

# 1999 June VHF QSO Party Results

**VHF/  
UHF**

operators, microwave gurus and weak signal enthusiasts are a rare breed in today's Amateur Radio. Thank goodness we have them.

In many circles, the contesting credo is "loud is good." It is hard to argue with that. Getting "loud" requires tremendous time, energy and planning. Never underestimate the ability of a high power operator. The quest for "loud" presents a set of problems unique to guys who go QRO on the HF bands.

Among VHF/UHF contesters at times the credo may well be "loud is not possible." At frequencies where fractions of dBs can make the difference between completed QSOs and fruitless efforts, at times just being heard becomes the crusade. It comprises a different set of challenges that tax the skills of these dedicated operators. Running low power or QRP on the highest frequencies will test the mettle of even the most experienced operators.

To encourage this challenge the ARRL sponsors a series of annual events in the highest ranges of the amateur spectrum. Always among the most popular is the annual June VHF QSO party. In 1999, 701 log entries were received at Headquarters from across the USA and beyond, including Canada, Mexico, the Bahamas and Cuba for this early summer soirée. This

included 75 rover entries—11% of the total entries received.

Only one overall scoring record fell in the June ARRL VHF QSO party. Congratulations to the Mt. Greylock Expeditionary Force W2SZ/1 on a record-setting multi-operator score of 1,746,602 points. This is

**It is a true team effort to handle the logistics at the W3CCX site on Camelback Mountain.**



Twenty-three antennas and a quarter mile of coax made up the W3SE operating locale.



## Region Box

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)		
K1TEO	378,658	S	W4RX	106,335	S	K9PW	300,040	S	K5IUA	146,664	S	KC6TMB	12,992	Q
K1UHF	220,160	S	K2UOP/8	104,104	S	KE8FD	144,313	S	W8CM	118,030	S	K6LMN	11,956	Q
WA2FGK	203,190	S	N8UM	83,456	S	K8TQK	133,101	S	K0GU	117,832	S	N6JO	11,568	Q
W1QB	45,090	Q	AI4CW	1,508	Q	W9GKA	8,320	Q	WD5AGO	4,600	Q	W6TOI	170,534	M
K1ZE	29,920	Q	W4SKI	1,215	Q	N8XA	6,174	Q	W1XE	253,129	M	W3SE	153,446	M
WB2AMU	3,630	Q				KD4EVB	390	Q	KK5IH	63,008	M	W6MMM	95,892	M
W2SZ/1	1,746,602	M	K8GP	1,214,750	M	W0UC/9	200,618	M	W0KVA	44,577	M	W2ODH/6	376,068	L
W2UTH	1,066,602	M	K4RF	78,400	M	W9ICE	192,240	M				WA7JTM	61,341	L
K3MQH	814,929	M	K4SZ	4,165	M	WW8M	165,981	M				KF7NP	47,520	L
K3YTL	297,306	L	W4IY	252,096	L	VA3AEC	16,905	L	W7XU	249,084	L			
AB2I	129,610	L	AA4ZZ	150,920	L	W8ZNT	11,220	L	W5KFT	148,626	L			
K2BAR	120,032	L	W4COV	28,747	L	KC8AAV	6,039	L	N0UK	97,970	L			
N3IQ	302,341	R	W4VHF	60,701	R	AB4CR	134,656	R	W5DF	66,204	R	N6DN	49,770	R
W3EKT	141,702	R	N4OFA	44,411	R	K8WW	72,726	R	WB5VYE	45,356	R	AL1VE	24,544	R
N1MJD	112,409	R	NK4Q	11,620	R	N4STK	59,254	R	KF0UK	36,660	R	AA7VT	22,540	R

S = Single Operator; M = Multioperator; L = Limited multioperator; Q = QRP

## Top Ten Box and Plaques

### Single Operator Sponsor

K1TEO	378,658	Mt. Greylock Expeditionary Force, W2SZ/1
K9PW	300,040	Mt. Frank Contesters, K9NS
K1UHF	220,160	Ed Parsons, K1TR
WA2FGK (K2LNS,op)	203,190	Wellesley ARS, Mt. Equinox Contest Crew
K1RZ	157,174	N0KQY, W0LD, N0JK, WB0DRL, N0LL
K5IUA	146,664	South Mountain Contest Team, K3MQH
KE8FD	144,313	In Memory of John Chambers W6NLZ by John Butrovich W5UWB
K3DNE	141,115	AB4CR Rover Team
K1GX	136,629	Southeastern VHF Society
K8TQK	133,101	

### QRP Portable

W1QB	45,090	West Coast VHFer
K1ZE	29,920	Robin Gist, K4VU
KC6TMB	12,992	
K6LMN	11,956	
N6JO	11,568	
W9GKA	8,320	
N8XA	6,174	
WD5AGO	4,600	
WB2AMU	3,630	
AC6XK	3,077	



**KB6WKT** supervises deployment of the 432 MHz and 1.2 GHz arrays at the W6TOI site.

also the new record for the New England Division.

K9PW now holds the Central Division single op mark with a score of 300,040, while the operators of K8GP broke the million-point barrier while setting a new Roanoke Division multioperator mark with 1,214,750 points. The Southwestern Division limited multi-operator record now belongs to the operators at W2ODH/6 with their score of 376,068. N3IQ's rover score of 302,241 now stands atop the Atlantic Division while N1MJD once again upped the New England Division rover score, this time breaking the 100k barrier at 112,409.

### A Change for 2000

The year 2000 running of the June ARRL VHF QSO Party will see one sig-

### Multioperator

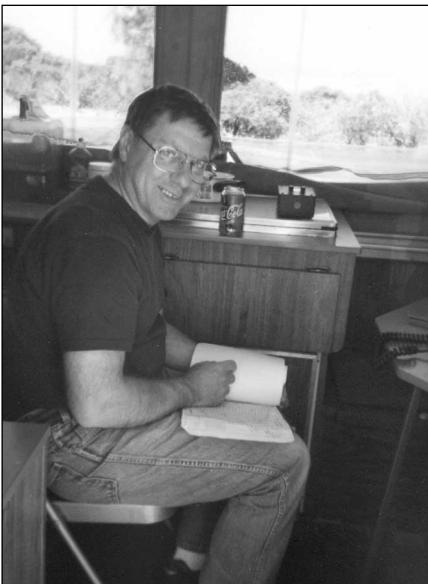
W2SZ/1	1,746,602	Randy Stegemeyer, W7HR
K8GP	1,214,750	N2LIV & Ten-X Group
W2UTH	1,066,602	Mt Airy VHF Club
K3MQH	814,929	Rochester VHF Group
W3CCX	718,537	George Noyes, W1XE
K2TVI	344,469	Schenectady ARA, K2AE
K1WHS	320,024	In Memory of Sid Krauss, WA2VNK
WD3R	263,857	
W1XE	253,129	
W0UC/9	200,618	

### Limited Multioperator

W2ODH/6	376,068	W3EP, K9AKS,W9IP
K3YTL	297,306	K1TEO, W2GKR, W2GKO, KA1FVG
W4IY	252,096	
W7XU	249,084	
AA4ZZ	150,920	
W5KFT	148,626	
AB2I	129,610	
K2BAR	120,032	
WB1GQR	119,992	
W3IP	101,508	

### Rover

N3IQ	302,341	W2SZ/1, in Memory of Dick Goodman, WB1HH
W3EKT	141,702	Wayne King, N2WK
AB4CR	134,656	Northern Lights Radio Society and W0UC
N1MJD	112,409	Southeastern VHF Society
K8WW	72,726	
K3QII	69,687	
W5DF	66,204	
W4VHF	60,701	
N4STK	59,254	
VE3NPB	55,483	



**Dueling section managers:** W6TLK of the SF section on the west coast operated W6MMM (left) while N1KAT of Maine ran on the East Coast (right).

nificant change. Starting in 2000, the single operator category is now split into high power and low power classifications. To qualify as low power, your output cannot exceed 200 W PEP on 50 and 144 MHz, 100 W PEP on 222 and 432 MHz, and 10 W PEP on 902 MHz and above. If you surpass the power limit on any band, your entry is classified as high power. We anticipate some exciting contesting battles between operators in the new power divisions to accompany the continued tough contests in the established categories. Make certain you read the revised "General Rules for ARRL Contests on Band Above 50 MHz" on page 106 in the November issue of *QST*. The rules are also found on the

contest Web page at: <http://www.arrl.org/contests>.

Participants are reminded that for an entry to be complete, you must submit both a completed summary sheet and complete log file. Also, your entry should be legible if done by hand. Take a few moments to send an SASE to the Contest Branch to request forms you need or you can download them from the contest Web page. Incomplete entries are classified as check logs.

In VHF/UHF/microwave contesting, one of the keys is the more bands you operate, the greater your score will be. If you look at the number of bands reported by the top scoring stations, you will see they utilize more bands than the average contesteer.

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## QSO Leaders By Band

<b>Single Operator</b>	<b>144 MHz</b>	<b>222 MHz</b>	<b>432 MHz</b>	<b>902 MHz</b>	<b>1296 MHz</b>		
<b>50 MHz</b>	K1TEO	427	K1TEO	205	K1TEO	41	
N5JHV	467	K1UHF	330	K1UHF	161	K3DNE	27
K5AM	439	K5MA	252	K3DNE	72	K1GX	26
K0GU	406	WA3BZT	244	WA2FGK	72	K1RZ	25
KB2ZVP	375	K9PW	231	(K2LNS,op)	K5MA	WA2FGK	25
N7ML	353	K1GX	224	K5MA	69	K1UHF	41
W5UWB	321	WA2FGK	218	WA2FGK	113	K1RZ	38
K8LEE	300	(K2LNS,op)		(K2LNS,op)	N6HKF	K1UHF	25
				N6HKF	105	K3DNE	34
				K2UOP/8	25	K9PW	34

## Multioperator

<b>50 MHz</b>	<b>144 MHz</b>	<b>222 MHz</b>	<b>432 MHz</b>	<b>902 MHz</b>	<b>1296 MHz</b>
W2SZ/1	744	W2SZ/1	725	W2SZ/1	217
K8GP	674	K3MQH	717	W2UTH	204
W3CCX	610	W3CCX	608	K3MQH	176
K3MQH	589	K8GP	572	K8GP	167
K2TVI	546	W2UTH	463	W2UTH	161
W2ODH/6 - L	499	WD3R	443	W3CCX	249
K3YTL - L	458	W4YI - L	436	K3YTL - L	215
		W4YI - L	122	WW8M	20
				W6MMM	42

-L denotes Limited multioperator

## **Multiplier Leaders By Band**

<b>Single Operator</b>	<b>144 MHz</b>	<b>222 MHz</b>	<b>432 MHz</b>	<b>902 MHz</b>	<b>1296 MHz</b>						
<b>50 MHz</b>	K0MQS	61	KE8FD	36	K1TEO	40	K1TEO	21	K3DNE	20	
K5AM	172	KE8FD	61	K1TEO	35	KE8FD	37	K3DNE	17	KE8FD	20
N5JHV	170	K1TEO	51	K8TQK	34	K4QI	37	K1RZ	16	WA2FGK	19
K0GU	155	K8TQK	51	K3DNE	28	K9PW	36	K9PW	14	(K2LNS,op)	
N7ML	127	N0KQY	50	K1UHF	28	WA2FGK	33	K2UOP/8	14	K8TQK	19
N5WS	122	WB9Z	49	WA2FGK	27	(K2LNS,op)		WA2FGK	14	K1TEO	19
W5UWB	119	K9PW	46	(K2LNS,op)		K3DNE	31	(K2LNS,op)		K1RZ	18
K1TOL	116		K9PW	27	VA3ST	30	KE8FD	13	K4QI	18	
				KA1ZE	30	K8TQK	13				

## Multioperator

<b>50 MHz</b>	<b>144 MHz</b>	<b>222 MHz</b>	<b>432 MHz</b>	<b>902 MHz</b>	<b>1296 MHz</b>
W1XE	175	K8GP	76	K8GP	64
W7XU -L	171	K3MQH	69	K3MQH	52
W5KFT -L	140	W2UTH	59	W2UTH	49
K8GP	128	W4IY -L	59	W4IY -L	43
W20DH/6 -L	124	W3CCX	59	K3YTL -L	38
WØUC/9	123	W7XU -L	58	W9ICE	38
WA7JTM -L	117	W2SZ/1	58	W3CCX	38
				W2SZ/1	38
				W4IY -L	41

-L denotes Limited multioperator

In an attempt to encourage more participation on the higher UHF/microwave bands, the ARRL Technical Information Service has put together a new informational Web page. This page features downloadable information and reprints of articles from *QST*, *QEX* and other ARRL publications. You will also find an up-to-date bibliography and a list of links to sources that sell equipment and parts for UHF/microwave projects. This information will help you as you look for less expensive ways to in-

crease your band totals and QSO points on the higher bands. Thanks to the TIS and Lab guys for their work on this project. The Web site is <http://www.arrl.org/tis/info/uhf-mw.html>

The June 2000 ARRL VHF QSO Party will be held June 10-12. Find a mountain top to try your hand as a QRP portable. Get your club together and plan to participate in the multi-op or limited multi-op class. Get out the grid square maps, overlay them on your road maps and plot out a rover

course that will maximize your efforts. Plan over the winter months how to improve your operation. Visit the TIS website and build a project that will add a band or two to your arsenal of weapons.

When you beat the challenges posed in VHF/UHF/microwave operations, you will feel the same rush you feel in completing the November Sweepstakes "Clean Sweep," or working the rare entity to move up to the DXCC Honor Roll. Being *heard* is good!

## Scores

Each line score lists call sign, score, stations worked, multipliers, hours, number of grids activated (if Rover), and bands (A= 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, I = 10 GHz, J = 24G GHz, K = 47 GHz, P = 300+ GHz). Band leader indicators are listed in boldface type.

**Eastern New York**

W3HHN	18,247	208	71	S	ABCD9E
W2FCA	17,787	152	77	S	ABCDE
K2ZZ	13,965	248	49	S	ABD
WG2E	5,950	170	35	S	A
W2LGB	4,288	108	32	S	ABCD
K2LEG	2,805	85	33	S	AB
N2TMT	2,584	136	19	S	A
W2ENY	2,352	84	28	S	AB
W2KHQ	1,368	48	24	S	ABDE
K2RI	240	19	8	S	BCD
KC2ECW	120	30	4	S	BC
K2TVI (+K2ZVI,KC2EBH,N2DH,N2DVQ,N2FMC, N2GKM,N2HTT,N2NWZ,N2GDY,WB2NHC, WB2VS,N3EMF)	344,469	1274	199	M	ABCD9EFGHI
AB2I (+K2ZVI,KB2SSS,N2ZBP,W2AWX,W2AII, WB2DVC,W2CJ,WN2Y)	129,610	833	130	L	ABDE

**NYC-Long Island**

K2OVS	21,868	270	71	S	ABD
WA2ZFH	20,945	232	59	S	ABCDE
WB2CMI	7,350	123	50	S	ABCD
NB2T	5,538	146	26	S	BCD
KF2XF	2,244	132	17	S	B
WV2C	264	22	12	S	AB
WB2AMU	3,630	103	33	Q	ABD

**Northern New Jersey**

WB2VVV	75,168	432	108	S	ABCD9EGF
K2KIB	31,652	288	82	S	ABCDE
K2SIX	14,045	231	53	S	ABD
WB2CUT	4,370	190	23	S	B
N2CSF	3,584	111	32	S	ABD
N2LMS	2,210	110	17	S	ABD
K2OEI	1,536	96	16	S	B
KE3PL	1,330	70	19	S	A
K2YSY	648	36	18	S	AB
WA2BTR	585	40	13	S	BD
WA2BNK	444	37	12	S	AB
WA2ASQ	190	10	9	S	A
WD3R (+N2WMM,K2BJG,KB2LH,KB2YJT, KC2LDL,N2HMM,WB2UF,AD2P,K2BM)	263,857	1105	187	M	ABCD9EF
K2BZVP (+W2WQH,W2JEK,KM2AL,N2ST, N2PBY,KF2OKJ,K2YLH,WU2KC,KB2YJG, KA2NJU,KO2OKM,WK2M,W2MSK,NA2AA, WA2LXE,KC2HL,WB2HID,WB2ZSE,W1Gl,ops)	120,032	763	124	L	ABCD
N2XR (+WA2EDD,W2AEV)	26,048	363	64	L	ABD
KC2CTF (+W2DEN,KC2COB,N2XYO,KC2EIQ)	1,334	48	23	L	BD

**Northern New York**

KB2ZZP	40,125	375	107	S	A
WA2AEY	15,040	166	80	S	ABD
K3KYM	4,922	107	46	S	AB
WB2KLD	3,024	69	36	S	ABD
W2NNY (W2IB,N2TW,KC2BEZ,ops)	7,280	134	52	L	ABD

**Southern New Jersey**

KD2KS	34,200	353	75	S	ABCD
N2SCJ	31,785	342	65	S	ABCDE
K1JT	19,825	284	61	S	ABD
W2SJ	6,987	76	51	S	ABCD9EGF

**Western New York**

K2AN	39,895	225	101	S	ABCD9EF
W2EV	30,765	195	105	S	ABCDE
N2ODU	22,923	283	81	S	A
W2DYY	4,356	68	44	S	ABDEF
W2WGL	2,343	57	33	S	BD
KB2YVC	1,625	65	25	S	A
W2UTH (+AA2WZK,KB2DB,KD2H,KC2RDO, KB2DMK,N2KG,N2HTL,N2JQR,N2WK,N2YB, NS9E,VE3IEY,W3OAB,ops)	1,066,602	1693	354	M	ABCD9EFGHIJ
WA2AAZ (+N2MKT,N5THV,KC2DLK,N2JC,ops)	8,410	118	58	M	ABCD
N2JH (+AB2GF,KB2OAZ,KC2DXS,WA3MKT, N2LXL,KC2ELD,K2ITE,KB2YIN)	61,963	365	131	L	ABCD
KB2SGX (+K2G2N,F2JV2)	7,729	112	59	L	ABCD

**Delaware**

W3OR	15,225	121	87	S	ABCD9E
WA3BZT	8,296	244	34	S	B

**Eastern Pennsylvania**

WA2FGK	203,190	668	195	S	ABCD9EFG
N3NGE	52,074	314	99	S	ABCD9EF
K3GN	42,370	325	95	S	ABCD
W3SZ	15,360	176	60	S	BCDEF
KB3IB	9,480	107	60	S	ABCD9E
WS3C	9,024	150	48	S	ABD
N3KJX	4,520	91	40	S	ABCD
W3ZON	2,407	71	29	S	ABCD
N3TBB	1,750	70	25	S	AB
N3JNX	1,680	50	28	S	ABD
K3NAT	1,541	62	23	S	ABCD
WA3UGP	1,210	43	22	S	ABCD
N3JIX	714	42	17	S	AB
K3ARR	666	37	18	S	A
WA3CSP	612	36	17	S	A
K3URT	462	38	11	S	ABD
KK3K	455	24	13	S	BDE
WT3P	324	27	12	S	A
K3KEL	210	12	10	S	ABD
KD3KZ	180	19	9	S	ABD
KC3LE	120	15	8	S	A
W8IJ	1	1	1	Q	A
K3MQH (+K3RA,K3MM,K3NTV,A13M,W2GG, N3EYB,W3SST,W6HWZ)	814,929	1858	323	M	ABCD9EFGHI

W3CCX (WA1YHO,AA3GN,WA3DRC,N3ITT, N3OZO,W3GAD,K1DS,N3EVQ,W3RJW, W2SKS,KB3XG,W3ARLT,WA3NUF,N3FUJ, W3K,NE3L,ops)	718,537	1778	283	M	ABCD9EFGHIJ
K3TL (KA3EEO,KA3ZHT,KB3QL,KC3OA,N1TOP, N3FA,N3PBH,N3TD,E3TK,N3KRN,W3DZH, WA1HHN,W41MK,EWA3NVS,WB3FKQ,UA1LD, ops)	297,306	1186	199	L	ABCD
W3H2U (N3JDQ,N3ZCW,WB3CON,AD3E, KB3DBT,KB3DPF,N3NB,T,N3RBT, N3RB,ops)	22,445	312	67	L	ABD
KA3YZD (+KB3FA7)	12,624	220	48	L	ABCDE

KF4KSN	560	34	16	S	ABD
N4BP	264	33	8	S	AB
<b>Tennessee</b>					
N8UM	83,456	408	163	S	ABCD9E
NS4W	27,140	225	92	S	ABCD
KD4HK	17,091	178	81	S	ABCD
AD4F	4,056	83	39	S	ABCD
WB4ZUG	2,263	61	31	S	ABD
AB6DY	1,320	56	22	S	ABD
KG4BMH	1,197	57	51	S	B
KC5RCZ	336	37	8	S	BD
KC8MH	300	25	12	S	AB

<b>Virginia</b>					
W4RX	106,335	582	153	S	ABCDE
K4RTS	32,218	228	89	S	ABCD9E
N4MM	15,372	222	61	S	ABD
KN4SM	13,321	141	77	S	ABD
K4FTO	8,722	139	49	S	ABCD
N4CH	6,987	137	51	S	A
KC4AU	5,040	98	40	S	ABCD
AD4TJ	3,663	111	33	S	AB
K4SO	2,599	113	23	S	B
K4FWJ	1,075	43	25	S	AB
N3RC	1,045	52	19	S	ABD
K4ME	480	32	15	S	B
W2YE	180	20	9	S	A
W4IY (+W4CE,KA4RRU,W4DC,W4NF,K0RI,	24,700	100	80	M	ABCD9EFGHI
W4RM,W4ADY,W4AD,K4RG,N4DXS,KG4DFJ)	252,096	983	200	L	ABCD
W4COV (WA4PGI,AD4HG,KF4MU,KK4IY,	252,096	983	202	L	ABCD
KI4BH,KG4AFQ,KC4ZTE,KE4DDM,K4EUUH,	252,096	983	204	L	ABCD
KN4FT,VE2HX,KG4DQD,KF4YLM,KQ4NW,	252,096	983	206	L	ABCD
KG4BU (KA4BU,KB4TQS,WA4UVA,ops)	28,747	292	89	L	ABDE

<b>5</b>					
<b>Arkansas</b>					
W5HUQ	16,300	147	100	S	ABCDE
W5ZN	12,225	93	75	S	ABCD9EFGHI
N5FAC	2,457	47	39	S	BD
KC5QY	403	13	13	S	ABCD9EFGHI
KB5YIQ	403	13	13	S	ABCD9EFGHI
<b>Louisiana</b>					
K5JRC	1,518	46	33	S	A
K5MLW	42	7	6	S	A
N3AWS	16	4	4	S	A
<b>New Mexico</b>					
K5AM	99,800	484	200	S	ABCD
N5JHV	85,084	478	178	S	AB
K9RU	44,408	296	122	S	ABCD
K5RHR	27,615	227	105	S	ABCD
N5ZM	9,515	124	55	S	ABCD9E
W5DO	3,015	64	45	S	ABD
W5FF	1,995	57	35	S	A
KB5ZSK	1,476	58	18	S	ABCD
K5TEE	957	56	11	S	BCD
WB5YYX	480	26	15	S	ABD
<b>Mississippi</b>					
W8CM	118,030	491	185	S	ABCD9E
W5XSD	35,501	240	131	S	ABCD
W5DK	16,562	182	91	S	A
K5LOW	14,013	150	81	S	ABD
N5J	10,608	146	68	S	ABD
WA5BU (N5HVO,KD5ANZ,ops)	8,064	125	63	L	ABD
<b>North Texas</b>					
K5IIU	146,664	482	216	S	ABCD9EFG
N5WS	83,544	379	177	S	ABCD9E
W5UBW	66,096	395	153	S	ABCD
N5HHS	62,777	406	143	S	ABD
W3XO	61,230	338	157	S	ABCD9E

KF6CNV	567	63	9	S	B
W6TE (+NE6XP,K6ML,N1VM,WAGLUT)					
34,944	260	91	M	ABCD9EI	
WA6SEK (+K6CG,W6RMR,KE6ZQN,KC6TTZ, KF6CDR)	17,516	208	58	M	ABCDE
<b>Sacramento Valley</b>					
N6KBX	40,255	281	97	S	ABCDE
WB6NTL	32,164	250	86	S	ABDE
KC6ZWT	20,246	254	53	S	BCD
KD6VNQ	7,380	139	45	S	ABC
N6YBZ	3,458	102	26	S	ABCD
N2ZN	2,387	53	31	S	ABCDE
W6YM (+K6FEE,K6KLY)					
73,472	466	112	M	ABCDE	
KC6TEU (+WA6TMJ,WA5YWC)	55,080	394	102	M	ABCDE
<b>7 Arizona</b>					
W7CS	41,985	299	135	S	ABE
AA7A	36,600	285	120	S	ABD
KE7FC	35,500	247	125	S	ABCDE
K1SC	7,260	121	60	S	A
N7SKT	7,040	100	64	S	ABD
KD7AHO	3,870	80	45	S	ABCD
WB4LDS	3,569	79	43	S	ABD
WB7OHF	2,581	81	29	S	ABCD
NX7U	1,664	59	26	S	ABD
KF7JS	936	32	24	S	ABD
WTGZ	740	28	20	S	ABCD
WA7VHF	2,378	72	29	Q	ABD
WA9TJKK (+N6QIX)					
3,920	93	35	M	ABCDE	
WA7JTM (+N7AMA,WW7B)	61,341	347	161	L	ABCD
KF7NP (+N8U8I,KE7OT)	47,520	323	132	L	ABCD
<b>Eastern Washington</b>					
N7AU	21,755	190	95	S	ABCDE
KC7VNA	7,645	93	55	S	ABCD9E
WTJHS	2,664	58	37	S	ABD
W6LPL	50	10	5	S	B
K7XW (+W7FH1,KC7OYY)					
31,200	224	100	M	ABCDE9E	
<b>Idaho</b>					
KC7IJ	14,532	173	84	S	AB
N7EIJ	9,088	131	64	S	ABD
KJ7TH	3,030	79	30	S	ABDE
KAT7GU	2,240	57	35	S	ABD
WT7ID	2,205	57	35	S	ABD
K7MAC	1,377	51	27	S	AB
KO7IP	1,302	42	31	S	AB
<b>Montana</b>					
N7ML	44,831	353	127	S	A
K7KX (+K7CW)	45,195	342	131	L	ABD
<b>Nevada</b>					
K7ICW	32,967	247	111	S	ABCDE
N7LQ (+K7UI,KB7UIF,AE7I)	83,304	386	178	M	ABCDE
NW7O (+W7TVF)	13,485	146	87	M	ABD
W7KK (+K7XC,W6IFW)	47,158	297	146	L	ABCD
<b>Oregon</b>					
W7EW	27,048	264	92	S	ABCD
N7DB	13,804	187	68	S	ABCD
WTDSA	5,590	107	43	S	ABCD
WA7TDU	2,006	59	34	S	A
K7HSJ	1,782	58	27	S	ABCD
KC7QIK	1,224	59	18	S	ABD
K7ATEXM	140	20	7	Q	AB
WT7Y (+WB6FFC,W5HVK)					
11,277	151	63	L	ABDE	
K7TM (+N7LKA)					
8,684	147	52	L	ABD	
K7ZZZ (K17WB,K9QAM,K7SQ,K4XU,ops)					
6,120	90	68	L	AB	
WT7QH (+W7IK)					
4,797	103	39	L	ABCD	
<b>Utah</b>					
NJ7A	1,932	55	23	S	ABCD9E
K7LNP	1,554	47	21	S	ABCD9E
N7MLD	260	20	13	S	AB
KK7IG (+K7LNP,NJ7A)					
11,025	161	63	L	ABCD	
<b>Western Washington</b>					
K7ND	36,828	278	93	S	ABCD9E
KE7SW	33,432	263	84	S	ABCD9EGH
K7XD	20,325	230	75	S	ABCD
NASL	3,808	106	34	S	ABD
W3JPT	3,562	125	26	S	ABD
KD7DLV	1,207	61	17	S	ABD
WA7SKT	735	35	21	S	AB
<b>8 Michigan</b>					
K8MD	74,443	376	151	S	ABCD9E
K2YAZ	63,665	305	145	S	ABCD9EF
K8BO	25,290	231	90	S	ABD
W8CO	11,880	216	55	S	A
KC8JTK	5,376	113	42	S	ABC
N8ZVB	3,478	94	37	S	AB
KBPWN	2,136	61	24	S	BDE
N8IA	1,440	46	30	S	ABD
WA8YLZ	81	9	9	S	A
WW8M (+K8DAZ,NE8I,WA8VPD)					
165,981	451	183	M	ABCD9EFHJK	
W8ZNT (+N8DMG,KG8IE)	11,220	188	55	L	ABD
<b>Kansas</b>					
K8CAD (WB8WIV,WA8MIL,KI8AU,N8NJA, WB8JLO,KB8K8,WA8LT,ops)					
5,800	104	50	L	ABD	
<b>Ohio</b>					
K8FD	144,313	433	221	S	ABCD9EF
K8TQK	133,101	406	207	S	ABCD9EFG
WA8RJF	55,675	264	131	S	ABCD9EFGH
K8MR	11,709	171	69	S	AB
WB8AUK	11,151	133	63	S	ABCD
KC8CSD	6,552	91	56	S	ABCD
W8CAR	2,870	82	35	S	AB
K8BTJX	2,475	53	33	S	ABCD
WA8RCN	850	50	17	S	AB
KC8CFI	629	27	17	S	BD
N8VEA	580	27	20	S	ABD
W8WG	126	14	9	S	AB
N8XA	6,174	89	49	S	ABCD9E
N8ZM (+W8PLZ,KD8FO,N8IDS,N8XKH)					
48,375	307	125	M	ABCD	
KC8AAV (N8MVK,N8UVJM,N8CKP,W8LXC, KB8UUQ,KA8LKG,KI8GL,KC8HXQ,N8TRK, WD8LWC,WA8EBE,KB8PYU,KC8HKL,ops)					
6,039	91	61	L	ABD	
<b>West Virginia</b>					
K2UOP/B	104,104	432	154	S	ABCD9EF
W4EUH	30,972	270	87	S	ABCD
N9XUR	16,434	209	66	S	ABCD9E
K8JC	5,720	77	52	S	ABCD
K8KFJ	2,196	61	36	S	A
W8PT	1,148	41	28	S	A
K8GP (K1RA,K1HTV,K1ATB,K3SX,W3ZZ,N4UK, W4XP,KGLEW,KB8KJ,ops)					
1,214,750	1895	430	M	ABCD9EFHJK	
<b>9 Illinois</b>					
K9PW	300,040	784	260	S	ABCD9EFGHI
N2BJ	101,970	454	165	S	ABCD9E
K2DRH	75,524	389	158	S	ABCD
N9GHI	26,036	197	92	S	ABCD
WB9ZQ	20,661	210	97	S	ABD
KA9CFD	9,520	102	80	S	ABCD
N9TF	9,360	145	52	S	ABCD
K9YR	6,336	118	48	S	ABCD
W9XJN	4,290	111	30	S	BCD
WS9V	1,470	49	30	S	A
KB9MLA	1,240	62	20	S	AB
W9S9	1,188	54	22	S	AB
WS9E	884	34	26	S	A
N9HET	810	45	18	S	B
N9TZD	720	30	24	S	AB
W9SZ	286	17	13	S	BD
W9GKA	8,320	114	65	Q	ABCD
<b>North Dakota</b>					
K0ND	(WB0VH,WB0OAJ,KC0BVL,ops)				
32,634	250	126	L	ABCD	
<b>Missouri</b>					
W0JRP	3,264	64	51	S	AB
KAOGGI	1,953	54	31	S	BD
<b>North Dakota</b>					
K0ND	(WB0VH,WB0OAJ,KC0BVL,ops)				
32,634	250	126	L	ABCD	
<b>Nebraska</b>					
K0ABA	4,752	92	48	S	ABD
AE0G	1,080	40	27	S	AB
KC7KDZ	416	26	16	S	AB
W0FRN (+N1EKV)					
962	37	26	L	AB	
<b>South Dakota</b>					
WB0ULX	3,060	63	45	S	ABCD
WB0HMH	3,024	60	36	S	ABCD
W0G	375	20	15	S	ABD
KI0BV	104	13	8	S	A
W7XU (+W0DT,W0SD,W0DB)					
249,084	690	306	L	ABCD	
<b>Quebec</b>					
VE2PIJ	13,068	154	66	S	ABCD
VE2XX	5,499	81	47	S	ABCD
VE2ZP	1,508	52	29	S	AB
VE2SHW	48	24	2	S	B
VE2CUA (VE2HFVX,VA2JWR,ops)					
1,020	40	20	L	ABCD	
<b>Ontario</b>					
VA3ST	39,183	246	111	S	ABCD
VE3OJN	14,399	135	77	S	ABCD EIP
VA3FIN	10,855	122	65	S	ABCD
VE3DBF	8,745	125	53	S	ABDE
VE3FHU	7,714	104	58	S	ABCD E
VE3SXE	5,376	112	48	S	AB
VE3BFM	1,682	40	29	S	ABCD9
VE3RM	1,431	53	27	S	A
VE3CWJ	713	26	23	S	ABCD
VA3AEC (+VE3TMG)					
16,905	183	69	L	ABCD	
<b>Alberta</b>					
VE6JW (+VE6MK,VE6LDX,VE6JY)					
9,990	147	54	L	ABDI	
VE6LDN (+VE6EKP)					
4,048	81	46	L	ABD	
<b>British Columbia</b>					
VE7DXG	14,795	228	55	S	ABD
VE7SKA	6,594	145	42	S	ABD
VE7AGG	6,068	148	41	S	AB
VE7VDX	4,116	130	28	S	ABD
VE4AKX	1,924	50	37	S	ABD
<b>Bahamas</b>					
C6AKL (WB8XX,op)					
25	5	5	S	A	
<b>Cuba</b>					
CO0VHF (CO2WF,CO2CW,CO2KK,CM2CE, CM2KL,ops)					
2,499	146	17	L	ABD	
<b>Mexico</b>					
XE2/N6XQ	37,324	330	86	S	ABCD
XE2HWB	640	37	16	S	ABD
XE2/NF6L (+K6FQ,N6MU)					
11,096	152	73	M	AB	
<b>Rovers</b>					
<b>Atlantic</b>					
W2FU	174,903	574	173	R	6 ABCD9EFGH
W3EKT (+K4JXD)					
147,610	729	145	R	4 ABCD9E	
KA2CKI (+KV2X)					
59,052	366	111	R	6 ABCD9EFG	
K3QII (+W3KE)					
6,594	96	42	R	4 ABCD9E	
N2JVJ (+KB2SGX)					
2,546	65	38	R	4 ABD	
K8MR/R	414	23	18	R	6 B
N3ZYL	407	18	11	R	6 BDE
<b>Central</b>					
WB8SNR	57,152	299	94	R	8 ABCD9EFGH
K9JK (+AA5UK)					
51,920	273	118	R	8 ABCD9EFGH	
N9GH	40,480	292	88	R	6 ABCDE
N9KS	13,500	180	75	R	8 AB
N9RLA (+N9RMJ)					
6,200	111	50	R	2 ABD	
<b>Dakota</b>					
N0BEL (+KB0NES)					
3,848	84	37	R	4 ABCDE	
<b>Checklogs:</b>					
YC2OK, KB8CCD, VE3IQ, K6NTZ, N5WDZ, W1PC, K5MAT, T1SKD, N1ZUK, W3RJW (WB3KRW,op), NE1S, K6PNE, W3EP, K0PG, KC5YOV, K3PG, K2SZ, N3TZ, VE1ZJ, WA4OFS, N1NJB					