

# 2003 January VHF Sweepstakes Results

A typical January weekend...

Each year in the dead of winter there is a stirring amongst the weak signal VHF operators. No matter that the Northern climes are frigidly cold and snow and sleet are falling everywhere. It's time to check out the station. Radios that have not been exercised since last fall are turned on and tested. On goes the rotator box. Do the antennas still turn? Do they still work? The beacons get a big workout here. Are the amplifiers still putting out the power they're supposed to? And what about the microwave gear? A few calls to the locals will test these.

Why all the checking under such inhospitable conditions? The ARRL January VHF Sweepstakes is coming! All the clubs are organizing and imploring their membership to participate. Even the rovers are getting ready. It takes a certain disregard of the physical environment to be a rover—and that goes doubly in the winter. The SS is always marked by a paradox—high activity in the face of lousy conditions. Activity is a combination of club organization and the chance for people like me who operate portable in the warmer months to use their home stations. Propagation is a matter of midwinter conditions.

This year brought the double whammy of extremely cold temperatures and a lot more snow than usual to the eastern two thirds of the nation. On the weekend itself, bitterly cold temperatures and, generally dry, windy conditions conducive to high noise levels even in normally quiet locations were the rule in many places but some places in the Rocky Mountains and on the West Coast were more hospitable. A typical January weekend—but one with some surprises as we will see.

## 2003 Overall

The number of logs submitted seems to have stabilized to some degree this year. Compared to last year the 797 logs submitted were down marginally but in the last three years the numbers have ranged from 797 to 818. This is still sig-

nificantly more logs than any other ARRL VHF contest. The core categories remained at essentially the same levels with 441 low power stations and 190 high power stations. The main difference compared to 2002 appears to have been a drop in limited multioperator logs from 55 to 32 accompanied by a slight rise in rover entries from 71 to 81 in 2003.

## Propagation

Remember September with its absolutely flat, unenhanced band conditions? Well, January started out the same way. Cold windy weather will do that. That is not to say that there wasn't a little bit of east/west tropo reported in the Pacific Northwest but by and large it was brute force, grind them out. Then around 2000Z on Sunday the minor sporadic E (E<sub>s</sub>) season smiled on us with a strong opening

extending from 100° longitude eastward to the Atlantic seaboard, north well into Canada and south to the Gulf Coast and Florida (see Figure 1). The major E cloud was over KY and the IN/OH border and originally supported contacts between the Northeast and W0 and W5 excluding essentially all of Texas and New Mexico. As one moved toward western New York and eastern Ohio, the path rotated north/south toward the Gulf and Florida. As the opening matured, this cloud narrowed and moved north first concentrating contacts into Nebraska and then shortening between W2/W3 and western IL. The orthogonal path was also open between Minneapolis and more northern MN and the NC/SC coast. The opening from down the FL peninsula appeared to be very spotty mostly into the upper Midwest and occasionally into New England. Mean-

## Top Ten

Single Operator, Low Power		Limited Multioperator	
K2DRH	160,395	K8CC	116,494
WA3GFZ	120,530	N3JFM	94,930
N1DPM	108,288	W1QK	66,780
K1UHF	81,888	W4ZRZ	60,833
W3KJ	67,728	W2DTA	54,032
WA8RJF	55,473	N8ZM	48,488
AF1T	54,439	K2AA	42,976
K4TO	53,992	KB1DFB	35,644
W1PM	53,738	N1LDY	35,594
N3FUJ	53,568	W1XM	24,684

Single Operator, High Power		Multioperator	
K1TEO	444,096	K3EAR	877,041
AA2UK	374,262	W2FU	810,266
WA2FGK	354,860	N2PA	505,827
K2AXX	261,060	N3NGE	326,952
KM0T	259,675	W0RSJ	265,766
K1RZ	240,470	WA3ZKR	78,431
WA3NUF	187,040	W2QK	75,430
WB9Z	182,991	N8KOL	73,580
K1JT	167,808	W2EA	65,436
K2SMN	166,800	K1MUJ	56,316

QRP Portable		Rover	
KC7RAS	8,646	N2JMH	525,249
W9GKA	7,065	K2TER	473,396
N8A (N8XA,op)		N6TEB/R	282,492
	5,336	N9UM/R	269,712
N6VMO	2,324	KK7GU/R	232,260
KQ6EE	2,240	N6DN/R	226,296
N2IM	1,872	KF9US	211,830
WD5AGO	1,680	N2OPW	210,078
KA1VEC (NM1K,op)		W7DHC/R	149,124
	1,071	WO2P/R	147,708
N0JK	780		
WB2AMU	731		

## Affiliated Club Competition

	Score	Entries
<b>Unlimited Category</b>		
Mt Airy VHF Radio Club	3,127,678	61
<b>Medium Category</b>		
Rochester VHF Group	3,353,279	44
North East Weak Signal Group	1,357,754	33
Murgas ARC	1,232,206	4
Northern Lights Radio Society	833,508	26
Society of Midwest Contesters	741,447	12
Potomac Valley Radio Club	681,910	32
Pacific Northwest VHF Society	479,982	30
Badger Contesters	423,551	15
Yankee Clipper Contest Club	174,997	5
Western States Weak Signal	142,974	7
Mad River Radio Club	118,534	3
South Jersey Radio Assn	113,360	6
Crawford County ARC	101,598	18
North Texas Microwave Society	96,806	11
Contest Club Ontario	95,016	10
Bergen ARA	66,944	6
Six Meter Club of Chicago	41,677	13
Northern California Contest	40,974	3
Florida Contest Group	29,645	4
Hampden County Radio Assn	12,619	3
Tennessee Contest Group	10,216	4
Mobile Sixers Radio Club	1,524	6
Lawton Fort Sill ARC	919	4
Rochester (MN) ARC	824	7
<b>Local Category</b>		
Delaware Valley VHF Society	178,208	7
Roadrunners Microwave Group	123,215	3
Eastern Connecticut ARA	95,968	3
Eastern Panhandle ARC	77,507	6
Northern New York Contest	6,734	4
Meriden ARC	4,122	3

while a secondary cloud formed somewhere in the vicinity of the NY/New England border that allowed stations in MI and IN near the main cloud to work into northern New England and Canada. Canadians were also audible here in the mid-Atlantic later in the opening. By 2300 the opening was diminishing rapidly and by 2330Z it was all but over.

### The National Scene

How much difference does a good E skip opening make in the placement of the top scores? Not as much as you might think. Once again living in the densely populated Northeast corridor is no guarantee of a winning performance. The low power single operator class (SOLP) remains by far the largest. Bob, K2DRH/9, leads the way for the third straight year, this time by a comfortable margin 40k over Paul, WA3GFZ, with former winner Fred, N1DPM, only 12k points further back. Bob's score of 160,395 is a new overall category mark. In the high power single operator (SOHP) category, Jeff, K1TEO, is the top scorer for the sixth time in a row, 70k points ahead of Bill, AA2UK, who returns to serious competition with Herb, K2LNS, operating WA2FGK a mere 20k points behind him. Twenty-four intrepid souls braved the winter weather in the Single Operator Portable (SOP) class, which gets an almost complete overhaul in 2003. Top honors go to the Northwestern Division and Ric, KC7RAS, closely followed by Kevin, W9GKA, and Ax, N8XA, operating as N8A.

The top spots in the multioperator competition had some new faces this year. Dave's crew at K8CC moves to the top spot in the Limited Multioperator (LM) class 22k points ahead of the quartet at N3JFM. The Murgas ARC longtime operators of K3YTL moved from FN11 down to FM19 to join with the South Mountain Contest Club, K3EAR, to take the Multioperator Class (MO) with a category record setting score of 877,041. Close on their heels less than 10% behind was Jeff, W2FU's group with N2PA moving into third place. Winter is not the most pleasant time to be a rover but the rigors of upstate New York didn't faze N2JMH/R, who had the top rover score for the third year running again closely followed by K2TER/R covering the same territory. N6TEB/R edged past N9UM/R for third place.

### Regional Highlights

The regional scores produced some interesting results. Stations in the Northeast, Central and the northern part of the Midwest region were helped by the E<sub>s</sub> opening. Detailed Division scores can be found in the Web report.

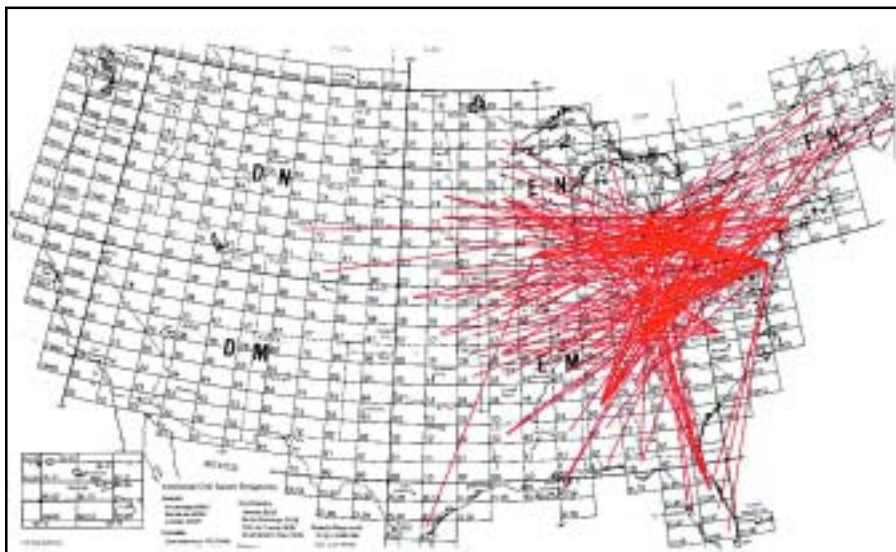


Figure 1—Sporadic E opening between 2000-2330Z in the Eastern and Midwestern US. Line intersections indicate reflection centers from the E cloud.

### Northeast

Top performers came from all parts of the Northeast. In addition to the national top ten performers already mentioned, outstanding SOLP performances were turned in by Del, K1UHF, and Joe, W3KJ, and by SOHP operators Mark,

K2AXX, and Dave, K1RZ. Close behind N2IM were well-known QRP operators Rusty, NM1K, at KA1VEC and Ken, WB2AMU. Longtime LM participants W1QK and K2BAR, operators at W2DTA, provided the competition for N3JFM. Many of the K3YTL operators journeyed down to the South Mountain Contest Club station K3EAR at the old K3MQH site and produced their first MO top national score. Close on their heels were Rochester's W2FU and N2PA. All the top rover performers were from western New York: N2JMH/R, K2TER/R, N2OPW/R, WO2P/R and N2KXS/R. So much for cold, icy weather!



K7BV/1 in front of his neat 6 meter station: an ICOM IC-756PROII and an ACOM 1 kW amplifier.

### Southeast

Richard, K4RTS, Dan, K8GUN, and Steve, W4SHG, led the way in the SOLP class in the Southeast while Rus, K4QI, transplanted Buckeye Gary, KE8FD, and Tom, K2UOP, were the top SOHP entries. The group at W4ZRZ parlayed a solid E<sub>s</sub> opening into the top LM score in the region and no. 4 high nationally. In the MO category AG4V easily outdistanced the abbreviated effort from W4RX. Bill, W3IY/R, was the top rover but with a score much smaller than usual.

### Central

Tony, WA8RJF, and Dave, K4TO, followed K2DRH's nationally winning score in SOLP. HF contester Jerry, WB9Z, racked up the no. 8 SOHP score nationally with fine scores posted by Mark, K8MD, and Ken, W9GA. W9GKA and N8A (N8XA) were dominant players on the SOP scene. The multiops were well represented by LMs K8CC and N8ZM,



K3TV's 2 meter antenna system—four 12-element M<sup>2</sup> Yagis.

## Regional Results

Within each Region, scores are listed in descending order by power categories. Scores list call sign, score and power (A = SO Low, B = SO High, Q = SO Portable, L = Limited Multiop, M = Multioperator, R = Rover).

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)		
WA3GFZ	120,530	A	K4RTS	31,951	A	K2DRH	160,395	A	K0SHF	52,635	A	KC6TEU	31,430	A
N1DPM	108,288	A	K8GUN	25,560	A	WA8RJF	55,473	A	N0URW	38,533	A	VE7DXG	29,986	A
K1UHF	81,888	A	W4SHG	25,110	A	K4TO	53,992	A	KT8O	36,432	A	KC6ZWT	22,852	A
K1TEO	444,096	B	K4QI	105,260	B	WB9Z	182,991	B	KM0T	259,675	B	N7EPD	52,022	B
AA2UK	374,262	B	KE8FD	38,199	B	K8MD	87,763	B	W0GHZ	125,710	B	N6RMJ	33,698	B
WA2FGK	354,860	B	K2UOP	35,948	B	W9GA	84,095	B	W0ZQ	90,272	B	W6KBX	31,044	B
N2IM	1,872	Q			W9GKA	7,065	Q	WD5AGO	1,680	Q	KC7RAS	8,646	Q	
KA1VEC (NM1K,op)	1,071	Q			N8A (N8XA,op)	5,336	Q	N0JK	780	Q	N6VMO	2,324	Q	
WB2AMU	731	Q					K0NR	608	Q	KQ6EE	2,240	Q		
N3JFM	94,930	L	W4ZRZ	60,833	L	K8CC	116,494	L	W0JH	16,530	L	W7AV	4,480	L
W1QK	66,780	L	KD5HPT	5,152	L	N8ZM	48,488	L	AD5V	2,436	L	K6WAR	3,416	L
W2DTA	54,032	L	A14CW	3,920	L	W9VW	12,474	L	WX5II	1,743	L	W7DK	2,185	L
K3EAR	877,041	M	AG4V	17,640	M	N8KOL	73,580	M	W0EEA	10,948	M	W6TE	49,612	M
W2FU	810,266	M	W4RX	7,584	M	W9RVG	51,282	M	KA0MR	9,548	M	K17EL	3,058	M
N2PA	505,827	M					N5PYK	6,076	M					
N2JMH/R	525,249	R	W3IY/R	12,192	R	N9UM/R	269,712	R	N0DQS/R	94,686	R	N6TEB/R	282,492	R
K2TER/R	473,396	R	KB1EXM/R	3,952	R	KF9US/R	211,830	R	W9FZ/R	80,408	R	KK7GU/R	232,260	R
N2OPWR	210,078	R	N4FLM/R	3,069	R	K0PG/R	53,805	R	W5DF/R	71,832	R	N6DN/R	226,296	R

numbers 1 and 6 nationally and N8KOL no. 8 nationally in the MO class. Big rover scores were turned in by Mark, N9UM, ex-KG9PF (no. 4 nationally), and by the return of an old rover hand Phil, KF9US.

### Midwest

Lenny, K0SHF, was the top SOLP station this year in the Midwest with Dan, N0URW, edging Eric, KT8O, for the runner-up slot. Mike, KM0T, once again cracked the top five nationally in the SOHP class with fellow club members Gary, W0GHZ, and Jon, W0ZQ, running next and Al, W5LUA, leading the pack to the south. Tommy, WD5AGO, piloted his SOP station to a no. 7 finish nationally. The multiops were represented by Limited Multi W0JH and a close MO race won by the crew at W0EEA over KA0MR. Gene, N0DQS, won a spirited rover competition over Bruce, W9FZ, and Dan, W5DF.

### West Coast

A number of close races occurred on the West Coast. Ken, KC6TEU, edged out Gabor, VE7DXG, in the SOLP category with Norm, KC6ZWT, close behind. In the SOHP competition Eric, N7EPD, was almost 20k point ahead of a pack of four stations led by Pat, N6RMJ, Don, W6KBX, Jim, AF6O, and Bob, N7AU. KC7RAS was the top national SOP station followed by the no. 4 and 5 ranked scores of John, N6VMO, and Hon, KQ6EE. Among the multiops W7AV narrowly outdistanced K6WAR and W7DK while W6TE finish no. 12 nationally in spite of mediocre conditions and no sporadic E. The West Coast rovers turned in excellent scores. Dave, N6TEB/R took

### Expanded Results, Line Score Printouts Available

For complete contest results online, please visit [www.arrl.org/contests/results](http://www.arrl.org/contests/results). ARRL members without Internet access may obtain a printout of the complete line scores by sending a self-addressed stamped envelope to ARRL Contest Results, 225 Main St, Newington, CT 06111. Please be sure to include the contest name and year.

the category and a third place finish overall. Kenny, KK7GU/R, eked by Paul, N6DN/R, by less than 6k points to earn them the no. 5 and 6 places in the national competition. Also notable was Jim, W7DHC/R's no. 9 finish,

### Affiliated Club Competition

January is prime time for the ARRL club competition. The Medium Category had the largest number of entries—24—with 6 entries in the Local Category and only one in the Unlimited Category. The Mt Airy VHF Radio Club—the Pack Rats—has been the top scorer in the Unlimited Category for decades and this year was no exception. Their secret of success is a large number of home stations with multiband capabilities and the ability to get them on the air in the contest. Almost nothing is left to chance and about two-thirds of their members actually submit logs. However, for the second straight year the Rochester VHF Group in the Medium Category had an even higher score by 225k points. The RVHFG combined two huge MO scores

and five big rovers to make 2.8 of their 3.3+ million points to win the Medium Category. On the strength of their strong single operator stations, the Northeast Weak Signal Group moves into second place and the Murgas ARC with the top MO and the no. 3 SOHP entry moves into third. Northern Lights moves from sixth to fourth and YCCC replaces the Downey Contesters. Missing their big MO entry and with minimal participation from their two big rovers, the PVRC falls from second to sixth; and Western States (WSWSS) drops from sixth to tenth. Success depends on organization—helping each member get his/her station ready, convincing them to operate for as long as they can and then actually submitting the log. The VHF oriented clubs do all of these very well. Moving up to the top in the Local Club Competition is the Delaware Valley VHF Society. Runner-up in the category is the Roadrunners Microwave Group from south Texas.

### Next Year

The next January VHF Sweepstakes will be held on January 17 and 18, 2004. Will the E-skip return? Will there be more snow, ice and bitterly cold temperatures or will some of the highest hilltops be open? Can K1TEO and K2DRH/9 remain top dogs in the single op fixed station categories? Speaking of dogs, will the tandem duo of ND3F and W3IY return to the fray to challenge N2JMH? Will some Midwestern or Far Western rover rise up and take them all? Will W2FU overcome the boys from South Mountain at K3EAR? Tune in, tune up and help your club fight for the prize. **Q5Tz**

**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). Call signs of Division leaders and band indicators are listed in boldface type.

<b>1</b>															
<b>Connecticut</b>															
K1UHF	81,888	563	96	A	<b>ABCDEI</b>					K2TXB	73,128	512	88	B	<b>BDE</b>
W1ATT	5,642	150	26	A	ABDE					WA2ONK	50,400	357	72	B	ABCD9E
K1WVX	5,513	114	37	A	ABCDE					W2UR	546	33	14	B	ABC
KB1EZU	4,008	146	24	A	ABD					WC2K	481	34	13	B	BC
K1WY	3,335	117	23	A	ABD					K2AA (K2BL, K2SMD, W2RDS, W2MC, N3RG, KC2HHY, ops)					
WY1U	2,310	101	21	A	ABD						42,976	504	68	L	ABCD
K5GMX	2,080	80	26	A	AB					W2ZQ (KC2DLA, KC2CKI, ops)					
W1DMM	972	53	18	A	ABD						3,212	128	22	L	ABD
KB1GHL	952	56	17	A	AB					W2EA (KF2Y, N1RK, KV2M, KV2R, K2WB, ops)					
N1XXU	840	56	15	A	AB						65,436	628	82	M	ABCD
N1OPO	520	47	10	A	ABD					K3EOD (+WR3P+)					
K1TEO	444,096	1143	216	B	<b>ABCD9EFGI</b>						48,090	425	70	M	ABCD9EF
K1GX	163,152	593	144	B	ABCD9EFGHI					<b>Western New York</b>					
WZ1V	120,840	608	120	B	ABCD9EFG					K8ZES	27,324	230	99	A	<b>ABCD</b>
K7BV	25,340	362	70	B	<b>A</b>					N2HKD	17,934	204	49	A	<b>ABCD9E</b>
WA1GTP	300	23	12	B	ABD					N2EZS	15,640	196	46	A	ABCD9EI
KA1VEC (NM1K,op)										KC2IDT	15,576	204	44	A	ABCD9E
	1,071	55	17	Q	ABCD					W2ONP	13,475	172	49	A	ABCD9E
W1QK	66,780	665	84	L	ABCD					KA2ENE	7,392	211	28	A	ABD
KB1DFB	35,644	481	67	L	ABD					N2HJD	5,911	162	23	A	ABCD9EI
W1AW (KB1FFV, KB1FNZ, KB1HDX, AB1BA, KB1HDW, KB1GUC, KB1IIP, K3UFG, ops)										W2WGL	5,096	84	49	A	ABD
	2,205	78	21	L	ABDE					WY2Z	4,640	111	32	A	ABCDE
K1MUJ	56,316	517	78	M	ABCD9E					KC2EBH	3,996	87	37	A	ABC
<b>Eastern Massachusetts</b>										WA2ZNC	2,620	100	20	A	ABCD
W1PM	53,738	368	97	A	<b>ABCD9E</b>					KB2NFS	1,824	107	12	A	ABCD
WG1Z	30,866	336	61	A	ABCDE					WB2YJH	1,746	93	18	A	ABD
K1PNQ	15,180	260	46	A	ABCD					AB2HG	1,440	100	12	A	ABD
K1UR	14,996	270	46	A	ABCD					N2RD	1,037	61	17	A	AB
N1GJ	13,584	178	48	A	ABCD9EF					W9KXI	220	20	10	A	BD
KA1EKR	9,393	196	31	A	ABCDE					KB2KJV	24	4	4	A	ABCD
N1MPT	5,882	173	34	A	AB					K2DH	8	1	1	A	<b>J</b>
KB1CJ	3,936	157	24	A	ABD					K2AXX	261,060	550	190	B	<b>ABCD9EFGHI</b>
W1DYJ	3,276	126	26	A	AB					K2AN	32,065	235	53	B	ABCD9EFGH
K1EP	1,881	92	19	A	ABCD					AA2GF	20,217	217	69	B	ABCD
W1MAT	1,672	63	19	A	ABCDE					N2UIO	14,895	215	45	B	ABCDHL
N1BC	1,498	88	14	A	ABD					WA2BPE	13,668	171	68	B	ABD
KV1J	1,494	60	18	A	ABCDE					AF2K	13,216	221	56	B	ABD
N1EKV	1,140	58	15	A	ABCD					KB3WL	12,994	133	73	B	ABCD
K1VU	765	45	15	A	ABD					W2DYY	8,136	127	36	B	ABDEFG
N1VQR	657	60	9	A	ABD					W2UAD	70	14	5	B	<b>B</b>
W1GHZ	52,955	377	85	B	<b>ABCD9E</b>					N2IM	1,872	38	18	Q	ABCD9EFG
W1FKF	5,632	87	32	B	ABCD9EFGH					W3OAB	72	3	3	Q	FGL
N1LDY (+KE1AK)										N2KG	32	2	2	Q	IL
	35,594	376	74	L	ABCD					K0SM	32	2	2	Q	IJ
W1XM (KD1KY, KB1FPJ, KC2IND, ops)										N2YB	32	2	2	Q	IL
	24,684	381	51	L	ABCD					KB2LWT	24	4	4	Q	ABCD
N1JOY (+W2DAN, N2PGD)										N2JQR	8	1	1	Q	L
	39,520	340	76	M	ABCD9E					N2VSZ	8	1	1	Q	I
<b>Maine</b>										W2FU (+K2DH, N2WK, K2DB, WA2TMC, K0SM, K2CS, K5MA)					
AA1UT	8,906	142	61	A	ABD						810,266	1179	302	M	ABCD9EFGHIJP
W1BQ	5,481	153	27	A	<b>ABCD</b>					N2PA (N2VSZ, W2JSG, N2JDQ, W3OAB, N2JQR, N2KG, N2YB, ops)					
K1WHS	8,844	201	44	B	<b>A</b>						505,827	1032	259	M	ABCD9EFGHIJL
<b>New Hampshire</b>										<b>3</b>					
AF1T	54,439	359	77	A	<b>ABCD9EFGHIP</b>					<b>Delaware</b>					
AC1J	25,193	280	61	A	ABCDE					WA3U	8,587	182	31	A	<b>BCD</b>
N1HO	24,766	277	58	A	ABCDE					WA3BZT	2,068	94	22	A	<b>AB</b>
N1JHJ	4,818	123	33	A	ABCD					W3OR	79,925	450	115	B	<b>ABCD9EFGH</b>
W1OA	1,728	63	24	A	ABCD					W3HZW (KE3UY, N3FZP, ops)					
K1PDY	630	35	14	A	ABCD						3,325	133	25	L	AB
K1TR	115,416	595	126	B	<b>ABCD9E</b>					<b>Eastern Pennsylvania</b>					
W1ZC	14,022	260	41	B	<b>BD</b>					WA3GFZ	120,530	587	85	A	<b>ABCD9EFGHIP</b>
W1MRQ	12,690	160	47	B	ABCD9EF					W3KJ	67,728	402	68	A	<b>ABCDEFG</b>
KU2A	11,970	157	45	B	ABCD9EFG					N3FUJ	53,568	640	62	A	<b>ABCD</b>
WW1Z	9,361	187	37	B	ABCD9					K3MFI	52,195	450	65	A	ABCD9EF
W1JR	2,709	74	21	B	ABCDE					AA3RE	28,600	352	50	A	ABCD9E
KB1CKT	27	8	3	Q	ABD					K3IUU	27,324	336	46	A	ABCD9E
<b>Rhode Island</b>										WA3NWL	24,288	293	46	A	ABCD9E
W1CPC	528	36	11	A	<b>ABCD</b>					K3TUF	21,708	308	54	A	ABCDE
KB1JCT	16	16	1	A	<b>B</b>					KU3A	18,128	262	44	A	ABCDE
W1JJM	24,254	362	67	B	<b>AB</b>					K3GNC	14,220	221	36	A	BDE
W1XX	15,052	223	53	B	<b>ABCD</b>					KF6AJ	12,857	221	43	A	ABCD
<b>Vermont</b>										N3FD	12,150	298	30	A	ABCD
K1LPS	1,875	52	25	A	<b>ABCD9E</b>					K3EGE	11,700	260	45	A	AB
W1FN (K1XH, N1JEZ, AA1KL, AC1H, KA1UAG, WB1BRE, W1AIM, K1IB, ops)										N3PLM	9,768	226	24	A	ABCD9EF
	31,242	299	82	M	ABCD9					K3DMA	5,360	218	16	A	ABCDE
<b>Western Massachusetts</b>										W3MEL	5,181	129	33	A	ABCD
N1DPM	108,288	465	128	A	<b>ABCD9EFGI</b>					W3GXB	4,669	124	23	A	ABCD9E
KA1MDA	12,427	241	43	A	ABDE					KB3HCL	3,636	143	18	A	ABCD
K1ISW	9,786	183	42	A	ABCD					KB3EXB	3,528	103	28	A	ABCD
N1VOR	1,036	74	14	A	<b>B</b>										
KB1MU	144	30	4	A	<b>BD</b>										
N1MUV	48	14	3	A	ABD										
N1MHH	35	5	5	A	ABCD										
W1RZF	38,592	405	72	B	<b>ABCD</b>										
WA1MBA	13,185	132	45	B	<b>BCD9EFGI</b>										
NC1I	9,802	338	29	B	<b>B</b>										
N1MUW	9,240	162	42	B	ABCD9E										
<b>2</b>															
<b>Eastern New York</b>															
WB2SIH	41,020	365	70	A	<b>ABCD9E</b>										
W2ENY	14,322	213	66	A	<b>ABD</b>										
W2GKR	3,640	75	40	A	ABCD										
WA2BAH	185	34	5	A	AB9										
KA2MCO	135	24	5	A	AB9										
W2FCA	14,145	152	69	B	<b>ABCD</b>										
WA2WQP	13,560	162	60	B	<b>ABCD9E</b>										
KG2H	126	14	9	B	<b>A</b>										
KB2FTX (+packet)															
	10,017	156	53	L	ABDE										
<b>NYC-Long Island</b>															
N2FKF	16,758	244	49	A	<b>ABCD9I</b>										
N2MCY	10,209	189	41	A	<b>ABD9I</b>										
K2OVS	8,904	150	53	A	<b>ABD</b>										
KC2HLI	4,464	124	31	A	ABDE										
KB2NOW	3,360	97	24	A	ABCDE										
WB2CMI	2,838	81	33	A	ABD										
KF2XF	1,547	119	13	A	<b>B</b>										
K2EL	252	28	9	A	<b>AB</b>										
N2DY	38,376	342	78	B	<b>ABCDE</b>										
WB2AMU	731	38	17	Q	ABCD										
W2QK (+N2MDF)															
	75,430	534	95	M	ABCD9E										
<b>Northern New Jersey</b>															
K2AMI	10,458	188	42	A	<b>ABCD</b>										
W2VTV	10,000	178	50	A	<b>ABD</b>										
W2UDT	6,426	134	42	A	ABC										
WB2CUT	4,824	201	24	A	<b>B</b>										
WB2EPQ	3,096	172	18	A	<b>B</b>										
N2CG	3,074	106	29	A	AB										
N2CQM	1,848	80	22	A	ABD										
KA2ANF	1,518	69	22	A	AB										
W2JEK	1,463	77	19	A	AB										
WA2NXK	1,155	63	15	A	ABD										
K2DBK	1,152	60	18	A	ABD										
WA2BKN	748	44	17	A	<b>A</b>										
KC2AWX	490	49	10	A	AB										
N2MH	469	66	7	A	AD										
KC2IGH	360	35	10	A	ABD										
K2ZB	96	16	6	A	AB										
WB2TT	6,174	137	42	B	<b>ABD</b>										
N2NC	2,091	123	17	B	<b>B</b>										
W2OO	1,088	59	17	B	ABD										
W2DTA (+NA2AA)															
	54,032	494	88	L	ABCD										
<b>Northern New York</b>															
NS2P	800	38	20	A	<b>ABD</b>										
W2IB	322	23	14	A	AB										
KC2BEZ	48	7	6	A	ABD										

N3VJH	2,466	108	18	A	ABCD
N3FTI	1,824	60	19	A	ABCDEF
KB3HE	1,818	101	18	A	AB
KB3GJT	1,764	113	12	A	ABCD
N3JNX	1,456	52	26	A	ABD
N3JPV	1,168	66	16	A	ABD
W3JS	840	67	12	A	ABD
N3CB	832	54	13	A	ABCD
KB3IB	680	41	10	A	ABCDE
N3AOG	264	29	6	A	ABCD
KA3EEO	221	13	13	A	ABCD
KA3MGB	196	28	7	A	B
WA3AQA	126	46	2	A	BC
K3VEQ	87	29	3	A	B
W3DZH	84	14	6	A	AB
KB3CEZ	60	15	4	A	AB
W8IJ	42	6	6	A	ABD
KB3GMV	18	6	3	A	A
WA2FGK	354,860	819	220	B	ABCD9EFG
WA3NUF	187,040	724	112	B	ABCD9EFGHIJP
W3RJW	141,120	592	96	B	ABCD9EFGHI
N3EXA	138,600	626	105	B	ABCD9EFIP
AA3GN	132,496	567	91	B	ABCD9EFGHI
WA3DRC	129,717	550	87	B	ABCD9EFGHP
K3IPM	85,162	621	98	B	ABCD9E
WA4GPM	74,365	366	139	B	ABCDE
W3GAD	62,094	468	79	B	ABCD9E
N3ITT	40,508	407	52	B	ABCD9EFP
KB3XG	38,410	234	46	B	ABCD9EFGHIP
KB3ZS	35,616	417	56	B	ABCDE
K3YI	32,193	354	63	B	ABCDE
W3CMP	31,372	341	92	B	AB
WA3EHD	30,780	339	54	B	ABCD9EF
N3ADC	29,596	349	49	B	ABCD9E
W3KM	28,756	269	52	B	ABCD9EFGP
WA3RLT	23,750	283	50	B	ABCDEFP
K3TV	17,138	451	38	B	B
W3SZ	12,177	178	33	B	BCDEF
WA3YUE	11,585	176	35	B	ABCD9EF
KA3FQS	11,100	257	30	B	ABCD
KB3BBR	8,712	157	33	B	ABCDEFP
W3IIT	8,670	214	30	B	ABCD
K3IB	8,140	184	37	B	ABD
W3KKN	4,050	129	15	B	BCD9EF
W3HMU	2,431	111	17	B	ABC
K3ISH	2,310	77	30	B	A
KB3IZP	2,091	36	17	B	ABCD9EFGHI
K3EBZ	1,320	58	12	B	ABCD9E
K3JJZ	936	86	8	B	BC
W3JG	781	68	11	B	ABD
WA2OMY	728	42	14	B	ABCD
N3NTN	495	45	11	B	A
W3AWA	400	43	8	B	ABCD
WA3CSP	300	25	12	B	A
N3AHP	186	28	6	B	ABCD
K3ALS	130	26	5	B	AB
N3FG	15	5	3	B	AB
W3TDZ	12	5	2	B	BD
N3JFM (+W1LBY, N3JXB, NM3N, ops)	94,930	717	110	L	ABCD
W3HZU (AD3E, N3NBT, WS3C, ops)	5,344	152	32	L	ABD
K3EAR (N3TKK, N3WV, N3RN, WA3JWP, WB3FKQ, ops)	877,041	1684	297	M	ABCD9EFGHIJKL
N3NGE (+W2PED, N3EVV, K3AX, K3TUF, W2UR)	326,952	1019	171	M	ABCD9EFGHIP
W0RSJ (+W3DFM, WD5BRP)	265,766	1068	166	M	ABCD9EFG
W3RT (+N3HTZ)	30,856	361	56	M	ABCD9E
KF3DT (+KB3CPL)	19,952	284	43	M	ABCD9E
W3AD (K1CWB, N3TPL, N3PTT, WA3WPA, KB3FGB, N3NRO, ops)	7,004	170	34	M	ABCDE

W3KHZ	516	43	12	A	AB
K3BPP	363	33	11	A	B
W3LL	180	30	6	A	A
K3YDX	174	29	6	A	B
N3FNE	60	12	5	A	A
K1RZ	240,470	800	173	B	ABCD9EFHI
K3DNE	135,072	604	134	B	ABCD9EF
N3HBX	83,772	552	117	B	ABCDE
W3ZZ	22,570	273	61	B	ABCD
N3DB	12,608	197	64	B	A
K3ZO	10,152	216	47	B	AB
W3GN	100	20	5	B	AB
WA3ZKR (+KA3EJJ)	78,431	452	107	M	ABCD9EFGHI

**Western Pennsylvania**

N3JDR	9,592	138	44	A	ABCDE
AA3GM	666	25	18	A	ABCDE
N3EBT	7,370	121	55	B	ABD
WB0IWG	6	3	2	Q	AB
K3MJW (N3MRU, N3NOS, N3OEX, W3RRK, ops)	11,937	128	69	L	ABCD
W3KWH (W3IOH, W3LA, N3LL, WA3TTS, W3SVJ, K3GJS, WA3VXJ, AI3J, ops)	47,994	301	114	M	ABCDE

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**Alabama**

WB4VHF	966	69	14	A	AB
W4NTI	90	15	6	A	A
AF4OD	9	3	3	B	B
W4ZRZ (+N4JDB, KS4B, N4ION)	60,833	404	127	L	ABCD
AI4CW (+N9YGU, KC9AVU)	3,920	112	35	L	AB
W4OZK (+WG8S)	3,640	83	35	L	ABCDE

**Georgia**

WA4IOB	2,250	72	25	A	ABCD
W4KXY	629	37	17	A	AB
KF4JVD	340	30	10	A	ABD
KG4QDZ	12	4	3	A	A
W4EUH	8,736	182	42	B	ABD
KD4K	5,810	128	35	B	ABCD
KF4OLO	64	16	4	B	B

**Kentucky**

K4TO	53,992	229	136	A	ABCD9EFG
W4FVQ	4,264	76	41	A	ABCDE

**North Carolina**

WB4TLX	3,168	78	33	A	ABD
NC4NC	671	61	11	A	A
K3KO	264	21	12	A	ABD
KV4CN	42	6	6	A	BD
K4QI	105,260	391	190	B	ABCDE

**Northern Florida**

KU4WD	4,608	102	36	A	ABCD
WD8KUF	3,379	75	31	A	ABCDE
N5PIP	782	46	17	A	AB
KE4YYD	570	38	15	A	B
WA8TTM	22,200	216	60	B	ABCD9EFG
NW5E	20,510	228	70	B	ABCDE
KQ4PI	8,729	108	43	B	ABCD9EFG
W2BZY	6,864	101	39	B	ABCD9EF

**South Carolina**

KE8FD	38,199	251	107	B	ABCD9E
W4WRL	2,880	80	36	B	AB

**Southern Florida**

K0VXM	9,468	127	36	A	ABCD9EFG
K4ADR	1,305	71	15	A	ABCD
NA4CW	600	42	12	A	ABD
KC4PX	18,428	181	68	B	ABCDE
N4IS	7,742	133	49	B	ABD
NJ2F	5,610	136	30	B	ABCD
KF4FAJ	3,379	85	31	B	ABCD

**Tennessee**

KD4HIK	9,843	146	51	A	ABCD
WA4YRK	3,535	75	35	A	ABD
W4BCU	2,520	79	21	A	ABCDE
AD4F	2,185	75	23	A	ABCD
KU4R	1,116	62	18	A	AB
KG4OLG	312	25	12	A	ABD
WN4M	110	11	10	A	AB
KE4OAR	42	7	6	A	A
K8WW	1	1	1	A	A
WA4QYK	3,834	100	27	B	ABCDE
KE4NYH	2,664	60	37	B	ABD
WA4JA	221	17	13	B	A
AG4V (+packet)	17,640	198	72	M	ABCDE

**Virginia**

K4RTS	31,951	202	89	A	ABCD9EF
W4SHG	25,110	236	81	A	ABCDE
K4ZOO	9,338	118	58	A	ABCD
K4FJW	5,928	115	38	A	ABCD9E
K4FTO	5,597	147	29	A	ABCD
W4/KL7GLL	3,952	126	26	A	ABD
W4XP	3,381	129	23	A	ABCDE
N4MM	1,950	75	26	A	AB
N4DWK	1,632	68	24	A	AB
KA6AKH	1,240	62	20	A	AB
KB8VLI	1,072	67	16	A	AB
N4JED	12	6	2	A	B
N1AME	1	1	1	A	B
KE2N	9,579	225	31	B	BDE
KN4SM	8,820	124	63	B	ABD
W2YE	1,840	80	23	B	A
W4RX (+W3IY, ON1CFX)	7,584	124	32	M	ABCD9EGHI

**West Central Florida**

K4FB	2,925	95	25	A	ABCD
K9HUY	1,054	62	17	A	AB
KC4YDY	84	12	7	A	A

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**Arkansas**

N5QYC	697	41	17	A	AB
KG5MD	8,505	125	63	B	ABCD

**Louisiana**

KF6VBJ	312	18	12	A	ABCDE
K5CZD	144	12	9	A	ABDE
KD5HPT	5,152	205	23	L	ABD

**Mississippi**

W5RBF	429	31	13	A	ABD
KJ5RC	54	9	6	A	AB

**New Mexico**

NK5W	1,088	54	17	A	ABD
N5XZM	1,617	59	21	B	ABCDE

**North Texas**

WA5TKU	8,256	125	43	A	ABCDEI
KM5OL	3,700	75	25	A	ABCD9EFG
K5WO	1,632	81	17	A	ABD
W5HN (W5LUA, op)	300	12	5	A	9EF
WA5YWC	155	17	5	A	ABI
N0RQ	100	20	5	A	AB
KC5POV	60	12	5	A	AB
W5LUA	40,132	179	79	B	ABCD9EFGHIJ
WW2R	26,048	152	64	B	ABCD9EFHIJKL
AF8Z	5,338	106	34	B	ABCDE
AA5C	3,519	46	23	B	ABCD9EFGHIJ
N5PYK (+K5PSK)	6,076	113	31	M	ABCDEI

**Oklahoma**

KD5OMJ	330	27	11	A	ABD
KM5NU	325	25	13	A	AB
NE0P	270	23	9	A	ABCD
W5SSG	40	6	5	A	ABCD
NL7CO	12	3	3	A	ABD
N5OHL	1	1	1	A	A
WD5AGO	1,680	44	24	Q	ABCDEH

**South Texas**

KC5OLC	816	43	16	A	ABD
KA5EYH	341	28	11	A	ABD
WA5UFH	320	20	16	A	AB
K5IX	243	25	9	A	ABD
KM5I	180	20	9	A	AB
AJ4F	162	18	9	A	AB
NA4M	32	8	4	A	A
K5LLL	33,065	178	85	B	ABCD9EFG
W3XO/5	18,318	148	71	B	ABCDE
W5XW	40	10	4	B	AB
AD5V (W5UTZ, KD5KJD, N5HFP, ops)	2,436	74	28	L	ABD
WX5II (W5EX, KD5FVZ, ops)	1,743	66	21	L	ABDE

**West Texas**

AE5B	1,650	52	30	A	ABCD
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**East Bay**

W6OMF	8,772	108	43	A	BCDE
KE6QR	1,428	58	21	A	ABD
N4DLA	176	13	11	A	ABCD

**Los Angeles**

KF6YYV	8,192	195	32	A	ABCD
KG6GIQ	2,484	87	23	A	ABD

W6AQ	969	37	17	A	ABCDE
KE6TDP	168	19	7	A	BD
N6RMJ	33,698	245	83	B	ABCDEI
K6HLH	9,761	135	43	B	BDEFI
KQ6EE	2,240	74	20	Q	ABCDE
KG6DNY	98	14	7	Q	B

**Orange**

KI6FF	5,940	146	33	A	ABD
AD6WL	16	4	2	A	D
AF6O	30,024	282	72	B	ABCDE
K6TSK	10,780	131	49	B	ABCDE
K6IBY	2,784	56	32	B	ABCD
KC6UIX	1,368	49	24	B	ABD

**Santa Barbara**

N6PI	12,546	137	51	A	ABCDEGI
N6VMO	2,324	68	28	A	ABDE
W9EC	2,214	56	27	A	ABCDE
KE6RCI	1,313	78	13	A	BD
KC6NBT	1,134	54	21	A	AB

**Santa Clara Valley**

K6KLY	15,750	260	45	A	ABCD
KF6MXK	3,358	117	23	A	ABCD
WD6DX	35	7	5	A	A

**San Diego**

KF6NKC	33	11	3	A	B
KF6JBB	1,474	56	22	B	ABCD

**San Francisco**

WA6KLLK	12,336	182	48	B	ABCDE
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**San Joaquin Valley**

N6MU (N6NB, op)	15,984	333	48	A	AB
KF6CNV	3,575	106	25	A	ABCD
WJ6T	21,720	220	60	B	ABDE
KR7O	16,980	222	60	B	ABCD
WA6QYR	77	11	7	B	B
K6WAR (K3UG, N6JET, ops)	3,416	100	28	L	ABCD
W6TE (+KF6KDA, W6ALE, K6MI, K6VLF)	49,612	365	79	M	ABCD9EFI

**Sacramento Valley**

KC6TEU	31,430	286	70	A	ABCDE
KC6ZWT	22,852	267	58	A	ABCD
KC6SEH	6,601	127	41	A	ABCD
W6KBX	31,044	252	78	B	ABCDE

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**Arizona**

N7IR	1,035	50	15	A	ABDE
KD7JGJ	414	34	9	B	ABCDE
WA9TKK	135	16	5	Q	ABCDE

**Eastern Washington**

K7AWB	810	69	9	A	ABCD
WR7K	252	21	7	A	ABDE
W6LLP	80	16	4	A	ABD
N7AU	28,084	254	68	B	ABCD9E
W7AV (+N7EY)	4,480	89	35	L	ABCD

**Idaho**

W7USB	2,046	78	22	A	ABD
K7SMA	114	19	6	A	AB
W7MEM	5,436	117	36	B	ABCD
K7YVZ	1,705	55	31	B	AB
N7IJ	272	17	16	B	AB

**Montana**

N7CZ	616	42	11	A	ABCD
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**Nevada**

KD5MSS	189	16	9	A	ABD
W7PW	147	15	7	A	ABCD

**Oregon**

N7DB	8,436	184	38	A	ABCD
WR7X	3,234	84	33	A	ABD
K7HSJ	688	30	16	A	ABCDE
KA6T	576	48	9	A	ABCD
NN7J	11,800	183	50	B	ABCDE
W7DSA	2,800	72	28	B	ABCD
KI7N	50	10	5	Q	B

**Utah**

NJ7A	8,555	173	29	A	ABCD9EIG
N7DBW	5,456	156	22	A	ABCDE
WJ7L	1,316	57	14	A	ABCDEI
KC7PVD	1,035	56	15	A	ABD
K7RJ	328	22	8	A	ABDI
KC7JDS	144	19	6	B	BD
W7SP (WJ7L, K7RJ, ops)	1,494	47	18	M	ABCDEI

**Western Washington**

W7DG (KB7ADO, op)	12,464	213	41	A	ABCDE
K7CW	8,260	236	35	A	AB
WB7FJG	3,128	122	23	A	ABD
K7WIA	1,748	68	23	A	ABCD
KG7P	1,615	86	17	A	ABD
W7GLF	1,349	62	19	A	ABCDE
NM7L	1,261	97	13	A	AB
WA7MLD	1,066	63	13	A	ABD
N7EYO	232	27	8	A	ABC
W7RPD	228	38	6	A	AB
W7ZZT	160	19	8	A	ABD
N7EPD	52,022	387	74	B	ABCD9EFG
WA7TZY	17,928	211	54	B	ABDE
KE7SW	12,045	107	55	B	ABCD9EFG
K7ND	3,692	61	26	B	ABCD9E
WB7BST	208	13	4	B	E
KC7RAS	8,646	168	33	Q	ABCDE
W7DK (KD7QLJ, KD7SQR, K7ROL, KB7QAG, KD7SXU, KD7RWT, KD7NPT, ops)	2,185	106	19	L	ABD
KI7EL (+N7XKJ, KB7PSG)	3,058	111	22	M	ABCDE

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**Michigan**

KB8U	44,635	286	113	A	ABCD9EF
KB8GC	7,038	120	51	A	ABD
N8CJG	5,610	102	55	A	A
N8ZVB	1,380	69	20	A	A
W8IDT	1,215	45	27	A	B
N8GX	777	37	21	A	AB
WA8YLZ	60	12	5	A	AB
K8MD	87,763	400	157	B	ABCD9EF
K2YAZ	36,741	199	111	B	ABCD9EF
K8RS	22,923	207	81	B	ABCDE
K8CC (+K9TM, WX3M)	116,494	597	157	L	ABCD
K8RO (+N8PYN, N8HUL)	9,947	168	49	L	ABD
KB8BSG (+N8UZE)	676	52	13	L	AB

**Ohio**

WA8RJF	55,473	239	123	A	ABCD9EFGH
KE8RO	15,048	189	66	A	ABD
WB8AUK	8,680	120	56	A	ABCD
W8BAE (KT8U, op)	6,118	106	46	A	ABDE
KK8O	3,720	98	31	A	ABD
K8AB	3,069	80	31	A	ABD
W8DEL	2,254	77	23	A	ABD
K8FFO	2,052	57	36	A	AB
W8PAT	1,898	60	26	A	ABCD
N8LIS	1,785	75	21	A	ABD
W8AV	1,160	58	20	A	AB
N8QQA	910	56	13	A	ABD
N8QWJ	888	59	12	A	ABD
K8MR	880	34	20	A	ABCD
KB8UUZ	816	48	17	A	A
KB8WZZ	540	48	9	A	ABD
W8IDM	481	31	13	A	ABD
KC8RSZ	336	36	7	A	ABD
W8KNO	253	23	11	A	AB
K8NZ	240	20	12	A	AB
KC8HUU	171	19	9	A	AB
KV8D	112	24	4	A	ABD
KC8JFA	72	25	2	A	BD
W8IJN	64	8	8	A	AB
KC8JYJ	44	15	2	A	BD
K8USA	42	15	2	A	BD
KB8RYA	32	13	2	A	BD
KC8CFI	24	4	4	A	BD
KC7MCM10	10	1	A	B	
K8TQK	29,164	141	92	B	ABCD9EFG
N8BJQ	6,419	131	49	B	AB
K8TVD	6,400	102	50	B	ABD
W8GG	5,290	115	46	B	A
W8SRCN	2,520	105	24	B	AB
N8GLS	2,241	83	27	B	B
N8TQ	1,764	78	18	B	ABD
WZ8D	1,680	50	30	B	ABD
N8IR	1,081	34	23	B	BD
N8A (N8XA, op)	5,336	78	46	Q	ABCD9EI
N8ZM (+KD8FO, W8PLZ)	48,488	378	116	L	ABD
W8DD (+KC8SHY)	4,284	104	36	L	ABD
K8FH (+KC8QAE, W8TAH)	2,828	82	28	L	ABD

**N8KOL (+K8ROX, WM8I)**

73,580	446	130	M	ABCDEF
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**West Virginia**

K8GUN	25,560	293	71	A	ABD
WB8TFV	10,388	175	49	A	ABD
N8II	3,920	112	35	A	A
W8CMK	2,706	97	22	A	ABCD
WV8E	203	29	7	A	AB
K2UOP	35,948	240	86	B	ABCD9EF
N8RAT	18,060	248	60	B	ABD

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**Illinois**

K2DRH	160,395	543	185	A	ABCD9E
W09S	28,981	325	73	A	ABCD
WA9FIH	28,014	333	69	A	ABCD
N9NJY	11,403	146	63	A	ABCDE
WB9WNZ	9,273	186	33	A	ABCDE
KB9LNE	6,105	148	33	A	ABCD
KB9II	4,401	126	27	A	ABCD
WA9RIJ	3,496	125	23	A	ABD
WD9GJK	3,024	119	21	A	ABCD
KC9AMM	3,007	88	31	A	ABD
K9AM	2,500	100	25	A	A
NT9E	2,128	92	19	A	ABD
WA9HIR	2,023	90	17	A	BCD
WB9IFM	1,729	91	19	A	AB
WD9ISG	1,691	89	19	A	AB
N8KWX	1,672	65	19	A	ABCD
KB9YSI	1,606	73	22	A	AB
W9NHX	1,376	76	16	A	ABD
N9TUQ	1,358	85	14	A	ABD
N9YZS	1,349	55	19	A	BD
WA9CCQ	1,339	82	13	A	ABCD
N9SDT	969	45	19	A	ABD
KB9ZKG	840	56	15	A	AB
KB9YXF	496	43	8	A	BD
AK9Y	168	42	4	A	B
K9LPL	156	39	4	A	B
KA9UZH	104	26	4	A	B
K9PG	70	14	5	A	B
WB9MII	51	17	3	A	B
WN9GUC	51	15	3	A	BD
K9DKI	22	11	2	A	B
WB9Z	182,991	702	181	B	ABCDE
K9YR	46,170	331	90	B	ABCD9E
WB9SNR	36,960	259	84	B	ABCD9E
K9SM	2,368	61	32	B	ABCDE
W9JGV	2,112	88	24	B	B
AI9L	1,898	64	26	B	ABD
W9GKA	7,065	128	45	Q	ABCD
W9RVG (+WD9EXD, WD9EMF)	51,282	336	126	M	ABCDE

**Indiana**

WA1MKE	26,675	194	97	A	ABCD9E
N9HZ	3,354	77	43	A	ABD
W9ZB	814	34	22	A	ABD
WB9DRB	330	22	15	A	A
NM9P	312	24	13	A	A
K9EA	39,804	273	107	B	ABCDE
W9VW (N9KZJ, + ops)	12,474	151	66	L	ABCD
WD9DSN (+WD9SDP)	2,040	57	30	L	ABD

**Wisconsin**

N9DG	42,180	298	114	A	ABCD
K9VHF	31,314	225	102	A	ABCDE
KB9PJL	22,630	255	62	A	ABCDE
KB9UZV	20,928	259	64	A	ABDE
N9UDO	12,998	171	67	A	ABD
KA9EKG	10,260	190	54	A	AB
KB9Q	7,650	145	45	A	ABCD
W9GM	7,290	141	45	A	ABD
N9TTX	4,860	118	27	A	ABCDE
ND9Z	4,000	61	32	A	ABCDEF
W9RAY	2,964	100	26	A	ABC
K9VS	1,804	82	22	A	AB
N9NDP	552	44	12	A	ABC
KA9OIL	290	29	10	A	AB
W9KHH	230	19	10	A	BD
W9GA	84,095	445	121	B	ABCD9E
N0AKC	19,955	214	65	B	ABCDE
W9HR					

W0EEA (+N9KC, W9BD, K0KHZ, K7OCK)  
10,948 126 46 M ABCDEFHIJ

**Iowa**

N0URW 38,533 288 113 A ABCD  
W0YPT 680 32 17 A BC  
KE0FT 560 37 14 A ABD  
KM0T 259,675 456 235 B ABCD9EFGHI

**Kansas**

N0LL 18,009 148 87 A ABCDE  
W0RT 3,666 67 47 A ABD  
N0JK 780 34 20 Q ABD  
KA0MR (+KA0KCI)  
9,548 109 62 M ABCDE

**Minnesota**

K0SHF 52,635 345 87 A ABCD9EFI  
KT8O 36,432 383 72 A ABCD  
N0KP 22,740 266 60 A ABCD  
KA0PQW 20,498 232 74 A ABCD  
N0KQ 5,518 163 31 A ABD9I  
W0VNE 4,400 124 25 A ABCDE  
K0SQ 4,320 127 30 A ABD  
N0MK 3,444 97 28 A ABD  
KC0HEW 2,736 112 24 A ABD  
KB0LYL 2,613 201 13 A B  
N0OK 2,158 80 26 A ABD  
N0OA 1,417 82 13 A ABDE  
KB0TZA 1,196 58 13 A ABCDE  
KC0JFY 935 53 17 A ABD  
W0KF 666 80 6 A BCD  
K0KFC 640 51 10 A ABD  
K1WVE 336 42 8 A B  
K0VH 232 29 8 A AB  
N0AT 140 20 7 A AB  
N2DUP 56 13 4 A ABD  
KC0FUI 6 3 2 A B  
W0GHZ 125,710 439 130 B ABCD9EFGHIP  
W0ZQ 90,272 383 112 B ABCD9EFI  
K0AWU 13,124 155 68 B ABCDE  
W0AUS 8,680 144 35 B ABCDEIJ  
W0OHU 5,848 82 43 B ABDE  
W0VB 3,441 111 31 B  
WB0LJC 2,385 54 15 Q ABCD9EFGI  
KC0MAQ 27 7 3 Q BD  
W0JH (WB0VHF, N0MR, W0SEI, ops)  
16,530 245 58 L ABD  
KC0P (+N0HZO)  
84 11 7 L ABD

**Missouri**

N0PB 23,634 234 101 A AB  
KO0Z 612 28 17 A ABDE  
KI0RX 20 4 4 A ABC

**North Dakota**

NT0V 1,540 36 28 B ABCDE

**Nebraska**

WN0L 32 8 4 A A

**South Dakota**

WB0HHM 2,822 57 34 A ABCD  
K0HW 264 20 11 A ABDE

**Maritime-Newfoundland**

VE1YX 12,772 206 62 B A

**Quebec**

VE2ZP 8,688 129 48 A ABCDE  
VE2JWH 7,729 105 59 A ABCD  
VA2ADB 1,508 52 29 A AB  
VE2GUQ 748 39 17 A ABD  
VE2DCP 407 32 11 A ABD  
VE2CRG 60 12 4 A BD  
VE2XX 1,890 48 35 B ABCD  
VE2PSU 840 33 21 B ABCD  
VE2PIJ 140 17 7 B ABCD

**Ontario**

VA3ST 32,107 247 97 A ABCD  
VE3KZ 15,104 214 59 A ABD  
VA3KA 12,920 149 68 A ABCD  
VE3CVG 7,267 123 43 A ABCDE  
VE3SMA 5,460 80 39 A ABCD9EF  
VE3SXE 5,405 103 47 A ABCD  
VE3VZ 4,154 100 31 A ABCD  
VA3NFA 4,104 95 36 A ABCD  
VE3XK 2,759 78 31 A ABD  
VE3NPB 1,224 39 24 A ABCD  
VE3OJN 1,121 41 19 A ABCDE  
VA3OR 560 28 20 A A  
VA3TO 528 36 11 A ABCD  
VA3TSG 172 40 4 A BD  
VE3BNO 112 10 8 A ABDE  
VE3SYK 8 2 1 A E

VE3TFU 39,162 220 107 B ABCD9E  
VE3FGU 11,178 136 69 B ABD  
VE3BFM 5,060 69 46 B ABCD9E  
VE3IEY 4,773 90 43 B BCD  
VE3CR (+VA3DF)  
5,282 112 38 L ABD

**British Columbia**

VE7DXG 29,986 353 58 A ABCDE  
VA7MM 910 49 14 A ABDE

**Guam**

KG6DX 1,368 57 24 A A

**Rovers**

**Atlantic**

N2JMH (+N2WVW)  
525,249 869 153 R ABCD9EFGHIL  
K2TER (+KV2X)  
473,396 754 154 R ABCD9EFGHIL  
N2OPW (+K2EHF)  
210,078 549 99 R ABCD9EFGHIJL  
WO2P/R 147,708 371 99 R ABCD9EFHIL  
N2KXS/R 136,958 360 94 R ABCD9EFHIL  
K1DS 101,844 490 69 R ABCD9EFGHIJP  
N1XKT 94,944 504 69 R ABCD9EFGHIJP  
N6NB 90,496 585 112 R ABCD9E  
K2QO/R (+W2TAU)  
12,120 196 40 R ABCDIL  
W2EV/R (+WB2VUO)  
11,000 243 25 R BCDE  
NE3I 10,208 215 29 R ABCDP  
N2DVQ/R 5,472 76 32 R ABCD9EF  
N2GKM/R 3,822 58 21 R ABCD9EFGI  
W3HMS 2,912 47 28 R ABCDEFGHI  
K2OS 1,302 93 14 R AB  
N3EVV 465 17 5 R BCIP

**Central**

N9UM/R (+K9IJ)  
269,712 893 144 R ABCD9EFP  
KF9US (+N9REP)  
211,830 719 138 R ABCD9EFP  
K0PG/R 53,805 366 85 R ABCD9E  
K9ILT/R 50,796 355 83 R ABCD9E  
WB8BZK 9,984 232 32 R ABCD  
K9TMS 5,916 101 29 R ABCD9E

**Dakota**

W9FZ 80,408 511 76 R ABCD9EF  
KC0LBT/R (+K0KOE)  
30,420 327 65 R ABCD  
W0AMT/R (+KB0YMO)  
28,594 303 58 R ABCDE  
W0IS (+KC0OIA)  
6,256 150 34 R ABD  
KC0OIA (+W0IS)  
6,154 147 34 R ABD  
N0UK 2,486 73 22 R ABCD9E  
KC0P/R 280 26 8 R BD  
N2DUP/R 125 18 5 R BD  
N0HZO/R 20 4 5 R B

**Delta**

N4FLM 3,069 71 31 R ABCD  
WB4WEN/R 2,289 68 21 R ABCDFG

**Great Lakes**

K8DOG/R (+KF8QL)  
11,500 163 50 R ABCD9E  
KB8VAO 8,325 58 39 R ABCDEGHIJ  
KC8RTB/R 711 61 9 R ABD  
W8EH 624 32 16 R ABD

**Hudson**

KC2HIZ/R 715 51 11 R ABD  
NS2K 405 37 9 R ABD  
KA2UPW 328 41 8 R B

**Midwest**

N0DQS 94,686 402 86 R ABCD9EFGHI  
KB0THN/R 1,596 60 19 R BD

**New England**

KB1EAA/R (+KB1EUH)  
19,500 234 65 R ABCD  
K1DY 9,120 134 48 R ABCD  
KJ1K 6,444 96 36 R ABCD9E

**Northwestern**

KK7GU/R (+KB7PJM)  
232,260 1141 98 R ABCDEF  
W7DHC/R (+op)  
149,124 726 102 R ABCD9EFG  
N7WLO (N7ZLM, op)  
113,280 531 96 R ABCDEF

K7MDL/R 40,077 424 61 R ABCDE  
WE7X/R 27,496 290 56 R ABCDE  
N7CFO 18,396 225 42 R ABCD9EFG  
KA7SAG 15,794 232 53 R ABCD  
N3EG 2,375 77 25 R ABCD  
KD7TS 234 24 9 R ABD

**Pacific**

K7XC (+NS9E)  
89,184 615 96 R ABCDE  
N6ZGY (+AE6GE)  
20,256 226 48 R ABCDEP  
K7WWA 9,184 159 41 R ABCDE  
KE6FI 8,244 184 36 R ABCD  
KG6GMT 4,590 121 34 R ABCD  
K6AAA 574 41 14 R B

**Roanoke**

W3IY/R (+N1CFX)  
12,192 134 48 R ABCD9EFI  
KB1EXM/R 3,952 120 26 R ABD  
KF4TDZ 2,882 113 22 R ABD

**Rocky Mountain**

N7MLD 10,584 108 56 R ABCDEI  
WB2FKO 1,083 57 19 R AB

**Southeastern**

K6LMN/4 1,404 46 26 R ABDE  
K1KC/R 816 24 24 R ABCDE

**Southwestern**

N6TEB/R (+KE6HPZ)  
282,492 751 133 R ABCD9EFGI  
N6DN/R (+AD6HT)  
226,296 673 126 R ABCD9EFGI  
K6FZZ (+K6FZY)  
105,930 364 99 R ABCD9EFGI  
WB6JDH/R (+K6WHP)  
14,260 293 31 R ABCDE  
KG6DLG (+KD6OUB)  
5,244 123 38 R ABD  
AD6AF 2,160 73 20 R ABCD  
N6VHF/R 2,124 88 18 R ABD  
KX6Z (+KG6JDH)  
2,037 74 21 R ABCD

**West Gulf**

W5DF/R (+AB5SS)  
71,832 266 73 R BCD9EFGHIJ  
KI5DR/R 3,190 83 29 R ABD  
NH6CJ/R 385 31 11 R ABD  
N5HYH 270 27 10 R AB  
AF5Q 224 23 8 R ABD

**Canada**

VE3OIL/R 37,260 283 81 R ABCD9EF  
K2LDT (+K2LDU)  
6,216 63 21 R ABCD9EFGHIJ

**Checklog: K0JQA**