W1s and W2s, they were probably covered with ice and without electricity! Regardless of all the weather problems, some of the diehard contesters in the Northeast were on the air, even if their rotators wouldn't turn. Ray, W1REZ, reports, "I found that conditions were good to excellent, however, due to thick ice and wind, activity was very low toward Canada, Nova Scotia and the Maritimes."

Despite the foul weather, participation was higher than we expected. In fact, we managed to top the 1000-entry mark. You can always count on a good turnout for the January VHF Sweepstakes. With Club Competition, our Affiliated Clubs make sure their members are out in force. They have a way of enticing their members to get on even if they only have FM gear.

This year's VHF SS attracted quite a few rovers. Considering the weather conditions, it is remarkable that so many rovers set out for those needed grid squares. When band conditions are poor, 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. Some rovers go that extra mile—figuratively and literally! Check out the sidebar, "A Plan to Activate a Record Number of Grid Squares."

Propagation during this year's contest wasn't the best, but we still enjoyed some short sporadic-E openings on 6 meters dur-

ing both days. We received reports from just about everywhere that 6 meters opened for about two hours each day. John, K5IUA, writes, "Awesome 6 meter E-skip! Possibly, this was a once in a lifetime January contest. I finally broke the 300 QSO barrier here in South Texas."

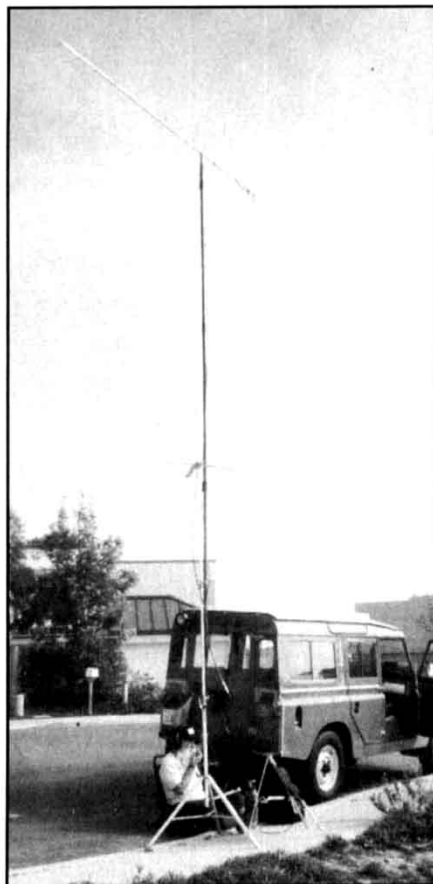
The score boxes tell the whole story on

what the top stations did in each category. Take a few minutes to look over the standings, especially the region boxes detailing the local competition.

K3MQH set the new Multioperator record at 695,372 points. Great going! There were also 16 division records set: single operator: AA2UK, N6HKF, K5IUA; QRP portable: N8XA, W8TL/3; multioperator: K3MQH, WA8WZG, N5WS; limited multioperator: W7XU, K8EB, N7STU, N6RMJ, N5XU, VE3TMG; rover: W3EKT, VE3OIL. The *Contest Yearbook* has all the contest records in it (see the ARRL Publications Bookcase elsewhere in this issue for ordering information).

Special mention goes to the four-man crew of N6RMJ. They combined the use of rovers and the plentiful participation from the Southwestern Division to smash their own limited multioperator record from 1996 by more than double the points. The Southwest may be the area to watch in the future for those perfecting the use of rovers

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John, KE6GFF, doing some curbside contesting in the ORG section.



Like most contesters in the Northeast section of the country, Lawrence, WA3CSP, had to contend with heavy snow, ice and freezing rain.

## Top Ten

Single Operator	QRP Portable	Multioperator	Limited Multioperator	Rover
WA2TEO 357,888	N8XA 19,943	K3MQH 695,372	N6RMJ 245,841	ND3F 191,840
AA2UK 289,872	W8TL/3 18,800	WA8WZG 601,176	N2XTX 109,538	W2FU 163,020
K1RZ 204,876	WX3P 13,115	N2WK 568,524	W3OR 90,718	K1YX 144,648
W3RJW 201,260	KQ6TI 5,649	K8GP 342,800	W3IP 64,628	K7XC 107,616
KE8FD 194,360	WA9STI/6 4,158	W0RSJ 182,776	K8EB 64,020	(+WB7VVD)
WC2K 187,044	N9TZL 2,100	KU8Y 152,598	N2HLT 63,128	N0HJR 92,864
WZ1V 140,375	KF6IRZ 2,016	N5WS 151,708	K2ZO 56,916	KB3PW 90,090
WA3NUF 137,904	VE2PIJ 1,720	K3EOD 147,767	W8ZH 53,631	KA2CKI 80,510
N2BJ 131,886	WB2AMU 1,264	K2TVI 145,750	W1QK 53,280	KA8IFC 75,834
WB3KRW 128,960	W6ZQ 946	N2PA 75,696	W3HZU 51,504	WO2P 51,894
				W3EKT/R 49,362

## A Plan To Activate A Record Number Of Grid Squares

By Tim Marek, K7XC

At the 1997 WSWSS (Western States Weak Signal Society) September VHF Conference, I outlined to Ward, WB7VVD, my plan to surpass N0LRJ/R's record of 20 grids activated during a contest. Before long we had agreed to work together in the attempt. I would provide the vehicle and gear for 50, 144 and 432 MHz. Ward would provide the equipment for 222 MHz as well as 1.2 and 10 GHz.

We began the January 1998 VHF Sweepstakes in grid DM04 atop Mt. Gleason above the Los Angeles basin. Hoping for some contacts with Arizona and Nevada, we stayed two hours longer than planned. We did quite well, but missed the Arizona contact.

Murphy visited us Friday when the 222 MHz transverter took a dive. Nothing we did brought it back to life, leaving us with my trusty ICOM IC-3AT hand-held driving a 120-W brick into a  $\frac{5}{8}$   $\lambda$  mag mount antenna. Even so, we made numerous 300-mile QSOs on the band.

On 1296 we used a single W6OAL big wheel antenna with tremendous success. Many thanks to OAL for getting it ready in time for the contest! Ward brought a 10-GHz rig in the hope of working some of the LA microwave gang. The Palos Verdes 10-GHz beacon was booming in at 20 dB over S9, but we could not find a single station to work. My new gear for 50, 144 and 432 (DX70T, TR751A and TR851A) worked flawlessly. The ability to switch from M<sup>2</sup> Yagis to KB6KQ loops was a big asset on 144 and 432 MHz.

Saturday we raced north through grids DM14, DM15, DM05, CM95, DM06, CM96, CM97, CM87, arriving in CM88 at 3 AM. After a three-hour nap in "The Rude Room" (a motel room featuring mildewed carpets and utterly lacking heat, a phone or TV), we were on the road before 7 AM. Now it was onto grids CM98, CM99, CM89, CN80, CN90, CN81, CN91 and CN92!

By now the weather had gone from sunny and warm to cloudy, wind and rain. Almost out of gas, we limped into CN82 as it began to snow. We switched to four-wheel drive, then stopped to fill both fuel tanks and size up the situation. We had activated 19 grids. With a little more than four hours left, we adjusted our route to avoid the mountain passes and headed north once again.



Tim's partner, Ward, WB7VVD, sets up at one of their many Rover stops

CN93 was fun—if you enjoy traveling on snow and ice covered roads at night. After what seemed like an eternity, we broke into grid 21, CN94, with 20 minutes left in the contest. From here we worked all the way into Seattle and even heard our first VE7!

Our trip wasn't over by any means. After a night's sleep I still had to drive Ward to his work site in Tokeland, Washington, before I could turn around and go home. I was on the road a full seven days, leaving Reno Thursday afternoon for Los Angeles and arriving home 1 PM the following Wednesday. In that time we covered a total of 2900 miles. That's a lot, even by my standards!

Our final score was a bit over 107,000 (the best I have ever done) and we set the new record of 21 grids traveled. Even so, Ward isn't happy. He's addicted! He wants the #1 Rover spot, and this coming September we will be back. This time we'll be on every band from 50 MHz through 24 GHz and Laser. Who knows, we might even break our own 21 grid record!

**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)

S=single operator; Q=QRP;  
M=multioperator; L=limited  
multioperator; R=rover

WA2TEO	357,888	S	K2UOP/8	85,816	S	KE8FD	194,360	S	K5IUA	111,996	S	N6AJ	40,587	S
AA2UK	289,872	S	N4HB	38,675	S	N2BJ	131,886	S	K5TR	99,828	S	N6HKF	36,872	S
K1RZ	204,876	S	N4OI	38,007	S	K8TQK	122,996	S	W5UWB	66,744	S	N6KBX	28,800	S
W3RJW	201,260	S	KH2CY/8	32,756	S	W0UC	118,026	S	W0ZQ	63,100	S	W3SE	28,612	S
WC2K	187,044	S	K4RTS	29,667	S	K2YAZ	55,074	S	W8CM	51,230	S	K6EG	26,104	S
WX3P	13,115	Q	W8TL/3	18,800	Q	N8XA	19,943	Q	N0VUR	44	Q	KQ6TI	5,649	Q
VE2PIJ	1,720	Q	KF4DZV	736	Q	N9TZL	2,100	Q	WD0GCP	42	Q	WA9STI/6	4,158	Q
WB2AMU	1,264	Q	KF4UVG	90	Q	N9MYK	264	Q	N0HBS	6	Q	KF6IRZ	2,016	Q
K3QQ/3	640	Q	KS4DU	40	Q	W9SZ	176	Q				W6ZO	946	Q
N3HKS	456	Q										W7KK	451	Q
K3MQH	695,372	M				WA8WZG	601,176	M	N5WS	151,708	M	WA6YDI	32,305	M
N2WK	568,524	M				KU8Y	152,598	M	WQ0P	29,256	M	W6TOI	30,402	M
K8GP	342,800	M				K9RU	11,968	M	N0YKR	5,280	M	N6PYI	25,992	M
W0RSJ	182,776	M							W0IBM	2,464	M	KC6WLC	19,276	M
K3EOD	147,767	M							WA5BU	1,280	M	K7XW	7,697	M
N2XTX	109,538	L	KV4I	45,214	L	K8EB	64,020	L	W7XU	35,244	L	N6RMJ	245,841	L
W3OR	90,718	L	KD4ZMR	20,100	L	W8ZH	53,631	L	N5XU	33,600	L	N7STU	23,121	L
W3IP	64,628	L	N4IDX	13,797	L	WD9EXD	46,096	L	KK5IH	22,256	L	WA6KLL	21,248	L
N2HLT	63,128	L	WA5RT	7,560	L	N8KOL	18,723	L	K5BZM	21,930	L	AC6TA	20,516	L
K2ZO	56,916	L	KC5TGK	5,289	L	VE3TMG	14,202	L	N0BEL	11,648	L	W6SD	4,179	L
ND3F	191,840	R	KA8IFC	75,834	R	KF9US	44,536	R	N0HJR	92,864	R	K7XC	107,616	R
W2FU	163,020	R	W3EKT/R	49,362	R	N9REP	23,016	R	K0DAS	37,524	R	(+WB7VVD)		
K1YX	144,648	R	N8ZCA	13,805	R	N8KWX	21,462	R	N5VBK	35,784	R	N6TEB	17,484	R
KB3PW	90,090	R	(+N8LGP)			N9YZK	5,452	R	(+KB5VPR)			N6VHF	15,522	R
KA2CKI	80,510	R	KB4NVD	8,880	R	K9TMW/R	2,286	R	AB5SS	14,448	R	(+KF6OYQ)		
			(+N4OFA)						(+W5DF)			N6TEB	14,880	R
			WB3AKD	4,455	R				WA5VKS	6,956	R	(+KE6RPY)		
												K6LMN	9,520	R

## Affiliated Club Competition

	Score	Entries		Score	Entries		Score	Entries
<b>Unlimited Category</b>								
Mt Airy VHF Radio Club	2,810,913	56	South Jersey Radio Assn	85,090	17	Xerox ARC	11,026	6
			Six Meter Club of Chicago	71,385	37	Mobile Sixers Radio Club	2,080	7
			Keystone VHF Club	67,144	3			
			Schenectady ARA	56,798	8	<b>Local Category</b>		
<b>Medium Category</b>			Rocky Mountain VHF	51,703	8	Delaware Valley VHF Society	165,373	6
Potomac Valley Radio Club	1,784,971	21	Crawford ARS	46,127	16	Hudson Valley Contesters and DXers	31,206	5
Northeast Weak Signal Group	1,568,997	49	Quaboag Valley ARC	27,896	4	North Texas Microwave Society	22,121	3
Rochester VHF Group	1,560,235	36	Troy ARA	27,218	14	Albany ARA	13,344	4
Northern Lights Radio Society	671,133	50	Warminster ARC	24,216	33	Murray State University ARC	10,426	7
Mad River Radio Club	615,273	3	Rochester (MN) ARC	20,751	48	Sussex County ARC	8,238	3
Western States Weak Signal Society	335,260	12	Brockport Amateur Radio Klub	15,678	5	West Park Radiops	2,292	3
Northern California Contest Club	157,756	5	Rochester ARA	15,529	8	Rochester Radio Repeater Assn	1,451	4
Downey ARC	95,793	6	Twin City Ham Club	13,357	3	Delaware Valley OMIK	1,274	3
Murgas ARC	95,068	5						
Badger Contesters	85,878	21						

## QSO Leaders By Band

Single Operator	222 MHz	902 MHz	2304 MHz	Multioperator	222 MHz	902 MHz	2304 MHz
<b>50 MHz</b>				<b>50 MHz</b>			
K5TR	397	WA2TEO 117	WA2TEO 45	K3MQH	181	WA8WZG 56	WA8WZG 27
K5IUA	327	W3RJW 104	W3RJW 44	N6RMJ -L	133	N2WK 43	N2WK 21
W5UWB	311	N3EXA 94	WA3DRC 39	K2TVI	106	K8GP 25	N2PA 11
WA2TEO	267	AA2UK 93	W2SJ 39	W8ZH -L	531	W0RSJ 24	WA2OMY 9
K1RZ	247	WB3KRW 89	AA2UK 38	K8GP	405	N3ITT 24	K8GP 6
W3EP	234	WC2K 87	W2UR 37	N5WS	401	WA2OMY 18	K3EOD 6
K3ZO	233	WB3JYO 83	WB3JYO 35	N2XTX -L	388	N3ADC 16	W0RSJ 5
N5HHS	228	N3DQZ 82	N3DQZ 35	K2TVI	368	N2PA 15	K2TVI 3
W2YV	217	W3JYO 82	W3JYO 35	W0RSJ	342	K3MQH 14	
W3XO/5	212	N3DQZ 77	N3DQZ 33	N2WK	303	K3EOD 14	
WC2K	208	WA3NUF 76	N3NGE 33	WA8WZG	294	K3DMA 12	
W3HHN	196	W2SJ 74	N3EXA 31	W6TOI	66	N5WS 8	
WB2QLP	188	WZ1V 74	WA3NUF 30	W3OR -L	66	K2TVI 8	
W0UC	180	N2BJ 73	WB2VVV 28	K2AA -L	63	K7XW 3	
N3EXA	176	WA3AQA 71	W2SK 27	W3HZU -L	241	N8KOL 1	
		KE8FD 71	WZ1V 26	K3EOD	239	WQ0P 1	
		K3IUV 71		W2MMD -L	234	KU8Y 1	
		WB2VVV 71		KU8Y	230		
<b>144 MHz</b>		<b>432 MHz</b>	<b>1296 MHz</b>	<b>144 MHz</b>	<b>432 MHz</b>	<b>1296 MHz</b>	<b>3456 MHz</b>
K3VGX	523	NC11 223	K2TXB 67	K3MQH	314	WA8WZG 80	N2WK 16
K2TXB	467	WA2TEO 181	W3RJW 66	K3EOD	492	N2WK 58	N2PA 8
WA2TEO	409	N3OPM 137	WA2TEO 61	N2WK	422	K8GP 41	WA2OMY 5
KD1DU	367	N3JUF 135	WA4VHF 59	K8GP	395	WA8WZG 33	W0RSJ 2
KB2ZVP	365	KE6GFF 133	AA2UK 54	WA8WZG	381	N6RMJ -L 150	K8GP 2
N3OPM	318	K2TXB 126	WA3NUF 48	W0RSJ	350	K2TVI 142	K3EOD 1
AA2UK	309	W3RJW 125	WZ1V 47	K2ZO -L	340	K3EOD 128	WA8WZG 1
KB2IT	280	WB3KRW 119	W2SJ 46	N2XTX -L	322	W0RSJ 107	
K1RZ	279	N3EXA 118	WB3JYO 46	K2TVI	317	KU8Y 97	
WC2K	279	WZ1V 117	WC2K 44	W3IP -L	277	K7GAD -L 95	
K2KIB	279	WA3DRC 116	W2UR 43	N6RMJ -L	276	N3ITT 93	
K0MQS	274	WC2K 115	N3EXA 43	W1QK -L	259	W3OR -L 92	
NX2Q	256	AA2UK 115	N3NGE 42	KU8Y	251	N2HLT -L 90	
WB3KRW	253	WA3NUF 113	W2AAA 41	W3HZU -L	247	W6TOI 89	
N3JUF	250	N3DQZ 111	(K2IV,op) 41	AA5C	231	W1QK -L 88	
			WB3KRW 41	KE7SW	2	K3MQH 16	
				WA5TKU	2		

-L denotes Limited Multioperator

## Multiplier Leaders By Band

Single Operator	222 MHz	902 MHz	2304 MHz	W2DYY	2	144 MHz	432 MHz	1296 MHz		
50 MHz	KE8FD	39	K1RZ	13	W1RIL	7	W2SK	2	WA8WZG	33
	K8TQK	34	AA2UK	13	WA4VHF	7	KB3XG	2	N2WK	21
	WA2TEO	31	WA2TEO	13	WA2TEO	6	N2ULL	1	K8GP	19
	K5TR	131	W1RIL	10	WA1MBA	6	WB1FKF	1	KU8Y	10
	K5IUA	124	KE8FD	9	AA2UK	5	WA0BWE	1	W0RSJ	8
	N5HHS	98	K2UOP/8	25	WA3NUF	4	W0ZQ	1	N7STU -L	8
	W3XO/5	88	N2BJ	25	K1MAP	4	NO2O	1	K2TVI	7
	W2YV	86	VA3ST	23	W2DYY	4	W0AIH	1	WA6YDI	7
	K5KAT	70	K3DNE	23	W2ONP	4	W3KM	1	WQ0P	6
	WB2QLP	69	WC2K	22	W3RJW	4	WA2TEO	1	WQ0P	5
	W0UC	69	WB3KRW	21	WB2VVV	4	WA5TKU	1	W3IP -L	22
	K2OY	69	K2YAZ	20	WC2K	8	AA5C	1	W3OR -L	22
	K1RZ	63	WZ1V	19	W2UR	8	W0UC	1	K2TVI	21
	W8CM	56	W0UC	19	N2ULL	4	KE7SW	1	N3ADC	4
	W5FF	54	AF1T	19	W3KM	3			W6TOI	4
W4KXY	53	WA4GPM	19	N1DPM	3			K3MQH	4	
K3NXH	53			WB1FKF	3			N5WS	4	
WA5IYX	53			K2UOP/8	3					
				K1RZ	3					
				WZ1V	3					
				WA1YHO	3					
				N3NGE	3					
144 MHz	432 MHz	1296 MHz	3456 MHz	Multioperator	222 MHz	902 MHz	2304 MHz			
KE8FD	74	KE8FD	47	N5WS	140	N6RMJ -L	48	WA8WZG	16	
K0MQS	72	N4QI	40	W8ZH -L	101	K3MQH	46	N2WK	7	
K8TQK	59	K8TQK	39	W7XU -L	91	WA8WZG	38	N2PA	4	
K3VGX	51	WA2TEO	32	K3MQH	87	N2WK	29	K8GP	3	
KB9NKM	50	AA2UK	30	N5XU -L	81	KU8Y	27	K2TVI	2	
N4QI	49	N3OPM	30	K3MQH	87	K8EB -L	24	W0RSJ	2	
KB2ZVP	47	VA3ST	29	N5XU -L	81	K8GP	23	WA2OMY	2	
K2TXB	46	K2TXB	29	N6RMJ -L	74	W3OR -L	21	K3EOD	2	
W9SO	46	K2UOP/8	29	N2XTX -L	70	W0RSJ	21			
WA2TEO	45	K2YAZ	28	WA8WZG	70	K2TVI	18			
AA2UK	43	KA0RYT	28	K5BZM -L	69	WD9EXD -L	17			
N0KQY	42	NC1I	28	K8GP	65	W3IP -L	16			
WC2K	42	N2BJ	28	N2WK	60	N2HLT -L	15			
N3OPM	42	K3DNE	28	WD9EXD -L	60	KV4I -L	14			
K2UOP/8	42	K1RZ	27	KU8Y	58	N6PYI	14			
		KB2ZVP	27	W3OR -L	52					
				KK5IH -L	46					
				WA5RT -L	46					

-L denotes Limited Multioperator





NK8Q	29,913	368	59	S	ABCDE	KA3TCC	6,280	134	40	S	ABD	Virginia	N4HB	38,675	285	91	S	ABCD9E	Orange	N6HKF	36,872	324	88	S	ABCD	
N3RN	28,500	286	76	S	ABCD9	W3BRH	5,220	126	30	S	ABCDE	N4RTS	29,667	219	93	S	ABCDE	KG6EG	26,104	343	52	S	ABCD			
KB3IB	27,720	273	56	S	ABCD9EF	N3KNI	2,378	76	29	S	ABD	K4ZOO	27,936	223	96	S	ABCDE	WB6FCS	20,916	197	84	S	ABD			
KU3T	27,072	358	47	S	ABDE	N3ZTJ	2,376	108	22	S	AB	AD4DG	17,664	183	69	S	ABCD9E	K6TSK	20,349	285	57	S	ABD			
K3VXG	26,673	523	51	S	B	W1LRZ	2,128	76	28	S	ABD	N4S5M	15,444	168	78	S	ABD	KE6GFF	4,522	133	17	S	BD			
W3KKN	26,273	356	43	S	ABCDSEF	K3XZ	2,128	102	19	S	ABD	WD4GSM	2,964	60	38	S	ABCD9	KG6VV	3,948	132	21	S	BCD			
N3AQS	25,668	298			ABCDSEFGHI	NW2M	2,048	128	16	S	B	N4BG	2,890	85	34	S	AB	KF6HAM	3,400	90	34	S	ABD			
WA3AQA	25,000	362	40	S	ABCD9E	W3GN	1,426	62	23	S	AB	AD4TJ	2,592	81	32	S	AB	KE6GFI	2,610	142	15	S	BD			
WA3EHD	22,513	328	47	S	ABCDE	N3UN	1,221	101	11	S	ABD	W4LTU	1,407	67	21	S	A	W6FC	2,025	74	25	S	ABD			
K3IUV	21,014	352	38	S	ABCDE	W2GG	1,098	53	18	S	BD	W2YE	1,325	47	25	S	ABD	WB6HYH	1,854	103	18	S	AB			
KB3ZS	20,760	353	40	S	ABCDE	N53T	952	56	17	S	AB	WAQOVW	1,188	48	22	S	ABD	K6IBY	1,248	39	16	S	CD			
WS3C	15,080	211	65	S	ABD	N3UMA	580	58	10	S	B	K4ME	1,008	56	18	S	B	KD6UIH	532	30	14	S	BDE			
W3IIT	14,703	274	39	S	ABCDJ	K3UT	504	36	14	S	AB	NC4S	969	51	19	S	AB	W6NOL	270	19	9	S	BCD			
KB3HE	13,020	241	42	S	ABD	N3VOP	476	98	4	S	BD	W3EMH/4	896	55	16	S	ABD	KF6ZYZ	117	13	9	S	AB			
W3GXB	12,276	196	36	S	ABCD9E	N3SOK	365	63	5	S	ABD	N4MM	270	30	9	S	B	W6ZQ	946	86	11	Q	AB			
K2FK	11,500	195	25	S	ABCD9EF	KE3PT	324	58	4	S	BEF	KF4NYW	18	9	2	S	B	KE6WOX	176	44	4	Q	B			
K3EBZ	10,192	259	28	S	ABCD	KK3Z	284	98	3	S	B	W4FCR (K4BSF, K4UK, KE4HOA, KF4OKG, KF4TOF, W4TLM, WB8POC, ops)	1,953	59	31	S	ABCD	KC6UIX (KC6JTN, KE6FOC, ops)	280	28	10	L	A			
N3EMY	9,698	259	26	S	ABD	WB3KDB	156	52	3	S	B	5	Louisiana	KB4OGM	3,780	104	36	S	ABD	Nanta Barbara	NH6YK	6	3	2	S	A
WA3RLT	9,238	216	31	S	ABDE	KZ3AB	90	29	3	S	BD	KB5KBH	2,870	70	41	S	A	N6ZE	5,580	127	36	S	ABCD			
N3VHU	6,447	239	21	S	ABCD	N3AFT	72	12	6	S	B	K5CZD	858	31	26	S	ABD	KE6RCI	1,496	114	11	S	BD			
KA2WRE	6,150	225	25	S	BD	N3WIZ	62	31	2	S	B	W5ART	7,560	121	60	L	ABD	W9EC	66	11	6	S	B			
WA3YUE	5,478	124	22	S	ABCD9EF	K3QII	231	11	11	Q	ABCDE	K5CTGK (+N5DVI, KC5ZIM, KC5OKP, KK5LV, NT5K, KC5RFO, KC5HGT, KB5GON)	5,289	123	43	L	AB	KC6WLC (+K6BGL, KE6UNN, KD6WZR)	19,276	244	61	M	ABCD			
W3DFM	4,495	86	29	S	ABCD9E	K8GP (K1RA, W3UR, W3ZZ, W3PL, W4XP, K6LEW, WD8ISK, ops)	342,800	1155	200	M	ABCD9EFGHI	Mississippi	W5RCI	7,458	101	66	S	ABCD	KF6NJQ (+KE6KBX, KD6OV5)	242	18	11	L	ABCD		
N3JNX	3,737	93	37	S	ABD	W3IP (+N3CBJ, K3MLA, WA3TID, W3GR)	64,628	498	107	L	ABCD	W5ZEA	112	14	8	S	A	Santa Clara Valley	NU6S	18,444	257	58	S	ABD		
N3YXX	3,213	116	27	S	ABD	Western Pennsylvania	NO3I	22,842	211	81	S	ABDE	KB5ZEA	112	14	8	S	A	KC6ZWT	13,200	223	40	S	BCD		
WA3IAC	3,146	153	13	S	BCD9	KA3SDP	7,824	131	48	S	ABD	N5RHR	10,824	140	66	S	ABCD	W6IT	11,634	190	42	S	ABCD			
W13Z	3,003	167	13	S	ABCD	W3FUH	2,508	57	38	S	ABD	K9UWU	6,210	126	46	S	ABD	W6RXQ	11,340	177	45	S	ABCD			
W3HFY	2,660	93	19	S	BCD9	AA3GM	2,244	47	33	S	ABCD	W5FF	5,670	105	54	S	A	K6KLY	7,298	153	41	S	ABD			
W3PHY	2,450	168	14	S	BCD9	N3PUR	1,584	72	22	S	A	N5XZM	2,940	79	28	S	ABCD	WA6GYR	6,039	140	33	S	ABD			
N3DHI	2,430	183	9	S	ABCD	W3KJM	1,150	46	25	S	A	W5DO	2,220	56	37	S	ABD	AB6SO	1,808	77	16	S	ABCD			
N3TBB	2,310	110	21	S	AB	W3HDH	936	52	18	S	A	WB5ZSK	1,340	51	20	S	ABCD	KD6PAO	1,526	109	14	S	B			
W3SZ	2,295	107	17	S	BD	KE3TK	551	28	19	S	ABD	WB5YYX	60	10	6	S	AB	K6XX	768	52	12	S	AB			
N3FKR	2,241	205	9	S	ABD	NEYEA	403	28	13	S	ABCD	North Texas	W8CM	51,230	351	109	S	ABCD9E	K6BOT	220	40	4	S	BD		
KC5DRI	1,932	82	21	S	ABD	W3ZA	336	23	14	S	ABD	W8MCK	51,230	351	109	S	ABCD9E	KD6PIW	84	14	6	Q	AB			
W3HMU	1,900	89	19	S	ABC	N3WAV	30	6	5	S	A	K9MK	7,598	102	58	S	ABCD	K6PUD (+AA6V, KC6SBJ, KQ6GM, KQ6OB, KE6NBO)	2,584	85	19	M	ABCD			
WA3CSP	1,875	75	25	S	A	WB0IWG	4	2	2	Q	AB	AA5C	7,515	94	45	S	ABCD9EFGHI	San Diego	KF6JBB	5,412	146	33	S	ABD		
K3BPP	1,860	77	10	S	CDE	K3MJW (KA3JWJ, N3MRU, N3NOS, N3WCR, N3WJK, ops)	3,560	85	40	L	ABD	W5TKU	7,008	90	48	S	AB	KE6NO	1,836	71	18	S	BCD			
N3JXJ	1,850	74	25	S	AB	4						KB6ITK	6,882	186	37	S	B	KE6SQG	576	40	12	S	ABD			
KU3A	1,414	61	14	S	ABCD	Georgia	W4KXY	24,380	251	92	S	ABD	K6GCT	3,818	83	46	S	AB	K6IAH	444	33	12	S	ABCD		
N3XPW	1,266	175	6	S	BD	W4HLG	21,360	211	80	S	ABCD	W4WDH	18,648	163	84	S	ABCD	San Francisco	WN6W	1,062	53	18	S	ABD		
W3IC	1,260	118	9	S	BD	W4ZPG	10,545	106	57	S	ABCD	W4WV	18,648	163	84	S	ABCD	KE6VDE	39	13	3	Q	B			
NE3I	1,254	114	11	S	AB	W4AGLV	2,555	60	35	S	ABD	W4ZPQ	10,545	106	57	S	ABCD	W6AKL (+W6HDY)	21,248	281	64	L	ABDE			
WA3H	1,220	61	20	S	AB	K4KAZ	1,265	55	23	S	AB	K4DK	7,130	128	46	S	ABCD	San Joaquin Valley	N6AJF	40,587	328	83	S	ABCD		
W3AWA (WA3KFT, op)	1,180	100	10	S	ABCD	K4JPF	513	27	19	S	AB	W4AGLV	2,555	60	35	S	ABD	N6IFW	7,807	172	37	S	ABD			
N3VRC	1,102	57	19	S	ABD	NY4F	374	31	11	S	ABD	K4KAZ	1,265	55	23	S	AB	K6YK	4,752	142	27	S	ABCD			
N3EMA	1,078	80	11	S	ABCD	KF4DZV	736	46	16	Q	A	W4GCL (+KF4HQU, KF4IPW)	5,216	137	32	L	ABCD	W6KOC	1,460	49	20	S	BE			
WD5BRP	1,064	56	19	S	AB	Kentucky	W4FVQ	12,328	113	67	S	ABCD9E	South Texas	K5UIA	111,996	514	183	S	ABCD9E	KD6RRV	728	56	13	S	BD	
N3LJC	730	130	5	S	ABD	WA4FVQ	12,328	113	67	S	ABCD9E	K5UIA	111,996	514	183	S	ABCD9E	W6GYR	680	17	17	S	BD			
KB3QJ	704	34	16	S	ABD9	KB4EBP	9,120	135	57	S	ABD	K5RTR	99,828	515	177	S	ABCD	KF6CNV	215	43	5	S	B			
N3RAH	580	90	5	S	BD	KB4JFS	9,060	133	60	S	ABCD	W5UWB	66,744	374	162	S	ABCD	KF6KDA	175	31	5	S	BD			
N3KVE	560	40	14	S	AB	AD4ZW	6,256	100	46	S	ABDE	W3XO/5	42,336	294	126	S	ABCD9E	KF6IRZ	2,016	102	16	Q	BD			
KA3YCG	552	118	4	S	BD	KF4DXJ	510	30	17	S	AB	K5KAT	31,408	238	104	S	ABCD9E	W6YDI (+N6G, K6MI, KE6QPO, KE6THG)	32,305	277	71	M	ABCD			
N3KFW	396	33	12	S	AB	KF4ELO	40	9	4	S	BD	N5HHS	30,352	262	112	S	ABD	N6PYI	25,992	244	72	M	ABCD			
W3ALR	375	104	3	S	BD	KF4KNF	24	8	3	S	B	KD5CUV	5,500	110	50	S	AB	N7STU	23,121	253	63	L	ABDE			
KD3DI	372	62	6	S	B	North Carolina	N4QI	38,007	245	103	S	BDE	W5A1YX	5,454	101	54	S	AB	Sacramento Valley	N6KXB	28,800	274	80	S	ABCD	
W3JS	372	62	6	S	B	N4QI	38,007	245	103	S	BDE	KC5FP	4,165	78	49	S	ABD	K6BVQV	6,020	116	35	S	ABD			
W3HMS	360	24	12	S	ABD	W2YV	18,662	217	86	S	A	NSYK	3,652	83	44	S	A	KD6VNO	3,920	124	28	S	ABD			
WA3JMM	318	38	6	S	ABCD	W1EHL	17,487	154	87	S	ABCD	KC5VAK	2,079	63	33	S	A	W5YWC	1,854	83	18	S	ABD			
K2OBU	308	71	4	S	BD	W4FSO	700	35	20	S	B	KA5GLX	1,860	56	30	S	ABD	KF6YL (+WA6BKD)	570	56	10	L	BD			
W3ABR	304	69	4	S	BD	KF4UVG	90	15	6	Q	B	KK5OA	1,798	51	31	S	ABD	7								
N3AHP	252	33	7	S	ABCD	KV4I (NC4DX, NC4SA, AF4HX, KF4TDY, KF4OCV, KD4BKY, ops)	45,214	379	94	L	ABCD	AJ4F	350	35	10	S	B	Arizona	AA7A	13,910	191	65	S	ABD		
N3JIO	220	42	4	S	BD	Northern Florida	W4QOS	14,175	142	63	S	ABDE	W5VYE (N5ZZ, WW2R)	151,708	599	194	M	ABCD9E	KE7FC	7,645	123	55	S	ABD		
N3OSO	210	21	10	S	B	W4QOS	14,175	142	63	S	ABDE	N5WU (KA5WSS, KC5EMV, KD5AAD, KD5BWT, KM5FA, ops)	33,600	270	112	L	ABCD	W8/OHF	1,450	57	25	S	ABD			
W3JG	208	25	8	S	ABD	W4QOS	14,175	142	63	S	ABDE	West Texas	KK5IH (+KK5KK, W5AL)	22,256	189	104	L	ABCD	N7GJD	20	4	4	S	ABD		
N3QVT	200	20	10	S	AB	W1LR	2,146	52	37	S	ABDE	K5UIH (+KK5KK, W5AL)	22,256	189	104	L	ABCD	K7RST (KODVH, WA2VNT, W7AI, ops)	2,392	68	26</					

KK7FL 1,826 73 22 S ABD  
KK7JP 708 59 12 S AB  
N3EG 507 39 13 S AB

**8****Michigan**

K2YAZ 55,074 286 134 S ABCD9E  
K8MD 50,730 306 114 S ABCD9E  
K8RS 29,684 256 82 S ABCDE  
K8NNU 25,896 229 83 S ABCDE  
NE8I 6,802 117 38 S ABCDE  
W8WNNX 2,688 96 28 S A  
K8PNW 2,599 75 23 S BDE  
K8SDAZ 1,917 71 27 S AB  
W8SGR 1,029 55 31 S ABD  
N8ZVB 1,058 46 23 S AB  
KG8ZF 931 39 19 S BD  
KC8GTE 720 45 16 S AB  
W8CO 182 26 7 S A  
KU8Y (+NQ8A)

152,598 654 174 M ABCD9EP  
**K8EB** (+K8PZ, N8WMU, K8GBX, N8XHD)  
64,020 385 132 L ABCD  
KC8EZX (+K8BWF, K8BIE, K8CFYQ)  
8,774 190 41 L ABD  
WA8RLI (+N8OEO, K8BSQZ, K8BVL, K8BAU)  
7,040 149 40 L ABD

**Ohio**

**K8F8D** 194,360 543 226 S ABCD9E  
K8TQK 122,996 419 194 S ABCD9E  
WA8TJL 36,400 235 104 S ABCD9E  
N8ZJN 32,528 210 107 S ABCDE  
KC8CSD 22,512 210 84 S ABCD  
KE8RO 18,906 229 69 S ABD  
WB8PAT 16,704 143 72 S ABCD9EF  
K8MR 14,049 187 63 S ABCD  
WB8AAU 13,601 159 67 S ABD  
WB8AE (K8USA, op)

12,896 177 62 S ABD  
WD8AML 12,390 164 59 S ABD  
KB8YKR 7,336 111 56 S ABD  
N8CUX 5,418 110 43 S ABD  
KB8UHY 5,418 109 42 S ABD  
KF8UJ 4,112 34 5 S ABD  
K8AB 2,418 85 26 S ABD  
K8AB 2,200 97 22 S BD  
W8DEL 1,748 69 23 S ABD  
NX8M 1,725 63 23 S ABCD  
KT8U 1,298 56 22 S ABD  
KB8UZZ 1,092 52 21 S AB  
KC8CFI 1,034 37 22 S BD  
KC8AGH 754 58 13 S AB  
WA8GMT 560 35 16 S A  
WB8JAY 558 31 16 S B  
W8WG 510 25 17 S ABCD  
AA8WJ 429 36 11 S ABD  
KB8WZZ 224 24 8 S ABD  
KC8ENM 135 15 9 S A  
N8QWJ 120 32 3 S BD  
N8QQA 117 31 3 S BD  
NL8IS 108 29 3 S BD  
N8TQT 93 31 3 S AB  
N8CMT 75 15 5 S S  
KB8WCV 72 13 3 S BD  
K8USA 69 17 3 S BD  
WB8DM 48 24 2 S B  
W8WTS 48 13 3 S ABD  
AF8C 44 22 2 S B  
KC8SBO 32 16 2 S B  
**N8XA** 19,943 166 77 Q ABCD9E  
**WA8WZG** (+N2CEI, WA8RJJ)  
601,176 1088 296 M ABCD9EFGHIJ  
W8ZH (+WA8DXB, KB8ZW, K8WVW)  
53,631 531 101 A  
N8KOL (+N8WHY, K8AOQ, K8BL)

18,723 198 79 M ABCD  
K8KRG 1,818 101 18 L AB  
KC8AKI 1,452 63 22 L AB  
W8SA 672 48 14 L AB  
N8XWO (+WD8RIF, WD8JLM, W8MHV, AA8EB)  
273 21 13 L AB

**West Virginia**

**K2UOP/8** 85,816 384 136 S ABCD9EF  
KH2CY/8 32,756 331 76 S ABCD  
W8DT 19,572 201 84 S ABCD  
N8XUR 13,398 182 58 S ABCDE  
WB8TFV 7,844 128 53 S ABD  
N3WJ 2,886 74 39 S AB  
N8TMF 851 36 23 S ABD  
W9LT 88 22 4 S B  
KB8QIR 36 6 6 S B  
**W8TL3** 18,800 187 80 Q ABCDE  
KC8ERC 3,713 79 47 L AB  
K8JF (W8BYGQ, W8FX, K8LG, WD8AFJ, ops)  
1,610 70 23 L B

**9****Illinois**

**N2BJ** 131,886 600 153 S ABCD9E  
W9IIX 30,476 271 76 S ABCD9E  
N9NK 20,394 166 99 S ABCD  
N9NJY 14,322 142 77 S ABCDE  
WA9CCQ 13,026 273 39 S ABCD  
WD8KHE 11,472 156 57 S ABCD  
WA9FH 11,682 282 33 S ABCD  
K89GH 8,393 144 39 S ABCDE  
WD9ISG 6,346 131 38 S ABD  
KB9POQ 6,300 133 42 S ABD  
WA9RIJ 5,772 190 26 S ABD  
K9ZZE 5,652 157 36 S A  
W9VA 3,060 102 30 S AB  
KV9Y 2,975 119 25 S B  
W9CEJ 2,720 136 20 S B  
KB9KDC 2,720 136 20 S B  
N9TUQ 2,528 129 16 S ABD  
W9NHX 2,310 136 15 S ABD  
W9JGV 2,175 87 25 S B  
N9TUQ 1,778 106 14 S ABD  
WB9IFM 1,683 99 17 S AB  
K9ZWM 1,274 76 14 S ABCD  
K9ZWW 1,274 76 14 S ABCD  
K9PW 1,242 69 18 S A  
W9NSP 1,184 126 8 S BCD  
N9VKE 1,016 100 8 S BD  
N9SXG 994 107 7 S BD  
WN9GUC 930 80 10 S ABD  
KB9MLA 816 68 12 S B

WA9CJZ 798 112 6 S BD  
WB9MXX 650 65 10 S ABD  
AK9Y 544 136 4 S B  
N9CXO 500 35 10 S BD  
WA9GQK 400 100 4 S B  
K9LPL 376 94 4 S B  
WD9GJK 216 52 4 S BC  
N9ZKC 180 36 4 S BD  
W9PMJ 175 35 5 S AB  
KC9AO 172 43 4 S B  
KA9UZH 156 39 4 S B  
K9TMM 152 38 4 S B  
N9CWR 126 42 3 S B  
WV7T 102 17 6 S AB  
W9ZZU 78 26 3 S B  
KB9OYO 76 19 4 S AB  
WA9SOV 38 19 2 S B  
KB9OYT 36 18 2 S B  
WA9GOB 34 17 2 S B  
**N9TZL** 2,100 83 21 Q BD  
W9SZ 176 13 11 Q BD  
**WD9EXD** (N9BJG, W9RVG, ops)  
48,096 298 134 L ABCD

KC5OEI (+W9YO)  
413 51 7 L BD

**Indiana**

W9SO 37,496 296 109 S ABCD  
WA1MKE 32,700 230 100 S ABCD9E  
KB9NKM 8,350 167 50 S B  
WB9DRB 7,040 89 64 S ABCDE  
N9RZY 4,653 99 47 S AB  
W9ESU 3,924 80 36 S ABD  
N8LUX 3,838 90 38 S ABD  
K9RQ 2,040 67 30 S ABD  
WD9DSN 1,680 60 28 S AB  
KB9OMW 1,550 62 25 S B  
N9SFW 1,274 48 26 S ABC  
N9TMM 1,176 47 24 S BD  
KB9FZQ 96 10 8 S ABD  
N9XPZ 88 11 8 S ABD  
**K9RU** (+N9KJZ)  
11,968 139 68 M ABCDE

**Wisconsin**

W9UC 118,026 498 166 S ABCD9EFGI  
K9KL 45,220 284 119 S ABCD9E  
WF9X 42,001 301 97 S ABCDE  
K9BZ 28,405 370 65 S ABD  
N9NGH 7,223 167 31 S BCD  
W9JN 4,956 104 42 S ABC  
W9PHJ 4,824 112 36 S ABD  
N8AKC 4,773 105 43 S ABD  
N9LLT 4,056 89 39 S ABCD  
WA9LZM 2,790 82 30 S ABD  
N9ISN 2,550 79 30 S ABCD  
WA1UJ/9 1,800 75 24 S B  
AF9J 1,400 31 28 S ABCDE  
W9KHH 1,344 56 24 S AB  
WB9VYP 1,344 54 21 S BD  
N9XHO 1,242 54 23 S AB  
N9NDP 1,160 58 20 S ABD  
W9NFL 935 45 17 S BCD  
KB9PCU 875 35 25 S AB  
W9YCV 714 34 17 S ABD  
N9UBS 675 44 15 S ABD  
N9TD 496 26 16 S BD  
AA9PC 442 34 13 S AB  
W0AIH 360 10 9 S ABCD9EFGI  
K9DSH 350 23 14 S ABD  
ND9Z 319 24 11 S ABD  
N9UDX 308 19 14 S ABD  
WD9EGE 225 12 9 S ABCD9E  
WA9PWP 88 11 8 S AB  
N9LMU 30 5 5 S ABD  
N9MYK 264 24 11 Q A

**0****Colorado**

**W6OAL** 20,232 206 72 S ABCD9E  
N9VSB 7,520 134 47 S ABD  
K6LS 6,860 157 35 S ABD  
W0ETT 6,716 129 46 S ABD  
K10II 3,699 121 27 S ABD  
N0UGY 2,415 68 21 S ABDEFI  
N0IO 2,350 63 25 S ABCDIJ  
W0TGY 1,403 61 23 S A  
**N0POH** (+K8YRX)  
3,836 115 28 S ABD  
W0TM (+N0KE)  
2,485 63 35 L ABCD

**Iowa**

K0MQS 19,728 274 72 S B  
NE0P 2,368 63 32 S ABD  
N0SPP 1,711 59 29 S ABD  
W0VAN 1,125 38 25 S ABD

**Kansas**

**N0LL** 27,846 191 119 S ABCDE  
N0KQY 14,268 144 87 S ABD  
W0EKZ 11,592 120 72 S ABCDE  
N0LIE 2,442 74 33 S B  
N0KMM 1,798 49 31 S ABCDE  
KB0TJL 1,168 39 22 S ABDE  
AB0AH 406 25 15 S ABD  
**W0BP** (+K0KAN, AA0RI, KB0VER, KB0TSC,  
KB0PGJ, N0YHJ, N0ZMG, N0PVT, N0YRL, ops)  
29,256 196 106 M ABCD9E  
N0YKR 5,280 76 55 M ABCDE  
**K5BZM** (+N5KW, K5CM, N5KK)  
21,930 196 102 L ABCD

**Minnesota**

**W0ZO** 63,100 378 100 S ABCD9E  
W0BWE 49,896 370 81 S ABCD9EFGH  
K0GJX 32,153 271 79 S ABCDE  
K0CRYT 29,536 284 71 S ABDE  
KB0VUK 27,643 279 77 S ABCD  
WB0DJC 24,678 287 54 S ABCD9E  
KB0IKP 17,963 161 71 S ABCDEI  
WA2HF1/0 17,628 209 52 S ABCD9E  
W0AUS 12,464 196 41 S ABCDEIJ  
KB0TZA 11,544 204 37 S ABCD9E  
W0OHU 10,900 168 50 S ABD  
K0APOW 9,460 178 44 S ABCD  
K0AZYD 7,400 130 43 S BD  
W0KKM 7,095 175 33 S ABD  
W0EPZ 6,936 164 34 S ABD

N0ZJW 6,020 157 28 S ABCD  
K0CJ 5,304 126 34 S ABD  
W0FHO 5,115 122 33 S ABD  
KB0PUW 4,760 169 28 S BD  
N0UK 4,577 126 23 S ABCD9E  
KA0NAN 4,532 155 22 S ABCD  
N0CKK 4,225 111 25 S ABCDE  
N0SUO 3,700 111 25 S ABD  
K0GOH 3,198 109 26 S ABD  
KB0PYO 3,060 88 30 S ABCD  
N0SRQ 3,002 66 38 S ABD  
N0OYQ 2,652 77 26 S ABD  
K0FQA 1,648 61 16 S AB9E  
KB0IXL 1,582 111 14 S BD  
KB0LYL 1,504 188 8 S B  
KB0CQ 1,408 88 16 S AB  
K0COP 1,372 64 14 S ABCDE  
N0SBU 1,254 90 11 S ABD  
KB0ZEV 1,157 74 13 S ABCD  
KB0CBT 1,080 90 12 S B  
KB0WAP 1,038 141 6 S BD  
W0GD 819 43 9 S BDE  
W9ZJ 792 38 9 S ABD  
KB0NMN 780 71 10 S BCD  
W0LER 710 50 10 S BD  
N0AAD 644 70 7 S BD  
KB0VCV 552 76 6 S BD  
N0UHV 540 47 9 S ABD  
N0VUQ 539 49 11 S B  
WA0RSE 528 55 8 S ABD  
N0EST 486 69 6 S BD  
N0JCF 460 33 10 S ABCD  
N0OCH 440 36 8 S ABCD  
N0DON 392 42 8 S BD  
WB0SOK 368 40 8 S BD  
WB0JCS 330 41 6 S BD  
KB0RKR 325 65 5 S B  
AB0DE 288 38 6 S BD  
KB0YCC 287 41 7 S B  
W0MXW 282 32 6 S BDE  
WB0SBH 246 26 6 S BDE  
W9SUL 216 41 4 S BD  
K0EN 216 26 6 S BD  
K0CQJ 184 30 4 S BD  
A00SM 184 36 4 S BD  
N0HZN 164 31 4 S BD  
KB0RZW 164 31 4 S BD  
KB0TEH 126 16 6 S ABD  
K0CBNS 96 24 4 S B  
K0WQR 88 17 4 S BD  
KB0TED 80 16 4 S BD  
N0TMQ 77 10 7 S ABD  
KB0WML 64 11 4 S BD  
N0PLJ 30 2 2 S B  
KB0PSS 40 15 2 S BD  
W0HU 30 15 2 S B  
N0MGY 30 9 3 S BD  
W0DM 22 11 2 S B  
N0USG 9 3 3 S AB  
W0HZN 6 2 2 S BD  
K0CBMH 5 5 1 S B  
KB0OFF 2 2 1 S B  
N0PQF 2 2 1 S B  
W0PKA 1 1 1 S B  
W0XTD 1 1 1 S B  
WB0YEE 1 1 1 S B  
N0MWE 1 1 1 S B  
W0DHH 1 1 1 S B  
K0CQJO 1 1 1 S B  
**N0VUR** 44 11 4 Q B  
W0DGP 42 12 3 Q BD  
N0HBS 6 3 2 Q B  
**W0IBM** (K2OP, W6SL, ops)  
2,464 108 16 M ABCDE  
N0BEL (+K0BNS)  
11,648 273 32 L ABCD  
N0HZO (+K0CP)  
68 13 4 L BDE

**Missouri**  
K0WR 12,720 142 80 S ABD  
K0ECT 6,888 115 56 S ABD  
W0JRP 1,705 48 31 S ABCD  
N0IGZ 777 37 21 S AB

**North Dakota**

NTOV 570 28 15 S ABCDE

**Nebraska**

N0WJY 1,300 50 26 S B  
W0HII 640 32 20 S AB  
K07KZ 48 8 6 S A  
N0YNP (+W0DQGM, KB0SME)  
1,078 36 22 M ABCDE

**South Dakota**

W0HHM 2,706 64 33 S ABCD  
W0ULX 220 19 10 S ABD  
**W7XU** (+N0QJM, W0T0EM)  
35,244 267 132 L AB

**Quebec**

VE2JW 3,293 75 37 S ABC  
VE2PHJ 1,720 64 20 Q ABCD

**Ontario**

**VA3ST** 35,192 244 106 S ABCD  
VE3IEY 23,048 198 86 S ABCD9E  
VA3AEC 7,293 156 39 S ABD  
VE3VJR 4,092 13 31 S B  
VE3BDF 3,382 79 38 S ABD  
VE3BFM 3,094 76 34 S ABCD9  
VE3SXE 2,464 77 32 S AB  
VE3TJD 1,728 54 32 S AB  
VE3AJY 1,711 52 29 S ABD  
VE3FGU 1,711 59 29 S B  
VE3VHB 512 32 16 S B  
**VE3TGM** (+VE3DEB)  
14,202 218 54 L ABD  
VA3FIN (+VA3BOJ)  
4,140 102 36 L ABD

**Manitoba**

VE4GLS 420 26 15 S ABD

**Alberta**

VE6NTT 570 32 15 S ABD  
VE6KT 507 29 13 S ABCDE

**British Columbia**

VE7XF 3,300 103 30 S ABD

VE7AGG 2,756 106 26 S AB  
VE7VDX 1,620 72 20 S ABD  
VE7XO 54 9 6 S AB

**Cuba**

**C02OJ** 1,425 57 25 S AB

**Rovers****Atlantic**

**NB3F** 191,840 690 109 ABCD9EFGHIP 11  
W2FU 163,020 659 110 ABCD9EFGHI 8  
KB3PW 90,980 484 70 ABCD9EFGHIP 6  
KA2CKI 80,510 496 83 ABCD9EFGP 6  
W02P 51,894 468 48 ABCD9EP 6  
N2KXS 44,467 386 47 ABCD9EP 6  
K1DS 7,707 217 21 ABCD9E 2  
N3EVV 7,291 198 23 ABCD9E 2  
N1MU (+W52B)  
5,673 88 31 ABD9EH 4  
KB2WEV 2,466 42 18 BDEIP 4  
N3WOE 1,488 105 12 BD 2  
N2MXG 1,440 109 10 BD 2  
K22ZVM/R 1,007 51 15 BC 4  
K2CBKT 344 43 8 B 4  
W3HMS/R 196 6 7 BDI 2

**Central**

**KF9US** 44,536 343 68 ABCD9E 8  
N9REP 23,016 227 84 ABD 13  
N8KWX (+KE9NA)  
21,462 389 42 ABCD 6  
N9YZK 5,452 172 29 BD 6  
K9TMM/R 2,286 127 18 B 4  
N9SFN 1,056 76 12 BD 4  
KB9HAY 252 42 6 B 2  
K9ENZ 72 12 6 B 2

**Dakota**

**N0HJR** 92,864 868 64 ABCD9EFGI 12  
K0CP/R 900 63 10 BDE 2  
KB0TEL 468 62 6 BD 2  
K0CJC/R 336 44 6 BD 2  
W80MLL 156 22 6 BD 2  
WA0VHX (+K0CQJ)  
70 14 5 B 2  
K0PSH 52 13 4 B 2

**Delta**

**KB4NVD** (+N4OFA)  
8,880 122 49 ABD 11

**Great Lakes**

**KA8IFC** 75,834 410 99 ABCD9E 9  
N8ZCA (+N8LGP)  
13,805 250 44 ABC 11  
K8NFT 1,798 51 29 ABD 6  
KF4SXH 510 27 15 BD 7  
KF4ELP 408 27 12 BD 7  
KF4SYU 324 23 12 BD 6  
KB8WZZ/R 144 16 9 B 4  
N3YNI 102 17 6 B 2  
K4ADW 60 12 5 B 3

**Hudson**

**KD2NE** 4,536 158 21 ABCD 4  
K2BX 1,200 80 12 BD 3  
N2OPJ 1,020 72 12 ABD 2  
WA2MMX 912 47 16 ABD 4  
N2LMO 782 26 11 ABCD9EF 4  
KF2A 495 53 9 B 4  
KF2XY 114 14 6 BD9 2

**Midwest**

**K0DAS** 37,524 323 49 ABD9F 10  
WB0RUS 468 26 18 AB 3

**New England**

**K1YX** 144,648 750 118 ABCD9EFG 8  
N1MJD (+N1JEZ)  
46,800 443 64 ABCDE 11  
KJTK 12,012 187 42 ABCD9E 5  
N1QVE (+N1QDO)  
8,052 180 33 ABCDEI 3  
N1SJK 4,675 135 25 ABCDE 5  
N1VRC 1,178 62 19 AB 5

**Northwestern**

**N7WLO** (+K7LK)  
806 57 13 ABD 2

**Pacific**

**K7XC** (+WB7VVD)  
107,616 674 114 ABCDE 21  
KB7POW 9,216 142 48 ABD 10  
N6DPP 2,376 87 22 ABD 2  
KE6BZY 2,134 63 22 ABCDE 2  
KF6HFA 297 26 11 BD 3

**Roanoke**

**WB3AKD** 4,455 145 27 ABD 4  
W7QH 126 18 7 AB 2

**Rocky Mountain**

**N9KC** 5,738 147 38 ABC 5

**Southeastern**

**W3EKT/R** 49,362 359 114 ABCD 4

**Southwestern**

**N6TEB** (+KE8RPY)  
17,484 265 47 ABCDE 7  
N6VHF (+KF0GY)  
15,522 310 39 ABD 6  
K6LMN 9,520 230 35 ABD 4  
N7QJP 6,840 156 36 ABD 3  
AD6AF 1,400 73 14 ABD 4

**West Gulf**

**N5VBK** (+KB5VPR)  
35,784 184 142 ABCDE 11  
AB5SS (+W5DF)  
14,448 175 56 ABCD9E 10  
WA5VKS 6,956 160 37 ABD 10

**Canada**

**VE3OIL** 10,912 182 44 ABCDE 7

**Checklogs**

K5MAT, K0QJA, K0QYSQ (+W0EYFL), K07WGS,  
N2YJY, N3SEQ, N3YXY, N8WTH, N8BYB, WA3JVV,  
WA6ILT, WY2Z.