

Contesting as Performance Art— The 1998 Phone Sweepstakes

What comes to mind when you think of "performance art?" A theatrical piece mixing dance with gymnastics and circus acrobatics? A happening that uses slides, video, props, wigs and music in conjunction with the reading of poems and prose? How about 5,200 people throughout the US, Canada, the Caribbean and parts of the Pacific trying to exchange some numbers and letters with each other by shouting into a microphone for 24 out of 30 hours?

Performance art stresses spontaneity,

evanescence, and originality; and often exhibits a keen sense of absurdity. Each Sweepstakes QSO is spontaneous, radio communications are ephemeral and, since dopes are not permitted, each QSO is original. Old Sol contributed to the sense of the

absurd with a dramatic outburst at about 1620Z Sunday that caused 10, 15 and 20 meters to become absurdly quiet.

From the Internet's *Free Concise Encyclopedia*: "All performance art shares two elements: First, the various parts of the performance function disharmoniously; second it must be performed live." I would call 20 meters during the phone Sweepstakes live and disharmonious!

To further quote from the *Encyclopedia*, "Often performance art includes audience participation." Contesting certainly requires audience participation. In fact, the guy with the biggest overall audience is the winner! The award-winning contest is a performance artist. He knows where to perform (what band) and when (off-time strategy). He tailors his performance to the audience. It's a different audience on 10 meters late Sunday morning than was present on 15 meters early Saturday afternoon.

Not all performances must be winners to be enjoyed and appreciated. There is an elite group that measures success by the ability to achieve a Clean Sweep (working all 79 US and Canadian sections) with just 79 QSOs! The 79ers during the 1998 phone Sweepstakes included K9CAN, K8BL, WB2ZTH, K4UK, K6CT, W3DA, K4BNC and N2BIM. More tried, but were not perfect in their performance. They were booed off the stage by the log checkers. An attempt such as this is not a performance art decision to be made lightly. If everyone

Top Ten Phone

Single Operator, QRP		Single Operator, High Power	
N7VY	135,252	WP3R	410,326
W7YAQ	122,304	(KE3Q,op)	
N4RZ	106,548	WP2Z	348,390
K0RI	103,964	(K8MJZ,op)	
K7MM	102,858	VE7SZ	333,854
K3CR	90,376	(VE7NTT,op)	
(KB3AFT,op)		VE6JY	327,692
NE6I	86,424	(VE5MX,op)	
(at N6NB)		KH7R	327,218
KX9X	80,738	(KH6ND,op)	
K1VUT	75,840	N7TR	323,268
K2FF	75,840	K6LL	321,688
		N7ML	311,576
Single Operator, Low Power		W6GO	309,048
VE4GV	266,072	(N6IG,op)	
K4WX	230,680	W0SD	308,574
K7UP	228,310	(WD0T,op)	
(W5FX,op)		Multioperator	
K5KA	222,464	KW8N	287,718
W4OC	218,672	K8CC	272,708
VE5SF	215,986	KT0R	263,640
K6LA	198,764	K5NZ	257,856
W8MJ	196,394	N6RO	251,694
N0AT	193,392	W5WW	251,378
(N0KK,op)		W6EEN	250,272
VE6JO	193,234	W3GH	247,270
		KY2J	238,896
		K6AW	238,836

Top 10 CW

When transferring data from the November Sweepstakes CW results, a character mismatch occurred. As a result, call signs containing the numeral "0" were not updated in the master Sweepstakes database. We are reprinting the corrected CW Sweepstakes Top Ten Box. The complete corrected CW Sweepstakes scores may be found on-line at the Contest Branch home page at <http://www.arrl.org/contests>.

Single Operator, QRP		Single Operator, High Power	
W4PA	125,736	K1TO	240,792
KG5U	120,588	WP3R	232,260
K1TR	117,936	(KE3Q,op)	
N6MU	116,220	W5WMU	232,102
(at N6NB)		(N6TR,op)	
N0AX	109,802	K5GN	222,938
N9C1Q	107,124	(at W5KU)	
K3CR	106,080	N2IC	221,674
(KB3AFT,op)		N5KO	216,618
W1MJ	101,556	N0NI	216,302
(at K1TTT)		(AG9A,op)	
AC5K	97,636	W4AN	214,722
W8RU	95,004	(K4BAI,op)	
		N2NT	213,616
Single Operator, Low Power		(N2NC,op)	
N5TJ	208,244	WX0B	212,194
K0EU	190,390	(K5GA,op)	
K4WX	180,804	Multioperator	
K6LA	170,352	K4OJ	202,398
K7UP	169,884	K0RF	201,552
KY7M	164,162	K2TW	179,014
K9IG	159,580	W2PV	177,750
N0NR	158,474	K07X	177,528
K9TM	157,248	K4LT	171,904
NA4K	157,248	W3GH	169,218
		W4MYA	166,690
		K0VBU	166,532
		W2RE	163,688

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)			
K3CR (KB3AFT,op)	90,376	Q	K2FF	75,840	Q	N4RZ	106,548	Q	K0RI		
K1VUT	75,480	Q	K5IID	71,916	Q	KX9X	80,738	Q	103,964	Q	
W1EAT	64,064	Q	W5JAY	66,150	Q	WA8RJF	53,246	Q	K5ED	57,084	Q
K2WK	51,034	Q	W4DEC	21,580	Q	N9DHX	34,164	Q	W0UR	56,940	Q
WA3DUR	47,268	Q	N4DD	14,560	Q	N9CIQ	30,360	Q	WA8ZBT	48,516	Q
K1HTV	188,336	A	K4WX	230,680	A	W8MJ	196,394	A	K6IL	47,158	Q
K21M	183,280	A	W4OC	218,672	A	A9JC	191,100	A	K7QQ	198,764	A
WA1LJD	176,170	A	K5OY (at AB5SE)	166,296	A	K9KA	177,592	A	K7MM	193,234	A
WA3HAE	147,572	A	KD3GC	148,302	A	K9UIY (at WB9Z)	135,564	A	W6LPW	188,020	A
K1PY	134,134	A	WO4O	135,406	A	N9VVV	133,224	A	VE6JY (VE5MX,op)	178,856	A
KQ2M	273,814	B	WP3R (KE3Q,op)	410,326	B	WB9Z	234,468	B	VE6SS	193,392	A
K3MM	269,074	B	WP2Z (K8MJZ,op)	348,390	B	K9BGL	233,050	B	W0GG	193,234	A
WB1GQR (W1SJ,op)	238,992	B	WC4E(K9PG, op)	294,986	B	W0CG	181,068	B	K7XU/7	188,020	A
K3ZO	236,684	B	K4VUD	254,538	B	K9PW	174,906	B	K6RO	176,124	A
W2RE	230,680	B	W5XX	254,380	B	KE8GG	168,744	B	K7CF	176,124	A
W3GH	247,270	M	NP2E	205,874	M	KW8N	287,718	M	KT0R	263,640	M
KY2J	238,896	M	WD4AHZ	202,398	M	K8CC	272,708	M	K5NZ	257,856	M
K11G	212,668	M	K8WT	185,808	M	W0AIH	222,780	M	W5WW	251,378	M
K2NNY	187,512	M	W4CAT	148,362	M	KE9I	207,454	M	K0RWL	237,158	M
K2KV	183,280	M	KG5VK	148,046	M	KG8CW	192,760	M	K6NO	235,716	M

(Q = QRP, A = Low Power, B = High Power, M = Multioperator)

tried this at once, it wouldn't be fun for anybody.

Not all participants even realize they are performance artists. Take Brian, ND3F. Operating 75 meters at N3IQ, Brian describes his piece of contesting performance art: "A station called me, and gave the full

exchange with the serial number 001. We completed and logged the contact. He then informed me that he was the net control for a net that normally used the frequency that I was on, and that the net started in about a half-hour. He asked that I keep the frequency open for them until the time for the net to start.

"I ran the frequency for another half hour, picking up some 40 stations during the period and, when the moment arrived, I gladly gave up the frequency to the friendly, skilled net control. He thanked us, and said he thought the net business would take about 10 minutes at which time we could have the frequency back if we wanted!"

In the more traditional performance of the art of contesting, Rich, KE3Q, using WP3R as his stage, took the *Hiram* (my hypothetical Oscar!) for Best Performance by a Single Operator in a High Power Role. Rich's total audience of 2597 included one from each section for a sweep. Rich made his Caribbean-theme Sweepstakes performances a resounding success (Rich was number 2 overall in CW at WP3R).

Following Rich in both the both overall and in the Southeast Region with the Hiram for Best Supporting Operator in a High Power Role was Stan, K8MJZ headlining the renowned WP2Z Windward Theater to number 2. In a venue about as far away as possible from Rich and Stan, Gary, VE7NTT, using the facilities at VE7SZ was number 3 overall and got top billing in the West Coast Region.

Todd, VE5MX, did a limited engagement at VE6JY for number 4 while Mike, KH6ND, played a one nighter at KH7R for number 5. The lower 48 didn't break into the Top Ten High Power Box until the number 6 spot which was taken by Rich, N7TR, with Dave, K6LL, hot on Rich's heels at number 7. Craig, N7ML was number 8 with Jim, N6IG, at the venerable antenna playhouse of W6GO, number 9. Todd, WD0T, playing W0SD at number 10, was the eastern-most Top Ten finisher (outside of the Caribbean) and took a bow as the Midwest Region leader. Headliners east of the Mississippi were KQ2M in the Northeast Region and WB9Z in the Central Region.

The Hiram for Best Performance by a Single Operator in a Low Power Role went to Bob, VE4GV, in the Midwest Region. When the final curtain fell the number 2 position

was held by Ed, K4WX, the Southeast Region leader. Also in the spotlight at number 3 was Mike, W5FX, on stage at K7UP. Ken, K5KA finished 4th ahead of W4OC, number 5. Four of the top five finishers hailed from the Midwest Region.

VE5SF was number 6 overall while Ken, K6LA, operating from a QTH in the shadows of Hollywood, was number 7. Ken, W8MJ, got a standing ovation for his Central Region performance, good for number 8 overall. Kirk, N0KK, operating at N0AT got rave reviews for his number 9 finish. Just behind was Vitaly, VE6JO rounding out the Low Power Top Ten. While no one from the Northeast Region made the Top Ten box, the closest was Rich, K1HTV.

Playing the most intimate of venues, the coffee house circuit, the Hiram for Best Performance by a Single Operator in a QRP Power Role goes to Gordon, N7VY, whose shtick brought down the house from the West Coast. Playing second fiddle overall—and in the region—was Bob, W7YAO. Out of the Central Region came Fred, N4RZ, in the third spot. Fourth was Larry, K0RI, who stole the show in the Midwest Region. Dan, K7MM, at number 5 gave the West Coast three of the top-five kudos. The only two Northeast Region Top Ten performances by single ops were credited to Jim, KB3AFT, at K3CR at number 6 and Dave, K1VUT, at number 9. Scott, N6MI took his show on the road to N6NB for number 7. Sean, KX9X got an audience share good for number 8. Tied for number 9 and rounding out the Top Ten was Glenn, K2FF, the Southeast Region leader.

The Hiram for Best Multioperator Performance was grabbed by the Central Region leading crew at KW8N, followed by the group at K8CC. The repertoire company at KT0R was number 3 overall and number 1 in the Midwest Region followed by the gang at K5NZ. West Coast Region bows were taken by the crowd at number 5 N6RO. The mob at W5WW was number 6. Appearing in the number 7 slot were the actors at W6EEN. The number 8 slot was held by those outrageous guys at W3GH, the Northeast Region conquerors. The horde at KY2J was ninth with the cast of K6AW taking the last spot in the coveted multi-op Top Ten box. Not to be forgotten were the efforts of NP2E's cast, who garnered the biggest audience in the Southeast Region.

Affiliated Club Competition

	Score	Entries
Unlimited Category		
Potomac Valley Radio Club	11,953,728	149
Northern California Contest Club	9,742,508	103
Society of Midwest Contesters	6,624,648	76
Yankee Clipper Contest Club	5,554,448	82
Minnesota Wireless Assn	4,924,488	65
Medium Category		
Southern California Contest Club	4,982,582	42
Frankford Radio Club	4,194,260	49
Tennessee Contest Group	3,397,098	36
North Texas Contest Club	3,090,736	34
Mad River Radio Club	2,829,042	33
Florida Contest Group	2,660,742	26
Texas DX Society	2,288,000	22
North Coast Contesters	2,009,490	26
Rochester (NY) DX Assn	1,626,758	25
South East Contest Club	1,530,624	14
Western Washington DX Club	1,424,898	20
Kentucky Contest Group	1,190,522	21
Oklahoma DX Assn	1,162,556	10
Central Texas DX and Contest Club	1,100,308	10
Mile High DX Assn	975,150	11
Salt City DX Assn	967,956	7
Kansas City DX Club	840,160	9
Grand Mesa Contesters	835,164	13
Central Arizona DX Assn	798,052	8
Radio Amateurs of Northern Vermont	652,428	7
Woodbridge Wireless	646,174	14
South Jersey Radio Assn	558,312	21
Motor City Radio Club	540,308	17
AK-SAR-BEN	539,234	13
Rip Van Winkle ARS	538,900	10
Weekend Warriors	535,880	7
Lincoln ARC	510,048	8
Willamette Valley DX Club	459,408	5
Hazel Park ARC	456,372	21
Western New York DX Assn	405,188	7
Northern Arizona DX Assn	362,418	9
Schenectady ARA	359,228	5
Florida Contest Club	341,080	3
West Park Radios	335,566	11
Order of Boiled Owls of New York	320,260	3
Murgas ARC	265,286	4
Long Island Mobile ARC	249,294	4
Murphy's Marauders	246,222	3
Central Michigan ARC	220,244	8
Southwest Ohio DX Assn	209,152	4
Northrop Grumman Radio Club	191,888	3
OH-KY-IN ARS	134,970	3
Highland ARA	113,908	4
Valley Radio Club of Eugene	109,882	3
Franklin County ARC	108,048	4
Northwest ARS	98,004	3
Carolina DX Assn	92,300	5
Newington Amateur Radio League	91,328	6
Mother Lode DX/Contest Club	78,844	3
Eastern Iowa DX Assn	72,342	5
Lebanon Valley Society of Radio	68,756	4
Kettle Moraine Radio Amateurs	67,110	3
Six Meter Club of Chicago	36,196	3
Capital City ARS	3,726	3
Local Category		
River City Contesters	1,872,648	10
Hudson Valley Contesters and DXers	1,487,846	10
Federation of Amateur Radio	707,162	8
Eastern Connecticut ARA	335,276	3
Green River Valley ARS	311,624	7
Vicksburg ARC	305,294	3
Magnolia DX Assn	278,602	3
Pocatello ARC	237,430	4
Great Falls Area ARC	225,370	3
Sturdy Memorial Hospital ARC	205,066	4
County Line ARA	203,898	7
Worldradio Staff ARC	194,372	4
CT RI Contest Group	183,112	4
American Red Cross Emergency	177,222	5
Northern New York Contest Club	147,818	6
Williamsburg Area ARC	137,946	3
Hamfesters Radio Club	131,164	5
Alcatel ARC	109,102	3
Sterling Park ARC	107,058	5
Baton Rouge ARC	106,566	4
Norwood ARC	102,888	3
West Essex ARC	99,916	5
Garden State ARA	84,262	3
Redwood Empire DX Assn	75,870	3
Poinsettia ARC	68,982	5
10-70 Repeater Assn	51,614	3

1998 Sweepstakes Collegiate Championship Final Standings

Call	Total score	School	Call	Total score	School
W6UE	428,812	Cal Tech	VE2CUA	80,964	Concordia University
W6YX	376,678	Stanford University	N1JJ	77,376	Forest Ridge Academy
N5XU	269,786	ARC U of Texas	W8KW	66,768	Eastern Michigan University
W1YK	243,546	Worcester Poly Tech Institute	WA5BU	62,662	Baylor University
W5YM	227,184	ARC U of Arkansas	N6CP/W6BHZ	59,204	Cal Poly – San Luis Obispo
W4ATC	203,086	NC State University	W8LT	58,650	Ohio State University
WD8DQA	179,624	Muskingum Area Tech College	W7ISU	50,876	Idaho State University
K4KDJ	162,684	Virginia Tech	W7UQ	28,320	U of Idaho
W4AQL	154,740	Georgia Institute of Technology	W9YB	17,694	Purdue University
W0EEE	135,848	U of Missouri - Rolla	WB4TOP	16,920	Wake Technical College
W2CXM	94,224	Cornell University	W3AJ	12,760	Swarthmore College
KC7KFF	90,060	Carl Hayden Community H.S.	W9NAA	1,440	Rose Technical College

To roundout the 1998 November Sweepstakes, there are a few overall category awards to be mentioned. In the Collegiate Championships, W6UE, the Cal Tech Amateur Radio Club, beat out W6YX the Stanford Amateur Radio club, to claim the Collegiate Championship for 1998.

Congratulations are in order for the contesting ensemble groups known as the

Potomac Valley Radio Club (unlimited), the Southern California Contest Club (medium), and the River City Contesters (local) for taking home the coveted Hiram for Best Performance by a group in their individual Affiliated Club Competition categories.

The 1999 Sweepstakes are but a few months down the road (CW, November 6-8, and phone, November 20-22). Now is the

time to start preparing the theatre for another blockbuster performance. Who will be the surprise stars in 1999? Will the grizzled veterans of Sweepstakes performances past be able to stand up to another onslaught from the new "young guns?" Who will be left standing when the log checkers open that magic envelope next year and utter those magic words, "And the winner is..."?

ARRL November Sweepstakes Plaque Winners

Listed below are all of the plaque winners in the phone category. Only plaques with sponsors will be awarded. If you have won a plaque that is not sponsored, you may purchase your own plaque. The cost is \$60 per plaque. If you, your club, or business is interested in sponsoring any of the unsponsored plaques call Dan Henderson, N1ND at ARRL HQ.

Overall	Winner	Sponsor	Northwestern Division	Winner	Sponsor
QRP Phone	N7VY	QRP-ARCI	QRP Phone	W7YQA	Steve Morris, K7LXC and Tower Tech
Low Power Phone	VE4GV	Ken Adams K5KA	Low Power Phone	K7QQ	
High Power Phone	WP3R (KE3Q,op)	Carl Cook, A16V	High Power Phone	N7ML	
Multioperator Phone	KW8N	Central Texas DX & Contest Club	Multioperator Phone	K7IR	
Atlantic Division			Pacific Division		
QRP Phone	K3CR (KB3AFT,op)	Maryland Milliwatt Club	QRP Phone	N6MI (at N6NB)	UHM Ham Club
Low Power Phone	K1HTV	Potomac Valley Radio Club	Low Power Phone	K6UM	Jim Hollenback, NK6L
High Power Phone	K3MM	North Coast Contesters	High Power Phone	KH7R (KH6ND,op)	Richard Hallman, N7TR
Multioperator Phone	W3GH	Mark Sickmeyer, KB3GJ, Memorial	Multioperator Phone	N6RO	
Central Division			Roanoke Division		
QRP Phone	KX9X	Don Haney, W9WW	QRP Phone	K5IID	
Low Power Phone	AJ9C	Society of Midwest Contesters	Low Power Phone	W4OC	Jim Stevens, K4MA
High Power Phone	WB9Z	Society of Midwest Contesters	High Power Phone	W4MYA	Potomac Valley Radio Club
Multioperator Phone	W0AIH	Don Haney, W9WW	Multioperator Phone	K8WT	Shenandoah Valley ARC
Dakota Division			Rocky Mountain Division		
QRP Phone	N0UR	Tod Olson, K0TO	QRP Phone	K0RI	Ron Stark, KU7Y
Low Power Phone	K0VX	Minnesota Wireless Assn, W0AA	Low Power Phone	K7UP (W5FX,op)	
High Power Phone	W0SD (WD0T,op)	Minnesota Wireless Assn, W0AA	High Power Phone	K0KE	
Multioperator Phone	KT0R	Minnesota Wireless Assn, W0AA	Multioperator Phone	W0GG	
Delta Division			Southeastern Division		
QRP Phone	K2FF	Pat Sonnier, W5WMU	QRP Phone	W4DEC	
Low Power Phone	K4WX	Pat Sonnier, W5WMU	Low Power Phone	KD3GC	
High Power Phone	K5XX	Pat Sonnier, W5WMU	High Power Phone	WP3R (KE3Q,op)	
Multioperator Phone	W4CAT	Twin City Ham Club	Multioperator Phone	NP2E	
Great Lakes Division			Southwestern Division		
QRP Phone	N4RZ		QRP Phone	N7VY	Ray Day, N6HE and Donna Day, N6HTH
Low Power Phone	W8MJ	Mad River Radio Club	Low Power Phone	K6LA	
High Power Phone	W0CG	North Coast Contesters	High Power Phone	K6LL	
Multioperator Phone	KW8N	Hazel Park ARC	Multioperator Phone	W6EEN	
Hudson Division			West Gulf Division		
QRP Phone	K2KW	NJ-QRP Club	QRP Phone	K5ED	
Low Power Phone	K2UF	Troy ARA, N2TY	Low Power Phone	K5KA	
High Power Phone	K2RE	John Hults, K2WJ	High Power Phone	K5TR (at W5KFT)	D. Craig Boyer, AH9B Leo E. Oyler, Jr, W0GOW—W5RO Memorial
Multioperator Phone	KY2J		Multioperator Phone	K5NZ	Oklahoma DX Assn
Midwest Division			Canada		
QRP Phone	K0JGH		QRP Phone	VE5QRP	
Low Power Phone	WN0G		Low Power Phone	VE4GV	
High Power Phone	KI0MB		High Power Phone	VE7SZ (VE7NTT,op)	D. Craig Boyer, AH9B
Multioperator Phone	K0RWL		Multioperator Phone	VE6AO	
New England Division					
QRP Phone	K1VUT	QRP Club of New England			
Low Power Phone	KZ1M	Mitch Stern, W1SJ			
High Power Phone	KQ2M	Ed Parsons, K1TR			
Multioperator Phone	KI1G	John Olsen, K1NG			

Scores

Within each Section, scores are listed in descending order, by power categories, followed by multioperators. Line scores list call sign, score QSOs, multipliers, hours, class (Q = QRP, A = Low Power, B = High Power, M = Multioperator).

1	N1QD (+NET)	W10HM	42,048	288	73	13	B	N1NUA (+W1DLC)	44,148	283	78	20	M	KZ1O (+N1TMZ)	18,696	164	57	24
Connecticut	K1JN (+NET)	W1LP	38,850	259	75	17	B	KT4NT (+KF4IHS)	40,004	274	73	16	M	KD1LZ (+N1SBN)	7,650	85	45	24
N1TM	38,480	260	74	24	Q	W1RY	31,600	200	79	13	B	W1AO (+NET)						
W1PG	37,100	265	70	15	Q	W1XS (+NET)	11,340	105	54	3	B							
NM1K	23,232	176	66	8	Q		76,908	493	78	20	M							
KA1MWX	78,000	500	78	22	A	K1TH (+NET)	58,188	373	78	8	M	WE1J (+K1CZ,K1DTW,KB1CQQ,	35,708	226	79	8	M	
NX1Q	63,200	400	79	10	A	N1KJW (+NET)	15,640	115	68	15	M	N1XMQ	12,760	110	58	24	M	
W1CTN	62,524	406	77	24	A	N1MD (+NET)	14,040	130	54	24	M	WZ1K (+N1DPY,K1EZH)	26,784	186	72	22	M	
W1RPG	60,800	400	76	17	A		21,252	161	66	11	M	N1OEF (+ops)						
N1QDA	45,216	314	72	20	A	K1EP	107,526	644	79	19	A	WA1LJD	176,170	1115	79	22	B	
WB8IMY	41,652	267	79	16	A	K1FV (+K1SM)	15,120	135	56	3	M	K1TR	31,980	246	65	5	A	
N1ND	24,048	167	72	24	A	AE1M (+NET)	14,100	94	75	20	M	N1FOJ	27,600	200	69	10	A	
N1VIM	23,852	178	67	15	A		68,888	436	79	10	A	WB1FLD	15,982	131	61	6	A	
WA1ZEK	23,532	159	74	15	A	K1JE	72,664	182	78	24	A	AC1	15,812	134	59	4	A	
KC1JV	16,704	144	58	8	A	K1HT	46,508	302	77	13	A	K1DG	112,654	713	79	10	B	
KE1AU	12,896	104	62	7	A	K1K	39,500	250	79	20	A	W1LGJ	174,396	1115	66	7	Q	
K3UFG	11,200	112	50	24	A	N1UN	22,330	145	77	5	M	K1V	212,668	1346	79	22	B	
K3EIN	7,470	83	45	5	A	W1EM	101,752	644	79	19	A	W1OP (K1PLX,KA1KWE,ops)						
WB1CZX	700	25	14	3	A	W1SB	86,736	556	78	24	A	K1F	115,182	729	79	18	B	
KO2M	273,814	1733	79	24	B	W1TI	23,660	182	65	6	A	AA1II (KE1JA,N1KRU,ops)	65,728	416	79	19	A	
N1XYS (at KB1H)	132,878	841	79	24	B	K1JE	22,770	165	69	13	A	N1HKO	111,390	705	79	24	M	
N1HRA	76,156	482	79	12	B	K1AUOLV	22,176	176	63	6	A	W1GEX	71,604	459	78	20	B	
K1WB	46,926	297	79	9	B	K5MA	173,168	1096	79	17	B	W1EAT	64,064	416	77	18	Q	
W1SAM	25,944	188	69	9	B	N1AUQ	120,870	765	79	24	B	N0CI	65,604	462	71	22	A	
K1DII	8,080	101	40	2	B	N1DD	99,224	628	79	20	B	AA1SU	58,350	389	75	22	A	
W1QK (+KA1SYG)	108,888	698	78	14	M	K1LU	76,788	486	79	13	B	W1ZN	35,866	227	79	14	A	
												N1RUI	27,566	179	77	24	A	
												WB1GQR (W1SJ,op)	238,992	1532	78	24	B	
												K1CN	74,752	512	73	10	B	
												N1MEZ	58,934	373	79	17	B	
												Western Massachusetts						
												KZ1M	183,280	1160	79	24	A	

W4DF (+WA4RTS)	64,780	410	79	15	M	K5RAC (KK5NA,KK5QA,KM5IH,W5GVP,ops)	53,048	349	76	24	M	KQ6YNY (+WA6R,KG6MO)	27,520	215	64	24	A	WA0DYU	43,736	284	77	12	B						
KC4GIA (+KR4DO,N4TRX,KF4LGS)	59,904	384	78	24	M	KC5WUG (+KD5BVK,KC5VPZ,KD5BAH, WA5NHI)	35,420	230	77	24	M	K6TSG (WB6JBL,WB6KAT)	21,924	174	63	15	A	W7UQ (K17RQ,AB7V,KD7DIG,ops)	115,656	732	79	24	M						
KE4VA (+WV2Y)	57,152	376	76	23	M	WA5BU (KC5AMA,KK5KN,AC5QQ, N5VO,HQ5DCAA,ops)	29,250	225	65	22	M	W6G (WB6BL,WB6JC,ops)	16,520	140	59	13	A	W7ISU (N7LQY,W7II,N7LB, KD7AKN,ops)	34,018	233	73	21	A						
W4IM (+KC4DCL)	47,894	311	77	17	M	N5VHO,KD5CAA,ops)	55,774	353	79	20	C	WA6DLM (+W6OYA)	11,330	103	55	24	A	K16OQ	4,040	285	72	19	M						
WA4QDM (+NET)	37,392	246	76	14	M	AE6YL (+KC6CG)	41,040	285	72	24	M	W6TK	188,494	1193	79	17	B	W6NK	97,960	620	79	9	B						
KR4XM (+K4FPF)	33,572	218	77	10	M	W6HU (W6GL,KF6KQL,W6LX,ops)	18,016	264	72	24	M	W6BH2 (N6NL,KE6SYA,KF6PKU, KD6CVS,ops)	16,446	406	79	19	M	KO6XL	105,876	322	79	22	C						
N4RV (+KT4W)	19,840	160	62	3	M	W6E6 (K4GSAR,N6V1,N7UE,W1EEL, W4EF)	266,546	1687	79	24	C	W6BHZ (N6NL,KE6SYA,KF6PKU, KD6CVS,ops)	29,252	206	71	13	C	K7PGL	32,100	214	75	24	Q						
K4KDJ (K4EP,W5B4FAF,KF4ZLX,ops)	150,258	951	79	24	C	Oralge	47,472	344	69	24	M	K7BG	107,440	680	79	16	A	K7G7Q	42,624	296	72	8	Q						
5						KGHTR	119,764	758	79	20	A	K7G7Q	34,018	233	73	21	A	K7C7MZT	125,222	129	59	16	A						
Arkansas						WA6JZQ	29,748	222	67	13	A	N7ML	311,576	1972	79	24	B	Santa Clara Valley											
W5JAY	66,150	441	75	22	Q	K06XB	23,552	184	64	9	A	W6LPW	40,500	270	75	20	Q	W6LPW	40,500	270	75	20	Q						
K5OY (at AB5SE)	166,296	1066	78	22	A	KF6HAM	19,272	146	66	12	A	N6CY	93,852	594	79	21	A	N6CY	93,852	594	79	21	A						
N5EPU	81,528	516	79	21	A	WA6GFR	19,008	144	66	13	A	W6WTS	30,530	215	71	15	A	N6ZB	57,150	381	75	15	A						
AC5DK	39,500	250	79	17	A	AD6CH	13,680	152	45	24	A	W6PLJ	46,650	311	75	18	A	W6PLJ	46,650	311	75	18	A						
N5KG	34,790	245	71	17	A	K6P	9,996	102	49	7	A	K6D6T	23,496	178	66	14	A	K6P	9,996	102	49	7	A						
N3UOE	23,700	150	79	13	A	K6GUQ	4,070	55	37	6	A	W6RY1	19,630	151	65	8	A	K6GUQ	4,070	55	37	6	A						
KA5QOF	19,832	134	74	19	A	K6OKU	720	30	12	3	A	K6VGW	10,404	102	51	4	A	K6OKU	720	30	12	3	A						
KC5DUI	9,936	108	46	24	A	N6HIC	194,376	1246	78	21	B	N6MNZ	6,724	82	41	9	A	N6HIC	194,376	1246	78	21	B						
AB5SE (at NS2S)	245,532	1554	79	24	B	W6TKV	91,656	603	76	17	B	W6NL	283,768	1795	79	14	B	W6TKV	91,656	603	76	17	B						
KC5BRY	30,420	234	65	24	B	W6HNT	6,552	126	26	3	B	W6YK	263,228	1666	79	24	B	K6ZB	57,150	381	75	15	A						
N5ZM (+AB5RQ)	70,152	444	79	24	M	W6EEEN (+K6XC,K7IWX)	250,272	1584	79	24	M	K6HNZ	120,712	764	79	20	M	W6EEEN (+K6XC,K7IWX)	250,272	1584	79	24	M						
W5YM (KB5ZYC,AC5CR,KB5YMO, KJ5YD,N5UWVY,KC5TTQ,KC5LDC, ops)	200,344	1268	79	24	C	KG6OK (+KB6FYG,KF6HVO,W1HJJ, K6DSB)	141,726	897	79	24	B	W6WTD (+NET)	16,364	419	78	24	M	K6WTD (+NET)	16,364	419	78	24	M						
Louisiana						N6RT (+NET)	16,380	105	78	7	M	W6RBT (+NET)	12,348	126	49	5	Q	AD6E	122,134	773	79	18	B	AD6E	122,134	773	79	18	B
W5CTV	5,952	96	31	8	Q	KH7Q (WE9V,op)	11,328	118	48	6	A	W6LGO	120,238	761	79	20	B	K6G	109,968	696	79	23	B	W6LGO	120,238	761	79	20	B
N5SMQ	70,468	446	79	15	A	KH7FW (WB6FZHZ)	1,500	30	25	24	Q	N6BZA	79,632	504	79	8	B	K6HNT	109,968	696	79	23	B	KH7FW (WB6FZHZ)	1,500	30	25	24	Q
N5MYH	60,830	395	77	24	A	KH7FX	11,328	118	48	6	A	N6XK	57,288	372	77	15	A	K6HNT	109,968	696	79	23	B	KH7FX	11,328	118	48	6	A
K1D5W	51,224	337	76	10	A	KH7HL	4,824	67	36	16	A	W6HCUZ	3,100	50	31	5	A	K6HNT	109,968	696	79	23	B	KH7HL	4,824	67	36	16	A
N5KWA	18,360	135	68	11	A	KH7HT (KH6ND,op)	327,218	2071	79	24	B	W6GCF	105,456	676	78	11	M	KH7HT (KH6ND,op)	327,218	2071	79	24	B	KH7HT (KH6ND,op)	327,218	2071	79	24	B
W5WMU	241,956	1551	78	24	B	KH6/K2PLF	193,128	1238	78	23	B	W6GCH	105,456	676	78	11	M	KH6/K2PLF	193,128	1238	78	23	B	KH6/K2PLF	193,128	1238	78	23	B
KG5V/K (KB5VKJ,K5RV)	148,046	937	79	24	M	KH6CX	25,856	202	64	22	Q	W6GHHN	9,568	104	46	6	A	KH6CX	25,856	202	64	22	Q	KH6CX	25,856	202	64	22	Q
W5GAD (+ops)	137,904	884	78	24	M	KH6DBS	2,392	46	29	9	A	W6GIB	2,310	35	33	24	A	KH6DBS	111,864	708	79	17	M	KH6DBS	111,864	708	79	17	M
AE5T (+NP5PT)	133,668	846	79	22	M	KH6E6	10,054	1013	79	20	B	W6GIP	105,600	704	75	22	M	W6E6	10,054	1013	79	20	B	W6E6	10,054	1013	79	20	B
KI5EE (+WB5TUG)	82,634	523	79	23	M	KH6F	11,545	56	7	4	A	W6GJ	105,600	704	75	22	M	W6E6	11,545	56	7	4	A	W6E6	11,545	56	7	4	A
WM9M (+NET)	12,320	88	70	24	M	KH6G	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	W6E6	11,545	56	7	4	A	W6E6	11,545	56	7	4	A
Mississippi						KH6H	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6H	11,545	56	7	4	A	KH6H	11,545	56	7	4	A
K2FF	75,840	480	79	13	Q	KH6I	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6I	11,545	56	7	4	A	KH6I	11,545	56	7	4	A
KB5FET	39,274	269	73	17	A	KH6J	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6J	11,545	56	7	4	A	KH6J	11,545	56	7	4	A
AB5YY	39,156	251	78	18	A	KH6K	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6K	11,545	56	7	4	A	KH6K	11,545	56	7	4	A
N5QDE	31,350	209	75	24	A	KH6L	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6L	11,545	56	7	4	A	KH6L	11,545	56	7	4	A
KK5PM	13,100	131	50	8	A	KH6M	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6M	11,545	56	7	4	A	KH6M	11,545	56	7	4	A
W5XX	254,380	1610	79	24	B	KH6N	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6N	11,545	56	7	4	A	KH6N	11,545	56	7	4	A
KB5IXI (+KB5QLK,KB5VLA,KM5NQ, KC5YD)	29,010	194	75	14	M	KH6O	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6O	11,545	56	7	4	A	KH6O	11,545	56	7	4	A
KB5VCC (+KC5ZJ)	25,350	169	75	15	M	KH6P	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6P	11,545	56	7	4	A	KH6P	11,545	56	7	4	A
New Mexico						KH6Q	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6Q	11,545	56	7	4	A	KH6Q	11,545	56	7	4	A
K5OI	20,700	150	69	24	Q	KH6R	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6R	11,545	56	7	4	A	KH6R	11,545	56	7	4	A
K7UP (W5FX,op)	22,8310	1445	79	24	A	KH6S	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6S	11,545	56	7	4	A	KH6S	11,545	56	7	4	A
W5GZ	47,268	303	78	21	A	KH6T	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6T	11,545	56	7	4	A	KH6T	11,545	56	7	4	A
W5IV	34,200	228	75	20	A	KH6U	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6U	11,545	56	7	4	A	KH6U	11,545	56	7	4	A
K5IL	28,832	212	68	14	A	KH6V	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6V	11,545	56	7	4	A	KH6V	11,545	56	7	4	A
K5TEE	26,934	201	67	15	A	KH6W	11,545	56	7	4	A	W6GK	105,456	676	78	11	M	KH6W	11,545	56	7	4	A	KH6W	11,545	56	7	4	A
K2EI	22,780	2140	74	19	B	KH6X	11,545	56	7	4	A	W6GK	105,456	676															

N8NX	40,040	286	70	8	A	W8DYF	12,980	110	59	8	A	K9CC	84,240	540	78	14	B	N0LM (+ops)	14,586	143	51	7	M
K8IR	39,024	271	72	13	A	K8BL	12,482	79	79	5	A	K8LU	49,928	316	79	12	B	K0LIL	83,006	539	77	21	A
N8YEL	35,392	224	79	24	A	K8CHHW	12,240	120	51	10	A	W9GIG	36,328	239	76	11	B	KK0DX	54,352	344	79	15	A
NX8K	33,180	237	70	18	A	K8BWDX	12,190	115	53	9	A	WE9A	34,128	237	72	4	B	KA0T	47,808	332	72	23	A
W8TJQ	31,682	217	73	11	A	K8CZ	11,340	105	54	6	A	WA9DRE	32,400	216	75	24	B	K0NCN	42,450	283	75	14	A
K8CV	28,810	215	67	24	A	K8CBTA	9,048	78	58	24	A	KC9IL	22,080	160	69	4	B	K0PFV	32,428	242	67	11	A
N8BEE	26,860	170	79	15	A	K8CIOR	6,324	62	51	12	A	N9CO	20,832	168	62	3	B	WA0PY	26,004	197	66	9	A
N8TDE	21,420	170	63	18	A	K8LN	5,550	75	37	24	A	W9YH (N4OGW,op)	17,202	141	61	3	B	W0UVC	16,274	103	79	20	A
W8EGI	19,800	150	66	9	A	WA8NVW	2,880	60	24	4	A	NS9YCT	14,964	129	58	16	B	KA0TGU	15,800	100	79	18	A
KC8FXR	19,096	154	62	10	A	N8RPA	2,668	58	23	5	A	K9GN	8,436	111	38	1	B	N0UVP	5,920	80	37	4	A
KE8UM	18,432	128	72	12	A	N8VS	468	18	13	1	A	K9MOT (K9UQN,N9EP,AA9AE,N9KNS, WB9PFM,ops)	181,068	1146	79	24	B	AB0FX	4,988	58	43	12	A
KC8GM	17,514	139	63	17	A	N8RVR	378	9	21	12	A	W9GKA (+K9ZQA)	102,700	650	79	23	M	KB0RZP	1,404	39	18	6	A
KC8JUZ	17,100	190	45	6	A	W8CG	181,068	1146	79	24	B	N9MUC,W9ALB,K9RR,K9QI,	87,532	554	79	24	M	AA0W	1,260	30	21	1	A
W8EO	16,800	140	60	24	A	AC8E	106,018	671	79	19	B	W9EM (+K9LPM,AA9Q)	82,992	532	78	24	M	K0DG	74,724	479	78	23	B
K8JN	16,750	125	67	17	A	K8MR	88,200	588	75	7	B	N9THC (+N9TZQ)	82,544	536	77	24	M	K0GND (+W0EKG,K0NC,W0WRI)	148,362	939	79	21	M
W8BFAO	16,170	147	55	8	A	N8BQJ	52,298	331	79	12	B	W9SMC (+N9JF)	74,328	489	76	24	M	N0GVK (+KE0Z)	70,668	453	78	18	M
KE7UA	15,232	119	64	9	A	N8W4G	36,000	240	75	10	B	W8BHA (+K8BLW,W8AMY,N8PCN, KC8BGJ)	45,662	289	79	16	M	N0FBA (+NY0C)	7,904	104	38	3	M
W8PDJ	14,580	135	54	8	A	K8NIA	31,044	199	78	19	B	NW9V (+N9PGO)	40,348	262	77	19	M	North Dakota	36,480	240	76	7	A
N8VEN	14,364	126	57	12	A	W8SJSU	26,412	186	71	24	B	W8VW (+N9OM)	10,904	116	47	10	A	K0VX	31,680	220	72	24	A
KB8UMT	13,688	118	58	24	A	W8KEN	25,428	163	78	15	B	N0RDP	24,684	187	66	24	A	WB0O	291,352	1844	79	24	B
K8BZ	13,674	129	53	5	A	W8BCK	(K8BLW,op)					KE0FT (+K9BLF,W9KSKR)	43,056	276	78	19	M	KE0A (+NOFW,K0YR)	157,526	997	79	21	M
K8GA	12,600	126	50	7	A	KWBN (+K9NWF,K8FTY)	16,800	150	56	2	B	NW9V (+N9PGO)	109,592	721	76	14	A	South Dakota	36,480	240	76	7	A
WD8DBJ	12,432	111	56	10	A	W8BHD	108,546	687	79	24	M	W9BAR (N9LJY,N9GH,N9WJJ, K9QJ,ops)	22,776	146	78	18	M	W0VQC	11,592	126	46	10	A
N8KCG	11,760	105	56	11	A	W8BHD	108,546	687	79	24	M	KB0JIZ (+ops)	4,930	85	29	24	M	WB0ULX	3,782	61	31	13	A
N8MG	11,000	110	50	7	A	W8BHD	(+K8BLW,W8AMY,N8PCN, KC8BGJ)					KE0ADP	520	20	13	1	A	KE0AA	308,574	1953	79	24	B
WD8R	10,812	102	53	7	A	W8BHD	108,546	687	79	24	M	W0SD (WD0T,op)						Maritime-Newfoundland	46,354	301	77	24	A
WB8HB	10,710	105	51	7	A	W8BHD	108,546	687	79	24	M	VE9FX	65,728	161	46	79	B	VE9AA	65,728	161	46	79	B
N8UUS	10,560	110	48	24	A	W8BHD	108,546	687	79	24	M	VE9XA	42,340	290	73	12	B	VE9HF (+NET)	22,638	147	77	9	M
W8WQ	10,080	105	48	10	A	W8BHD	108,546	687	79	24	M	Newfoundland Labrador	11,592	126	46	10	A						
KE8FO	10,000	100	50	6	A	W8BHD	108,546	687	79	24	M	VO1IMB	62,196	438	71	19	A						
W8JBA	9,680	110	44	6	A	W8BHD	108,546	687	79	24	M	VO1RE	7,700	5	5	1	A						
AA8UU	6,348	69	46	6	A	W8BHD	108,546	687	79	24	M	VO1MP	49,608	318	78	8	B						
AA8WB	5,360	67	40	8	A	W8BHD	108,546	687	79	24	M	VO1WET	38,948	293	68	18	B						
KB8QO	4,514	61	37	5	A	W8BHD	108,546	687	79	24	M	VO1AA (W4SD,W4ZYT,VO1HE,VO1MX, ops)	7,930	515	77	24	M						
KC8IHP	3,650	73	25	10	A	W8BHD	108,546	687	79	24	M	Quebec	64,740	415	78	20	A						
KC8JYG	1,360	40	17	7	A	W8BHD	108,546	687	79	24	M	VE2AWR	39,640	390	73	14	Q						
W8UE	1,044	29	18	1	A	W8BHD	108,546	687	79	24	M	VE2SAI	20,306	143	71	9	A						
KB8TWM	720	24	15	7	A	W8BHD	108,546	687	79	24	M	VE2GWL	4,514	61	37	24	A						
K8HA	468	18	13	4	A	W8BHD	108,546	687	79	24	M	VE2CRL (VA2CL,V2AJ2R,VE2DIV, VE2DX,VE2LHR,VE2XID,ops)											
KE8GG	168,744	1068	79	24	B	W8BHD	108,546	687	79	24	M	VE2MB	64,740	415	78	20	A						
K8BVCK	98,118	621	79	22	A	W8BHD	108,546	687	79	24	M	VE2ESP,VE2BRT,VE2AAL,VA2SMF, VE2SJA,ops)											
KG8HZ	71,100	450	79	20	B	W8BHD	108,546	687	79	24	M	VE2WU	4,766	349	67	21	M						
AA8PA	60,672	384	79	13	A	W8BHD	108,546	687	79	24	M	VE2UFO (+NET)	24,648	156	79	24	M						
W8RZG	59,000	120	79	24	M	W8BHD	108,546	687	79	24	M	VE2CUA (AG8L,VE2HFX,ops)	80,964	519	78	24	C						
NT8V	158,158	1001	79	22	M	W8BHD	108,546	687	79	24	M	Ontario	21,960	180	61	16	Q						
(KB8MMW)	92,272	584	79	24	M	W8BHD	108,546	687	79	24	M	VA3SB	38,900	390	73	14	Q						
N5XHT	(+WA1LRL)					W8BHD	108,546	687	79	24	M	VA3NR	83,898	373	79	16	A						
KD8FS	72,206	457	79	18	M	W8BHD	108,546	687	79	24	M	VE3SRE	67,144	436	77	16	A						
WB8RNY	(+W8PTE,NA8SNM,K8ZZU, N8RGYK,K8MIO,W8AOH)					W8BHD	108,546	687	79	24	M	VE3BUC	56,160	360	78	23	A						
N8WTH	61,152	392	78	24	M	W8BHD	108,546	687	79	24	M	VE3FU	36,656	232	79	9	A						
(N8DEE,N8DEH)	40,740	291	70	24	M	W8BHD	108,546	687	79	24	M	VE3UZ	32,706	237	69	9	A						
AA8KR	(+N8WQI)					W8BHD	108,546	687	79	24	M	VE3RZ	27,580	197	70	6	A						
W8TNO	(+WB8PLE,N8SNM,K8ZZU, N8RGZ,ops)					W8BHD	108,546	687	79	24	M	VE3GD	27,048	196	69	11	A						
W8BZQ	158,158	1001	79	22	M	W8BHD	108,546	687	79	24	M	VE3WZ	23,040	180	64	11	A						
W8RZG	122,700	120	79	24	M	W8BHD	108,546	687	79	24	M	VE3IOS	17,854	113	79	17	A						
W8BZD	122,700	121	52	18	M	W8BHD	108,546	687	79	24	M	VE3EJ	15,620	142	55	3	A						
W8KJ	14,500	145	50	9	M	W8BHD	108,546	687	79	24	M	VE3VET	18,328	116	79	8	B						
KG8ZD	(+NET)					W8BHD	108,546	687	79	24	M	VE3XA (+VE3WVG,VE3LHS)	131,936	868	76	15	M						
KG8ZD	15,340	130	59	6	M	W8BHD	108,546	687	79	24	M	VE3DBF (+VA3DEN,VE3JG,VA3RJT)	93,940	610	77	23	M						
KG8ZD	14,500	145	50	9	M	W8BHD	108,546	687	79	24	M	VE3VSM (+NET)	80,264	508	79	24	M						
KG8ZD	14,136	124	57	24	M	W8BHD	108,546	687	79	24	M	Manitoba	31,070	239	65	8	Q						
AA8AU	(+NET)					W8BHD	108,546	687	79	24	M	VE4V	31,070	239	65	8	Q						
K8RO	12,636	81	78	6	M	W8BHD	108,546	687	79	24	M	VE4GV	266,072	1684	79	24	A						
W8KRO	12,584	121	52	18	M	W8BHD	108,546	687	79	24	M	VE4AQ	66,992	424	79	14	A						
W8KWD	(K8E8RA,W8UE,ops)	66,768	428	78	24	C	W8BHD	108,546	687	79	24	M	VE4JOP	4,128	48	22	2	A					
Ohio	WA8RJF	53,246	337	79	15	Q	W8BHD	108,546	687	79	24	M	Alberta	193,234	223	79	21	A					
N8IE	19,880	142	70	15	Q	W8BHD	108,546	687	79	24	M	VA4VV	31,070	239	65	8	Q						
K8OUA	17,284	149	58	8	A	W8BHD	108,546	687	79	24	M	VE4ATT	30,348	94									